

**ANR Pipeline Company
 Transmission TNS Estimate**

Transmission Meter Station TNS Estimate 1/

State	Removal Cost	Scrap Value	Combined Total	Adj. Factor	Transmission Total
Illinois	\$ 17,243,000	\$ (298,000)	\$ 16,945,000	1.0000	\$ 16,945,000
Indiana	\$ 18,486,000	\$ (307,000)	\$ 18,179,000	1.0000	\$ 18,179,000
Iowa	\$ 14,007,000	\$ (233,000)	\$ 13,774,000	1.0000	\$ 13,774,000
Kansas	\$ 3,966,000	\$ (105,000)	\$ 3,861,000	1.0000	\$ 3,861,000
Kentucky	\$ 2,754,000	\$ (46,000)	\$ 2,708,000	1.0000	\$ 2,708,000
Louisiana	\$ 24,800,000	\$ (710,000)	\$ 24,090,000	1.0000	\$ 24,090,000
Michigan	\$ 33,430,000	\$ (695,000)	\$ 32,735,000	0.9072	\$ 29,697,732
Mississippi	\$ 2,281,000	\$ (87,000)	\$ 2,194,000	1.0000	\$ 2,194,000
Missouri	\$ 8,170,000	\$ (141,000)	\$ 8,029,000	1.0000	\$ 8,029,000
Ohio	\$ 15,231,000	\$ (259,000)	\$ 14,972,000	1.0000	\$ 14,972,000
Oklahoma	\$ 7,678,000	\$ (232,000)	\$ 7,446,000	1.0000	\$ 7,446,000
Tennessee	\$ 2,018,000	\$ (52,000)	\$ 1,966,000	1.0000	\$ 1,966,000
Texas	\$ 3,376,000	\$ (86,000)	\$ 3,290,000	1.0000	\$ 3,290,000
Wisconsin	\$ 57,967,000	\$ (1,032,000)	\$ 56,935,000	1.0000	\$ 56,935,000
Grand Total	\$ 211,407,000	\$ (4,283,000)	\$ 207,124,000		\$ 204,086,732

1/ Combined estimate adjusted to remove 9 storage meter stations in the State of Michigan.

Combined Transmission and Storage Meter Station TNS Estimate

State	Removal Cost	Scrap Value	Combined Total	Adj. Factor	Combined Total
Illinois	\$ 17,243,000	\$ (298,000)	\$ 16,945,000	1.0000	\$ 16,945,000
Indiana	\$ 18,486,000	\$ (307,000)	\$ 18,179,000	1.0000	\$ 18,179,000
Iowa	\$ 14,007,000	\$ (233,000)	\$ 13,774,000	1.0000	\$ 13,774,000
Kansas	\$ 3,966,000	\$ (105,000)	\$ 3,861,000	1.0000	\$ 3,861,000
Kentucky	\$ 2,754,000	\$ (46,000)	\$ 2,708,000	1.0000	\$ 2,708,000
Louisiana	\$ 24,800,000	\$ (710,000)	\$ 24,090,000	1.0000	\$ 24,090,000
Michigan	\$ 33,430,000	\$ (695,000)	\$ 32,735,000	1.0000	\$ 32,735,000
Mississippi	\$ 2,281,000	\$ (87,000)	\$ 2,194,000	1.0000	\$ 2,194,000
Missouri	\$ 8,170,000	\$ (141,000)	\$ 8,029,000	1.0000	\$ 8,029,000
Ohio	\$ 15,231,000	\$ (259,000)	\$ 14,972,000	1.0000	\$ 14,972,000
Oklahoma	\$ 7,678,000	\$ (232,000)	\$ 7,446,000	1.0000	\$ 7,446,000
Tennessee	\$ 2,018,000	\$ (52,000)	\$ 1,966,000	1.0000	\$ 1,966,000
Texas	\$ 3,376,000	\$ (86,000)	\$ 3,290,000	1.0000	\$ 3,290,000
Wisconsin	\$ 57,967,000	\$ (1,032,000)	\$ 56,935,000	1.0000	\$ 56,935,000
Grand Total	\$ 211,407,000	\$ (4,283,000)	\$ 207,124,000		\$ 207,124,000

Transmission and Storage Meter Station TNS Estimate Adjustment Factors

State	Combined No. of Meter Sta.	No. of Transmission Meter Sta.	No. of Storage Meter Sta.	Transmission Adjustment Factor	Storage Adjustment Factor
Illinois	44	44		1.0000	0.0000
Indiana	47	47		1.0000	0.0000
Iowa	43	43		1.0000	0.0000
Kansas	21	21		1.0000	0.0000
Kentucky	8	8		1.0000	0.0000
Louisiana	124	124		1.0000	0.0000
Michigan	97	88	9	0.9072	0.0928
Mississippi	15	15		1.0000	0.0000
Missouri	27	27		1.0000	0.0000
Ohio	35	35		1.0000	0.0000
Oklahoma	38	38		1.0000	0.0000
Tennessee	8	8		1.0000	0.0000
Texas	16	16		1.0000	0.0000
Wisconsin	156	156		1.0000	0.0000
Grand Total	679	670	9		

**ANR Pipeline Company
 Transmission TNS Estimate**

Meter Station Cost of Removal by State and Station Type

State	Type of Meter Station	No. of Stations	Cost of Removal Per station	Cost of Removal All Stations
Illinois	No Tubes - EGM	17	\$130,000	\$2,210,000
	Sum of 1 Tube: Less than 12"	13	\$449,000	\$5,837,000
	Sum of 2 Tubes: Between 12" & 24"	3	\$553,000	\$1,659,000
	Sum of 3 Tubes: Between 24" & 36"	6	\$577,000	\$3,462,000
	Sum of 4 Tubes: Between 36" & 48"	2	\$699,000	\$1,398,000
	Sum of 5 Tubes: Between 48" & 60"	2	\$756,000	\$1,512,000
	Sum of 6 Tubes: Between 60" & 72"	0	\$875,000	\$0
	Sum of 7 Tubes: Between 72" & 84"	0	\$995,000	\$0
	Sum of 8 Tubes: Between 84" & 96"	0	\$1,021,000	\$0
	Sum of 9 Tubes: Between 96" & 108"	0	\$1,141,000	\$0
	Sum of 10 Tubes: Between 108" & 120"	1	\$1,165,000	\$1,165,000
Subtotal Illinois:		44		\$17,243,000
Indiana	No Tubes - EGM	10	\$123,000	\$1,230,000
	Sum of 1 Tube: Less than 12"	23	\$419,000	\$9,637,000
	Sum of 2 Tubes: Between 12" & 24"	9	\$516,000	\$4,644,000
	Sum of 3 Tubes: Between 24" & 36"	3	\$539,000	\$1,617,000
	Sum of 4 Tubes: Between 36" & 48"	1	\$653,000	\$653,000
	Sum of 5 Tubes: Between 48" & 60"	1	\$705,000	\$705,000
	Sum of 6 Tubes: Between 60" & 72"	0	\$817,000	\$0
	Sum of 7 Tubes: Between 72" & 84"	0	\$929,000	\$0
	Sum of 8 Tubes: Between 84" & 96"	0	\$954,000	\$0
	Sum of 9 Tubes: Between 96" & 108"	0	\$1,065,000	\$0
	Sum of 10 Tubes: Between 108" & 120"	0	\$1,088,000	\$0
Subtotal Indiana:		47		\$18,486,000
Iowa	No Tubes - EGM	9	\$111,000	\$999,000
	Sum of 1 Tube: Less than 12"	31	\$375,000	\$11,625,000
	Sum of 2 Tubes: Between 12" & 24"	3	\$461,000	\$1,383,000
	Sum of 3 Tubes: Between 24" & 36"	0	\$482,000	\$0
	Sum of 4 Tubes: Between 36" & 48"	0	\$584,000	\$0
	Sum of 5 Tubes: Between 48" & 60"	0	\$630,000	\$0
	Sum of 6 Tubes: Between 60" & 72"	0	\$730,000	\$0
	Sum of 7 Tubes: Between 72" & 84"	0	\$829,000	\$0
	Sum of 8 Tubes: Between 84" & 96"	0	\$852,000	\$0
	Sum of 9 Tubes: Between 96" & 108"	0	\$952,000	\$0
	Sum of 10 Tubes: Between 108" & 120"	0	\$972,000	\$0
Subtotal Iowa:		43		\$14,007,000
Kansas	No Tubes - EGM	15	\$112,000	\$1,680,000
	Sum of 1 Tube: Less than 12"	6	\$381,000	\$2,286,000
	Sum of 2 Tubes: Between 12" & 24"	0	\$468,000	\$0
	Sum of 3 Tubes: Between 24" & 36"	0	\$489,000	\$0
	Sum of 4 Tubes: Between 36" & 48"	0	\$593,000	\$0
	Sum of 5 Tubes: Between 48" & 60"	0	\$640,000	\$0
	Sum of 6 Tubes: Between 60" & 72"	0	\$742,000	\$0
	Sum of 7 Tubes: Between 72" & 84"	0	\$843,000	\$0
	Sum of 8 Tubes: Between 84" & 96"	0	\$866,000	\$0
	Sum of 9 Tubes: Between 96" & 108"	0	\$967,000	\$0
	Sum of 10 Tubes: Between 108" & 120"	0	\$988,000	\$0
Subtotal Kansas:		21		\$3,966,000
Kentucky	No Tubes - EGM	1	\$108,000	\$108,000
	Sum of 1 Tube: Less than 12"	6	\$366,000	\$2,196,000
	Sum of 2 Tubes: Between 12" & 24"	1	\$450,000	\$450,000
	Sum of 3 Tubes: Between 24" & 36"	0	\$470,000	\$0
	Sum of 4 Tubes: Between 36" & 48"	0	\$570,000	\$0
	Sum of 5 Tubes: Between 48" & 60"	0	\$615,000	\$0
	Sum of 6 Tubes: Between 60" & 72"	0	\$713,000	\$0
	Sum of 7 Tubes: Between 72" & 84"	0	\$810,000	\$0
	Sum of 8 Tubes: Between 84" & 96"	0	\$832,000	\$0
	Sum of 9 Tubes: Between 96" & 108"	0	\$929,000	\$0
	Sum of 10 Tubes: Between 108" & 120"	0	\$949,000	\$0
Subtotal Kentucky:		8		\$2,754,000

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Meter Station Cost of Removal by State and Station Type

State	Type of Meter Station	No. of Stations	Cost of Removal Per station	Cost of Removal All Stations
Louisiana	No Tubes - EGM	84	\$106,000	\$8,904,000
	Sum of 1 Tube: Less than 12"	25	\$360,000	\$9,000,000
	Sum of 2 Tubes: Between 12" & 24"	7	\$443,000	\$3,101,000
	Sum of 3 Tubes: Between 24" & 36"	7	\$462,000	\$3,234,000
	Sum of 4 Tubes: Between 36" & 48"	1	\$561,000	\$561,000
	Sum of 5 Tubes: Between 48" & 60"	0	\$605,000	\$0
	Sum of 6 Tubes: Between 60" & 72"	0	\$701,000	\$0
	Sum of 7 Tubes: Between 72" & 84"	0	\$797,000	\$0
	Sum of 8 Tubes: Between 84" & 96"	0	\$819,000	\$0
	Sum of 9 Tubes: Between 96" & 108"	0	\$914,000	\$0
	Sum of 10 Tubes: Between 108" & 120"	0	\$934,000	\$0
Subtotal Louisiana:		124		\$24,800,000
Michigan	No Tubes - EGM	33	\$113,000	\$3,729,000
	Sum of 1 Tube: Less than 12"	28	\$385,000	\$10,780,000
	Sum of 2 Tubes: Between 12" & 24"	17	\$473,000	\$8,041,000
	Sum of 3 Tubes: Between 24" & 36"	9	\$494,000	\$4,446,000
	Sum of 4 Tubes: Between 36" & 48"	5	\$599,000	\$2,995,000
	Sum of 5 Tubes: Between 48" & 60"	3	\$647,000	\$1,941,000
	Sum of 6 Tubes: Between 60" & 72"	2	\$749,000	\$1,498,000
	Sum of 7 Tubes: Between 72" & 84"	0	\$852,000	\$0
	Sum of 8 Tubes: Between 84" & 96"	0	\$875,000	\$0
	Sum of 9 Tubes: Between 96" & 108"	0	\$977,000	\$0
	Sum of 10 Tubes: Between 108" & 120"	0	\$998,000	\$0
Subtotal Michigan:		97		\$33,430,000
Mississippi	No Tubes - EGM	13	\$97,000	\$1,261,000
	Sum of 1 Tube: Less than 12"	0	\$327,000	\$0
	Sum of 2 Tubes: Between 12" & 24"	0	\$402,000	\$0
	Sum of 3 Tubes: Between 24" & 36"	0	\$420,000	\$0
	Sum of 4 Tubes: Between 36" & 48"	2	\$510,000	\$1,020,000
	Sum of 5 Tubes: Between 48" & 60"	0	\$550,000	\$0
	Sum of 6 Tubes: Between 60" & 72"	0	\$637,000	\$0
	Sum of 7 Tubes: Between 72" & 84"	0	\$724,000	\$0
	Sum of 8 Tubes: Between 84" & 96"	0	\$744,000	\$0
	Sum of 9 Tubes: Between 96" & 108"	0	\$831,000	\$0
	Sum of 10 Tubes: Between 108" & 120"	0	\$849,000	\$0
Subtotal Mississippi:		15		\$2,281,000
Missouri	No Tubes - EGM	12	\$128,000	\$1,536,000
	Sum of 1 Tube: Less than 12"	14	\$434,000	\$6,076,000
	Sum of 2 Tubes: Between 12" & 24"	0	\$535,000	\$0
	Sum of 3 Tubes: Between 24" & 36"	1	\$558,000	\$558,000
	Sum of 4 Tubes: Between 36" & 48"	0	\$676,000	\$0
	Sum of 5 Tubes: Between 48" & 60"	0	\$730,000	\$0
	Sum of 6 Tubes: Between 60" & 72"	0	\$846,000	\$0
	Sum of 7 Tubes: Between 72" & 84"	0	\$961,000	\$0
	Sum of 8 Tubes: Between 84" & 96"	0	\$988,000	\$0
	Sum of 9 Tubes: Between 96" & 108"	0	\$1,103,000	\$0
	Sum of 10 Tubes: Between 108" & 120"	0	\$1,127,000	\$0
Subtotal Missouri:		27		\$8,170,000
Ohio	No Tubes - EGM	5	\$115,000	\$575,000
	Sum of 1 Tube: Less than 12"	11	\$390,000	\$4,290,000
	Sum of 2 Tubes: Between 12" & 24"	10	\$480,000	\$4,800,000
	Sum of 3 Tubes: Between 24" & 36"	4	\$501,000	\$2,004,000
	Sum of 4 Tubes: Between 36" & 48"	1	\$607,000	\$607,000
	Sum of 5 Tubes: Between 48" & 60"	3	\$655,000	\$1,965,000
	Sum of 6 Tubes: Between 60" & 72"	0	\$759,000	\$0
	Sum of 7 Tubes: Between 72" & 84"	0	\$863,000	\$0
	Sum of 8 Tubes: Between 84" & 96"	0	\$886,000	\$0
	Sum of 9 Tubes: Between 96" & 108"	1	\$990,000	\$990,000
	Sum of 10 Tubes: Between 108" & 120"	0	\$1,127,000	\$0
Subtotal Ohio:		35		\$15,231,000

**ANR Pipeline Company
 Transmission TNS Estimate**

Meter Station Cost of Removal by State and Station Type

State	Type of Meter Station	No. of Stations	Cost of Removal Per station	Cost of Removal All Stations
Oklahoma	No Tubes - EGM	25	\$103,000	\$2,575,000
	Sum of 1 Tube: Less than 12"	6	\$348,000	\$2,088,000
	Sum of 2 Tubes: Between 12" & 24"	6	\$428,000	\$2,568,000
	Sum of 3 Tubes: Between 24" & 36"	1	\$447,000	\$447,000
	Sum of 4 Tubes: Between 36" & 48"	0	\$542,000	\$0
	Sum of 5 Tubes: Between 48" & 60"	0	\$585,000	\$0
	Sum of 6 Tubes: Between 60" & 72"	0	\$678,000	\$0
	Sum of 7 Tubes: Between 72" & 84"	0	\$770,000	\$0
	Sum of 8 Tubes: Between 84" & 96"	0	\$792,000	\$0
	Sum of 9 Tubes: Between 96" & 108"	0	\$884,000	\$0
	Sum of 10 Tubes: Between 108" & 120"	0	\$903,000	\$0
Subtotal Oklahoma:		38		\$7,678,000
Tennessee	No Tubes - EGM	4	\$105,000	\$420,000
	Sum of 1 Tube: Less than 12"	2	\$354,000	\$708,000
	Sum of 2 Tubes: Between 12" & 24"	1	\$435,000	\$435,000
	Sum of 3 Tubes: Between 24" & 36"	1	\$455,000	\$455,000
	Sum of 4 Tubes: Between 36" & 48"	0	\$551,000	\$0
	Sum of 5 Tubes: Between 48" & 60"	0	\$595,000	\$0
	Sum of 6 Tubes: Between 60" & 72"	0	\$689,000	\$0
	Sum of 7 Tubes: Between 72" & 84"	0	\$783,000	\$0
	Sum of 8 Tubes: Between 84" & 96"	0	\$805,000	\$0
	Sum of 9 Tubes: Between 96" & 108"	0	\$899,000	\$0
	Sum of 10 Tubes: Between 108" & 120"	0	\$918,000	\$0
Subtotal Tennessee:		8		\$2,018,000
Texas	No Tubes - EGM	11	\$105,000	\$1,155,000
	Sum of 1 Tube: Less than 12"	4	\$354,000	\$1,416,000
	Sum of 2 Tubes: Between 12" & 24"	0	\$435,000	\$0
	Sum of 3 Tubes: Between 24" & 36"	0	\$455,000	\$0
	Sum of 4 Tubes: Between 36" & 48"	0	\$551,000	\$0
	Sum of 5 Tubes: Between 48" & 60"	0	\$595,000	\$0
	Sum of 6 Tubes: Between 60" & 72"	0	\$689,000	\$0
	Sum of 7 Tubes: Between 72" & 84"	0	\$783,000	\$0
	Sum of 8 Tubes: Between 84" & 96"	1	\$805,000	\$805,000
	Sum of 9 Tubes: Between 96" & 108"	0	\$899,000	\$0
	Sum of 10 Tubes: Between 108" & 120"	0	\$918,000	\$0
Subtotal Texas:		16		\$3,376,000
Wisconsin	No Tubes - EGM	33	\$116,000	\$3,828,000
	Sum of 1 Tube: Less than 12"	78	\$395,000	\$30,810,000
	Sum of 2 Tubes: Between 12" & 24"	26	\$486,000	\$12,636,000
	Sum of 3 Tubes: Between 24" & 36"	11	\$507,000	\$5,577,000
	Sum of 4 Tubes: Between 36" & 48"	4	\$615,000	\$2,460,000
	Sum of 5 Tubes: Between 48" & 60"	4	\$664,000	\$2,656,000
	Sum of 6 Tubes: Between 60" & 72"	0	\$769,000	\$0
	Sum of 7 Tubes: Between 72" & 84"	0	\$874,000	\$0
	Sum of 8 Tubes: Between 84" & 96"	0	\$898,000	\$0
	Sum of 9 Tubes: Between 96" & 108"	0	\$1,003,000	\$0
	Sum of 10 Tubes: Between 108" & 120"	0	\$1,025,000	\$0
Subtotal Wisconsin:		156		\$57,967,000

**ANR Pipeline Company
 Transmission TNS Estimate**

Meter Station Cost of Removal by State and Station Type

Summary

All Meter Stations by State and Station Type

Type of Meter Station	No. of Meter Stations	Cost of Removal All Stations
No Tubes - EGM	272	\$30,210,000
Sum of 1 Tube: Less than 12"	247	\$96,749,000
Sum of 2 Tubes: Between 12" & 24"	83	\$39,717,000
Sum of 3 Tubes: Between 24" & 36"	43	\$21,800,000
Sum of 4 Tubes: Between 36" & 48"	16	\$9,694,000
Sum of 5 Tubes: Between 48" & 60"	13	\$8,779,000
Sum of 6 Tubes: Between 60" & 72"	2	\$1,498,000
Sum of 7 Tubes: Between 72" & 84"	0	\$0
Sum of 8 Tubes: Between 84" & 96"	1	\$805,000
Sum of 9 Tubes: Between 96" & 108"	1	\$990,000
Sum of 10 Tubes: Between 108" & 120"	1	\$1,165,000
Total:	679	\$211,407,000

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Illinois EGM - (17)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Illinois EGM - (17)
 # Facilities : 17
 State : Illinois
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/17/2015
 Meter Skid : 0
 # Meter Runs : 0
 Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	1,814
2.	ANR-PL MATERIALS		TB000	1,491
3.	CONSTRUCTION:		TC000	102,218
	a Mob		TC100	7,704
	b Meter Ancillary		TC200	94,515
	i) Remove Mechanical		TC210	15,407
	ii) Remove Site Work		TC220	46,221
	iii) Remove Electrical & Controls		TC230	26,962
	iiii) Remove Telecommunications		TC240	3,852
	v) Environmental	2.00 %	TC250	2,073
	vi) Remove Cathodic Protection		TC270	-
4.	ENGINEERING	2.25 %	TD000	2,332
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	3,109
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 112,964
9.	Contingency	10.00 %	TY000	11,296
10.	Sub-Total			124,260
11.	Overhead	4.00 %	TZ000	4,970
12.	Sub-Total			129,230
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			129,230
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 130,000

17 Station: \$2,210,000

Removal - Interconnect Facilities - Illinois EGM - (17)

Contract

\$15,407.00 Composite Crew Rate for Illinois

12 Line Size

		Days	Abandonment Crew
TC110	Mob	0.5	\$7,703.50
Remove Buildings			
TC230	Valtronic Building *	0.5	\$7,703.50
TC210	Meter Building	0	\$0.00
TC210	Flow Control Building	0	\$0.00
Sub Total		0.5	\$7,703.50
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$3,851.75
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$3,851.75
TC220	Meter Skid	0	\$0.00
TC220	Flow Control Skid	0	\$0.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0	\$0.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		0.5	\$7,703.50
Remove Site Improvements			
TC220	Fencing *	1	\$15,407.00
TC220	Yard Gravel *	1	\$15,407.00
Sub Total		2	\$30,814.00
Equipment			
TC210	Meter Runs	0	\$0.00
TC210	Flow Control Runs	0	\$0.00
TC210	Filter Separator	0	\$0.00
Sub Total		0	\$0.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$15,407.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0	\$0.00
TC210	Between Meter Skid > Flow Control, Including Headers	0	\$0.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		1	\$15,407.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0	\$0.00
TC210	At Flow Control Skid	0	\$0.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		0	\$0.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$3,851.75
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$3,851.75

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 0

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$3,851.75			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$3,851.75			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$3,851.75			8	3	220	3	1
TC270	Cathodic Protection *	0	\$0.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$3,851.75			10	4	260	3	1
	Sub Total	1.5	\$23,110.50							
TC220	Install Dirt and Topsoil	0.5	\$7,703.50							
TC110	Demob	0	\$0.00							
TC000	Total	<u>6.50</u>	<u>\$100,145.50</u>							
	Materials									
TB000	Dirt for Landfill	60 cy		x			total / cy	\$15.00	=	\$900.00
TB000	Topsoil	30 cy		x			total / cy	\$15.00	=	\$450.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$135.53</u>
										\$1,490.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Illinois - 1 Tube Meter Station (13)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Illinois - 1 Tube Meter Station (13)
 # Facilities : 13
 State : Illinois
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/17/2015
 Meter Skid : 1
 # Meter Runs : 1
 Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	6,328
2.	ANR-PL MATERIALS		TB000	1,986
3.	CONSTRUCTION:		TC000	363,012
	a Mob		TC100	25,542
	b Meter Ancillary		TC200	337,470
	i) Remove Mechanical		TC210	134,096
	ii) Remove Site Work		TC220	140,481
	iii) Remove Electrical & Controls		TC230	44,699
	iiii) Remove Telecommunications		TC240	6,386
	v) Environmental	1.50 %	TC250	5,424
	vi) Remove Cathodic Protection		TC270	6,386
4.	ENGINEERING	2.25 %	TD000	8,135
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	10,847
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 392,308
9.	Contingency	10.00 %	TY000	39,231
10.	Sub-Total			431,538
11.	Overhead	4.00 %	TZ000	17,262
12.	Sub-Total			448,800
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			448,800
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 449,000

13 Station: \$5,837,000

Removal - Interconnect Facilities - Illinois - 1 Tube Meter Station (13)

Contract

\$25,542.00 Composite Crew Rate for Illinois

12 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$25,542.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$12,771.00
TC210	Meter Building	1	\$25,542.00
TC210	Flow Control Building	0.5	\$12,771.00
Sub Total		2	\$51,084.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$6,385.50
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$6,385.50
TC220	Meter Skid	1	\$25,542.00
TC220	Flow Control Skid	0.5	\$12,771.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0.5	\$12,771.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		2.5	\$63,855.00
Remove Site Improvements			
TC220	Fencing *	1	\$25,542.00
TC220	Yard Gravel *	1	\$25,542.00
Sub Total		2	\$51,084.00
Equipment			
TC210	Meter Runs	0.5	\$12,771.00
TC210	Flow Control Runs	0.25	\$6,385.50
TC210	Filter Separator	0	\$0.00
Sub Total		0.75	\$19,156.50
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$25,542.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$12,771.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$12,771.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2	\$51,084.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$12,771.00
TC210	At Flow Control Skid	0.5	\$12,771.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1	\$25,542.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$6,385.50
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$6,385.50

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 1

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$6,385.50			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$6,385.50			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$6,385.50			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$6,385.50			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$6,385.50			10	4	260	3	1
	Sub Total	1.75	\$44,698.50							
TC220	Install Dirt and Topsoil	1	\$25,542.00							
TC110	Demob	0	\$0.00							
TC000	Total	14.00	\$357,588.00							
	Materials									
TB000	Dirt for Landfill	80 cy		x			total / cy	\$15.00	=	\$1,200.00
TB000	Topsoil	40 cy		x			total / cy	\$15.00	=	\$600.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$180.53</u>
										\$1,985.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =				\$2,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Illinois - 2 Tube Meter Station (3)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Illinois - 2 Tube Meter Station (3)
 # Facilities : 3
 State : Illinois
 Hot Tap Size : 16
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/17/2015
 Meter Skid : 1
 # Meter Runs : 2
 Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	7,789
2.	ANR-PL MATERIALS		TB000	2,485
3.	CONSTRUCTION:		TC000	447,276
	a Mob		TC100	25,542
	b Meter Ancillary		TC200	421,734
	i) Remove Mechanical		TC210	191,565
	ii) Remove Site Work		TC220	166,023
	iii) Remove Electrical & Controls		TC230	44,699
	iiii) Remove Telecommunications		TC240	6,386
	v) Environmental	1.50 %	TC250	6,676
	vi) Remove Cathodic Protection		TC270	6,386
4.	ENGINEERING	2.25 %	TD000	10,014
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	13,353
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 482,917
9.	Contingency	10.00 %	TY000	48,292
10.	Sub-Total			531,209
11.	Overhead	4.00 %	TZ000	21,248
12.	Sub-Total			552,457
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			552,457
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 553,000

3 Station: \$1,659,000

Removal - Interconnect Facilities - Illinois - 2 Tube Meter Station (3)

Contract

\$25,542.00 Composite Crew Rate for Illinois

16 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$25,542.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$12,771.00
TC210	Meter Building	1	\$25,542.00
TC210	Flow Control Building	0.5	\$12,771.00
Sub Total		2	\$51,084.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$6,385.50
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$6,385.50
TC220	Meter Skid	1	\$25,542.00
TC220	Flow Control Skid	0.5	\$12,771.00
TC220	Filter Separator	1	\$25,542.00
TC220	Piping *	0.5	\$12,771.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		3.5	\$89,397.00
Remove Site Improvements			
TC220	Fencing *	1	\$25,542.00
TC220	Yard Gravel *	1	\$25,542.00
Sub Total		2	\$51,084.00
Equipment			
TC210	Meter Runs	1	\$25,542.00
TC210	Flow Control Runs	0.5	\$12,771.00
TC210	Filter Separator	0.5	\$12,771.00
Sub Total		2	\$51,084.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$25,542.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$12,771.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$12,771.00
TC210	Between Flow Control > Filter Separator	0.5	\$12,771.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$63,855.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$12,771.00
TC210	At Flow Control Skid	0.5	\$12,771.00
TC210	At Filter Separator	0.5	\$12,771.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$38,313.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$6,385.50
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$6,385.50

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 2

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$6,385.50			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$6,385.50			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$6,385.50			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$6,385.50			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$6,385.50			10	4	260	3	1
	Sub Total	1.75	\$44,698.50							
TC220	Install Dirt and Topsoil	1	\$25,542.00							
TC110	Demob	0	\$0.00							
TC000	Total	<u>17.25</u>	<u>\$440,599.50</u>							
	Materials									
TB000	Dirt for Landfill	100 cy		x			total / cy	\$15.00	=	\$1,500.00
TB000	Topsoil	50 cy		x			total / cy	\$15.00	=	\$750.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.7778 =	1.78	total / sf	\$5.27	=	\$9.37
TB000	Misc. Materials	1 ls			10 %				=	<u>\$225.94</u>
										\$2,485.31
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Illinois - 3 Tube Meter Station (6)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Illinois - 3 Tube Meter Station (6)
 # Facilities : 6
 State : Illinois
 Hot Tap Size : 30
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/17/2015
 Meter Skid : 1
 # Meter Runs : 3
 Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	8,133
2.	ANR-PL MATERIALS		TB000	3,006
3.	CONSTRUCTION:		TC000	466,727
	a Mob		TC100	25,542
	b Meter Ancillary		TC200	441,185
	i) Remove Mechanical		TC210	210,722
	ii) Remove Site Work		TC220	166,023
	iii) Remove Electrical & Controls		TC230	44,699
	iiii) Remove Telecommunications		TC240	6,386
	v) Environmental	1.50 %	TC250	6,971
	vi) Remove Cathodic Protection		TC270	6,386
4.	ENGINEERING	2.25 %	TD000	10,457
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	13,943
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 504,267
9.	Contingency	10.00 %	TY000	50,427
10.	Sub-Total			554,694
11.	Overhead	4.00 %	TZ000	22,188
12.	Sub-Total			576,881
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			576,881
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 577,000

6 Station: \$3,462,000

Removal - Interconnect Facilities - Illinois - 3 Tube Meter Station (6)

Contract

\$25,542.00 Composite Crew Rate for Illinois

30 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$25,542.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$12,771.00
TC210	Meter Building	1	\$25,542.00
TC210	Flow Control Building	0.5	\$12,771.00
Sub Total		2	\$51,084.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$6,385.50
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$6,385.50
TC220	Meter Skid	1	\$25,542.00
TC220	Flow Control Skid	0.5	\$12,771.00
TC220	Filter Separator	1	\$25,542.00
TC220	Piping *	0.5	\$12,771.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		3.5	\$89,397.00
Remove Site Improvements			
TC220	Fencing *	1	\$25,542.00
TC220	Yard Gravel *	1	\$25,542.00
Sub Total		2	\$51,084.00
Equipment			
TC210	Meter Runs	1.5	\$38,313.00
TC210	Flow Control Runs	0.75	\$19,156.50
TC210	Filter Separator	0.5	\$12,771.00
Sub Total		2.75	\$70,240.50
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$25,542.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$12,771.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$12,771.00
TC210	Between Flow Control > Filter Separator	0.5	\$12,771.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$63,855.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$12,771.00
TC210	At Flow Control Skid	0.5	\$12,771.00
TC210	At Filter Separator	0.5	\$12,771.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$38,313.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$6,385.50
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$6,385.50

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 3

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$6,385.50			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$6,385.50			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$6,385.50			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$6,385.50			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$6,385.50			10	4	260	3	1
	Sub Total	1.75	\$44,698.50							
TC220	Install Dirt and Topsoil	1	\$25,542.00							
TC110	Demob	0	\$0.00							
TC000	Total	18.00	\$459,756.00							
	Materials									
TB000	Dirt for Landfill	120 cy		x			total / cy	\$15.00	=	\$1,800.00
TB000	Topsoil	60 cy		x			total / cy	\$15.00	=	\$900.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	6.2500 =	6.25	total / sf	\$5.27	=	\$32.94
TB000	Misc. Materials	1 ls			10 %				=	<u>\$273.29</u>
										\$3,006.23
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Illinois - 4 Tube Meter Station (2)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Illinois - 4 Tube Meter Station (2)
 # Facilities : 2
 State : Illinois
 Hot Tap Size : 42
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/17/2015
 Meter Skid : 2
 # Meter Runs : 4
 Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	9,854
2.	ANR-PL MATERIALS		TB000	3,536
3.	CONSTRUCTION:		TC000	563,985
	a Mob		TC100	25,542
	b Meter Ancillary		TC200	538,443
	i) Remove Mechanical		TC210	268,191
	ii) Remove Site Work		TC220	204,336
	iii) Remove Electrical & Controls		TC230	44,699
	iiii) Remove Telecommunications		TC240	6,386
	v) Environmental	1.50 %	TC250	8,446
	vi) Remove Cathodic Protection		TC270	6,386
4.	ENGINEERING	2.25 %	TD000	12,669
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	16,892
6.	LAND - DAMAGES		TF000	4,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 610,936
9.	Contingency	10.00 %	TY000	61,094
10.	Sub-Total			672,029
11.	Overhead	4.00 %	TZ000	26,881
12.	Sub-Total			698,911
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			698,911
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 699,000

2 Station: \$1,398,000

Removal - Interconnect Facilities - Illinois - 4 Tube Meter Station (2)

Contract

\$25,542.00 Composite Crew Rate for Illinois

42 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$25,542.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$12,771.00
TC210	Meter Building	2	\$51,084.00
TC210	Flow Control Building	1	\$25,542.00
Sub Total		3.5	\$89,397.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$6,385.50
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$6,385.50
TC220	Meter Skid	2	\$51,084.00
TC220	Flow Control Skid	1	\$25,542.00
TC220	Filter Separator	1	\$25,542.00
TC220	Piping *	0.5	\$12,771.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		5	\$127,710.00
Remove Site Improvements			
TC220	Fencing *	1	\$25,542.00
TC220	Yard Gravel *	1	\$25,542.00
Sub Total		2	\$51,084.00
Equipment			
TC210	Meter Runs	2	\$51,084.00
TC210	Flow Control Runs	1	\$25,542.00
TC210	Filter Separator	0.5	\$12,771.00
Sub Total		3.5	\$89,397.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$25,542.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$12,771.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$12,771.00
TC210	Between Flow Control > Filter Separator	0.5	\$12,771.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$63,855.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$12,771.00
TC210	At Flow Control Skid	0.5	\$12,771.00
TC210	At Filter Separator	0.5	\$12,771.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$38,313.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$6,385.50
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$6,385.50

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 4

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$6,385.50			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$6,385.50			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$6,385.50			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$6,385.50			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$6,385.50			10	4	260	3	1
	Sub Total	1.75	\$44,698.50							
TC220	Install Dirt and Topsoil	1	\$25,542.00							
TC110	Demob	0	\$0.00							
TC000	Total	<u>21.75</u>	<u>\$555,538.50</u>							
	Materials									
TB000	Dirt for Landfill	140 cy		x			total / cy	\$15.00	=	\$2,100.00
TB000	Topsoil	70 cy		x			total / cy	\$15.00	=	\$1,050.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	12.2500 =	12.25	total / sf	\$5.27	=	\$64.56
TB000	Misc. Materials	1 ls			10 %				=	<u>\$321.46</u>
										\$3,536.01
TF140	Land Damages	2		# of Digs	x	\$2,000.00 =				\$4,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Illinois - 5 Tube Meter Station (2)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Illinois - 5 Tube Meter Station (2)
 # Facilities : 2
 State : Illinois
 Hot Tap Size : 30
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/17/2015
 Meter Skid : 2
 # Meter Runs : 5
 Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	10,645
2.	ANR-PL MATERIALS		TB000	4,032
3.	CONSTRUCTION:		TC000	609,361
	a Mob		TC100	25,542
	b Meter Ancillary		TC200	583,819
	i) Remove Mechanical		TC210	312,890
	ii) Remove Site Work		TC220	204,336
	iii) Remove Electrical & Controls		TC230	44,699
	iiii) Remove Telecommunications		TC240	6,386
	v) Environmental	1.50 %	TC250	9,124
	vi) Remove Cathodic Protection		TC270	6,386
4.	ENGINEERING	2.25 %	TD000	13,686
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	18,248
6.	LAND - DAMAGES		TF000	4,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 659,972
9.	Contingency	10.00 %	TY000	65,997
10.	Sub-Total			725,970
11.	Overhead	4.00 %	TZ000	29,039
12.	Sub-Total			755,008
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			755,008
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 756,000

2 Station: \$1,512,000

Removal - Interconnect Facilities - Illinois - 5 Tube Meter Station (2)

Contract

\$25,542.00 Composite Crew Rate for Illinois

30 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$25,542.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$12,771.00
TC210	Meter Building	2	\$51,084.00
TC210	Flow Control Building	1	\$25,542.00
Sub Total		3.5	\$89,397.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$6,385.50
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$6,385.50
TC220	Meter Skid	2	\$51,084.00
TC220	Flow Control Skid	1	\$25,542.00
TC220	Filter Separator	1	\$25,542.00
TC220	Piping *	0.5	\$12,771.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		5	\$127,710.00
Remove Site Improvements			
TC220	Fencing *	1	\$25,542.00
TC220	Yard Gravel *	1	\$25,542.00
Sub Total		2	\$51,084.00
Equipment			
TC210	Meter Runs	2.5	\$63,855.00
TC210	Flow Control Runs	1.25	\$31,927.50
TC210	Filter Separator	0.5	\$12,771.00
Sub Total		4.25	\$108,553.50
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	2	\$51,084.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$12,771.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$12,771.00
TC210	Between Flow Control > Filter Separator	0.5	\$12,771.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		3.5	\$89,397.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$12,771.00
TC210	At Flow Control Skid	0.5	\$12,771.00
TC210	At Filter Separator	0.5	\$12,771.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$38,313.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$6,385.50
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$6,385.50

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 5

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$6,385.50			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$6,385.50			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$6,385.50			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$6,385.50			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$6,385.50			10	4	260	3	1
	Sub Total	1.75	\$44,698.50							
TC220	Install Dirt and Topsoil	1	\$25,542.00							
TC110	Demob	0	\$0.00							
TC000	Total	23.50	\$600,237.00							
	Materials									
TB000	Dirt for Landfill	160 cy		x			total / cy	\$15.00	=	\$2,400.00
TB000	Topsoil	80 cy		x			total / cy	\$15.00	=	\$1,200.00
TB000	Steel Plate to cap Hot Tap	2 pieces		x	6.2500 =	12.50	total / sf	\$5.27	=	\$65.88
TB000	Misc. Materials	1 ls			10 %				=	<u>\$366.59</u>
										\$4,032.46
TF140	Land Damages	2		# of Digs	x	\$2,000.00 =				\$4,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Illinois - 10 Tube Meter Station (1)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Illinois - 10 Tube Meter Station (1)
 # Facilities : 1
 State : Illinois
 Hot Tap Size : 30
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/17/2015
 Meter Skid : 3
 # Meter Runs : 10
 Filter Separator : 3

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	16,423
2.	ANR-PL MATERIALS		TB000	6,580
3.	CONSTRUCTION:		TC000	939,975
	a Mob		TC100	25,542
	b Meter Ancillary		TC200	914,433
	i) Remove Mechanical		TC210	549,153
	ii) Remove Site Work		TC220	293,733
	iii) Remove Electrical & Controls		TC230	44,699
	iiii) Remove Telecommunications		TC240	6,386
	v) Environmental	1.50 %	TC250	14,077
	vi) Remove Cathodic Protection		TC270	6,386
4.	ENGINEERING	2.25 %	TD000	21,116
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	28,154
6.	LAND - DAMAGES		TF000	6,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 1,018,248
9.	Contingency	10.00 %	TY000	101,825
10.	Sub-Total			1,120,073
11.	Overhead	4.00 %	TZ000	44,803
12.	Sub-Total			1,164,876
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			1,164,876
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 1,165,000

1 Station: \$1,165,000

Removal - Interconnect Facilities - Illinois - 10 Tube Meter Station (1)

Contract

\$25,542.00 Composite Crew Rate for Illinois

30 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$25,542.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$12,771.00
TC210	Meter Building	3	\$76,626.00
TC210	Flow Control Building	1.5	\$38,313.00
Sub Total		5	\$127,710.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$6,385.50
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$6,385.50
TC220	Meter Skid	3	\$76,626.00
TC220	Flow Control Skid	1.5	\$38,313.00
TC220	Filter Separator	3	\$76,626.00
TC220	Piping *	0.5	\$12,771.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		8.5	\$217,107.00
Remove Site Improvements			
TC220	Fencing *	1	\$25,542.00
TC220	Yard Gravel *	1	\$25,542.00
Sub Total		2	\$51,084.00
Equipment			
TC210	Meter Runs	5	\$127,710.00
TC210	Flow Control Runs	2.5	\$63,855.00
TC210	Filter Separator	1.5	\$38,313.00
Sub Total		9	\$229,878.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	4	\$102,168.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$12,771.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$12,771.00
TC210	Between Flow Control > Filter Separator	0.5	\$12,771.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		5.5	\$140,481.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$12,771.00
TC210	At Flow Control Skid	0.5	\$12,771.00
TC210	At Filter Separator	1.5	\$38,313.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		2.5	\$63,855.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$6,385.50
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$6,385.50

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 10

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$6,385.50			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$6,385.50			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$6,385.50			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$6,385.50			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$6,385.50			10	4	260	3	1
	Sub Total	1.75	\$44,698.50							
TC220	Install Dirt and Topsoil	1	\$25,542.00							
TC110	Demob	0	\$0.00							
TC000	Total	36.25	\$925,897.50							
	Materials									
TB000	Dirt for Landfill	260 cy		x			total / cy	\$15.00	=	\$3,900.00
TB000	Topsoil	130 cy		x			total / cy	\$15.00	=	\$1,950.00
TB000	Steel Plate to cap Hot Tap	4 pieces		x	6.2500 =	25.00	total / sf	\$5.27	=	\$131.75
TB000	Misc. Materials	1 ls			10 %				=	<u>\$598.18</u>
										\$6,579.93
TF140	Land Damages	3		# of Digs	x	\$2,000.00 =				\$6,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Indiana EGM - (10)

Project : IFRS - ANR Interconnect Retirement
Meter Facility : Indiana EGM - (10)
Facilities : 10
State : Indiana
Hot Tap Size : 12
EGM / GC : 1

Requested by : null
Estimator : null
Date : 11/17/2015
Meter Skid : 0
Meter Runs : 0
Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	1,724
2.	ANR-PL MATERIALS		TB000	1,491
3.	CONSTRUCTION:		TC000	97,007
	a Mob		TC100	7,311
	b Meter Ancillary		TC200	89,697
	i) Remove Mechanical		TC210	14,621
	ii) Remove Site Work		TC220	43,863
	iii) Remove Electrical & Controls		TC230	25,587
	iiii) Remove Telecommunications		TC240	3,655
	v) Environmental	2.00 %	TC250	1,971
	vi) Remove Cathodic Protection		TC270	-
4.	ENGINEERING	2.25 %	TD000	2,217
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	2,956
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 107,395
9.	Contingency	10.00 %	TY000	10,739
10.	Sub-Total			118,134
11.	Overhead	4.00 %	TZ000	4,725
12.	Sub-Total			122,860
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			122,860
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 123,000

10 Station: \$1,230,000

Removal - Interconnect Facilities - Indiana EGM - (10)

Contract

\$14,621.00 Composite Crew Rate for Indiana

12 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	0.5	\$7,310.50
Remove Buildings			
TC230	Valtronic Building *	0.5	\$7,310.50
TC210	Meter Building	0	\$0.00
TC210	Flow Control Building	0	\$0.00
Sub Total		0.5	\$7,310.50
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$3,655.25
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$3,655.25
TC220	Meter Skid	0	\$0.00
TC220	Flow Control Skid	0	\$0.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0	\$0.00
TC220	Concrete Platform (Near Shore Application)	0	\$0.00
Sub Total		0.5	\$7,310.50
Remove Site Improvements			
TC220	Fencing *	1	\$14,621.00
TC220	Yard Gravel *	1	\$14,621.00
Sub Total		2	\$29,242.00
Equipment			
TC210	Meter Runs	0	\$0.00
TC210	Flow Control Runs	0	\$0.00
TC210	Filter Separator	0	\$0.00
Sub Total		0	\$0.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$14,621.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0	\$0.00
TC210	Between Meter Skid > Flow Control, Including Headers	0	\$0.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections	0	\$0.00
Sub Total		1	\$14,621.00
Remove Above Ground Piping			
TC210	Rising Piping	0	\$0.00
TC210	At Meter Skid	0	\$0.00
TC210	At Flow Control Skid	0	\$0.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold	0	\$0.00
TC210	At Customer Connection	0	\$0.00
Sub Total		0	\$0.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$3,655.25
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$3,655.25

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 0

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob
0	1	60	1	0.5
1	1	80	1	1
2	1	100	1	1
3	1	120	1	1
4	1	140	2	1
5	2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$3,655.25			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$3,655.25			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$3,655.25			8	3	220	3	1
TC270	Cathodic Protection *	0	\$0.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$3,655.25			10	4	260	3	1
	Sub Total	1.5	\$21,931.50							
TC220	Install Dirt and Topsoil	0.5	\$7,310.50							
TC110	Demob	0	\$0.00							
TC000	Total	6.50	\$95,036.50							
	Materials									
TB000	Dirt for Landfill	60 cy		x			total / cy	\$15.00	=	\$900.00
TB000	Topsoil	30 cy		x			total / cy	\$15.00	=	\$450.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$135.53</u>
										\$1,490.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Indiana - 1 Tube Meter Station (23)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Indiana - 1 Tube Meter Station (23)
 # Facilities : 23
 State : Indiana
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/17/2015
 Meter Skid : 1
 # Meter Runs : 1
 Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	5,907
2.	ANR-PL MATERIALS		TB000	1,986
3.	CONSTRUCTION:		TC000	338,641
	a Mob		TC100	23,827
	b Meter Ancillary		TC200	314,814
	i) Remove Mechanical		TC210	125,092
	ii) Remove Site Work		TC220	131,049
	iii) Remove Electrical & Controls		TC230	41,697
	iiii) Remove Telecommunications		TC240	5,957
	v) Environmental	1.50 %	TC250	5,063
	vi) Remove Cathodic Protection		TC270	5,957
4.	ENGINEERING	2.25 %	TD000	7,595
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	10,127
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 366,257
9.	Contingency	10.00 %	TY000	36,626
10.	Sub-Total			402,882
11.	Overhead	4.00 %	TZ000	16,115
12.	Sub-Total			418,998
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			418,998
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 419,000

23 Station: \$9,637,000

Removal - Interconnect Facilities - Indiana - 1 Tube Meter Station (23)

Contract

\$23,827.00 Composite Crew Rate for Indiana

12 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	1	\$23,827.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$11,913.50
TC210	Meter Building	1	\$23,827.00
TC210	Flow Control Building	0.5	\$11,913.50
Sub Total		2	\$47,654.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,956.75
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,956.75
TC220	Meter Skid	1	\$23,827.00
TC220	Flow Control Skid	0.5	\$11,913.50
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0.5	\$11,913.50
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		2.5	\$59,567.50
Remove Site Improvements			
TC220	Fencing *	1	\$23,827.00
TC220	Yard Gravel *	1	\$23,827.00
Sub Total		2	\$47,654.00
Equipment			
TC210	Meter Runs	0.5	\$11,913.50
TC210	Flow Control Runs	0.25	\$5,956.75
TC210	Filter Separator	0	\$0.00
Sub Total		0.75	\$17,870.25
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$23,827.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$11,913.50
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$11,913.50
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2	\$47,654.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$11,913.50
TC210	At Flow Control Skid	0.5	\$11,913.50
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1	\$23,827.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,956.75
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,956.75

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 1

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,956.75			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,956.75			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,956.75			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,956.75			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,956.75			10	4	260	3	1
	Sub Total	1.75	\$41,697.25							
TC220	Install Dirt and Topsoil	1	\$23,827.00							
TC110	Demob	0	\$0.00							
TC000	Total	14.00	\$333,578.00							
	Materials									
TB000	Dirt for Landfill	80 cy		x			total / cy	\$15.00	=	\$1,200.00
TB000	Topsoil	40 cy		x			total / cy	\$15.00	=	\$600.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$180.53</u>
										\$1,985.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =				\$2,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Indiana - 2 Tube Meter Station (9)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Indiana - 2 Tube Meter Station (9)
 # Facilities : 9
 State : Indiana
 Hot Tap Size : 16
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/17/2015
 Meter Skid : 1
 # Meter Runs : 2
 Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	7,271
2.	ANR-PL MATERIALS		TB000	2,485
3.	CONSTRUCTION:		TC000	417,248
	a Mob		TC100	23,827
	b Meter Ancillary		TC200	393,421
	i) Remove Mechanical		TC210	178,703
	ii) Remove Site Work		TC220	154,876
	iii) Remove Electrical & Controls		TC230	41,697
	iiii) Remove Telecommunications		TC240	5,957
	v) Environmental	1.50 %	TC250	6,233
	vi) Remove Cathodic Protection		TC270	5,957
4.	ENGINEERING	2.25 %	TD000	9,349
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	12,465
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 450,819
9.	Contingency	10.00 %	TY000	45,082
10.	Sub-Total			495,901
11.	Overhead	4.00 %	TZ000	19,836
12.	Sub-Total			515,737
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			515,737
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 516,000

9 Station: \$4,644,000

Removal - Interconnect Facilities - Indiana - 2 Tube Meter Station (9)

Contract

\$23,827.00 Composite Crew Rate for Indiana

16 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$23,827.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$11,913.50
TC210	Meter Building	1	\$23,827.00
TC210	Flow Control Building	0.5	\$11,913.50
Sub Total		2	\$47,654.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,956.75
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,956.75
TC220	Meter Skid	1	\$23,827.00
TC220	Flow Control Skid	0.5	\$11,913.50
TC220	Filter Separator	1	\$23,827.00
TC220	Piping *	0.5	\$11,913.50
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		3.5	\$83,394.50
Remove Site Improvements			
TC220	Fencing *	1	\$23,827.00
TC220	Yard Gravel *	1	\$23,827.00
Sub Total		2	\$47,654.00
Equipment			
TC210	Meter Runs	1	\$23,827.00
TC210	Flow Control Runs	0.5	\$11,913.50
TC210	Filter Separator	0.5	\$11,913.50
Sub Total		2	\$47,654.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$23,827.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$11,913.50
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$11,913.50
TC210	Between Flow Control > Filter Separator	0.5	\$11,913.50
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$59,567.50
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$11,913.50
TC210	At Flow Control Skid	0.5	\$11,913.50
TC210	At Filter Separator	0.5	\$11,913.50
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$35,740.50
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,956.75
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,956.75

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 2

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,956.75			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,956.75			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,956.75			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,956.75			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,956.75			10	4	260	3	1
	Sub Total	1.75	\$41,697.25							
TC220	Install Dirt and Topsoil	1	\$23,827.00							
TC110	Demob	0	\$0.00							
TC000	Total	<u>17.25</u>	<u>\$411,015.75</u>							
	Materials									
TB000	Dirt for Landfill	100 cy		x			total / cy	\$15.00	=	\$1,500.00
TB000	Topsoil	50 cy		x			total / cy	\$15.00	=	\$750.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.7778 =	1.78	total / sf	\$5.27	=	\$9.37
TB000	Misc. Materials	1 ls			10 %				=	<u>\$225.94</u>
										\$2,485.31
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Indiana - 3 Tube Meter Station (3)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Indiana - 3 Tube Meter Station (3)
 # Facilities : 3
 State : Indiana
 Hot Tap Size : 30
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/17/2015
 Meter Skid : 1
 # Meter Runs : 3
 Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	7,593
2.	ANR-PL MATERIALS		TB000	3,006
3.	CONSTRUCTION:		TC000	435,394
	a Mob		TC100	23,827
	b Meter Ancillary		TC200	411,567
	i) Remove Mechanical		TC210	196,573
	ii) Remove Site Work		TC220	154,876
	iii) Remove Electrical & Controls		TC230	41,697
	iiii) Remove Telecommunications		TC240	5,957
	v) Environmental	1.50 %	TC250	6,508
	vi) Remove Cathodic Protection		TC270	5,957
4.	ENGINEERING	2.25 %	TD000	9,763
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	13,017
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 470,773
9.	Contingency	10.00 %	TY000	47,077
10.	Sub-Total			517,850
11.	Overhead	4.00 %	TZ000	20,714
12.	Sub-Total			538,564
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			538,564
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 539,000

3 Station: \$1,617,000

Removal - Interconnect Facilities - Indiana - 3 Tube Meter Station (3)

Contract

\$23,827.00 Composite Crew Rate for Indiana

30 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$23,827.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$11,913.50
TC210	Meter Building	1	\$23,827.00
TC210	Flow Control Building	0.5	\$11,913.50
Sub Total		2	\$47,654.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,956.75
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,956.75
TC220	Meter Skid	1	\$23,827.00
TC220	Flow Control Skid	0.5	\$11,913.50
TC220	Filter Separator	1	\$23,827.00
TC220	Piping *	0.5	\$11,913.50
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		3.5	\$83,394.50
Remove Site Improvements			
TC220	Fencing *	1	\$23,827.00
TC220	Yard Gravel *	1	\$23,827.00
Sub Total		2	\$47,654.00
Equipment			
TC210	Meter Runs	1.5	\$35,740.50
TC210	Flow Control Runs	0.75	\$17,870.25
TC210	Filter Separator	0.5	\$11,913.50
Sub Total		2.75	\$65,524.25
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$23,827.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$11,913.50
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$11,913.50
TC210	Between Flow Control > Filter Separator	0.5	\$11,913.50
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$59,567.50
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$11,913.50
TC210	At Flow Control Skid	0.5	\$11,913.50
TC210	At Filter Separator	0.5	\$11,913.50
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$35,740.50
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,956.75
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,956.75

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: **0.0%**

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 3

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,956.75			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,956.75			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,956.75			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,956.75			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,956.75			10	4	260	3	1
	Sub Total	1.75	\$41,697.25							
TC220	Install Dirt and Topsoil	1	\$23,827.00							
TC110	Demob	0	\$0.00							
TC000	Total	18.00	\$428,886.00							
	Materials									
TB000	Dirt for Landfill	120 cy		x			total / cy	\$15.00	=	\$1,800.00
TB000	Topsoil	60 cy		x			total / cy	\$15.00	=	\$900.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	6.2500 =	6.25	total / sf	\$5.27	=	\$32.94
TB000	Misc. Materials	1 ls			10 %				=	\$273.29
										\$3,006.23
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =				\$2,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Indiana - 4 Tube Meter Station (1)

Project : IFRS - ANR Interconnect Retirement
Meter Facility : Indiana - 4 Tube Meter Station (1)
Facilities : 1
State : Indiana
Hot Tap Size : 42
EGM / GC : 1

Requested by : null
Estimator : null
Date : 11/17/2015
Meter Skid : 2
Meter Runs : 4
Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	9,201
2.	ANR-PL MATERIALS		TB000	3,536
3.	CONSTRUCTION:		TC000	526,124
	a Mob		TC100	23,827
	b Meter Ancillary		TC200	502,297
	i) Remove Mechanical		TC210	250,184
	ii) Remove Site Work		TC220	190,616
	iii) Remove Electrical & Controls		TC230	41,697
	iiii) Remove Telecommunications		TC240	5,957
	v) Environmental	1.50 %	TC250	7,887
	vi) Remove Cathodic Protection		TC270	5,957
4.	ENGINEERING	2.25 %	TD000	11,830
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	15,773
6.	LAND - DAMAGES		TF000	4,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 570,464
9.	Contingency	10.00 %	TY000	57,046
10.	Sub-Total			627,510
11.	Overhead	4.00 %	TZ000	25,100
12.	Sub-Total			652,611
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			652,611
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 653,000

1 Station: \$653,000

Removal - Interconnect Facilities - Indiana - 4 Tube Meter Station (1)

Contract

\$23,827.00 Composite Crew Rate for Indiana

42 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$23,827.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$11,913.50
TC210	Meter Building	2	\$47,654.00
TC210	Flow Control Building	1	\$23,827.00
Sub Total		3.5	\$83,394.50
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,956.75
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,956.75
TC220	Meter Skid	2	\$47,654.00
TC220	Flow Control Skid	1	\$23,827.00
TC220	Filter Separator	1	\$23,827.00
TC220	Piping *	0.5	\$11,913.50
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		5	\$119,135.00
Remove Site Improvements			
TC220	Fencing *	1	\$23,827.00
TC220	Yard Gravel *	1	\$23,827.00
Sub Total		2	\$47,654.00
Equipment			
TC210	Meter Runs	2	\$47,654.00
TC210	Flow Control Runs	1	\$23,827.00
TC210	Filter Separator	0.5	\$11,913.50
Sub Total		3.5	\$83,394.50
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$23,827.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$11,913.50
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$11,913.50
TC210	Between Flow Control > Filter Separator	0.5	\$11,913.50
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$59,567.50
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$11,913.50
TC210	At Flow Control Skid	0.5	\$11,913.50
TC210	At Filter Separator	0.5	\$11,913.50
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$35,740.50
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,956.75
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,956.75

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 4

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,956.75			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,956.75			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,956.75			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,956.75			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,956.75			10	4	260	3	1
	Sub Total	1.75	\$41,697.25							
TC220	Install Dirt and Topsoil	1	\$23,827.00							
TC110	Demob	0	\$0.00							
TC000	Total	<u>21.75</u>	<u>\$518,237.25</u>							
	Materials									
TB000	Dirt for Landfill	140 cy		x			total / cy	\$15.00	=	\$2,100.00
TB000	Topsoil	70 cy		x			total / cy	\$15.00	=	\$1,050.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	12.2500 =	12.25	total / sf	\$5.27	=	\$64.56
TB000	Misc. Materials	1 ls			10 %				=	<u>\$321.46</u>
										\$3,536.01
TF140	Land Damages	2		# of Digs	x	\$2,000.00 =				\$4,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Indiana - 5 Tube Meter Station (1)

Project : IFRS - ANR Interconnect Retirement
Meter Facility : Indiana - 5 Tube Meter Station (1)
Facilities : 1
State : Indiana
Hot Tap Size : 30
EGM / GC : 1

Requested by : null
Estimator : null
Date : 11/17/2015
Meter Skid : 2
Meter Runs : 5
Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	9,939
2.	ANR-PL MATERIALS		TB000	4,032
3.	CONSTRUCTION:		TC000	568,454
	a Mob		TC100	23,827
	b Meter Ancillary		TC200	544,627
	i) Remove Mechanical		TC210	291,881
	ii) Remove Site Work		TC220	190,616
	iii) Remove Electrical & Controls		TC230	41,697
	iiii) Remove Telecommunications		TC240	5,957
	v) Environmental	1.50 %	TC250	8,520
	vi) Remove Cathodic Protection		TC270	5,957
4.	ENGINEERING	2.25 %	TD000	12,779
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	17,039
6.	LAND - DAMAGES		TF000	4,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 616,244
9.	Contingency	10.00 %	TY000	61,624
10.	Sub-Total			677,869
11.	Overhead	4.00 %	TZ000	27,115
12.	Sub-Total			704,983
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			704,983
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 705,000

1 Station: \$705,000

Removal - Interconnect Facilities - Indiana - 5 Tube Meter Station (1)

Contract

\$23,827.00 Composite Crew Rate for Indiana

30 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	1	\$23,827.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$11,913.50
TC210	Meter Building	2	\$47,654.00
TC210	Flow Control Building	1	\$23,827.00
Sub Total		3.5	\$83,394.50
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,956.75
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,956.75
TC220	Meter Skid	2	\$47,654.00
TC220	Flow Control Skid	1	\$23,827.00
TC220	Filter Separator	1	\$23,827.00
TC220	Piping *	0.5	\$11,913.50
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		5	\$119,135.00
Remove Site Improvements			
TC220	Fencing *	1	\$23,827.00
TC220	Yard Gravel *	1	\$23,827.00
Sub Total		2	\$47,654.00
Equipment			
TC210	Meter Runs	2.5	\$59,567.50
TC210	Flow Control Runs	1.25	\$29,783.75
TC210	Filter Separator	0.5	\$11,913.50
Sub Total		4.25	\$101,264.75
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	2	\$47,654.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$11,913.50
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$11,913.50
TC210	Between Flow Control > Filter Separator	0.5	\$11,913.50
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		3.5	\$83,394.50
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$11,913.50
TC210	At Flow Control Skid	0.5	\$11,913.50
TC210	At Filter Separator	0.5	\$11,913.50
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$35,740.50
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,956.75
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,956.75

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 5

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob
0		1	60	1
1		1	80	1
2		1	100	1
3		1	120	1
4		1	140	2
5		2	160	2

TC230	Conduit, Above and Below Grade *	0.25	\$5,956.75			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,956.75			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,956.75			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,956.75			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,956.75			10	4	260	3	1
	Sub Total	1.75	\$41,697.25							
TC220	Install Dirt and Topsoil	1	\$23,827.00							
TC110	Demob	0	\$0.00							
TC000	Total	23.50	\$559,934.50							
	Materials									
TB000	Dirt for Landfill	160 cy		x			total / cy	\$15.00	=	\$2,400.00
TB000	Topsoil	80 cy		x			total / cy	\$15.00	=	\$1,200.00
TB000	Steel Plate to cap Hot Tap	2 pieces		x	6.2500 =	12.50	total / sf	\$5.27	=	\$65.88
TB000	Misc. Materials	1 ls			10 %				=	<u>\$366.59</u>
										\$4,032.46
TF140	Land Damages	2		# of Digs	x	\$2,000.00 =				\$4,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Iowa EGM - (9)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Iowa EGM - (9)
 # Facilities : 9
 State : Iowa
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/17/2015
 Meter Skid : 0
 # Meter Runs : 0
 Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	1,545
2.	ANR-PL MATERIALS		TB000	1,491
3.	CONSTRUCTION:		TC000	86,532
	a Mob		TC100	6,521
	b Meter Ancillary		TC200	80,011
	i) Remove Mechanical		TC210	13,041
	ii) Remove Site Work		TC220	39,123
	iii) Remove Electrical & Controls		TC230	22,822
	iiii) Remove Telecommunications		TC240	3,260
	v) Environmental	2.00 %	TC250	1,765
	vi) Remove Cathodic Protection		TC270	-
4.	ENGINEERING	2.25 %	TD000	1,986
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	2,648
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 96,200
9.	Contingency	10.00 %	TY000	9,620
10.	Sub-Total			105,820
11.	Overhead	4.00 %	TZ000	4,233
12.	Sub-Total			110,053
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			110,053
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 111,000

9 Station: \$999,000

Removal - Interconnect Facilities - Iowa EGM - (9)

Contract

\$13,041.00 Composite Crew Rate for Iowa

12 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	0.5	\$6,520.50
Remove Buildings			
TC230	Valtronic Building *	0.5	\$6,520.50
TC210	Meter Building	0	\$0.00
TC210	Flow Control Building	0	\$0.00
Sub Total		0.5	\$6,520.50
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$3,260.25
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$3,260.25
TC220	Meter Skid	0	\$0.00
TC220	Flow Control Skid	0	\$0.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0	\$0.00
TC220	Concrete Platform (Near Shore Application)	0	\$0.00
Sub Total		0.5	\$6,520.50
Remove Site Improvements			
TC220	Fencing *	1	\$13,041.00
TC220	Yard Gravel *	1	\$13,041.00
Sub Total		2	\$26,082.00
Equipment			
TC210	Meter Runs	0	\$0.00
TC210	Flow Control Runs	0	\$0.00
TC210	Filter Separator	0	\$0.00
Sub Total		0	\$0.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$13,041.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0	\$0.00
TC210	Between Meter Skid > Flow Control, Including Headers	0	\$0.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections	0	\$0.00
Sub Total		1	\$13,041.00
Remove Above Ground Piping			
TC210	Rising Piping	0	\$0.00
TC210	At Meter Skid	0	\$0.00
TC210	At Flow Control Skid	0	\$0.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold	0	\$0.00
TC210	At Customer Connection	0	\$0.00
Sub Total		0	\$0.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$3,260.25
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$3,260.25

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 0

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob
0	1	60	1	0.5
1	1	80	1	1
2	1	100	1	1
3	1	120	1	1
4	1	140	2	1
5	2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$3,260.25			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$3,260.25			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$3,260.25			8	3	220	3	1
TC270	Cathodic Protection *	0	\$0.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$3,260.25			10	4	260	3	1
	Sub Total	1.5	\$19,561.50							
TC220	Install Dirt and Topsoil	0.5	\$6,520.50							
TC110	Demob	0	\$0.00							
TC000	Total	6.50	\$84,766.50							
	Materials									
TB000	Dirt for Landfill	60 cy		x			total / cy	\$15.00	=	\$900.00
TB000	Topsoil	30 cy		x			total / cy	\$15.00	=	\$450.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$135.53</u>
										\$1,490.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Iowa - 1 Tube Meter Station (31)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Iowa - 1 Tube Meter Station (31)
 # Facilities : 31
 State : Iowa
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 1
 # Meter Runs : 1
 Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	5,276
2.	ANR-PL MATERIALS		TB000	1,986
3.	CONSTRUCTION:		TC000	302,036
	a Mob		TC100	21,251
	b Meter Ancillary		TC200	280,785
	i) Remove Mechanical		TC210	111,568
	ii) Remove Site Work		TC220	116,881
	iii) Remove Electrical & Controls		TC230	37,189
	iiii) Remove Telecommunications		TC240	5,313
	v) Environmental	1.50 %	TC250	4,522
	vi) Remove Cathodic Protection		TC270	5,313
4.	ENGINEERING	2.25 %	TD000	6,784
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	9,045
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 327,127
9.	Contingency	10.00 %	TY000	32,713
10.	Sub-Total			359,840
11.	Overhead	4.00 %	TZ000	14,394
12.	Sub-Total			374,234
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			374,234
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 375,000

31 Station: \$11,625,000

Removal - Interconnect Facilities - Iowa - 1 Tube Meter Station (31)

Contract

\$21,251.00 Composite Crew Rate for Iowa

12 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	1	\$21,251.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$10,625.50
TC210	Meter Building	1	\$21,251.00
TC210	Flow Control Building	0.5	\$10,625.50
Sub Total		2	\$42,502.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,312.75
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,312.75
TC220	Meter Skid	1	\$21,251.00
TC220	Flow Control Skid	0.5	\$10,625.50
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0.5	\$10,625.50
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		2.5	\$53,127.50
Remove Site Improvements			
TC220	Fencing *	1	\$21,251.00
TC220	Yard Gravel *	1	\$21,251.00
Sub Total		2	\$42,502.00
Equipment			
TC210	Meter Runs	0.5	\$10,625.50
TC210	Flow Control Runs	0.25	\$5,312.75
TC210	Filter Separator	0	\$0.00
Sub Total		0.75	\$15,938.25
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$21,251.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$10,625.50
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$10,625.50
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2	\$42,502.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$10,625.50
TC210	At Flow Control Skid	0.5	\$10,625.50
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1	\$21,251.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,312.75
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,312.75

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 1

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob
0		1	60	1
1		1	80	1
2		1	100	1
3		1	120	1
4		1	140	2
5		2	160	2

TC230	Conduit, Above and Below Grade *	0.25	\$5,312.75			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,312.75			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,312.75			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,312.75			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,312.75			10	4	260	3	1
	Sub Total	1.75	\$37,189.25							
TC220	Install Dirt and Topsoil	1	\$21,251.00							
TC110	Demob	0	\$0.00							
TC000	Total	14.00	\$297,514.00							
	Materials									
TB000	Dirt for Landfill	80 cy		x			total / cy	\$15.00	=	\$1,200.00
TB000	Topsoil	40 cy		x			total / cy	\$15.00	=	\$600.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$180.53</u>
										\$1,985.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =				\$2,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Iowa - 2 Tube Meter Station (3)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Iowa - 2 Tube Meter Station (3)
 # Facilities : 3
 State : Iowa
 Hot Tap Size : 16
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 1
 # Meter Runs : 2
 Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	6,494
2.	ANR-PL MATERIALS		TB000	2,485
3.	CONSTRUCTION:		TC000	372,146
	a Mob		TC100	21,251
	b Meter Ancillary		TC200	350,895
	i) Remove Mechanical		TC210	159,383
	ii) Remove Site Work		TC220	138,132
	iii) Remove Electrical & Controls		TC230	37,189
	iiii) Remove Telecommunications		TC240	5,313
	v) Environmental	1.50 %	TC250	5,566
	vi) Remove Cathodic Protection		TC270	5,313
4.	ENGINEERING	2.25 %	TD000	8,349
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	11,132
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 402,606
9.	Contingency	10.00 %	TY000	40,261
10.	Sub-Total			442,866
11.	Overhead	4.00 %	TZ000	17,715
12.	Sub-Total			460,581
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			460,581
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 461,000

3 Station: \$1,383,000

Removal - Interconnect Facilities - Iowa - 2 Tube Meter Station (3)

Contract

\$21,251.00 Composite Crew Rate for Iowa

16 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	1	\$21,251.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$10,625.50
TC210	Meter Building	1	\$21,251.00
TC210	Flow Control Building	0.5	\$10,625.50
Sub Total		2	\$42,502.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,312.75
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,312.75
TC220	Meter Skid	1	\$21,251.00
TC220	Flow Control Skid	0.5	\$10,625.50
TC220	Filter Separator	1	\$21,251.00
TC220	Piping *	0.5	\$10,625.50
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		3.5	\$74,378.50
Remove Site Improvements			
TC220	Fencing *	1	\$21,251.00
TC220	Yard Gravel *	1	\$21,251.00
Sub Total		2	\$42,502.00
Equipment			
TC210	Meter Runs	1	\$21,251.00
TC210	Flow Control Runs	0.5	\$10,625.50
TC210	Filter Separator	0.5	\$10,625.50
Sub Total		2	\$42,502.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$21,251.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$10,625.50
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$10,625.50
TC210	Between Flow Control > Filter Separator	0.5	\$10,625.50
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$53,127.50
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$10,625.50
TC210	At Flow Control Skid	0.5	\$10,625.50
TC210	At Filter Separator	0.5	\$10,625.50
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$31,876.50
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,312.75
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,312.75

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 2

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,312.75			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,312.75			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,312.75			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,312.75			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,312.75			10	4	260	3	1
	Sub Total	1.75	\$37,189.25							
TC220	Install Dirt and Topsoil	1	\$21,251.00							
TC110	Demob	0	\$0.00							
TC000	Total	<u>17.25</u>	<u>\$366,579.75</u>							
	Materials									
TB000	Dirt for Landfill	100 cy		x			total / cy	\$15.00	=	\$1,500.00
TB000	Topsoil	50 cy		x			total / cy	\$15.00	=	\$750.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.7778 =	1.78	total / sf	\$5.27	=	\$9.37
TB000	Misc. Materials	1 ls			10 %				=	<u>\$225.94</u>
										\$2,485.31
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Kansas EGM - (15)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Kansas EGM - (15)
 # Facilities : 15
 State : Kansas
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 0
 # Meter Runs : 0
 Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	1,569
2.	ANR-PL MATERIALS		TB000	1,491
3.	CONSTRUCTION:		TC000	87,931
	a Mob		TC100	6,626
	b Meter Ancillary		TC200	81,305
	i) Remove Mechanical		TC210	13,252
	ii) Remove Site Work		TC220	39,756
	iii) Remove Electrical & Controls		TC230	23,191
	iiii) Remove Telecommunications		TC240	3,313
	v) Environmental	2.00 %	TC250	1,793
	vi) Remove Cathodic Protection		TC270	-
4.	ENGINEERING	2.25 %	TD000	2,017
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	2,689
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 97,695
9.	Contingency	10.00 %	TY000	9,770
10.	Sub-Total			107,465
11.	Overhead	4.00 %	TZ000	4,299
12.	Sub-Total			111,764
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			111,764
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 112,000

15 Station:

\$1,680,000

Removal - Interconnect Facilities - Kansas EGM - (15)

Contract

\$13,252.00 Composite Crew Rate for Kansas

12 Line Size

2015 IFRS Crew Rate:

2009 IFRS Cre

	Labor	Days	Abandonment Crew
TC110	Mob	0.5	\$6,626.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$6,626.00
TC210	Meter Building	0	\$0.00
TC210	Flow Control Building	0	\$0.00
Sub Total		0.5	\$6,626.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$3,313.00
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$3,313.00
TC220	Meter Skid	0	\$0.00
TC220	Flow Control Skid	0	\$0.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0	\$0.00
TC220	Concrete Platform (Near Shore Application)	0	\$0.00
Sub Total		0.5	\$6,626.00
Remove Site Improvements			
TC220	Fencing *	1	\$13,252.00
TC220	Yard Gravel *	1	\$13,252.00
Sub Total		2	\$26,504.00
Equipment			
TC210	Meter Runs	0	\$0.00
TC210	Flow Control Runs	0	\$0.00
TC210	Filter Separator	0	\$0.00
Sub Total		0	\$0.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$13,252.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0	\$0.00
TC210	Between Meter Skid > Flow Control, Including Headers	0	\$0.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections	0	\$0.00
Sub Total		1	\$13,252.00
Remove Above Ground Piping			
TC210	Rising Piping	0	\$0.00
TC210	At Meter Skid	0	\$0.00
TC210	At Flow Control Skid	0	\$0.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold	0	\$0.00
TC210	At Customer Connection	0	\$0.00
Sub Total		0	\$0.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$3,313.00
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$3,313.00

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 0

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob
0	1	60	1	0.5
1	1	80	1	1
2	1	100	1	1
3	1	120	1	1
4	1	140	2	1
5	2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$3,313.00		6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$3,313.00		7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$3,313.00		8	3	220	3	1
TC270	Cathodic Protection *	0	\$0.00		9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$3,313.00		10	4	260	3	1
	Sub Total	1.5	\$19,878.00						
TC220	Install Dirt and Topsoil	0.5	\$6,626.00						
TC110	Demob	0	\$0.00						
TC000	Total	6.50	\$86,138.00						
	Materials								
TB000	Dirt for Landfill	60 cy		x			total / cy	\$15.00	= \$900.00
TB000	Topsoil	30 cy		x			total / cy	\$15.00	= \$450.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000	= 1.00	total / sf	\$5.27	= \$5.27
TB000	Misc. Materials	1 ls				10 %			= <u>\$135.53</u>
									\$1,490.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00	=	\$2,000.00	

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Kansas - 1 Tube Meter Station (6)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Kansas - 1 Tube Meter Station (6)
 # Facilities : 6
 State : Kansas
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 1
 # Meter Runs : 1
 Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	5,361
2.	ANR-PL MATERIALS		TB000	1,986
3.	CONSTRUCTION:		TC000	306,939
	a Mob		TC100	21,596
	b Meter Ancillary		TC200	285,343
	i) Remove Mechanical		TC210	113,379
	ii) Remove Site Work		TC220	118,778
	iii) Remove Electrical & Controls		TC230	37,793
	iiii) Remove Telecommunications		TC240	5,399
	v) Environmental	1.50 %	TC250	4,595
	vi) Remove Cathodic Protection		TC270	5,399
4.	ENGINEERING	2.25 %	TD000	6,892
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	9,190
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 332,368
9.	Contingency	10.00 %	TY000	33,237
10.	Sub-Total			365,605
11.	Overhead	4.00 %	TZ000	14,624
12.	Sub-Total			380,229
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			380,229
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 381,000

6 Station: \$2,286,000

Removal - Interconnect Facilities - Kansas - 1 Tube Meter Station (6)

Contract

\$21,596.00 Composite Crew Rate for Kansas

12 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	1	\$21,596.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$10,798.00
TC210	Meter Building	1	\$21,596.00
TC210	Flow Control Building	0.5	\$10,798.00
Sub Total		2	\$43,192.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,399.00
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,399.00
TC220	Meter Skid	1	\$21,596.00
TC220	Flow Control Skid	0.5	\$10,798.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0.5	\$10,798.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		2.5	\$53,990.00
Remove Site Improvements			
TC220	Fencing *	1	\$21,596.00
TC220	Yard Gravel *	1	\$21,596.00
Sub Total		2	\$43,192.00
Equipment			
TC210	Meter Runs	0.5	\$10,798.00
TC210	Flow Control Runs	0.25	\$5,399.00
TC210	Filter Separator	0	\$0.00
Sub Total		0.75	\$16,197.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$21,596.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$10,798.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$10,798.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2	\$43,192.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$10,798.00
TC210	At Flow Control Skid	0.5	\$10,798.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1	\$21,596.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,399.00
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,399.00

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 1

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,399.00			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,399.00			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,399.00			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,399.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,399.00			10	4	260	3	1
	Sub Total	1.75	\$37,793.00							
TC220	Install Dirt and Topsoil	1	\$21,596.00							
TC110	Demob	0	\$0.00							
TC000	Total	14.00	\$302,344.00							
	Materials									
TB000	Dirt for Landfill	80 cy		x			total / cy	\$15.00	=	\$1,200.00
TB000	Topsoil	40 cy		x			total / cy	\$15.00	=	\$600.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$180.53</u>
										\$1,985.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =				\$2,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Kentucky EGM - (1)

Project : IFRS - ANR Interconnect Retirement
Meter Facility : Kentucky EGM - (1)
Facilities : 1
State : Kentucky
Hot Tap Size : 12
EGM / GC : 1

Requested by : null
Estimator : null
Date : 11/18/2015
Meter Skid : 0
Meter Runs : 0
Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	1,509
2.	ANR-PL MATERIALS		TB000	1,491
3.	CONSTRUCTION:		TC000	84,450
	a Mob		TC100	6,364
	b Meter Ancillary		TC200	78,086
	i) Remove Mechanical		TC210	12,727
	ii) Remove Site Work		TC220	38,181
	iii) Remove Electrical & Controls		TC230	22,272
	iiii) Remove Telecommunications		TC240	3,182
	v) Environmental	2.00 %	TC250	1,724
	vi) Remove Cathodic Protection		TC270	-
4.	ENGINEERING	2.25 %	TD000	1,940
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	2,586
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 93,976
9.	Contingency	10.00 %	TY000	9,398
10.	Sub-Total			103,373
11.	Overhead	4.00 %	TZ000	4,135
12.	Sub-Total			107,508
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			107,508
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 108,000

1 Station: \$108,000

Removal - Interconnect Facilities - Kentucky EGM - (1)

Contract

\$12,727.00 Composite Crew Rate for Kentucky

12 Line Size

2015 IFRS Crew Rate:

2009 IFRS Cre

	Labor	Days	Abandonment Crew
TC110	Mob	0.5	\$6,363.50
Remove Buildings			
TC230	Valtronic Building *	0.5	\$6,363.50
TC210	Meter Building	0	\$0.00
TC210	Flow Control Building	0	\$0.00
Sub Total		0.5	\$6,363.50
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$3,181.75
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$3,181.75
TC220	Meter Skid	0	\$0.00
TC220	Flow Control Skid	0	\$0.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0	\$0.00
TC220	Concrete Platform (Near Shore Application)	0	\$0.00
Sub Total		0.5	\$6,363.50
Remove Site Improvements			
TC220	Fencing *	1	\$12,727.00
TC220	Yard Gravel *	1	\$12,727.00
Sub Total		2	\$25,454.00
Equipment			
TC210	Meter Runs	0	\$0.00
TC210	Flow Control Runs	0	\$0.00
TC210	Filter Separator	0	\$0.00
Sub Total		0	\$0.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$12,727.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0	\$0.00
TC210	Between Meter Skid > Flow Control, Including Headers	0	\$0.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections	0	\$0.00
Sub Total		1	\$12,727.00
Remove Above Ground Piping			
TC210	Rising Piping	0	\$0.00
TC210	At Meter Skid	0	\$0.00
TC210	At Flow Control Skid	0	\$0.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold	0	\$0.00
TC210	At Customer Connection	0	\$0.00
Sub Total		0	\$0.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$3,181.75
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$3,181.75

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 0

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob
0	1	60	1	0.5
1	1	80	1	1
2	1	100	1	1
3	1	120	1	1
4	1	140	2	1
5	2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$3,181.75			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$3,181.75			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$3,181.75			8	3	220	3	1
TC270	Cathodic Protection *	0	\$0.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$3,181.75			10	4	260	3	1
	Sub Total	1.5	\$19,090.50							
TC220	Install Dirt and Topsoil	0.5	\$6,363.50							
TC110	Demob	0	\$0.00							
TC000	Total	6.50	\$82,725.50							
	Materials									
TB000	Dirt for Landfill	60 cy		x			total / cy	\$15.00	=	\$900.00
TB000	Topsoil	30 cy		x			total / cy	\$15.00	=	\$450.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$135.53</u>
										\$1,490.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Kentucky - 1 Tube Meter Station (6)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Kentucky - 1 Tube Meter Station (6)
 # Facilities : 6
 State : Kentucky
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 1
 # Meter Runs : 1
 Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	5,151
2.	ANR-PL MATERIALS		TB000	1,986
3.	CONSTRUCTION:		TC000	294,775
	a Mob		TC100	20,740
	b Meter Ancillary		TC200	274,035
	i) Remove Mechanical		TC210	108,885
	ii) Remove Site Work		TC220	114,070
	iii) Remove Electrical & Controls		TC230	36,295
	iiii) Remove Telecommunications		TC240	5,185
	v) Environmental	1.50 %	TC250	4,415
	vi) Remove Cathodic Protection		TC270	5,185
4.	ENGINEERING	2.25 %	TD000	6,623
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	8,830
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 319,365
9.	Contingency	10.00 %	TY000	31,937
10.	Sub-Total			351,302
11.	Overhead	4.00 %	TZ000	14,052
12.	Sub-Total			365,354
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			365,354
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 366,000

6 Station: \$2,196,000

Removal - Interconnect Facilities - Kentucky - 1 Tube Meter Station (6)

Contract

\$20,740.00 Composite Crew Rate for Kentucky

12 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	1	\$20,740.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$10,370.00
TC210	Meter Building	1	\$20,740.00
TC210	Flow Control Building	0.5	\$10,370.00
Sub Total		2	\$41,480.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,185.00
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,185.00
TC220	Meter Skid	1	\$20,740.00
TC220	Flow Control Skid	0.5	\$10,370.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0.5	\$10,370.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		2.5	\$51,850.00
Remove Site Improvements			
TC220	Fencing *	1	\$20,740.00
TC220	Yard Gravel *	1	\$20,740.00
Sub Total		2	\$41,480.00
Equipment			
TC210	Meter Runs	0.5	\$10,370.00
TC210	Flow Control Runs	0.25	\$5,185.00
TC210	Filter Separator	0	\$0.00
Sub Total		0.75	\$15,555.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$20,740.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$10,370.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$10,370.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2	\$41,480.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$10,370.00
TC210	At Flow Control Skid	0.5	\$10,370.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1	\$20,740.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,185.00
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,185.00

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 1

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,185.00			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,185.00			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,185.00			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,185.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,185.00			10	4	260	3	1
	Sub Total	1.75	\$36,295.00							
TC220	Install Dirt and Topsoil	1	\$20,740.00							
TC110	Demob	0	\$0.00							
TC000	Total	14.00	\$290,360.00							
	Materials									
TB000	Dirt for Landfill	80 cy		x			total / cy	\$15.00	=	\$1,200.00
TB000	Topsoil	40 cy		x			total / cy	\$15.00	=	\$600.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$180.53</u>
										\$1,985.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =				\$2,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Kentucky - 2 Tube Meter Station (1)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Kentucky - 2 Tube Meter Station (1)
 # Facilities : 1
 State : Kentucky
 Hot Tap Size : 16
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 1
 # Meter Runs : 2
 Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	6,339
2.	ANR-PL MATERIALS		TB000	2,485
3.	CONSTRUCTION:		TC000	363,199
	a Mob		TC100	20,740
	b Meter Ancillary		TC200	342,459
	i) Remove Mechanical		TC210	155,550
	ii) Remove Site Work		TC220	134,810
	iii) Remove Electrical & Controls		TC230	36,295
	iiii) Remove Telecommunications		TC240	5,185
	v) Environmental	1.50 %	TC250	5,434
	vi) Remove Cathodic Protection		TC270	5,185
4.	ENGINEERING	2.25 %	TD000	8,151
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	10,868
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 393,042
9.	Contingency	10.00 %	TY000	39,304
10.	Sub-Total			432,346
11.	Overhead	4.00 %	TZ000	17,294
12.	Sub-Total			449,640
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			449,640
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 450,000

1 Station: \$450,000

Removal - Interconnect Facilities - Kentucky - 2 Tube Meter Station (1)

Contract

\$20,740.00 Composite Crew Rate for Kentucky

16 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$20,740.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$10,370.00
TC210	Meter Building	1	\$20,740.00
TC210	Flow Control Building	0.5	\$10,370.00
Sub Total		2	\$41,480.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,185.00
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,185.00
TC220	Meter Skid	1	\$20,740.00
TC220	Flow Control Skid	0.5	\$10,370.00
TC220	Filter Separator	1	\$20,740.00
TC220	Piping *	0.5	\$10,370.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		3.5	\$72,590.00
Remove Site Improvements			
TC220	Fencing *	1	\$20,740.00
TC220	Yard Gravel *	1	\$20,740.00
Sub Total		2	\$41,480.00
Equipment			
TC210	Meter Runs	1	\$20,740.00
TC210	Flow Control Runs	0.5	\$10,370.00
TC210	Filter Separator	0.5	\$10,370.00
Sub Total		2	\$41,480.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$20,740.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$10,370.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$10,370.00
TC210	Between Flow Control > Filter Separator	0.5	\$10,370.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$51,850.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$10,370.00
TC210	At Flow Control Skid	0.5	\$10,370.00
TC210	At Filter Separator	0.5	\$10,370.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$31,110.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,185.00
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,185.00

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 2

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,185.00			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,185.00			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,185.00			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,185.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,185.00			10	4	260	3	1
	Sub Total	1.75	\$36,295.00							
TC220	Install Dirt and Topsoil	1	\$20,740.00							
TC110	Demob	0	\$0.00							
TC000	Total	<u>17.25</u>	<u>\$357,765.00</u>							
	Materials									
TB000	Dirt for Landfill	100 cy		x			total / cy	\$15.00	=	\$1,500.00
TB000	Topsoil	50 cy		x			total / cy	\$15.00	=	\$750.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.7778 =	1.78	total / sf	\$5.27	=	\$9.37
TB000	Misc. Materials	1 ls			10 %				=	<u>\$225.94</u>
										\$2,485.31
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Louisiana EGM - (84)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Louisiana EGM - (84)
 # Facilities : 84
 State : Louisiana
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 0
 # Meter Runs : 0
 Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	1,485
2.	ANR-PL MATERIALS		TB000	1,491
3.	CONSTRUCTION:		TC000	83,058
	a Mob		TC100	6,259
	b Meter Ancillary		TC200	76,799
	i) Remove Mechanical		TC210	12,517
	ii) Remove Site Work		TC220	37,551
	iii) Remove Electrical & Controls		TC230	21,905
	iiii) Remove Telecommunications		TC240	3,129
	v) Environmental	2.00 %	TC250	1,697
	vi) Remove Cathodic Protection		TC270	-
4.	ENGINEERING	2.25 %	TD000	1,909
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	2,546
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 92,488
9.	Contingency	10.00 %	TY000	9,249
10.	Sub-Total			101,737
11.	Overhead	4.00 %	TZ000	4,069
12.	Sub-Total			105,806
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			105,806
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 106,000

84 Station:

\$8,904,000

Removal - Interconnect Facilities - Louisiana EGM - (84)

Contract

\$12,517.00 Composite Crew Rate for Louisiana

12 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	0.5	\$6,258.50
Remove Buildings			
TC230	Valtronic Building *	0.5	\$6,258.50
TC210	Meter Building	0	\$0.00
TC210	Flow Control Building	0	\$0.00
Sub Total		0.5	\$6,258.50
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$3,129.25
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$3,129.25
TC220	Meter Skid	0	\$0.00
TC220	Flow Control Skid	0	\$0.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0	\$0.00
TC220	Concrete Platform (Near Shore Application)	0	\$0.00
Sub Total		0.5	\$6,258.50
Remove Site Improvements			
TC220	Fencing *	1	\$12,517.00
TC220	Yard Gravel *	1	\$12,517.00
Sub Total		2	\$25,034.00
Equipment			
TC210	Meter Runs	0	\$0.00
TC210	Flow Control Runs	0	\$0.00
TC210	Filter Separator	0	\$0.00
Sub Total		0	\$0.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$12,517.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0	\$0.00
TC210	Between Meter Skid > Flow Control, Including Headers	0	\$0.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections	0	\$0.00
Sub Total		1	\$12,517.00
Remove Above Ground Piping			
TC210	Rising Piping	0	\$0.00
TC210	At Meter Skid	0	\$0.00
TC210	At Flow Control Skid	0	\$0.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold	0	\$0.00
TC210	At Customer Connection	0	\$0.00
Sub Total		0	\$0.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$3,129.25
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$3,129.25

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 0

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob
0	1	60	1	0.5
1	1	80	1	1
2	1	100	1	1
3	1	120	1	1
4	1	140	2	1
5	2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$3,129.25			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$3,129.25			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$3,129.25			8	3	220	3	1
TC270	Cathodic Protection *	0	\$0.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$3,129.25			10	4	260	3	1
	Sub Total	1.5	\$18,775.50							
TC220	Install Dirt and Topsoil	0.5	\$6,258.50							
TC110	Demob	0	\$0.00							
TC000	Total	6.50	\$81,360.50							
	Materials									
TB000	Dirt for Landfill	60 cy		x			total / cy	\$15.00	=	\$900.00
TB000	Topsoil	30 cy		x			total / cy	\$15.00	=	\$450.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$135.53</u>
										\$1,490.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Louisiana - 1 Tube Meter Station (25)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Louisiana - 1 Tube Meter Station (25)
 # Facilities : 25
 State : Louisiana
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 1
 # Meter Runs : 1
 Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	5,067
2.	ANR-PL MATERIALS		TB000	1,986
3.	CONSTRUCTION:		TC000	289,915
	a Mob		TC100	20,398
	b Meter Ancillary		TC200	269,517
	i) Remove Mechanical		TC210	107,090
	ii) Remove Site Work		TC220	112,189
	iii) Remove Electrical & Controls		TC230	35,697
	iiii) Remove Telecommunications		TC240	5,100
	v) Environmental	1.50 %	TC250	4,343
	vi) Remove Cathodic Protection		TC270	5,100
4.	ENGINEERING	2.25 %	TD000	6,515
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	8,687
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 314,170
9.	Contingency	10.00 %	TY000	31,417
10.	Sub-Total			345,587
11.	Overhead	4.00 %	TZ000	13,823
12.	Sub-Total			359,411
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			359,411
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 360,000

25 Station: \$9,000,000

Removal - Interconnect Facilities - Louisiana - 1 Tube Meter Station (25)

Contract

\$20,398.00 Composite Crew Rate for Louisiana

12 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	1	\$20,398.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$10,199.00
TC210	Meter Building	1	\$20,398.00
TC210	Flow Control Building	0.5	\$10,199.00
Sub Total		2	\$40,796.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,099.50
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,099.50
TC220	Meter Skid	1	\$20,398.00
TC220	Flow Control Skid	0.5	\$10,199.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0.5	\$10,199.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		2.5	\$50,995.00
Remove Site Improvements			
TC220	Fencing *	1	\$20,398.00
TC220	Yard Gravel *	1	\$20,398.00
Sub Total		2	\$40,796.00
Equipment			
TC210	Meter Runs	0.5	\$10,199.00
TC210	Flow Control Runs	0.25	\$5,099.50
TC210	Filter Separator	0	\$0.00
Sub Total		0.75	\$15,298.50
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$20,398.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$10,199.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$10,199.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2	\$40,796.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$10,199.00
TC210	At Flow Control Skid	0.5	\$10,199.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1	\$20,398.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,099.50
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,099.50

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 1

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,099.50			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,099.50			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,099.50			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,099.50			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,099.50			10	4	260	3	1
	Sub Total	1.75	\$35,696.50							
TC220	Install Dirt and Topsoil	1	\$20,398.00							
TC110	Demob	0	\$0.00							
TC000	Total	14.00	\$285,572.00							
	Materials									
TB000	Dirt for Landfill	80 cy		x			total / cy	\$15.00	=	\$1,200.00
TB000	Topsoil	40 cy		x			total / cy	\$15.00	=	\$600.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$180.53</u>
										\$1,985.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =				\$2,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Louisiana - 2 Tube Meter Station (7)

Project : IFRS - ANR Interconnect Retirement
Meter Facility : Louisiana - 2 Tube Meter Station (7)
Facilities : 7
State : Louisiana
Hot Tap Size : 16
EGM / GC : 1

Requested by : null
Estimator : null
Date : 11/18/2015
Meter Skid : 1
Meter Runs : 2
Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	6,236
2.	ANR-PL MATERIALS		TB000	2,485
3.	CONSTRUCTION:		TC000	357,211
	a Mob		TC100	20,398
	b Meter Ancillary		TC200	336,813
	i) Remove Mechanical		TC210	152,985
	ii) Remove Site Work		TC220	132,587
	iii) Remove Electrical & Controls		TC230	35,697
	iiii) Remove Telecommunications		TC240	5,100
	v) Environmental	1.50 %	TC250	5,345
	vi) Remove Cathodic Protection		TC270	5,100
4.	ENGINEERING	2.25 %	TD000	8,018
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	10,691
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 386,641
9.	Contingency	10.00 %	TY000	38,664
10.	Sub-Total			425,305
11.	Overhead	4.00 %	TZ000	17,012
12.	Sub-Total			442,317
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			442,317
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 443,000

7 Station: \$3,101,000

Removal - Interconnect Facilities - Louisiana - 2 Tube Meter Station (7)

Contract

\$20,398.00 Composite Crew Rate for Louisiana

16 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	1	\$20,398.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$10,199.00
TC210	Meter Building	1	\$20,398.00
TC210	Flow Control Building	0.5	\$10,199.00
Sub Total		2	\$40,796.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,099.50
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,099.50
TC220	Meter Skid	1	\$20,398.00
TC220	Flow Control Skid	0.5	\$10,199.00
TC220	Filter Separator	1	\$20,398.00
TC220	Piping *	0.5	\$10,199.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		3.5	\$71,393.00
Remove Site Improvements			
TC220	Fencing *	1	\$20,398.00
TC220	Yard Gravel *	1	\$20,398.00
Sub Total		2	\$40,796.00
Equipment			
TC210	Meter Runs	1	\$20,398.00
TC210	Flow Control Runs	0.5	\$10,199.00
TC210	Filter Separator	0.5	\$10,199.00
Sub Total		2	\$40,796.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$20,398.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$10,199.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$10,199.00
TC210	Between Flow Control > Filter Separator	0.5	\$10,199.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$50,995.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$10,199.00
TC210	At Flow Control Skid	0.5	\$10,199.00
TC210	At Filter Separator	0.5	\$10,199.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$30,597.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,099.50
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,099.50

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 2

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob
0		1	60	1
1		1	80	1
2		1	100	1
3		1	120	1
4		1	140	2
5		2	160	2

TC230	Conduit, Above and Below Grade *	0.25	\$5,099.50			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,099.50			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,099.50			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,099.50			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,099.50			10	4	260	3	1
	Sub Total	1.75	\$35,696.50							
TC220	Install Dirt and Topsoil	1	\$20,398.00							
TC110	Demob	0	\$0.00							
TC000	Total	<u>17.25</u>	<u>\$351,865.50</u>							
	Materials									
TB000	Dirt for Landfill	100 cy		x			total / cy	\$15.00	=	\$1,500.00
TB000	Topsoil	50 cy		x			total / cy	\$15.00	=	\$750.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.7778 =	1.78	total / sf	\$5.27	=	\$9.37
TB000	Misc. Materials	1 ls			10 %				=	<u>\$225.94</u>
										\$2,485.31
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Louisiana - 3 Tube Meter Station (7)

Project : IFRS - ANR Interconnect Retirement
Meter Facility : Louisiana - 3 Tube Meter Station (7)
Facilities : 7
State : Louisiana
Hot Tap Size : 30
EGM / GC : 1

Requested by : null
Estimator : null
Date : 11/18/2015
Meter Skid : 1
Meter Runs : 3
Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	6,513
2.	ANR-PL MATERIALS		TB000	3,006
3.	CONSTRUCTION:		TC000	372,747
	a Mob		TC100	20,398
	b Meter Ancillary		TC200	352,349
	i) Remove Mechanical		TC210	168,284
	ii) Remove Site Work		TC220	132,587
	iii) Remove Electrical & Controls		TC230	35,697
	iiii) Remove Telecommunications		TC240	5,100
	v) Environmental	1.50 %	TC250	5,583
	vi) Remove Cathodic Protection		TC270	5,100
4.	ENGINEERING	2.25 %	TD000	8,374
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	11,165
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 403,805
9.	Contingency	10.00 %	TY000	40,380
10.	Sub-Total			444,185
11.	Overhead	4.00 %	TZ000	17,767
12.	Sub-Total			461,953
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			461,953
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 462,000

7 Station: \$3,234,000

Removal - Interconnect Facilities - Louisiana - 3 Tube Meter Station (7)

Contract

\$20,398.00 Composite Crew Rate for Louisiana

30 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	1	\$20,398.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$10,199.00
TC210	Meter Building	1	\$20,398.00
TC210	Flow Control Building	0.5	\$10,199.00
Sub Total		2	\$40,796.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,099.50
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,099.50
TC220	Meter Skid	1	\$20,398.00
TC220	Flow Control Skid	0.5	\$10,199.00
TC220	Filter Separator	1	\$20,398.00
TC220	Piping *	0.5	\$10,199.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		3.5	\$71,393.00
Remove Site Improvements			
TC220	Fencing *	1	\$20,398.00
TC220	Yard Gravel *	1	\$20,398.00
Sub Total		2	\$40,796.00
Equipment			
TC210	Meter Runs	1.5	\$30,597.00
TC210	Flow Control Runs	0.75	\$15,298.50
TC210	Filter Separator	0.5	\$10,199.00
Sub Total		2.75	\$56,094.50
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$20,398.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$10,199.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$10,199.00
TC210	Between Flow Control > Filter Separator	0.5	\$10,199.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$50,995.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$10,199.00
TC210	At Flow Control Skid	0.5	\$10,199.00
TC210	At Filter Separator	0.5	\$10,199.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$30,597.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,099.50
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,099.50

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 3

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,099.50			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,099.50			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,099.50			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,099.50			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,099.50			10	4	260	3	1
	Sub Total	1.75	\$35,696.50							
TC220	Install Dirt and Topsoil	1	\$20,398.00							
TC110	Demob	0	\$0.00							
TC000	Total	18.00	\$367,164.00							
	Materials									
TB000	Dirt for Landfill	120 cy		x			total / cy	\$15.00	=	\$1,800.00
TB000	Topsoil	60 cy		x			total / cy	\$15.00	=	\$900.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	6.2500 =	6.25	total / sf	\$5.27	=	\$32.94
TB000	Misc. Materials	1 ls			10 %				=	<u>\$273.29</u>
										\$3,006.23
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =				\$2,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Louisiana - 4 Tube Meter Station (1)

Project : IFRS - ANR Interconnect Retirement
Meter Facility : Louisiana - 4 Tube Meter Station (1)
Facilities : 1
State : Louisiana
Hot Tap Size : 42
EGM / GC : 1

Requested by : null
Estimator : null
Date : 11/18/2015
Meter Skid : 2
Meter Runs : 4
Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	7,896
2.	ANR-PL MATERIALS		TB000	3,536
3.	CONSTRUCTION:		TC000	450,424
	a Mob		TC100	20,398
	b Meter Ancillary		TC200	430,026
	i) Remove Mechanical		TC210	214,179
	ii) Remove Site Work		TC220	163,184
	iii) Remove Electrical & Controls		TC230	35,697
	iiii) Remove Telecommunications		TC240	5,100
	v) Environmental	1.50 %	TC250	6,768
	vi) Remove Cathodic Protection		TC270	5,100
4.	ENGINEERING	2.25 %	TD000	10,152
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	13,536
6.	LAND - DAMAGES		TF000	4,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 489,544
9.	Contingency	10.00 %	TY000	48,954
10.	Sub-Total			538,498
11.	Overhead	4.00 %	TZ000	21,540
12.	Sub-Total			560,038
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			560,038
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 561,000

1 Station: \$561,000

Removal - Interconnect Facilities - Louisiana - 4 Tube Meter Station (1)

Contract

\$20,398.00 Composite Crew Rate for Louisiana

42 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	1	\$20,398.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$10,199.00
TC210	Meter Building	2	\$40,796.00
TC210	Flow Control Building	1	\$20,398.00
Sub Total		3.5	\$71,393.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,099.50
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,099.50
TC220	Meter Skid	2	\$40,796.00
TC220	Flow Control Skid	1	\$20,398.00
TC220	Filter Separator	1	\$20,398.00
TC220	Piping *	0.5	\$10,199.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		5	\$101,990.00
Remove Site Improvements			
TC220	Fencing *	1	\$20,398.00
TC220	Yard Gravel *	1	\$20,398.00
Sub Total		2	\$40,796.00
Equipment			
TC210	Meter Runs	2	\$40,796.00
TC210	Flow Control Runs	1	\$20,398.00
TC210	Filter Separator	0.5	\$10,199.00
Sub Total		3.5	\$71,393.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$20,398.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$10,199.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$10,199.00
TC210	Between Flow Control > Filter Separator	0.5	\$10,199.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$50,995.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$10,199.00
TC210	At Flow Control Skid	0.5	\$10,199.00
TC210	At Filter Separator	0.5	\$10,199.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$30,597.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,099.50
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,099.50

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 4

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,099.50			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,099.50			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,099.50			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,099.50			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,099.50			10	4	260	3	1
	Sub Total	1.75	\$35,696.50							
TC220	Install Dirt and Topsoil	1	\$20,398.00							
TC110	Demob	0	\$0.00							
TC000	Total	<u>21.75</u>	<u>\$443,656.50</u>							
	Materials									
TB000	Dirt for Landfill	140 cy		x			total / cy	\$15.00	=	\$2,100.00
TB000	Topsoil	70 cy		x			total / cy	\$15.00	=	\$1,050.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	12.2500 =	12.25	total / sf	\$5.27	=	\$64.56
TB000	Misc. Materials	1 ls			10 %				=	<u>\$321.46</u>
										\$3,536.01
TF140	Land Damages	2		# of Digs	x	\$2,000.00 =				\$4,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Michigan EGM - (33)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Michigan EGM - (33)
 # Facilities : 33
 State : Michigan
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/17/2015
 Meter Skid : 0
 # Meter Runs : 0
 Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	1,583
2.	ANR-PL MATERIALS		TB000	1,491
3.	CONSTRUCTION:		TC000	88,799
	a Mob		TC100	6,692
	b Meter Ancillary		TC200	82,108
	i) Remove Mechanical		TC210	13,383
	ii) Remove Site Work		TC220	40,149
	iii) Remove Electrical & Controls		TC230	23,420
	iiii) Remove Telecommunications		TC240	3,346
	v) Environmental	2.00 %	TC250	1,810
	vi) Remove Cathodic Protection		TC270	-
4.	ENGINEERING	2.25 %	TD000	2,036
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	2,714
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 98,624
9.	Contingency	10.00 %	TY000	9,862
10.	Sub-Total			108,486
11.	Overhead	4.00 %	TZ000	4,339
12.	Sub-Total			112,825
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			112,825
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 113,000

33 Station:

\$3,729,000

Removal - Interconnect Facilities - Michigan EGM - (33)

Contract

\$13,383.00 Composite Crew Rate for Michigan

12 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	0.5	\$6,691.50
Remove Buildings			
TC230	Valtronic Building *	0.5	\$6,691.50
TC210	Meter Building	0	\$0.00
TC210	Flow Control Building	0	\$0.00
Sub Total		0.5	\$6,691.50
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$3,345.75
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$3,345.75
TC220	Meter Skid	0	\$0.00
TC220	Flow Control Skid	0	\$0.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0	\$0.00
TC220	Concrete Platform (Near Shore Application)	0	\$0.00
Sub Total		0.5	\$6,691.50
Remove Site Improvements			
TC220	Fencing *	1	\$13,383.00
TC220	Yard Gravel *	1	\$13,383.00
Sub Total		2	\$26,766.00
Equipment			
TC210	Meter Runs	0	\$0.00
TC210	Flow Control Runs	0	\$0.00
TC210	Filter Separator	0	\$0.00
Sub Total		0	\$0.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$13,383.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0	\$0.00
TC210	Between Meter Skid > Flow Control, Including Headers	0	\$0.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections	0	\$0.00
Sub Total		1	\$13,383.00
Remove Above Ground Piping			
TC210	Rising Piping	0	\$0.00
TC210	At Meter Skid	0	\$0.00
TC210	At Flow Control Skid	0	\$0.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold	0	\$0.00
TC210	At Customer Connection	0	\$0.00
Sub Total		0	\$0.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$3,345.75
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$3,345.75

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 0

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob
0	1	60	1	0.5
1	1	80	1	1
2	1	100	1	1
3	1	120	1	1
4	1	140	2	1
5	2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$3,345.75			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$3,345.75			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$3,345.75			8	3	220	3	1
TC270	Cathodic Protection *	0	\$0.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$3,345.75			10	4	260	3	1
	Sub Total	1.5	\$20,074.50							
TC220	Install Dirt and Topsoil	0.5	\$6,691.50							
TC110	Demob	0	\$0.00							
TC000	Total	6.50	\$86,989.50							
	Materials									
TB000	Dirt for Landfill	60 cy		x			total / cy	\$15.00	=	\$900.00
TB000	Topsoil	30 cy		x			total / cy	\$15.00	=	\$450.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$135.53</u>
										\$1,490.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Michigan - 1 Tube Meter Station (28)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Michigan - 1 Tube Meter Station (28)
 # Facilities : 28
 State : Michigan
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/17/2015
 Meter Skid : 1
 # Meter Runs : 1
 Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	5,418
2.	ANR-PL MATERIALS		TB000	1,986
3.	CONSTRUCTION:		TC000	310,250
	a Mob		TC100	21,829
	b Meter Ancillary		TC200	288,421
	i) Remove Mechanical		TC210	114,602
	ii) Remove Site Work		TC220	120,060
	iii) Remove Electrical & Controls		TC230	38,201
	iiii) Remove Telecommunications		TC240	5,457
	v) Environmental	1.50 %	TC250	4,644
	vi) Remove Cathodic Protection		TC270	5,457
4.	ENGINEERING	2.25 %	TD000	6,966
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	9,288
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 335,907
9.	Contingency	10.00 %	TY000	33,591
10.	Sub-Total			369,498
11.	Overhead	4.00 %	TZ000	14,780
12.	Sub-Total			384,278
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			384,278
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 385,000

28 Station: \$10,780,000

Removal - Interconnect Facilities - Michigan - 1 Tube Meter Station (28)

Contract

\$21,829.00 Composite Crew Rate for Michigan

12 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	1	\$21,829.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$10,914.50
TC210	Meter Building	1	\$21,829.00
TC210	Flow Control Building	0.5	\$10,914.50
Sub Total		2	\$43,658.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,457.25
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,457.25
TC220	Meter Skid	1	\$21,829.00
TC220	Flow Control Skid	0.5	\$10,914.50
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0.5	\$10,914.50
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		2.5	\$54,572.50
Remove Site Improvements			
TC220	Fencing *	1	\$21,829.00
TC220	Yard Gravel *	1	\$21,829.00
Sub Total		2	\$43,658.00
Equipment			
TC210	Meter Runs	0.5	\$10,914.50
TC210	Flow Control Runs	0.25	\$5,457.25
TC210	Filter Separator	0	\$0.00
Sub Total		0.75	\$16,371.75
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$21,829.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$10,914.50
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$10,914.50
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2	\$43,658.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$10,914.50
TC210	At Flow Control Skid	0.5	\$10,914.50
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1	\$21,829.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,457.25
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,457.25

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 1

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,457.25			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,457.25			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,457.25			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,457.25			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,457.25			10	4	260	3	1
	Sub Total	1.75	\$38,200.75							
TC220	Install Dirt and Topsoil	1	\$21,829.00							
TC110	Demob	0	\$0.00							
TC000	Total	14.00	\$305,606.00							
	Materials									
TB000	Dirt for Landfill	80 cy		x			total / cy	\$15.00	=	\$1,200.00
TB000	Topsoil	40 cy		x			total / cy	\$15.00	=	\$600.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$180.53</u>
										\$1,985.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =				\$2,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Michigan - 2 Tube Meter Station (17)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Michigan - 2 Tube Meter Station (17)
 # Facilities : 17
 State : Michigan
 Hot Tap Size : 16
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/17/2015
 Meter Skid : 1
 # Meter Runs : 2
 Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	6,668
2.	ANR-PL MATERIALS		TB000	2,485
3.	CONSTRUCTION:		TC000	382,266
	a Mob		TC100	21,829
	b Meter Ancillary		TC200	360,437
	i) Remove Mechanical		TC210	163,718
	ii) Remove Site Work		TC220	141,889
	iii) Remove Electrical & Controls		TC230	38,201
	iiii) Remove Telecommunications		TC240	5,457
	v) Environmental	1.50 %	TC250	5,716
	vi) Remove Cathodic Protection		TC270	5,457
4.	ENGINEERING	2.25 %	TD000	8,573
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	11,431
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 413,424
9.	Contingency	10.00 %	TY000	41,342
10.	Sub-Total			454,766
11.	Overhead	4.00 %	TZ000	18,191
12.	Sub-Total			472,957
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			472,957
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 473,000

17 Station: \$8,041,000

Removal - Interconnect Facilities - Michigan - 2 Tube Meter Station (17)

Contract

\$21,829.00 Composite Crew Rate for Michigan

16 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	1	\$21,829.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$10,914.50
TC210	Meter Building	1	\$21,829.00
TC210	Flow Control Building	0.5	\$10,914.50
Sub Total		2	\$43,658.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,457.25
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,457.25
TC220	Meter Skid	1	\$21,829.00
TC220	Flow Control Skid	0.5	\$10,914.50
TC220	Filter Separator	1	\$21,829.00
TC220	Piping *	0.5	\$10,914.50
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		3.5	\$76,401.50
Remove Site Improvements			
TC220	Fencing *	1	\$21,829.00
TC220	Yard Gravel *	1	\$21,829.00
Sub Total		2	\$43,658.00
Equipment			
TC210	Meter Runs	1	\$21,829.00
TC210	Flow Control Runs	0.5	\$10,914.50
TC210	Filter Separator	0.5	\$10,914.50
Sub Total		2	\$43,658.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$21,829.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$10,914.50
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$10,914.50
TC210	Between Flow Control > Filter Separator	0.5	\$10,914.50
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$54,572.50
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$10,914.50
TC210	At Flow Control Skid	0.5	\$10,914.50
TC210	At Filter Separator	0.5	\$10,914.50
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$32,743.50
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,457.25
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,457.25

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: **0.0%**

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 2

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,457.25			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,457.25			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,457.25			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,457.25			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,457.25			10	4	260	3	1
	Sub Total	1.75	\$38,200.75							
TC220	Install Dirt and Topsoil	1	\$21,829.00							
TC110	Demob	0	\$0.00							
TC000	Total	17.25	\$376,550.25							
	Materials									
TB000	Dirt for Landfill	100 cy		x			total / cy	\$15.00	=	\$1,500.00
TB000	Topsoil	50 cy		x			total / cy	\$15.00	=	\$750.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.7778 =	1.78	total / sf	\$5.27	=	\$9.37
TB000	Misc. Materials	1 ls			10 %				=	\$225.94
										\$2,485.31
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Michigan - 3 Tube Meter Station (9)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Michigan - 3 Tube Meter Station (9)
 # Facilities : 9
 State : Michigan
 Hot Tap Size : 30
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/17/2015
 Meter Skid : 1
 # Meter Runs : 3
 Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	6,964
2.	ANR-PL MATERIALS		TB000	3,006
3.	CONSTRUCTION:		TC000	398,891
	a Mob		TC100	21,829
	b Meter Ancillary		TC200	377,062
	i) Remove Mechanical		TC210	180,089
	ii) Remove Site Work		TC220	141,889
	iii) Remove Electrical & Controls		TC230	38,201
	iiii) Remove Telecommunications		TC240	5,457
	v) Environmental	1.50 %	TC250	5,969
	vi) Remove Cathodic Protection		TC270	5,457
4.	ENGINEERING	2.25 %	TD000	8,953
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	11,938
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 431,752
9.	Contingency	10.00 %	TY000	43,175
10.	Sub-Total			474,927
11.	Overhead	4.00 %	TZ000	18,997
12.	Sub-Total			493,924
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			493,924
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 494,000

9 Station: \$4,446,000

Removal - Interconnect Facilities - Michigan - 3 Tube Meter Station (9)

Contract

\$21,829.00 Composite Crew Rate for Michigan

30 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	1	\$21,829.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$10,914.50
TC210	Meter Building	1	\$21,829.00
TC210	Flow Control Building	0.5	\$10,914.50
Sub Total		2	\$43,658.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,457.25
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,457.25
TC220	Meter Skid	1	\$21,829.00
TC220	Flow Control Skid	0.5	\$10,914.50
TC220	Filter Separator	1	\$21,829.00
TC220	Piping *	0.5	\$10,914.50
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		3.5	\$76,401.50
Remove Site Improvements			
TC220	Fencing *	1	\$21,829.00
TC220	Yard Gravel *	1	\$21,829.00
Sub Total		2	\$43,658.00
Equipment			
TC210	Meter Runs	1.5	\$32,743.50
TC210	Flow Control Runs	0.75	\$16,371.75
TC210	Filter Separator	0.5	\$10,914.50
Sub Total		2.75	\$60,029.75
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$21,829.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$10,914.50
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$10,914.50
TC210	Between Flow Control > Filter Separator	0.5	\$10,914.50
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$54,572.50
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$10,914.50
TC210	At Flow Control Skid	0.5	\$10,914.50
TC210	At Filter Separator	0.5	\$10,914.50
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$32,743.50
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,457.25
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,457.25

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 3

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob
0		1	60	1
1		1	80	1
2		1	100	1
3		1	120	1
4		1	140	2
5		2	160	2

TC230	Conduit, Above and Below Grade *	0.25	\$5,457.25			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,457.25			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,457.25			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,457.25			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,457.25			10	4	260	3	1
	Sub Total	1.75	\$38,200.75							
TC220	Install Dirt and Topsoil	1	\$21,829.00							
TC110	Demob	0	\$0.00							
TC000	Total	18.00	\$392,922.00							
	Materials									
TB000	Dirt for Landfill	120 cy		x			total / cy	\$15.00	=	\$1,800.00
TB000	Topsoil	60 cy		x			total / cy	\$15.00	=	\$900.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	6.2500 =	6.25	total / sf	\$5.27	=	\$32.94
TB000	Misc. Materials	1 ls			10 %				=	<u>\$273.29</u>
										\$3,006.23
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Michigan - 4 Tube Meter Station (5)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Michigan - 4 Tube Meter Station (5)
 # Facilities : 5
 State : Michigan
 Hot Tap Size : 42
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/17/2015
 Meter Skid : 2
 # Meter Runs : 4
 Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	8,441
2.	ANR-PL MATERIALS		TB000	3,536
3.	CONSTRUCTION:		TC000	482,016
	a Mob		TC100	21,829
	b Meter Ancillary		TC200	460,187
	i) Remove Mechanical		TC210	229,205
	ii) Remove Site Work		TC220	174,632
	iii) Remove Electrical & Controls		TC230	38,201
	iiii) Remove Telecommunications		TC240	5,457
	v) Environmental	1.50 %	TC250	7,235
	vi) Remove Cathodic Protection		TC270	5,457
4.	ENGINEERING	2.25 %	TD000	10,852
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	14,470
6.	LAND - DAMAGES		TF000	4,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 523,314
9.	Contingency	10.00 %	TY000	52,331
10.	Sub-Total			575,645
11.	Overhead	4.00 %	TZ000	23,026
12.	Sub-Total			598,671
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			598,671
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 599,000

5 Station: \$2,995,000

Removal - Interconnect Facilities - Michigan - 4 Tube Meter Station (5)

Contract

\$21,829.00 Composite Crew Rate for Michigan

42 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	1	\$21,829.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$10,914.50
TC210	Meter Building	2	\$43,658.00
TC210	Flow Control Building	1	\$21,829.00
Sub Total		3.5	\$76,401.50
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,457.25
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,457.25
TC220	Meter Skid	2	\$43,658.00
TC220	Flow Control Skid	1	\$21,829.00
TC220	Filter Separator	1	\$21,829.00
TC220	Piping *	0.5	\$10,914.50
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		5	\$109,145.00
Remove Site Improvements			
TC220	Fencing *	1	\$21,829.00
TC220	Yard Gravel *	1	\$21,829.00
Sub Total		2	\$43,658.00
Equipment			
TC210	Meter Runs	2	\$43,658.00
TC210	Flow Control Runs	1	\$21,829.00
TC210	Filter Separator	0.5	\$10,914.50
Sub Total		3.5	\$76,401.50
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$21,829.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$10,914.50
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$10,914.50
TC210	Between Flow Control > Filter Separator	0.5	\$10,914.50
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$54,572.50
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$10,914.50
TC210	At Flow Control Skid	0.5	\$10,914.50
TC210	At Filter Separator	0.5	\$10,914.50
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$32,743.50
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,457.25
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,457.25

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 4

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,457.25			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,457.25			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,457.25			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,457.25			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,457.25			10	4	260	3	1
	Sub Total	1.75	\$38,200.75							
TC220	Install Dirt and Topsoil	1	\$21,829.00							
TC110	Demob	0	\$0.00							
TC000	Total	<u>21.75</u>	<u>\$474,780.75</u>							
	Materials									
TB000	Dirt for Landfill	140 cy		x			total / cy	\$15.00	=	\$2,100.00
TB000	Topsoil	70 cy		x			total / cy	\$15.00	=	\$1,050.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	12.2500 =	12.25	total / sf	\$5.27	=	\$64.56
TB000	Misc. Materials	1 ls			10 %				=	<u>\$321.46</u>
										\$3,536.01
TF140	Land Damages	2		# of Digs	x	\$2,000.00 =				\$4,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Michigan - 5 Tube Meter Station (3)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Michigan - 5 Tube Meter Station (3)
 # Facilities : 3
 State : Michigan
 Hot Tap Size : 30
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/17/2015
 Meter Skid : 2
 # Meter Runs : 5
 Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	9,118
2.	ANR-PL MATERIALS		TB000	4,032
3.	CONSTRUCTION:		TC000	520,797
	a Mob		TC100	21,829
	b Meter Ancillary		TC200	498,968
	i) Remove Mechanical		TC210	267,405
	ii) Remove Site Work		TC220	174,632
	iii) Remove Electrical & Controls		TC230	38,201
	iiii) Remove Telecommunications		TC240	5,457
	v) Environmental	1.50 %	TC250	7,815
	vi) Remove Cathodic Protection		TC270	5,457
4.	ENGINEERING	2.25 %	TD000	11,723
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	15,630
6.	LAND - DAMAGES		TF000	4,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 565,300
9.	Contingency	10.00 %	TY000	56,530
10.	Sub-Total			621,830
11.	Overhead	4.00 %	TZ000	24,873
12.	Sub-Total			646,703
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			646,703
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 647,000

3 Station: \$1,941,000

Removal - Interconnect Facilities - Michigan - 5 Tube Meter Station (3)

Contract

\$21,829.00 Composite Crew Rate for Michigan

30 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	1	\$21,829.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$10,914.50
TC210	Meter Building	2	\$43,658.00
TC210	Flow Control Building	1	\$21,829.00
Sub Total		3.5	\$76,401.50
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,457.25
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,457.25
TC220	Meter Skid	2	\$43,658.00
TC220	Flow Control Skid	1	\$21,829.00
TC220	Filter Separator	1	\$21,829.00
TC220	Piping *	0.5	\$10,914.50
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		5	\$109,145.00
Remove Site Improvements			
TC220	Fencing *	1	\$21,829.00
TC220	Yard Gravel *	1	\$21,829.00
Sub Total		2	\$43,658.00
Equipment			
TC210	Meter Runs	2.5	\$54,572.50
TC210	Flow Control Runs	1.25	\$27,286.25
TC210	Filter Separator	0.5	\$10,914.50
Sub Total		4.25	\$92,773.25
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	2	\$43,658.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$10,914.50
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$10,914.50
TC210	Between Flow Control > Filter Separator	0.5	\$10,914.50
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		3.5	\$76,401.50
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$10,914.50
TC210	At Flow Control Skid	0.5	\$10,914.50
TC210	At Filter Separator	0.5	\$10,914.50
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$32,743.50
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,457.25
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,457.25

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 5

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,457.25			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,457.25			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,457.25			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,457.25			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,457.25			10	4	260	3	1
	Sub Total	1.75	\$38,200.75							
TC220	Install Dirt and Topsoil	1	\$21,829.00							
TC110	Demob	0	\$0.00							
TC000	Total	23.50	\$512,981.50							
	Materials									
TB000	Dirt for Landfill	160 cy		x			total / cy	\$15.00	=	\$2,400.00
TB000	Topsoil	80 cy		x			total / cy	\$15.00	=	\$1,200.00
TB000	Steel Plate to cap Hot Tap	2 pieces		x	6.2500 =	12.50	total / sf	\$5.27	=	\$65.88
TB000	Misc. Materials	1 ls			10 %				=	<u>\$366.59</u>
										\$4,032.46
TF140	Land Damages	2		# of Digs	x	\$2,000.00 =				\$4,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Michigan - 6 Tube Meter Station (2)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Michigan - 6 Tube Meter Station (2)
 # Facilities : 2
 State : Michigan
 Hot Tap Size : 24
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/17/2015
 Meter Skid : 2
 # Meter Runs : 6
 Filter Separator : 2

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	10,559
2.	ANR-PL MATERIALS		TB000	4,525
3.	CONSTRUCTION:		TC000	603,891
	a Mob		TC100	21,829
	b Meter Ancillary		TC200	582,062
	i) Remove Mechanical		TC210	327,435
	ii) Remove Site Work		TC220	196,461
	iii) Remove Electrical & Controls		TC230	38,201
	iiii) Remove Telecommunications		TC240	5,457
	v) Environmental	1.50 %	TC250	9,050
	vi) Remove Cathodic Protection		TC270	5,457
4.	ENGINEERING	2.25 %	TD000	13,576
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	18,101
6.	LAND - DAMAGES		TF000	4,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 654,651
9.	Contingency	10.00 %	TY000	65,465
10.	Sub-Total			720,116
11.	Overhead	4.00 %	TZ000	28,805
12.	Sub-Total			748,921
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			748,921
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 749,000

2 Station: \$1,498,000

Removal - Interconnect Facilities - Michigan - 6 Tube Meter Station (2)

Contract

\$21,829.00 Composite Crew Rate for Michigan

24 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$21,829.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$10,914.50
TC210	Meter Building	2	\$43,658.00
TC210	Flow Control Building	1	\$21,829.00
Sub Total		3.5	\$76,401.50
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,457.25
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,457.25
TC220	Meter Skid	2	\$43,658.00
TC220	Flow Control Skid	1	\$21,829.00
TC220	Filter Separator	2	\$43,658.00
TC220	Piping *	0.5	\$10,914.50
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		6	\$130,974.00
Remove Site Improvements			
TC220	Fencing *	1	\$21,829.00
TC220	Yard Gravel *	1	\$21,829.00
Sub Total		2	\$43,658.00
Equipment			
TC210	Meter Runs	3	\$65,487.00
TC210	Flow Control Runs	1.5	\$32,743.50
TC210	Filter Separator	1	\$21,829.00
Sub Total		5.5	\$120,059.50
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	3	\$65,487.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$10,914.50
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$10,914.50
TC210	Between Flow Control > Filter Separator	0.5	\$10,914.50
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		4.5	\$98,230.50
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$10,914.50
TC210	At Flow Control Skid	0.5	\$10,914.50
TC210	At Filter Separator	1	\$21,829.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		2	\$43,658.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,457.25
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,457.25

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: **0.0%**

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 6

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,457.25			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,457.25			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,457.25			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,457.25			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,457.25			10	4	260	3	1
	Sub Total	1.75	\$38,200.75							
TC220	Install Dirt and Topsoil	1	\$21,829.00							
TC110	Demob	0	\$0.00							
TC000	Total	<u>27.25</u>	<u>\$594,840.25</u>							
	Materials									
TB000	Dirt for Landfill	180 cy		x			total / cy	\$15.00	=	\$2,700.00
TB000	Topsoil	90 cy		x			total / cy	\$15.00	=	\$1,350.00
TB000	Steel Plate to cap Hot Tap	3 pieces		x	4.0000 =	12.00	total / sf	\$5.27	=	\$63.24
TB000	Misc. Materials	1 ls			10 %				=	<u>\$411.32</u>
										\$4,524.56
TF140	Land Damages	2		# of Digs	x	\$2,000.00 =				\$4,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Mississippi EGM - (13)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Mississippi EGM - (13)
 # Facilities : 13
 State : Mississippi
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 0
 # Meter Runs : 0
 Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	1,353
2.	ANR-PL MATERIALS		TB000	1,491
3.	CONSTRUCTION:		TC000	75,387
	a Mob		TC100	5,680
	b Meter Ancillary		TC200	69,707
	i) Remove Mechanical		TC210	11,360
	ii) Remove Site Work		TC220	34,080
	iii) Remove Electrical & Controls		TC230	19,880
	iiii) Remove Telecommunications		TC240	2,840
	v) Environmental	2.00 %	TC250	1,547
	vi) Remove Cathodic Protection		TC270	-
4.	ENGINEERING	2.25 %	TD000	1,740
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	2,320
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 84,291
9.	Contingency	10.00 %	TY000	8,429
10.	Sub-Total			92,720
11.	Overhead	4.00 %	TZ000	3,709
12.	Sub-Total			96,428
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			96,428
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 97,000

13 Station:

\$1,261,000

Removal - Interconnect Facilities - Mississippi EGM - (13)

Contract

\$11,360.00 Composite Crew Rate for Mississippi

12 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	0.5	\$5,680.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$5,680.00
TC210	Meter Building	0	\$0.00
TC210	Flow Control Building	0	\$0.00
Sub Total		0.5	\$5,680.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$2,840.00
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$2,840.00
TC220	Meter Skid	0	\$0.00
TC220	Flow Control Skid	0	\$0.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0	\$0.00
TC220	Concrete Platform (Near Shore Application)	0	\$0.00
Sub Total		0.5	\$5,680.00
Remove Site Improvements			
TC220	Fencing *	1	\$11,360.00
TC220	Yard Gravel *	1	\$11,360.00
Sub Total		2	\$22,720.00
Equipment			
TC210	Meter Runs	0	\$0.00
TC210	Flow Control Runs	0	\$0.00
TC210	Filter Separator	0	\$0.00
Sub Total		0	\$0.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$11,360.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0	\$0.00
TC210	Between Meter Skid > Flow Control, Including Headers	0	\$0.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections	0	\$0.00
Sub Total		1	\$11,360.00
Remove Above Ground Piping			
TC210	Rising Piping	0	\$0.00
TC210	At Meter Skid	0	\$0.00
TC210	At Flow Control Skid	0	\$0.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold	0	\$0.00
TC210	At Customer Connection	0	\$0.00
Sub Total		0	\$0.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$2,840.00
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$2,840.00

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 0

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob
0	1	60	1	0.5
1	1	80	1	1
2	1	100	1	1
3	1	120	1	1
4	1	140	2	1
5	2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$2,840.00			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$2,840.00			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$2,840.00			8	3	220	3	1
TC270	Cathodic Protection *	0	\$0.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$2,840.00			10	4	260	3	1
	Sub Total	1.5	\$17,040.00							
TC220	Install Dirt and Topsoil	0.5	\$5,680.00							
TC110	Demob	0	\$0.00							
TC000	Total	6.50	\$73,840.00							
	Materials									
TB000	Dirt for Landfill	60 cy		x			total / cy	\$15.00	=	\$900.00
TB000	Topsoil	30 cy		x			total / cy	\$15.00	=	\$450.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$135.53</u>
										\$1,490.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Mississippi - 4 Tube Meter Station (2)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Mississippi - 4 Tube Meter Station (2)
 # Facilities : 2
 State : Mississippi
 Hot Tap Size : 42
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 2
 # Meter Runs : 4
 Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	7,178
2.	ANR-PL MATERIALS		TB000	3,536
3.	CONSTRUCTION:		TC000	408,789
	a Mob		TC100	18,512
	b Meter Ancillary		TC200	390,277
	i) Remove Mechanical		TC210	194,376
	ii) Remove Site Work		TC220	148,096
	iii) Remove Electrical & Controls		TC230	32,396
	iiii) Remove Telecommunications		TC240	4,628
	v) Environmental	1.50 %	TC250	6,153
	vi) Remove Cathodic Protection		TC270	4,628
4.	ENGINEERING	2.25 %	TD000	9,229
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	12,305
6.	LAND - DAMAGES		TF000	4,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 445,037
9.	Contingency	10.00 %	TY000	44,504
10.	Sub-Total			489,540
11.	Overhead	4.00 %	TZ000	19,582
12.	Sub-Total			509,122
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			509,122
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 510,000

2 Station: \$1,020,000

Removal - Interconnect Facilities - Mississippi - 4 Tube Meter Station (2)

Contract

\$18,512.00 Composite Crew Rate for Mississippi

42 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$18,512.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$9,256.00
TC210	Meter Building	2	\$37,024.00
TC210	Flow Control Building	1	\$18,512.00
Sub Total		3.5	\$64,792.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$4,628.00
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$4,628.00
TC220	Meter Skid	2	\$37,024.00
TC220	Flow Control Skid	1	\$18,512.00
TC220	Filter Separator	1	\$18,512.00
TC220	Piping *	0.5	\$9,256.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		5	\$92,560.00
Remove Site Improvements			
TC220	Fencing *	1	\$18,512.00
TC220	Yard Gravel *	1	\$18,512.00
Sub Total		2	\$37,024.00
Equipment			
TC210	Meter Runs	2	\$37,024.00
TC210	Flow Control Runs	1	\$18,512.00
TC210	Filter Separator	0.5	\$9,256.00
Sub Total		3.5	\$64,792.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$18,512.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$9,256.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$9,256.00
TC210	Between Flow Control > Filter Separator	0.5	\$9,256.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$46,280.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$9,256.00
TC210	At Flow Control Skid	0.5	\$9,256.00
TC210	At Filter Separator	0.5	\$9,256.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$27,768.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$4,628.00
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$4,628.00

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 4

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$4,628.00			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$4,628.00			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$4,628.00			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$4,628.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$4,628.00			10	4	260	3	1
	Sub Total	1.75	\$32,396.00							
TC220	Install Dirt and Topsoil	1	\$18,512.00							
TC110	Demob	0	\$0.00							
TC000	Total	<u>21.75</u>	<u>\$402,636.00</u>							
	Materials									
TB000	Dirt for Landfill	140 cy		x			total / cy	\$15.00	=	\$2,100.00
TB000	Topsoil	70 cy		x			total / cy	\$15.00	=	\$1,050.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	12.2500 =	12.25	total / sf	\$5.27	=	\$64.56
TB000	Misc. Materials	1 ls			10 %				=	<u>\$321.46</u>
										\$3,536.01
TF140	Land Damages	2		# of Digs	x	\$2,000.00 =				\$4,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Missouri EGM - (12)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Missouri EGM - (12)
 # Facilities : 12
 State : Missouri
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 0
 # Meter Runs : 0
 Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	1,784
2.	ANR-PL MATERIALS		TB000	1,491
3.	CONSTRUCTION:		TC000	100,488
	a Mob		TC100	7,573
	b Meter Ancillary		TC200	92,915
	i) Remove Mechanical		TC210	15,146
	ii) Remove Site Work		TC220	45,438
	iii) Remove Electrical & Controls		TC230	26,506
	iiii) Remove Telecommunications		TC240	3,787
	v) Environmental	2.00 %	TC250	2,039
	vi) Remove Cathodic Protection		TC270	-
4.	ENGINEERING	2.25 %	TD000	2,294
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	3,058
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 111,114
9.	Contingency	10.00 %	TY000	11,111
10.	Sub-Total			122,226
11.	Overhead	4.00 %	TZ000	4,889
12.	Sub-Total			127,115
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			127,115
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 128,000

12 Station: \$1,536,000

Removal - Interconnect Facilities - Missouri EGM - (12)

Contract

\$15,146.00 Composite Crew Rate for Missouri

12 Line Size

		Days	Abandonment Crew
TC110	Mob	0.5	\$7,573.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$7,573.00
TC210	Meter Building	0	\$0.00
TC210	Flow Control Building	0	\$0.00
Sub Total		0.5	\$7,573.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$3,786.50
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$3,786.50
TC220	Meter Skid	0	\$0.00
TC220	Flow Control Skid	0	\$0.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0	\$0.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		0.5	\$7,573.00
Remove Site Improvements			
TC220	Fencing *	1	\$15,146.00
TC220	Yard Gravel *	1	\$15,146.00
Sub Total		2	\$30,292.00
Equipment			
TC210	Meter Runs	0	\$0.00
TC210	Flow Control Runs	0	\$0.00
TC210	Filter Separator	0	\$0.00
Sub Total		0	\$0.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$15,146.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0	\$0.00
TC210	Between Meter Skid > Flow Control, Including Headers	0	\$0.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		1	\$15,146.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0	\$0.00
TC210	At Flow Control Skid	0	\$0.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		0	\$0.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$3,786.50
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$3,786.50

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: **0.0%**

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 0

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob
0	1	60	1	0.5
1	1	80	1	1
2	1	100	1	1
3	1	120	1	1
4	1	140	2	1
5	2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$3,786.50			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$3,786.50			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$3,786.50			8	3	220	3	1
TC270	Cathodic Protection *	0	\$0.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$3,786.50			10	4	260	3	1
	Sub Total	1.5	\$22,719.00							
TC220	Install Dirt and Topsoil	0.5	\$7,573.00							
TC110	Demob	0	\$0.00							
TC000	Total	6.50	\$98,449.00							
	Materials									
TB000	Dirt for Landfill	60 cy		x			total / cy	\$15.00	=	\$900.00
TB000	Topsoil	30 cy		x			total / cy	\$15.00	=	\$450.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$135.53</u>
										\$1,490.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Missouri - 1 Tube Meter Station (14)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Missouri - 1 Tube Meter Station (14)
 # Facilities : 14
 State : Missouri
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 1
 # Meter Runs : 1
 Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	6,117
2.	ANR-PL MATERIALS		TB000	1,986
3.	CONSTRUCTION:		TC000	350,791
	a Mob		TC100	24,682
	b Meter Ancillary		TC200	326,109
	i) Remove Mechanical		TC210	129,581
	ii) Remove Site Work		TC220	135,751
	iii) Remove Electrical & Controls		TC230	43,194
	iiii) Remove Telecommunications		TC240	6,171
	v) Environmental	1.50 %	TC250	5,243
	vi) Remove Cathodic Protection		TC270	6,171
4.	ENGINEERING	2.25 %	TD000	7,865
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	10,486
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 379,244
9.	Contingency	10.00 %	TY000	37,924
10.	Sub-Total			417,169
11.	Overhead	4.00 %	TZ000	16,687
12.	Sub-Total			433,855
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			433,855
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 434,000

14 Station:

\$6,076,000

Removal - Interconnect Facilities - Missouri - 1 Tube Meter Station (14)

Contract

\$24,682.00 Composite Crew Rate for Missouri

12 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	1	\$24,682.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$12,341.00
TC210	Meter Building	1	\$24,682.00
TC210	Flow Control Building	0.5	\$12,341.00
Sub Total		2	\$49,364.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$6,170.50
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$6,170.50
TC220	Meter Skid	1	\$24,682.00
TC220	Flow Control Skid	0.5	\$12,341.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0.5	\$12,341.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		2.5	\$61,705.00
Remove Site Improvements			
TC220	Fencing *	1	\$24,682.00
TC220	Yard Gravel *	1	\$24,682.00
Sub Total		2	\$49,364.00
Equipment			
TC210	Meter Runs	0.5	\$12,341.00
TC210	Flow Control Runs	0.25	\$6,170.50
TC210	Filter Separator	0	\$0.00
Sub Total		0.75	\$18,511.50
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$24,682.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$12,341.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$12,341.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2	\$49,364.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$12,341.00
TC210	At Flow Control Skid	0.5	\$12,341.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1	\$24,682.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$6,170.50
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$6,170.50

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 1

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$6,170.50			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$6,170.50			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$6,170.50			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$6,170.50			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$6,170.50			10	4	260	3	1
	Sub Total	1.75	\$43,193.50							
TC220	Install Dirt and Topsoil	1	\$24,682.00							
TC110	Demob	0	\$0.00							
TC000	Total	14.00	\$345,548.00							
	Materials									
TB000	Dirt for Landfill	80 cy		x			total / cy	\$15.00	=	\$1,200.00
TB000	Topsoil	40 cy		x			total / cy	\$15.00	=	\$600.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$180.53</u>
										\$1,985.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =				\$2,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Missouri - 3 Tube Meter Station (1)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Missouri - 3 Tube Meter Station (1)
 # Facilities : 1
 State : Missouri
 Hot Tap Size : 30
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 1
 # Meter Runs : 3
 Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	7,862
2.	ANR-PL MATERIALS		TB000	3,006
3.	CONSTRUCTION:		TC000	451,015
	a Mob		TC100	24,682
	b Meter Ancillary		TC200	426,333
	i) Remove Mechanical		TC210	203,627
	ii) Remove Site Work		TC220	160,433
	iii) Remove Electrical & Controls		TC230	43,194
	iiii) Remove Telecommunications		TC240	6,171
	v) Environmental	1.50 %	TC250	6,739
	vi) Remove Cathodic Protection		TC270	6,171
4.	ENGINEERING	2.25 %	TD000	10,109
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	13,478
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 487,471
9.	Contingency	10.00 %	TY000	48,747
10.	Sub-Total			536,218
11.	Overhead	4.00 %	TZ000	21,449
12.	Sub-Total			557,667
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			557,667
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 558,000

1 Station: \$558,000

Removal - Interconnect Facilities - Missouri - 3 Tube Meter Station (1)

Contract

\$24,682.00 Composite Crew Rate for Missouri

30 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	1	\$24,682.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$12,341.00
TC210	Meter Building	1	\$24,682.00
TC210	Flow Control Building	0.5	\$12,341.00
Sub Total		2	\$49,364.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$6,170.50
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$6,170.50
TC220	Meter Skid	1	\$24,682.00
TC220	Flow Control Skid	0.5	\$12,341.00
TC220	Filter Separator	1	\$24,682.00
TC220	Piping *	0.5	\$12,341.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		3.5	\$86,387.00
Remove Site Improvements			
TC220	Fencing *	1	\$24,682.00
TC220	Yard Gravel *	1	\$24,682.00
Sub Total		2	\$49,364.00
Equipment			
TC210	Meter Runs	1.5	\$37,023.00
TC210	Flow Control Runs	0.75	\$18,511.50
TC210	Filter Separator	0.5	\$12,341.00
Sub Total		2.75	\$67,875.50
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$24,682.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$12,341.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$12,341.00
TC210	Between Flow Control > Filter Separator	0.5	\$12,341.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$61,705.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$12,341.00
TC210	At Flow Control Skid	0.5	\$12,341.00
TC210	At Filter Separator	0.5	\$12,341.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$37,023.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$6,170.50
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$6,170.50

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: **0.0%**

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 3

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$6,170.50			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$6,170.50			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$6,170.50			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$6,170.50			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$6,170.50			10	4	260	3	1
	Sub Total	1.75	\$43,193.50							
TC220	Install Dirt and Topsoil	1	\$24,682.00							
TC110	Demob	0	\$0.00							
TC000	Total	18.00	\$444,276.00							
	Materials									
TB000	Dirt for Landfill	120 cy		x			total / cy	\$15.00	=	\$1,800.00
TB000	Topsoil	60 cy		x			total / cy	\$15.00	=	\$900.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	6.2500 =	6.25	total / sf	\$5.27	=	\$32.94
TB000	Misc. Materials	1 ls			10 %				=	<u>\$273.29</u>
										\$3,006.23
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Ohio EGM - (5)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Ohio EGM - (5)
 # Facilities : 5
 State : Ohio
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 0
 # Meter Runs : 0
 Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	1,605
2.	ANR-PL MATERIALS		TB000	1,491
3.	CONSTRUCTION:		TC000	90,032
	a Mob		TC100	6,785
	b Meter Ancillary		TC200	83,248
	i) Remove Mechanical		TC210	13,569
	ii) Remove Site Work		TC220	40,707
	iii) Remove Electrical & Controls		TC230	23,746
	iiii) Remove Telecommunications		TC240	3,392
	v) Environmental	2.00 %	TC250	1,834
	vi) Remove Cathodic Protection		TC270	-
4.	ENGINEERING	2.25 %	TD000	2,063
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	2,751
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 99,941
9.	Contingency	10.00 %	TY000	9,994
10.	Sub-Total			109,935
11.	Overhead	4.00 %	TZ000	4,397
12.	Sub-Total			114,333
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			114,333
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 115,000

5 Station: \$575,000

Removal - Interconnect Facilities - Ohio EGM - (5)

Contract

\$13,569.00 Composite Crew Rate for Ohio

12 Line Size

2015 IFRS Crew Rate:

2009 IFRS Cre

	Labor	Days	Abandonment Crew
TC110	Mob	0.5	\$6,784.50
Remove Buildings			
TC230	Valtronic Building *	0.5	\$6,784.50
TC210	Meter Building	0	\$0.00
TC210	Flow Control Building	0	\$0.00
Sub Total		0.5	\$6,784.50
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$3,392.25
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$3,392.25
TC220	Meter Skid	0	\$0.00
TC220	Flow Control Skid	0	\$0.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0	\$0.00
TC220	Concrete Platform (Near Shore Application)	0	\$0.00
Sub Total		0.5	\$6,784.50
Remove Site Improvements			
TC220	Fencing *	1	\$13,569.00
TC220	Yard Gravel *	1	\$13,569.00
Sub Total		2	\$27,138.00
Equipment			
TC210	Meter Runs	0	\$0.00
TC210	Flow Control Runs	0	\$0.00
TC210	Filter Separator	0	\$0.00
Sub Total		0	\$0.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$13,569.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0	\$0.00
TC210	Between Meter Skid > Flow Control, Including Headers	0	\$0.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections	0	\$0.00
Sub Total		1	\$13,569.00
Remove Above Ground Piping			
TC210	Rising Piping	0	\$0.00
TC210	At Meter Skid	0	\$0.00
TC210	At Flow Control Skid	0	\$0.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold	0	\$0.00
TC210	At Customer Connection	0	\$0.00
Sub Total		0	\$0.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$3,392.25
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$3,392.25

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 0

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob
0	1	60	1	0.5
1	1	80	1	1
2	1	100	1	1
3	1	120	1	1
4	1	140	2	1
5	2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$3,392.25			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$3,392.25			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$3,392.25			8	3	220	3	1
TC270	Cathodic Protection *	0	\$0.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$3,392.25			10	4	260	3	1
	Sub Total	1.5	\$20,353.50							
TC220	Install Dirt and Topsoil	0.5	\$6,784.50							
TC110	Demob	0	\$0.00							
TC000	Total	<u>6.50</u>	<u>\$88,198.50</u>							
	Materials									
TB000	Dirt for Landfill	60 cy		x			total / cy	\$15.00	=	\$900.00
TB000	Topsoil	30 cy		x			total / cy	\$15.00	=	\$450.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$135.53</u>
										\$1,490.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Ohio - 1 Tube Meter Station (11)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Ohio - 1 Tube Meter Station (11)
 # Facilities : 11
 State : Ohio
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 1
 # Meter Runs : 1
 Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	5,487
2.	ANR-PL MATERIALS		TB000	1,986
3.	CONSTRUCTION:		TC000	314,271
	a Mob		TC100	22,112
	b Meter Ancillary		TC200	292,159
	i) Remove Mechanical		TC210	116,088
	ii) Remove Site Work		TC220	121,616
	iii) Remove Electrical & Controls		TC230	38,696
	iiii) Remove Telecommunications		TC240	5,528
	v) Environmental	1.50 %	TC250	4,703
	vi) Remove Cathodic Protection		TC270	5,528
4.	ENGINEERING	2.25 %	TD000	7,055
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	9,407
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 340,206
9.	Contingency	10.00 %	TY000	34,021
10.	Sub-Total			374,226
11.	Overhead	4.00 %	TZ000	14,969
12.	Sub-Total			389,196
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			389,196
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 390,000

11 Station: \$4,290,000

Removal - Interconnect Facilities - Ohio - 1 Tube Meter Station (11)

Contract

\$22,112.00 Composite Crew Rate for Ohio

12 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$22,112.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$11,056.00
TC210	Meter Building	1	\$22,112.00
TC210	Flow Control Building	0.5	\$11,056.00
Sub Total		2	\$44,224.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,528.00
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,528.00
TC220	Meter Skid	1	\$22,112.00
TC220	Flow Control Skid	0.5	\$11,056.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0.5	\$11,056.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		2.5	\$55,280.00
Remove Site Improvements			
TC220	Fencing *	1	\$22,112.00
TC220	Yard Gravel *	1	\$22,112.00
Sub Total		2	\$44,224.00
Equipment			
TC210	Meter Runs	0.5	\$11,056.00
TC210	Flow Control Runs	0.25	\$5,528.00
TC210	Filter Separator	0	\$0.00
Sub Total		0.75	\$16,584.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$22,112.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$11,056.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$11,056.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2	\$44,224.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$11,056.00
TC210	At Flow Control Skid	0.5	\$11,056.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1	\$22,112.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,528.00
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,528.00

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: **0.0%**

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 1

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,528.00			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,528.00			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,528.00			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,528.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,528.00			10	4	260	3	1
	Sub Total	1.75	\$38,696.00							
TC220	Install Dirt and Topsoil	1	\$22,112.00							
TC110	Demob	0	\$0.00							
TC000	Total	14.00	\$309,568.00							
	Materials									
TB000	Dirt for Landfill	80 cy		x			total / cy	\$15.00	=	\$1,200.00
TB000	Topsoil	40 cy		x			total / cy	\$15.00	=	\$600.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$180.53</u>
										\$1,985.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =				\$2,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Ohio - 2 Tube Meter Station (10)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Ohio - 2 Tube Meter Station (10)
 # Facilities : 10
 State : Ohio
 Hot Tap Size : 16
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 1
 # Meter Runs : 2
 Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	6,754
2.	ANR-PL MATERIALS		TB000	2,485
3.	CONSTRUCTION:		TC000	387,221
	a Mob		TC100	22,112
	b Meter Ancillary		TC200	365,109
	i) Remove Mechanical		TC210	165,840
	ii) Remove Site Work		TC220	143,728
	iii) Remove Electrical & Controls		TC230	38,696
	iiii) Remove Telecommunications		TC240	5,528
	v) Environmental	1.50 %	TC250	5,789
	vi) Remove Cathodic Protection		TC270	5,528
4.	ENGINEERING	2.25 %	TD000	8,683
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	11,578
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 418,720
9.	Contingency	10.00 %	TY000	41,872
10.	Sub-Total			460,592
11.	Overhead	4.00 %	TZ000	18,424
12.	Sub-Total			479,016
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			479,016
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 480,000

10 Station: \$4,800,000

Removal - Interconnect Facilities - Ohio - 2 Tube Meter Station (10)

Contract

\$22,112.00 Composite Crew Rate for Ohio

16 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$22,112.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$11,056.00
TC210	Meter Building	1	\$22,112.00
TC210	Flow Control Building	0.5	\$11,056.00
Sub Total		2	\$44,224.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,528.00
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,528.00
TC220	Meter Skid	1	\$22,112.00
TC220	Flow Control Skid	0.5	\$11,056.00
TC220	Filter Separator	1	\$22,112.00
TC220	Piping *	0.5	\$11,056.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		3.5	\$77,392.00
Remove Site Improvements			
TC220	Fencing *	1	\$22,112.00
TC220	Yard Gravel *	1	\$22,112.00
Sub Total		2	\$44,224.00
Equipment			
TC210	Meter Runs	1	\$22,112.00
TC210	Flow Control Runs	0.5	\$11,056.00
TC210	Filter Separator	0.5	\$11,056.00
Sub Total		2	\$44,224.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$22,112.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$11,056.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$11,056.00
TC210	Between Flow Control > Filter Separator	0.5	\$11,056.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$55,280.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$11,056.00
TC210	At Flow Control Skid	0.5	\$11,056.00
TC210	At Filter Separator	0.5	\$11,056.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$33,168.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,528.00
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,528.00

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 2

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,528.00			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,528.00			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,528.00			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,528.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,528.00			10	4	260	3	1
	Sub Total	1.75	\$38,696.00							
TC220	Install Dirt and Topsoil	1	\$22,112.00							
TC110	Demob	0	\$0.00							
TC000	Total	<u>17.25</u>	<u>\$381,432.00</u>							
	Materials									
TB000	Dirt for Landfill	100 cy		x			total / cy	\$15.00	=	\$1,500.00
TB000	Topsoil	50 cy		x			total / cy	\$15.00	=	\$750.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.7778 =	1.78	total / sf	\$5.27	=	\$9.37
TB000	Misc. Materials	1 ls			10 %				=	<u>\$225.94</u>
										\$2,485.31
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Ohio - 3 Tube Meter Station (4)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Ohio - 3 Tube Meter Station (4)
 # Facilities : 4
 State : Ohio
 Hot Tap Size : 30
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 1
 # Meter Runs : 3
 Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	7,053
2.	ANR-PL MATERIALS		TB000	3,006
3.	CONSTRUCTION:		TC000	404,061
	a Mob		TC100	22,112
	b Meter Ancillary		TC200	381,949
	i) Remove Mechanical		TC210	182,424
	ii) Remove Site Work		TC220	143,728
	iii) Remove Electrical & Controls		TC230	38,696
	iiii) Remove Telecommunications		TC240	5,528
	v) Environmental	1.50 %	TC250	6,045
	vi) Remove Cathodic Protection		TC270	5,528
4.	ENGINEERING	2.25 %	TD000	9,068
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	12,091
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 437,279
9.	Contingency	10.00 %	TY000	43,728
10.	Sub-Total			481,007
11.	Overhead	4.00 %	TZ000	19,240
12.	Sub-Total			500,247
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			500,247
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 501,000

4 Station: \$2,004,000

Removal - Interconnect Facilities - Ohio - 3 Tube Meter Station (4)

Contract

\$22,112.00 Composite Crew Rate for Ohio

30 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$22,112.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$11,056.00
TC210	Meter Building	1	\$22,112.00
TC210	Flow Control Building	0.5	\$11,056.00
Sub Total		2	\$44,224.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,528.00
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,528.00
TC220	Meter Skid	1	\$22,112.00
TC220	Flow Control Skid	0.5	\$11,056.00
TC220	Filter Separator	1	\$22,112.00
TC220	Piping *	0.5	\$11,056.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		3.5	\$77,392.00
Remove Site Improvements			
TC220	Fencing *	1	\$22,112.00
TC220	Yard Gravel *	1	\$22,112.00
Sub Total		2	\$44,224.00
Equipment			
TC210	Meter Runs	1.5	\$33,168.00
TC210	Flow Control Runs	0.75	\$16,584.00
TC210	Filter Separator	0.5	\$11,056.00
Sub Total		2.75	\$60,808.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$22,112.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$11,056.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$11,056.00
TC210	Between Flow Control > Filter Separator	0.5	\$11,056.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$55,280.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$11,056.00
TC210	At Flow Control Skid	0.5	\$11,056.00
TC210	At Filter Separator	0.5	\$11,056.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$33,168.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,528.00
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,528.00

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 3

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,528.00			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,528.00			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,528.00			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,528.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,528.00			10	4	260	3	1
	Sub Total	1.75	\$38,696.00							
TC220	Install Dirt and Topsoil	1	\$22,112.00							
TC110	Demob	0	\$0.00							
TC000	Total	18.00	\$398,016.00							
	Materials									
TB000	Dirt for Landfill	120 cy		x			total / cy	\$15.00	=	\$1,800.00
TB000	Topsoil	60 cy		x			total / cy	\$15.00	=	\$900.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	6.2500 =	6.25	total / sf	\$5.27	=	\$32.94
TB000	Misc. Materials	1 ls			10 %				=	<u>\$273.29</u>
										\$3,006.23
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =				\$2,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Ohio - 4 Tube Meter Station (1)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Ohio - 4 Tube Meter Station (1)
 # Facilities : 1
 State : Ohio
 Hot Tap Size : 42
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 2
 # Meter Runs : 4
 Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	8,548
2.	ANR-PL MATERIALS		TB000	3,536
3.	CONSTRUCTION:		TC000	488,263
	a Mob		TC100	22,112
	b Meter Ancillary		TC200	466,151
	i) Remove Mechanical		TC210	232,176
	ii) Remove Site Work		TC220	176,896
	iii) Remove Electrical & Controls		TC230	38,696
	iiii) Remove Telecommunications		TC240	5,528
	v) Environmental	1.50 %	TC250	7,327
	vi) Remove Cathodic Protection		TC270	5,528
4.	ENGINEERING	2.25 %	TD000	10,991
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	14,654
6.	LAND - DAMAGES		TF000	4,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 529,992
9.	Contingency	10.00 %	TY000	52,999
10.	Sub-Total			582,991
11.	Overhead	4.00 %	TZ000	23,320
12.	Sub-Total			606,311
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			606,311
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 607,000

1 Station: \$607,000

Removal - Interconnect Facilities - Ohio - 4 Tube Meter Station (1)

Contract

\$22,112.00 Composite Crew Rate for Ohio

42 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$22,112.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$11,056.00
TC210	Meter Building	2	\$44,224.00
TC210	Flow Control Building	1	\$22,112.00
Sub Total		3.5	\$77,392.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,528.00
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,528.00
TC220	Meter Skid	2	\$44,224.00
TC220	Flow Control Skid	1	\$22,112.00
TC220	Filter Separator	1	\$22,112.00
TC220	Piping *	0.5	\$11,056.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		5	\$110,560.00
Remove Site Improvements			
TC220	Fencing *	1	\$22,112.00
TC220	Yard Gravel *	1	\$22,112.00
Sub Total		2	\$44,224.00
Equipment			
TC210	Meter Runs	2	\$44,224.00
TC210	Flow Control Runs	1	\$22,112.00
TC210	Filter Separator	0.5	\$11,056.00
Sub Total		3.5	\$77,392.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$22,112.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$11,056.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$11,056.00
TC210	Between Flow Control > Filter Separator	0.5	\$11,056.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$55,280.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$11,056.00
TC210	At Flow Control Skid	0.5	\$11,056.00
TC210	At Filter Separator	0.5	\$11,056.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$33,168.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,528.00
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,528.00

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 4

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,528.00			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,528.00			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,528.00			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,528.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,528.00			10	4	260	3	1
	Sub Total	1.75	\$38,696.00							
TC220	Install Dirt and Topsoil	1	\$22,112.00							
TC110	Demob	0	\$0.00							
TC000	Total	<u>21.75</u>	<u>\$480,936.00</u>							
	Materials									
TB000	Dirt for Landfill	140 cy		x			total / cy	\$15.00	=	\$2,100.00
TB000	Topsoil	70 cy		x			total / cy	\$15.00	=	\$1,050.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	12.2500 =	12.25	total / sf	\$5.27	=	\$64.56
TB000	Misc. Materials	1 ls			10 %				=	<u>\$321.46</u>
										\$3,536.01
TF140	Land Damages	2		# of Digs	x	\$2,000.00 =				\$4,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Ohio - 5 Tube Meter Station (3)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Ohio - 5 Tube Meter Station (3)
 # Facilities : 3
 State : Ohio
 Hot Tap Size : 30
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 2
 # Meter Runs : 5
 Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	9,234
2.	ANR-PL MATERIALS		TB000	4,032
3.	CONSTRUCTION:		TC000	527,547
	a Mob		TC100	22,112
	b Meter Ancillary		TC200	505,435
	i) Remove Mechanical		TC210	270,872
	ii) Remove Site Work		TC220	176,896
	iii) Remove Electrical & Controls		TC230	38,696
	iiii) Remove Telecommunications		TC240	5,528
	v) Environmental	1.50 %	TC250	7,915
	vi) Remove Cathodic Protection		TC270	5,528
4.	ENGINEERING	2.25 %	TD000	11,872
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	15,830
6.	LAND - DAMAGES		TF000	4,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 572,516
9.	Contingency	10.00 %	TY000	57,252
10.	Sub-Total			629,768
11.	Overhead	4.00 %	TZ000	25,191
12.	Sub-Total			654,958
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			654,958
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 655,000

3 Station: \$1,965,000

Removal - Interconnect Facilities - Ohio - 5 Tube Meter Station (3)

Contract

\$22,112.00 Composite Crew Rate for Ohio

30 Line Size

2015 IFRS Crew Rate:

2009 IFRS Cre

		Days	Abandonment Crew
TC110	Mob	1	\$22,112.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$11,056.00
TC210	Meter Building	2	\$44,224.00
TC210	Flow Control Building	1	\$22,112.00
Sub Total		3.5	\$77,392.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,528.00
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,528.00
TC220	Meter Skid	2	\$44,224.00
TC220	Flow Control Skid	1	\$22,112.00
TC220	Filter Separator	1	\$22,112.00
TC220	Piping *	0.5	\$11,056.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		5	\$110,560.00
Remove Site Improvements			
TC220	Fencing *	1	\$22,112.00
TC220	Yard Gravel *	1	\$22,112.00
Sub Total		2	\$44,224.00
Equipment			
TC210	Meter Runs	2.5	\$55,280.00
TC210	Flow Control Runs	1.25	\$27,640.00
TC210	Filter Separator	0.5	\$11,056.00
Sub Total		4.25	\$93,976.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	2	\$44,224.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$11,056.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$11,056.00
TC210	Between Flow Control > Filter Separator	0.5	\$11,056.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		3.5	\$77,392.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$11,056.00
TC210	At Flow Control Skid	0.5	\$11,056.00
TC210	At Filter Separator	0.5	\$11,056.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$33,168.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,528.00
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,528.00

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: **0.0%**

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 5

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,528.00			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,528.00			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,528.00			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,528.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,528.00			10	4	260	3	1
	Sub Total	1.75	\$38,696.00							
TC220	Install Dirt and Topsoil	1	\$22,112.00							
TC110	Demob	0	\$0.00							
TC000	Total	23.50	\$519,632.00							
	Materials									
TB000	Dirt for Landfill	160 cy		x			total / cy	\$15.00	=	\$2,400.00
TB000	Topsoil	80 cy		x			total / cy	\$15.00	=	\$1,200.00
TB000	Steel Plate to cap Hot Tap	2 pieces		x	6.2500 =	12.50	total / sf	\$5.27	=	\$65.88
TB000	Misc. Materials	1 ls			10 %				=	<u>\$366.59</u>
										\$4,032.46
TF140	Land Damages	2		# of Digs	x	\$2,000.00 =				\$4,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Ohio - 9 Tube Meter Station (1)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Ohio - 9 Tube Meter Station (1)
 # Facilities : 1
 State : Ohio
 Hot Tap Size : 26
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 3
 # Meter Runs : 9
 Filter Separator : 3

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	13,948
2.	ANR-PL MATERIALS		TB000	6,049
3.	CONSTRUCTION:		TC000	796,931
	a Mob		TC100	22,112
	b Meter Ancillary		TC200	774,819
	i) Remove Mechanical		TC210	458,824
	ii) Remove Site Work		TC220	254,288
	iii) Remove Electrical & Controls		TC230	38,696
	iiii) Remove Telecommunications		TC240	5,528
	v) Environmental	1.50 %	TC250	11,955
	vi) Remove Cathodic Protection		TC270	5,528
4.	ENGINEERING	2.25 %	TD000	17,933
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	23,911
6.	LAND - DAMAGES		TF000	6,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 864,772
9.	Contingency	10.00 %	TY000	86,477
10.	Sub-Total			951,249
11.	Overhead	4.00 %	TZ000	38,050
12.	Sub-Total			989,299
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			989,299
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 990,000

1 Station: \$990,000

Removal - Interconnect Facilities - Ohio - 9 Tube Meter Station (1)

Contract

\$22,112.00 Composite Crew Rate for Ohio

26 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$22,112.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$11,056.00
TC210	Meter Building	3	\$66,336.00
TC210	Flow Control Building	1.5	\$33,168.00
Sub Total		5	\$110,560.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,528.00
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,528.00
TC220	Meter Skid	3	\$66,336.00
TC220	Flow Control Skid	1.5	\$33,168.00
TC220	Filter Separator	3	\$66,336.00
TC220	Piping *	0.5	\$11,056.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		8.5	\$187,952.00
Remove Site Improvements			
TC220	Fencing *	1	\$22,112.00
TC220	Yard Gravel *	1	\$22,112.00
Sub Total		2	\$44,224.00
Equipment			
TC210	Meter Runs	4.5	\$99,504.00
TC210	Flow Control Runs	2.25	\$49,752.00
TC210	Filter Separator	1.5	\$33,168.00
Sub Total		8.25	\$182,424.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	4	\$88,448.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$11,056.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$11,056.00
TC210	Between Flow Control > Filter Separator	0.5	\$11,056.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		5.5	\$121,616.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$11,056.00
TC210	At Flow Control Skid	0.5	\$11,056.00
TC210	At Filter Separator	1.5	\$33,168.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		2.5	\$55,280.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,528.00
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,528.00

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 9

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,528.00			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,528.00			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,528.00			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,528.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,528.00			10	4	260	3	1
	Sub Total	1.75	\$38,696.00							
TC220	Install Dirt and Topsoil	1	\$22,112.00							
TC110	Demob	0	\$0.00							
TC000	Total	35.50	\$784,976.00							
	Materials									
TB000	Dirt for Landfill	240 cy		x			total / cy	\$15.00	=	\$3,600.00
TB000	Topsoil	120 cy		x			total / cy	\$15.00	=	\$1,800.00
TB000	Steel Plate to cap Hot Tap	4 pieces		x	4.6944 =	18.78	total / sf	\$5.27	=	\$98.96
TB000	Misc. Materials	1 ls			10 %				=	<u>\$549.90</u>
										\$6,048.85
TF140	Land Damages	3		# of Digs	x	\$2,000.00 =				\$6,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Oklahoma EGM - (25)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Oklahoma EGM - (25)
 # Facilities : 25
 State : Oklahoma
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 0
 # Meter Runs : 0
 Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	1,437
2.	ANR-PL MATERIALS		TB000	1,491
3.	CONSTRUCTION:		TC000	80,266
	a Mob		TC100	6,048
	b Meter Ancillary		TC200	74,218
	i) Remove Mechanical		TC210	12,096
	ii) Remove Site Work		TC220	36,288
	iii) Remove Electrical & Controls		TC230	21,168
	iiii) Remove Telecommunications		TC240	3,024
	v) Environmental	2.00 %	TC250	1,642
	vi) Remove Cathodic Protection		TC270	-
4.	ENGINEERING	2.25 %	TD000	1,848
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	2,463
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 89,505
9.	Contingency	10.00 %	TY000	8,951
10.	Sub-Total			98,456
11.	Overhead	4.00 %	TZ000	3,938
12.	Sub-Total			102,394
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			102,394
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 103,000

25 Station: \$2,575,000

Removal - Interconnect Facilities - Oklahoma EGM - (25)

Contract

\$12,096.00 Composite Crew Rate for Oklahoma

12 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	0.5	\$6,048.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$6,048.00
TC210	Meter Building	0	\$0.00
TC210	Flow Control Building	0	\$0.00
Sub Total		0.5	\$6,048.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$3,024.00
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$3,024.00
TC220	Meter Skid	0	\$0.00
TC220	Flow Control Skid	0	\$0.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0	\$0.00
TC220	Concrete Platform (Near Shore Application)	0	\$0.00
Sub Total		0.5	\$6,048.00
Remove Site Improvements			
TC220	Fencing *	1	\$12,096.00
TC220	Yard Gravel *	1	\$12,096.00
Sub Total		2	\$24,192.00
Equipment			
TC210	Meter Runs	0	\$0.00
TC210	Flow Control Runs	0	\$0.00
TC210	Filter Separator	0	\$0.00
Sub Total		0	\$0.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$12,096.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0	\$0.00
TC210	Between Meter Skid > Flow Control, Including Headers	0	\$0.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections	0	\$0.00
Sub Total		1	\$12,096.00
Remove Above Ground Piping			
TC210	Rising Piping	0	\$0.00
TC210	At Meter Skid	0	\$0.00
TC210	At Flow Control Skid	0	\$0.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold	0	\$0.00
TC210	At Customer Connection	0	\$0.00
Sub Total		0	\$0.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$3,024.00
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$3,024.00

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 0

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob
0	1	60	1	0.5
1	1	80	1	1
2	1	100	1	1
3	1	120	1	1
4	1	140	2	1
5	2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$3,024.00			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$3,024.00			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$3,024.00			8	3	220	3	1
TC270	Cathodic Protection *	0	\$0.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$3,024.00			10	4	260	3	1
	Sub Total	1.5	\$18,144.00							
TC220	Install Dirt and Topsoil	0.5	\$6,048.00							
TC110	Demob	0	\$0.00							
TC000	Total	6.50	\$78,624.00							
	Materials									
TB000	Dirt for Landfill	60 cy		x			total / cy	\$15.00	=	\$900.00
TB000	Topsoil	30 cy		x			total / cy	\$15.00	=	\$450.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$135.53</u>
										\$1,490.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Oklahoma - 1 Tube Meter Station (6)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Oklahoma - 1 Tube Meter Station (6)
 # Facilities : 6
 State : Oklahoma
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 1
 # Meter Runs : 1
 Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	4,899
2.	ANR-PL MATERIALS		TB000	1,986
3.	CONSTRUCTION:		TC000	280,167
	a Mob		TC100	19,712
	b Meter Ancillary		TC200	260,455
	i) Remove Mechanical		TC210	103,488
	ii) Remove Site Work		TC220	108,416
	iii) Remove Electrical & Controls		TC230	34,496
	iiii) Remove Telecommunications		TC240	4,928
	v) Environmental	1.50 %	TC250	4,199
	vi) Remove Cathodic Protection		TC270	4,928
4.	ENGINEERING	2.25 %	TD000	6,299
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	8,399
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 303,750
9.	Contingency	10.00 %	TY000	30,375
10.	Sub-Total			334,125
11.	Overhead	4.00 %	TZ000	13,365
12.	Sub-Total			347,490
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			347,490
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 348,000

6 Station: \$2,088,000

Removal - Interconnect Facilities - Oklahoma - 1 Tube Meter Station (6)

Contract

\$19,712.00 Composite Crew Rate for Oklahoma

12 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	1	\$19,712.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$9,856.00
TC210	Meter Building	1	\$19,712.00
TC210	Flow Control Building	0.5	\$9,856.00
Sub Total		2	\$39,424.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$4,928.00
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$4,928.00
TC220	Meter Skid	1	\$19,712.00
TC220	Flow Control Skid	0.5	\$9,856.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0.5	\$9,856.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		2.5	\$49,280.00
Remove Site Improvements			
TC220	Fencing *	1	\$19,712.00
TC220	Yard Gravel *	1	\$19,712.00
Sub Total		2	\$39,424.00
Equipment			
TC210	Meter Runs	0.5	\$9,856.00
TC210	Flow Control Runs	0.25	\$4,928.00
TC210	Filter Separator	0	\$0.00
Sub Total		0.75	\$14,784.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$19,712.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$9,856.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$9,856.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2	\$39,424.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$9,856.00
TC210	At Flow Control Skid	0.5	\$9,856.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1	\$19,712.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$4,928.00
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$4,928.00

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 1

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$4,928.00			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$4,928.00			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$4,928.00			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$4,928.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$4,928.00			10	4	260	3	1
	Sub Total	1.75	\$34,496.00							
TC220	Install Dirt and Topsoil	1	\$19,712.00							
TC110	Demob	0	\$0.00							
TC000	Total	14.00	\$275,968.00							
	Materials									
TB000	Dirt for Landfill	80 cy		x			total / cy	\$15.00	=	\$1,200.00
TB000	Topsoil	40 cy		x			total / cy	\$15.00	=	\$600.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$180.53</u>
										\$1,985.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =				\$2,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Oklahoma - 2 Tube Meter Station (6)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Oklahoma - 2 Tube Meter Station (6)
 # Facilities : 6
 State : Oklahoma
 Hot Tap Size : 16
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 1
 # Meter Runs : 2
 Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	6,029
2.	ANR-PL MATERIALS		TB000	2,485
3.	CONSTRUCTION:		TC000	345,200
	a Mob		TC100	19,712
	b Meter Ancillary		TC200	325,488
	i) Remove Mechanical		TC210	147,840
	ii) Remove Site Work		TC220	128,128
	iii) Remove Electrical & Controls		TC230	34,496
	iiii) Remove Telecommunications		TC240	4,928
	v) Environmental	1.50 %	TC250	5,168
	vi) Remove Cathodic Protection		TC270	4,928
4.	ENGINEERING	2.25 %	TD000	7,752
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	10,336
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 373,801
9.	Contingency	10.00 %	TY000	37,380
10.	Sub-Total			411,181
11.	Overhead	4.00 %	TZ000	16,447
12.	Sub-Total			427,629
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			427,629
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 428,000

6 Station: \$2,568,000

Removal - Interconnect Facilities - Oklahoma - 2 Tube Meter Station (6)

Contract

\$19,712.00 Composite Crew Rate for Oklahoma

16 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$19,712.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$9,856.00
TC210	Meter Building	1	\$19,712.00
TC210	Flow Control Building	0.5	\$9,856.00
Sub Total		2	\$39,424.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$4,928.00
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$4,928.00
TC220	Meter Skid	1	\$19,712.00
TC220	Flow Control Skid	0.5	\$9,856.00
TC220	Filter Separator	1	\$19,712.00
TC220	Piping *	0.5	\$9,856.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		3.5	\$68,992.00
Remove Site Improvements			
TC220	Fencing *	1	\$19,712.00
TC220	Yard Gravel *	1	\$19,712.00
Sub Total		2	\$39,424.00
Equipment			
TC210	Meter Runs	1	\$19,712.00
TC210	Flow Control Runs	0.5	\$9,856.00
TC210	Filter Separator	0.5	\$9,856.00
Sub Total		2	\$39,424.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$19,712.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$9,856.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$9,856.00
TC210	Between Flow Control > Filter Separator	0.5	\$9,856.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$49,280.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$9,856.00
TC210	At Flow Control Skid	0.5	\$9,856.00
TC210	At Filter Separator	0.5	\$9,856.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$29,568.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$4,928.00
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$4,928.00

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 2

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$4,928.00			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$4,928.00			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$4,928.00			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$4,928.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$4,928.00			10	4	260	3	1
	Sub Total	1.75	\$34,496.00							
TC220	Install Dirt and Topsoil	1	\$19,712.00							
TC110	Demob	0	\$0.00							
TC000	Total	<u>17.25</u>	<u>\$340,032.00</u>							
	Materials									
TB000	Dirt for Landfill	100 cy		x			total / cy	\$15.00	=	\$1,500.00
TB000	Topsoil	50 cy		x			total / cy	\$15.00	=	\$750.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.7778 =	1.78	total / sf	\$5.27	=	\$9.37
TB000	Misc. Materials	1 ls			10 %				=	<u>\$225.94</u>
										\$2,485.31
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Oklahoma - 3 Tube Meter Station (1)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Oklahoma - 3 Tube Meter Station (1)
 # Facilities : 1
 State : Oklahoma
 Hot Tap Size : 30
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 1
 # Meter Runs : 3
 Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	6,297
2.	ANR-PL MATERIALS		TB000	3,006
3.	CONSTRUCTION:		TC000	360,213
	a Mob		TC100	19,712
	b Meter Ancillary		TC200	340,501
	i) Remove Mechanical		TC210	162,624
	ii) Remove Site Work		TC220	128,128
	iii) Remove Electrical & Controls		TC230	34,496
	iiii) Remove Telecommunications		TC240	4,928
	v) Environmental	1.50 %	TC250	5,397
	vi) Remove Cathodic Protection		TC270	4,928
4.	ENGINEERING	2.25 %	TD000	8,096
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	10,795
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 390,407
9.	Contingency	10.00 %	TY000	39,041
10.	Sub-Total			429,448
11.	Overhead	4.00 %	TZ000	17,178
12.	Sub-Total			446,626
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			446,626
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 447,000

1 Station: \$447,000

Removal - Interconnect Facilities - Oklahoma - 3 Tube Meter Station (1)

Contract

\$19,712.00 Composite Crew Rate for Oklahoma

30 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$19,712.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$9,856.00
TC210	Meter Building	1	\$19,712.00
TC210	Flow Control Building	0.5	\$9,856.00
Sub Total		2	\$39,424.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$4,928.00
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$4,928.00
TC220	Meter Skid	1	\$19,712.00
TC220	Flow Control Skid	0.5	\$9,856.00
TC220	Filter Separator	1	\$19,712.00
TC220	Piping *	0.5	\$9,856.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		3.5	\$68,992.00
Remove Site Improvements			
TC220	Fencing *	1	\$19,712.00
TC220	Yard Gravel *	1	\$19,712.00
Sub Total		2	\$39,424.00
Equipment			
TC210	Meter Runs	1.5	\$29,568.00
TC210	Flow Control Runs	0.75	\$14,784.00
TC210	Filter Separator	0.5	\$9,856.00
Sub Total		2.75	\$54,208.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$19,712.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$9,856.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$9,856.00
TC210	Between Flow Control > Filter Separator	0.5	\$9,856.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$49,280.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$9,856.00
TC210	At Flow Control Skid	0.5	\$9,856.00
TC210	At Filter Separator	0.5	\$9,856.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$29,568.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$4,928.00
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$4,928.00

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: **0.0%**

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 3

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$4,928.00			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$4,928.00			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$4,928.00			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$4,928.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$4,928.00			10	4	260	3	1
	Sub Total	1.75	\$34,496.00							
TC220	Install Dirt and Topsoil	1	\$19,712.00							
TC110	Demob	0	\$0.00							
TC000	Total	18.00	\$354,816.00							
	Materials									
TB000	Dirt for Landfill	120 cy		x			total / cy	\$15.00	=	\$1,800.00
TB000	Topsoil	60 cy		x			total / cy	\$15.00	=	\$900.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	6.2500 =	6.25	total / sf	\$5.27	=	\$32.94
TB000	Misc. Materials	1 ls			10 %				=	<u>\$273.29</u>
										\$3,006.23
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =				\$2,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Tennessee EGM - (4)

Project : IFRS - ANR Interconnect Retirement
Meter Facility : Tennessee EGM - (4)
Facilities : 4
State : Tennessee
Hot Tap Size : 12
EGM / GC : 1

Requested by : null
Estimator : null
Date : 11/18/2015
Meter Skid : 0
Meter Runs : 0
Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	1,461
2.	ANR-PL MATERIALS		TB000	1,491
3.	CONSTRUCTION:		TC000	81,659
	a Mob		TC100	6,153
	b Meter Ancillary		TC200	75,506
	i) Remove Mechanical		TC210	12,306
	ii) Remove Site Work		TC220	36,918
	iii) Remove Electrical & Controls		TC230	21,536
	iiii) Remove Telecommunications		TC240	3,077
	v) Environmental	2.00 %	TC250	1,670
	vi) Remove Cathodic Protection		TC270	-
4.	ENGINEERING	2.25 %	TD000	1,878
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	2,504
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 90,993
9.	Contingency	10.00 %	TY000	9,099
10.	Sub-Total			100,092
11.	Overhead	4.00 %	TZ000	4,004
12.	Sub-Total			104,096
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			104,096
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 105,000

4 Station: \$420,000

Removal - Interconnect Facilities - Tennessee EGM - (4)

Contract

\$12,306.00 Composite Crew Rate for Tennessee

12 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	0.5	\$6,153.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$6,153.00
TC210	Meter Building	0	\$0.00
TC210	Flow Control Building	0	\$0.00
Sub Total		0.5	\$6,153.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$3,076.50
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$3,076.50
TC220	Meter Skid	0	\$0.00
TC220	Flow Control Skid	0	\$0.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0	\$0.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		0.5	\$6,153.00
Remove Site Improvements			
TC220	Fencing *	1	\$12,306.00
TC220	Yard Gravel *	1	\$12,306.00
Sub Total		2	\$24,612.00
Equipment			
TC210	Meter Runs	0	\$0.00
TC210	Flow Control Runs	0	\$0.00
TC210	Filter Separator	0	\$0.00
Sub Total		0	\$0.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$12,306.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0	\$0.00
TC210	Between Meter Skid > Flow Control, Including Headers	0	\$0.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		1	\$12,306.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0	\$0.00
TC210	At Flow Control Skid	0	\$0.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		0	\$0.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$3,076.50
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$3,076.50

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 0

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob
0	1	60	1	0.5
1	1	80	1	1
2	1	100	1	1
3	1	120	1	1
4	1	140	2	1
5	2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$3,076.50			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$3,076.50			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$3,076.50			8	3	220	3	1
TC270	Cathodic Protection *	0	\$0.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$3,076.50			10	4	260	3	1
	Sub Total	1.5	\$18,459.00							
TC220	Install Dirt and Topsoil	0.5	\$6,153.00							
TC110	Demob	0	\$0.00							
TC000	Total	6.50	\$79,989.00							
	Materials									
TB000	Dirt for Landfill	60 cy		x			total / cy	\$15.00	=	\$900.00
TB000	Topsoil	30 cy		x			total / cy	\$15.00	=	\$450.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$135.53</u>
										\$1,490.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Tennessee - 1 Tube Meter Station (2)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Tennessee - 1 Tube Meter Station (2)
 # Facilities : 2
 State : Tennessee
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 1
 # Meter Runs : 1
 Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	4,983
2.	ANR-PL MATERIALS		TB000	1,986
3.	CONSTRUCTION:		TC000	285,027
	a Mob		TC100	20,054
	b Meter Ancillary		TC200	264,973
	i) Remove Mechanical		TC210	105,284
	ii) Remove Site Work		TC220	110,297
	iii) Remove Electrical & Controls		TC230	35,095
	iiii) Remove Telecommunications		TC240	5,014
	v) Environmental	1.50 %	TC250	4,271
	vi) Remove Cathodic Protection		TC270	5,014
4.	ENGINEERING	2.25 %	TD000	6,407
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	8,542
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 308,945
9.	Contingency	10.00 %	TY000	30,894
10.	Sub-Total			339,839
11.	Overhead	4.00 %	TZ000	13,594
12.	Sub-Total			353,433
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			353,433
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 354,000

2 Station: \$708,000

Removal - Interconnect Facilities - Tennessee - 1 Tube Meter Station (2)

Contract

\$20,054.00 Composite Crew Rate for Tennessee

12 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	1	\$20,054.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$10,027.00
TC210	Meter Building	1	\$20,054.00
TC210	Flow Control Building	0.5	\$10,027.00
Sub Total		2	\$40,108.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,013.50
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,013.50
TC220	Meter Skid	1	\$20,054.00
TC220	Flow Control Skid	0.5	\$10,027.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0.5	\$10,027.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		2.5	\$50,135.00
Remove Site Improvements			
TC220	Fencing *	1	\$20,054.00
TC220	Yard Gravel *	1	\$20,054.00
Sub Total		2	\$40,108.00
Equipment			
TC210	Meter Runs	0.5	\$10,027.00
TC210	Flow Control Runs	0.25	\$5,013.50
TC210	Filter Separator	0	\$0.00
Sub Total		0.75	\$15,040.50
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$20,054.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$10,027.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$10,027.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2	\$40,108.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$10,027.00
TC210	At Flow Control Skid	0.5	\$10,027.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1	\$20,054.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,013.50
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,013.50

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 1

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,013.50			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,013.50			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,013.50			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,013.50			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,013.50			10	4	260	3	1
	Sub Total	1.75	\$35,094.50							
TC220	Install Dirt and Topsoil	1	\$20,054.00							
TC110	Demob	0	\$0.00							
TC000	Total	14.00	\$280,756.00							
	Materials									
TB000	Dirt for Landfill	80 cy		x			total / cy	\$15.00	=	\$1,200.00
TB000	Topsoil	40 cy		x			total / cy	\$15.00	=	\$600.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$180.53</u>
										\$1,985.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =				\$2,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Tennessee - 2 Tube Meter Station (1)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Tennessee - 2 Tube Meter Station (1)
 # Facilities : 1
 State : Tennessee
 Hot Tap Size : 16
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 1
 # Meter Runs : 2
 Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	6,132
2.	ANR-PL MATERIALS		TB000	2,485
3.	CONSTRUCTION:		TC000	351,188
	a Mob		TC100	20,054
	b Meter Ancillary		TC200	331,134
	i) Remove Mechanical		TC210	150,405
	ii) Remove Site Work		TC220	130,351
	iii) Remove Electrical & Controls		TC230	35,095
	iiii) Remove Telecommunications		TC240	5,014
	v) Environmental	1.50 %	TC250	5,256
	vi) Remove Cathodic Protection		TC270	5,014
4.	ENGINEERING	2.25 %	TD000	7,884
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	10,513
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 380,202
9.	Contingency	10.00 %	TY000	38,020
10.	Sub-Total			418,222
11.	Overhead	4.00 %	TZ000	16,729
12.	Sub-Total			434,951
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			434,951
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 435,000

1 Station: \$435,000

Removal - Interconnect Facilities - Tennessee - 2 Tube Meter Station (1)

Contract

\$20,054.00 Composite Crew Rate for Tennessee

16 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$20,054.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$10,027.00
TC210	Meter Building	1	\$20,054.00
TC210	Flow Control Building	0.5	\$10,027.00
Sub Total		2	\$40,108.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,013.50
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,013.50
TC220	Meter Skid	1	\$20,054.00
TC220	Flow Control Skid	0.5	\$10,027.00
TC220	Filter Separator	1	\$20,054.00
TC220	Piping *	0.5	\$10,027.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		3.5	\$70,189.00
Remove Site Improvements			
TC220	Fencing *	1	\$20,054.00
TC220	Yard Gravel *	1	\$20,054.00
Sub Total		2	\$40,108.00
Equipment			
TC210	Meter Runs	1	\$20,054.00
TC210	Flow Control Runs	0.5	\$10,027.00
TC210	Filter Separator	0.5	\$10,027.00
Sub Total		2	\$40,108.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$20,054.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$10,027.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$10,027.00
TC210	Between Flow Control > Filter Separator	0.5	\$10,027.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$50,135.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$10,027.00
TC210	At Flow Control Skid	0.5	\$10,027.00
TC210	At Filter Separator	0.5	\$10,027.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$30,081.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,013.50
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,013.50

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: **0.0%**

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 2

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,013.50			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,013.50			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,013.50			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,013.50			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,013.50			10	4	260	3	1
	Sub Total	1.75	\$35,094.50							
TC220	Install Dirt and Topsoil	1	\$20,054.00							
TC110	Demob	0	\$0.00							
TC000	Total	<u>17.25</u>	<u>\$345,931.50</u>							
	Materials									
TB000	Dirt for Landfill	100 cy		x			total / cy	\$15.00	=	\$1,500.00
TB000	Topsoil	50 cy		x			total / cy	\$15.00	=	\$750.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.7778 =	1.78	total / sf	\$5.27	=	\$9.37
TB000	Misc. Materials	1 ls			10 %				=	<u>\$225.94</u>
										\$2,485.31
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company

Meter Station TNS Estimate

Removal - Interconnect Facilities - Tennessee - 3 Tube Meter Station (1)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Tennessee - 3 Tube Meter Station (1)
 # Facilities : 1
 State : Tennessee
 Hot Tap Size : 30
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 1
 # Meter Runs : 3
 Filter Separator : 1

ITEM	DESCRIPTION	CBS CODE	Amount
1.	PROJECT MANAGEMENT 1.75 %	TA100	6,405
2.	ANR-PL MATERIALS	TB000	3,006
3.	CONSTRUCTION:	TC000	366,462
	a Mob	TC100	20,054
	b Meter Ancillary	TC200	346,408
	i) Remove Mechanical	TC210	165,446
	ii) Remove Site Work	TC220	130,351
	iii) Remove Electrical & Controls	TC230	35,095
	iiii) Remove Telecommunications	TC240	5,014
	v) Environmental 1.50 %	TC250	5,490
	vi) Remove Cathodic Protection	TC270	5,014
4.	ENGINEERING 2.25 %	TD000	8,235
5.	CONSTRUCTION MANAGEMENT 3.00 %	TE000	10,979
6.	LAND - DAMAGES	TF000	2,000
7.	GAS USED	TX000	-
8.	Sub-Total - Direct Cost		\$ 397,086
9.	Contingency 10.00 %	TY000	39,709
10.	Sub-Total		436,795
11.	Overhead 4.00 %	TZ000	17,472
12.	Sub-Total		454,267
13.	Capitalization 0.00 %	TZ000	-
14.	Sub-Total		454,267
15.	AFUDC 0.00 %	TZ000	-
16.	GRAND TOTAL		\$ 455,000

1 Station: \$455,000

Removal - Interconnect Facilities - Tennessee - 3 Tube Meter Station (1)

Contract

\$20,054.00 Composite Crew Rate for Tennessee

30 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$20,054.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$10,027.00
TC210	Meter Building	1	\$20,054.00
TC210	Flow Control Building	0.5	\$10,027.00
Sub Total		2	\$40,108.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,013.50
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,013.50
TC220	Meter Skid	1	\$20,054.00
TC220	Flow Control Skid	0.5	\$10,027.00
TC220	Filter Separator	1	\$20,054.00
TC220	Piping *	0.5	\$10,027.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		3.5	\$70,189.00
Remove Site Improvements			
TC220	Fencing *	1	\$20,054.00
TC220	Yard Gravel *	1	\$20,054.00
Sub Total		2	\$40,108.00
Equipment			
TC210	Meter Runs	1.5	\$30,081.00
TC210	Flow Control Runs	0.75	\$15,040.50
TC210	Filter Separator	0.5	\$10,027.00
Sub Total		2.75	\$55,148.50
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$20,054.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$10,027.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$10,027.00
TC210	Between Flow Control > Filter Separator	0.5	\$10,027.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$50,135.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$10,027.00
TC210	At Flow Control Skid	0.5	\$10,027.00
TC210	At Filter Separator	0.5	\$10,027.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$30,081.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,013.50
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,013.50

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: **0.0%**

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 3

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,013.50			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,013.50			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,013.50			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,013.50			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,013.50			10	4	260	3	1
	Sub Total	1.75	\$35,094.50							
TC220	Install Dirt and Topsoil	1	\$20,054.00							
TC110	Demob	0	\$0.00							
TC000	Total	18.00	\$360,972.00							
	Materials									
TB000	Dirt for Landfill	120 cy		x			total / cy	\$15.00	=	\$1,800.00
TB000	Topsoil	60 cy		x			total / cy	\$15.00	=	\$900.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	6.2500 =	6.25	total / sf	\$5.27	=	\$32.94
TB000	Misc. Materials	1 ls			10 %				=	<u>\$273.29</u>
										\$3,006.23
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Texas EGM - (11)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Texas EGM - (11)
 # Facilities : 11
 State : Texas
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 0
 # Meter Runs : 0
 Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	1,461
2.	ANR-PL MATERIALS		TB000	1,491
3.	CONSTRUCTION:		TC000	81,659
	a Mob		TC100	6,153
	b Meter Ancillary		TC200	75,506
	i) Remove Mechanical		TC210	12,306
	ii) Remove Site Work		TC220	36,918
	iii) Remove Electrical & Controls		TC230	21,536
	iiii) Remove Telecommunications		TC240	3,077
	v) Environmental	2.00 %	TC250	1,670
	vi) Remove Cathodic Protection		TC270	-
4.	ENGINEERING	2.25 %	TD000	1,878
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	2,504
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 90,993
9.	Contingency	10.00 %	TY000	9,099
10.	Sub-Total			100,092
11.	Overhead	4.00 %	TZ000	4,004
12.	Sub-Total			104,096
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			104,096
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 105,000

11 Station: \$1,155,000

Removal - Interconnect Facilities - Texas EGM - (11)

Contract

\$12,306.00 Composite Crew Rate for Texas

12 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	0.5	\$6,153.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$6,153.00
TC210	Meter Building	0	\$0.00
TC210	Flow Control Building	0	\$0.00
Sub Total		0.5	\$6,153.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$3,076.50
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$3,076.50
TC220	Meter Skid	0	\$0.00
TC220	Flow Control Skid	0	\$0.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0	\$0.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		0.5	\$6,153.00
Remove Site Improvements			
TC220	Fencing *	1	\$12,306.00
TC220	Yard Gravel *	1	\$12,306.00
Sub Total		2	\$24,612.00
Equipment			
TC210	Meter Runs	0	\$0.00
TC210	Flow Control Runs	0	\$0.00
TC210	Filter Separator	0	\$0.00
Sub Total		0	\$0.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$12,306.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0	\$0.00
TC210	Between Meter Skid > Flow Control, Including Headers	0	\$0.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		1	\$12,306.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0	\$0.00
TC210	At Flow Control Skid	0	\$0.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		0	\$0.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$3,076.50
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$3,076.50

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 0

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob
0	1	60	1	0.5
1	1	80	1	1
2	1	100	1	1
3	1	120	1	1
4	1	140	2	1
5	2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$3,076.50			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$3,076.50			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$3,076.50			8	3	220	3	1
TC270	Cathodic Protection *	0	\$0.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$3,076.50			10	4	260	3	1
	Sub Total	1.5	\$18,459.00							
TC220	Install Dirt and Topsoil	0.5	\$6,153.00							
TC110	Demob	0	\$0.00							
TC000	Total	<u>6.50</u>	<u>\$79,989.00</u>							
	Materials									
TB000	Dirt for Landfill	60 cy		x			total / cy	\$15.00	=	\$900.00
TB000	Topsoil	30 cy		x			total / cy	\$15.00	=	\$450.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$135.53</u>
										\$1,490.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Texas - 1 Tube Meter Station (4)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Texas - 1 Tube Meter Station (4)
 # Facilities : 4
 State : Texas
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 1
 # Meter Runs : 1
 Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	4,983
2.	ANR-PL MATERIALS		TB000	1,986
3.	CONSTRUCTION:		TC000	285,027
	a Mob		TC100	20,054
	b Meter Ancillary		TC200	264,973
	i) Remove Mechanical		TC210	105,284
	ii) Remove Site Work		TC220	110,297
	iii) Remove Electrical & Controls		TC230	35,095
	iiii) Remove Telecommunications		TC240	5,014
	v) Environmental	1.50 %	TC250	4,271
	vi) Remove Cathodic Protection		TC270	5,014
4.	ENGINEERING	2.25 %	TD000	6,407
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	8,542
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 308,945
9.	Contingency	10.00 %	TY000	30,894
10.	Sub-Total			339,839
11.	Overhead	4.00 %	TZ000	13,594
12.	Sub-Total			353,433
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			353,433
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 354,000

4 Station: \$1,416,000

Removal - Interconnect Facilities - Texas - 1 Tube Meter Station (4)

Contract

\$20,054.00 Composite Crew Rate for Texas

12 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	1	\$20,054.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$10,027.00
TC210	Meter Building	1	\$20,054.00
TC210	Flow Control Building	0.5	\$10,027.00
Sub Total		2	\$40,108.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,013.50
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,013.50
TC220	Meter Skid	1	\$20,054.00
TC220	Flow Control Skid	0.5	\$10,027.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0.5	\$10,027.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		2.5	\$50,135.00
Remove Site Improvements			
TC220	Fencing *	1	\$20,054.00
TC220	Yard Gravel *	1	\$20,054.00
Sub Total		2	\$40,108.00
Equipment			
TC210	Meter Runs	0.5	\$10,027.00
TC210	Flow Control Runs	0.25	\$5,013.50
TC210	Filter Separator	0	\$0.00
Sub Total		0.75	\$15,040.50
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$20,054.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$10,027.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$10,027.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2	\$40,108.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$10,027.00
TC210	At Flow Control Skid	0.5	\$10,027.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1	\$20,054.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,013.50
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,013.50

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 1

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,013.50			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,013.50			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,013.50			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,013.50			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,013.50			10	4	260	3	1
	Sub Total	1.75	\$35,094.50							
TC220	Install Dirt and Topsoil	1	\$20,054.00							
TC110	Demob	0	\$0.00							
TC000	Total	14.00	\$280,756.00							
	Materials									
TB000	Dirt for Landfill	80 cy		x			total / cy	\$15.00	=	\$1,200.00
TB000	Topsoil	40 cy		x			total / cy	\$15.00	=	\$600.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$180.53</u>
										\$1,985.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =				\$2,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Texas - 8 Tube Meter Station (1)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Texas - 8 Tube Meter Station (1)
 # Facilities : 1
 State : Texas
 Hot Tap Size : 30
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 3
 # Meter Runs : 8
 Filter Separator : 2

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	11,345
2.	ANR-PL MATERIALS		TB000	5,554
3.	CONSTRUCTION:		TC000	646,439
	a Mob		TC100	20,054
	b Meter Ancillary		TC200	626,385
	i) Remove Mechanical		TC210	360,972
	ii) Remove Site Work		TC220	210,567
	iii) Remove Electrical & Controls		TC230	35,095
	iiii) Remove Telecommunications		TC240	5,014
	v) Environmental	1.50 %	TC250	9,724
	vi) Remove Cathodic Protection		TC270	5,014
4.	ENGINEERING	2.25 %	TD000	14,586
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	19,448
6.	LAND - DAMAGES		TF000	6,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 703,371
9.	Contingency	10.00 %	TY000	70,337
10.	Sub-Total			773,708
11.	Overhead	4.00 %	TZ000	30,948
12.	Sub-Total			804,656
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			804,656
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 805,000

1 Station: \$805,000

Removal - Interconnect Facilities - Texas - 8 Tube Meter Station (1)

Contract

\$20,054.00 Composite Crew Rate for Texas

30 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$20,054.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$10,027.00
TC210	Meter Building	3	\$60,162.00
TC210	Flow Control Building	1.5	\$30,081.00
Sub Total		5	\$100,270.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,013.50
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,013.50
TC220	Meter Skid	3	\$60,162.00
TC220	Flow Control Skid	1.5	\$30,081.00
TC220	Filter Separator	2	\$40,108.00
TC220	Piping *	0.5	\$10,027.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		7.5	\$150,405.00
Remove Site Improvements			
TC220	Fencing *	1	\$20,054.00
TC220	Yard Gravel *	1	\$20,054.00
Sub Total		2	\$40,108.00
Equipment			
TC210	Meter Runs	4	\$80,216.00
TC210	Flow Control Runs	2	\$40,108.00
TC210	Filter Separator	1	\$20,054.00
Sub Total		7	\$140,378.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	3	\$60,162.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$10,027.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$10,027.00
TC210	Between Flow Control > Filter Separator	0.5	\$10,027.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		4.5	\$90,243.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$10,027.00
TC210	At Flow Control Skid	0.5	\$10,027.00
TC210	At Filter Separator	1	\$20,054.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		2	\$40,108.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,013.50
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,013.50

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 8

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,013.50			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,013.50			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,013.50			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,013.50			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,013.50			10	4	260	3	1
	Sub Total	1.75	\$35,094.50							
TC220	Install Dirt and Topsoil	1	\$20,054.00							
TC110	Demob	0	\$0.00							
TC000	Total	31.75	\$636,714.50							
	Materials									
TB000	Dirt for Landfill	220 cy		x			total / cy	\$15.00	=	\$3,300.00
TB000	Topsoil	110 cy		x			total / cy	\$15.00	=	\$1,650.00
TB000	Steel Plate to cap Hot Tap	3 pieces		x	6.2500 =	18.75	total / sf	\$5.27	=	\$98.81
TB000	Misc. Materials	1 ls			10 %				=	<u>\$504.88</u>
										\$5,553.69
TF140	Land Damages	3		# of Digs	x	\$2,000.00 =				\$6,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Wisconsin EGM - (33)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Wisconsin EGM - (33)
 # Facilities : 33
 State : Wisconsin
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 0
 # Meter Runs : 0
 Filter Separator : 0

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	1,619
2.	ANR-PL MATERIALS		TB000	1,491
3.	CONSTRUCTION:		TC000	90,854
	a Mob		TC100	6,847
	b Meter Ancillary		TC200	84,008
	i) Remove Mechanical		TC210	13,693
	ii) Remove Site Work		TC220	41,079
	iii) Remove Electrical & Controls		TC230	23,963
	iiii) Remove Telecommunications		TC240	3,423
	v) Environmental	2.00 %	TC250	1,850
	vi) Remove Cathodic Protection		TC270	-
4.	ENGINEERING	2.25 %	TD000	2,081
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	2,775
6.	LAND - DAMAGES		TF000	2,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 100,820
9.	Contingency	10.00 %	TY000	10,082
10.	Sub-Total			110,902
11.	Overhead	4.00 %	TZ000	4,436
12.	Sub-Total			115,338
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			115,338
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 116,000

33 Station: \$3,828,000

Removal - Interconnect Facilities - Wisconsin EGM - (33)

Contract

\$13,693.00 Composite Crew Rate for Wisconsin

12 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	0.5	\$6,846.50
Remove Buildings			
TC230	Valtronic Building *	0.5	\$6,846.50
TC210	Meter Building	0	\$0.00
TC210	Flow Control Building	0	\$0.00
Sub Total		0.5	\$6,846.50
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$3,423.25
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$3,423.25
TC220	Meter Skid	0	\$0.00
TC220	Flow Control Skid	0	\$0.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0	\$0.00
TC220	Concrete Platform (Near Shore Application)	0	\$0.00
Sub Total		0.5	\$6,846.50
Remove Site Improvements			
TC220	Fencing *	1	\$13,693.00
TC220	Yard Gravel *	1	\$13,693.00
Sub Total		2	\$27,386.00
Equipment			
TC210	Meter Runs	0	\$0.00
TC210	Flow Control Runs	0	\$0.00
TC210	Filter Separator	0	\$0.00
Sub Total		0	\$0.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$13,693.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0	\$0.00
TC210	Between Meter Skid > Flow Control, Including Headers	0	\$0.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections	0	\$0.00
Sub Total		1	\$13,693.00
Remove Above Ground Piping			
TC210	Rising Piping	0	\$0.00
TC210	At Meter Skid	0	\$0.00
TC210	At Flow Control Skid	0	\$0.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold	0	\$0.00
TC210	At Customer Connection	0	\$0.00
Sub Total		0	\$0.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$3,423.25
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$3,423.25

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 0

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob
0	1	60	1	0.5
1	1	80	1	1
2	1	100	1	1
3	1	120	1	1
4	1	140	2	1
5	2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$3,423.25			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$3,423.25			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$3,423.25			8	3	220	3	1
TC270	Cathodic Protection *	0	\$0.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$3,423.25			10	4	260	3	1
	Sub Total	1.5	\$20,539.50							
TC220	Install Dirt and Topsoil	0.5	\$6,846.50							
TC110	Demob	0	\$0.00							
TC000	Total	6.50	\$89,004.50							
	Materials									
TB000	Dirt for Landfill	60 cy		x			total / cy	\$15.00	=	\$900.00
TB000	Topsoil	30 cy		x			total / cy	\$15.00	=	\$450.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$135.53</u>
										\$1,490.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company

Meter Station TNS Estimate

Removal - Interconnect Facilities - Wisconsin - 1 Tube Meter Station (78)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Wisconsin - 1 Tube Meter Station (78)
 # Facilities : 78
 State : Wisconsin
 Hot Tap Size : 12
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 1
 # Meter Runs : 1
 Filter Separator : 0

ITEM	DESCRIPTION	CBS CODE	Amount
1.	PROJECT MANAGEMENT 1.75 %	TA100	5,561
2.	ANR-PL MATERIALS	TB000	1,986
3.	CONSTRUCTION:	TC000	318,534
	a Mob	TC100	22,412
	b Meter Ancillary	TC200	296,122
	i) Remove Mechanical	TC210	117,663
	ii) Remove Site Work	TC220	123,266
	iii) Remove Electrical & Controls	TC230	39,221
	iiii) Remove Telecommunications	TC240	5,603
	v) Environmental 1.50 %	TC250	4,766
	vi) Remove Cathodic Protection	TC270	5,603
4.	ENGINEERING 2.25 %	TD000	7,149
5.	CONSTRUCTION MANAGEMENT 3.00 %	TE000	9,533
6.	LAND - DAMAGES	TF000	2,000
7.	GAS USED	TX000	-
8.	Sub-Total - Direct Cost		\$ 344,763
9.	Contingency 10.00 %	TY000	34,476
10.	Sub-Total		379,239
11.	Overhead 4.00 %	TZ000	15,170
12.	Sub-Total		394,409
13.	Capitalization 0.00 %	TZ000	-
14.	Sub-Total		394,409
15.	AFUDC 0.00 %	TZ000	-
16.	GRAND TOTAL		\$ 395,000

78 Station: \$30,810,000

Removal - Interconnect Facilities - Wisconsin - 1 Tube Meter Station (78)

Contract

\$22,412.00 Composite Crew Rate for Wisconsin

12 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	1	\$22,412.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$11,206.00
TC210	Meter Building	1	\$22,412.00
TC210	Flow Control Building	0.5	\$11,206.00
Sub Total		2	\$44,824.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,603.00
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,603.00
TC220	Meter Skid	1	\$22,412.00
TC220	Flow Control Skid	0.5	\$11,206.00
TC220	Filter Separator	0	\$0.00
TC220	Piping *	0.5	\$11,206.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		2.5	\$56,030.00
Remove Site Improvements			
TC220	Fencing *	1	\$22,412.00
TC220	Yard Gravel *	1	\$22,412.00
Sub Total		2	\$44,824.00
Equipment			
TC210	Meter Runs	0.5	\$11,206.00
TC210	Flow Control Runs	0.25	\$5,603.00
TC210	Filter Separator	0	\$0.00
Sub Total		0.75	\$16,809.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$22,412.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$11,206.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$11,206.00
TC210	Between Flow Control > Filter Separator	0	\$0.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2	\$44,824.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$11,206.00
TC210	At Flow Control Skid	0.5	\$11,206.00
TC210	At Filter Separator	0	\$0.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1	\$22,412.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,603.00
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,603.00

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 1

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,603.00			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,603.00			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,603.00			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,603.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,603.00			10	4	260	3	1
	Sub Total	1.75	\$39,221.00							
TC220	Install Dirt and Topsoil	1	\$22,412.00							
TC110	Demob	0	\$0.00							
TC000	Total	14.00	\$313,768.00							
	Materials									
TB000	Dirt for Landfill	80 cy		x			total / cy	\$15.00	=	\$1,200.00
TB000	Topsoil	40 cy		x			total / cy	\$15.00	=	\$600.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.0000 =	1.00	total / sf	\$5.27	=	\$5.27
TB000	Misc. Materials	1 ls			10 %				=	<u>\$180.53</u>
										\$1,985.80
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =				\$2,000.00

ANR Pipeline Company

Meter Station TNS Estimate

Removal - Interconnect Facilities - Wisconsin - 2 Tube Meter Station (26)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Wisconsin - 2 Tube Meter Station (26)
 # Facilities : 26
 State : Wisconsin
 Hot Tap Size : 16
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 1
 # Meter Runs : 2
 Filter Separator : 1

ITEM	DESCRIPTION	CBS CODE	Amount
1.	PROJECT MANAGEMENT 1.75 %	TA100	6,844
2.	ANR-PL MATERIALS	TB000	2,485
3.	CONSTRUCTION:	TC000	392,473
	a Mob	TC100	22,412
	b Meter Ancillary	TC200	370,061
	i) Remove Mechanical	TC210	168,090
	ii) Remove Site Work	TC220	145,678
	iii) Remove Electrical & Controls	TC230	39,221
	iiii) Remove Telecommunications	TC240	5,603
	v) Environmental 1.50 %	TC250	5,866
	vi) Remove Cathodic Protection	TC270	5,603
4.	ENGINEERING 2.25 %	TD000	8,800
5.	CONSTRUCTION MANAGEMENT 3.00 %	TE000	11,733
6.	LAND - DAMAGES	TF000	2,000
7.	GAS USED	TX000	-
8.	Sub-Total - Direct Cost		\$ 424,335
9.	Contingency 10.00 %	TY000	42,434
10.	Sub-Total		466,769
11.	Overhead 4.00 %	TZ000	18,671
12.	Sub-Total		485,439
13.	Capitalization 0.00 %	TZ000	-
14.	Sub-Total		485,439
15.	AFUDC 0.00 %	TZ000	-
16.	GRAND TOTAL		\$ 486,000

26 Station: \$12,636,000

Removal - Interconnect Facilities - Wisconsin - 2 Tube Meter Station (26)

Contract

\$22,412.00 Composite Crew Rate for Wisconsin

16 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$22,412.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$11,206.00
TC210	Meter Building	1	\$22,412.00
TC210	Flow Control Building	0.5	\$11,206.00
Sub Total		2	\$44,824.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,603.00
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,603.00
TC220	Meter Skid	1	\$22,412.00
TC220	Flow Control Skid	0.5	\$11,206.00
TC220	Filter Separator	1	\$22,412.00
TC220	Piping *	0.5	\$11,206.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		3.5	\$78,442.00
Remove Site Improvements			
TC220	Fencing *	1	\$22,412.00
TC220	Yard Gravel *	1	\$22,412.00
Sub Total		2	\$44,824.00
Equipment			
TC210	Meter Runs	1	\$22,412.00
TC210	Flow Control Runs	0.5	\$11,206.00
TC210	Filter Separator	0.5	\$11,206.00
Sub Total		2	\$44,824.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$22,412.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$11,206.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$11,206.00
TC210	Between Flow Control > Filter Separator	0.5	\$11,206.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$56,030.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$11,206.00
TC210	At Flow Control Skid	0.5	\$11,206.00
TC210	At Filter Separator	0.5	\$11,206.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$33,618.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,603.00
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,603.00

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 2

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,603.00			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,603.00			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,603.00			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,603.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,603.00			10	4	260	3	1
	Sub Total	1.75	\$39,221.00							
TC220	Install Dirt and Topsoil	1	\$22,412.00							
TC110	Demob	0	\$0.00							
TC000	Total	<u>17.25</u>	<u>\$386,607.00</u>							
	Materials									
TB000	Dirt for Landfill	100 cy		x			total / cy	\$15.00	=	\$1,500.00
TB000	Topsoil	50 cy		x			total / cy	\$15.00	=	\$750.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	1.7778 =	1.78	total / sf	\$5.27	=	\$9.37
TB000	Misc. Materials	1 ls			10 %				=	<u>\$225.94</u>
										\$2,485.31
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company

Meter Station TNS Estimate

Removal - Interconnect Facilities - Wisconsin - 3 Tube Meter Station (11)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Wisconsin - 3 Tube Meter Station (11)
 # Facilities : 11
 State : Wisconsin
 Hot Tap Size : 30
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 1
 # Meter Runs : 3
 Filter Separator : 1

ITEM	DESCRIPTION	CBS CODE	Amount
1.	PROJECT MANAGEMENT 1.75 %	TA100	7,147
2.	ANR-PL MATERIALS	TB000	3,006
3.	CONSTRUCTION:	TC000	409,542
	a Mob	TC100	22,412
	b Meter Ancillary	TC200	387,130
	i) Remove Mechanical	TC210	184,899
	ii) Remove Site Work	TC220	145,678
	iii) Remove Electrical & Controls	TC230	39,221
	iiii) Remove Telecommunications	TC240	5,603
	v) Environmental 1.50 %	TC250	6,126
	vi) Remove Cathodic Protection	TC270	5,603
4.	ENGINEERING 2.25 %	TD000	9,190
5.	CONSTRUCTION MANAGEMENT 3.00 %	TE000	12,253
6.	LAND - DAMAGES	TF000	2,000
7.	GAS USED	TX000	-
8.	Sub-Total - Direct Cost		\$ 443,138
9.	Contingency 10.00 %	TY000	44,314
10.	Sub-Total		487,452
11.	Overhead 4.00 %	TZ000	19,498
12.	Sub-Total		506,950
13.	Capitalization 0.00 %	TZ000	-
14.	Sub-Total		506,950
15.	AFUDC 0.00 %	TZ000	-
16.	GRAND TOTAL		\$ 507,000

11 Station: \$5,577,000

Removal - Interconnect Facilities - Wisconsin - 3 Tube Meter Station (11)

Contract

\$22,412.00 Composite Crew Rate for Wisconsin

30 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$22,412.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$11,206.00
TC210	Meter Building	1	\$22,412.00
TC210	Flow Control Building	0.5	\$11,206.00
Sub Total		2	\$44,824.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,603.00
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,603.00
TC220	Meter Skid	1	\$22,412.00
TC220	Flow Control Skid	0.5	\$11,206.00
TC220	Filter Separator	1	\$22,412.00
TC220	Piping *	0.5	\$11,206.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		3.5	\$78,442.00
Remove Site Improvements			
TC220	Fencing *	1	\$22,412.00
TC220	Yard Gravel *	1	\$22,412.00
Sub Total		2	\$44,824.00
Equipment			
TC210	Meter Runs	1.5	\$33,618.00
TC210	Flow Control Runs	0.75	\$16,809.00
TC210	Filter Separator	0.5	\$11,206.00
Sub Total		2.75	\$61,633.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$22,412.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$11,206.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$11,206.00
TC210	Between Flow Control > Filter Separator	0.5	\$11,206.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$56,030.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$11,206.00
TC210	At Flow Control Skid	0.5	\$11,206.00
TC210	At Filter Separator	0.5	\$11,206.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$33,618.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,603.00
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,603.00

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 3

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,603.00			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,603.00			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,603.00			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,603.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,603.00			10	4	260	3	1
	Sub Total	1.75	\$39,221.00							
TC220	Install Dirt and Topsoil	1	\$22,412.00							
TC110	Demob	0	\$0.00							
TC000	Total	18.00	\$403,416.00							
	Materials									
TB000	Dirt for Landfill	120 cy		x			total / cy	\$15.00	=	\$1,800.00
TB000	Topsoil	60 cy		x			total / cy	\$15.00	=	\$900.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	6.2500 =	6.25	total / sf	\$5.27	=	\$32.94
TB000	Misc. Materials	1 ls			10 %				=	<u>\$273.29</u>
										\$3,006.23
TF140	Land Damages	1		# of Digs	x	\$2,000.00 =		\$2,000.00		

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Wisconsin - 4 Tube Meter Station (4)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Wisconsin - 4 Tube Meter Station (4)
 # Facilities : 4
 State : Wisconsin
 Hot Tap Size : 42
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 2
 # Meter Runs : 4
 Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	8,662
2.	ANR-PL MATERIALS		TB000	3,536
3.	CONSTRUCTION:		TC000	494,886
	a Mob		TC100	22,412
	b Meter Ancillary		TC200	472,474
	i) Remove Mechanical		TC210	235,326
	ii) Remove Site Work		TC220	179,296
	iii) Remove Electrical & Controls		TC230	39,221
	iiii) Remove Telecommunications		TC240	5,603
	v) Environmental	1.50 %	TC250	7,425
	vi) Remove Cathodic Protection		TC270	5,603
4.	ENGINEERING	2.25 %	TD000	11,137
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	14,850
6.	LAND - DAMAGES		TF000	4,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 537,072
9.	Contingency	10.00 %	TY000	53,707
10.	Sub-Total			590,779
11.	Overhead	4.00 %	TZ000	23,631
12.	Sub-Total			614,410
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			614,410
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 615,000

4 Station: \$2,460,000

Removal - Interconnect Facilities - Wisconsin - 4 Tube Meter Station (4)

Contract

\$22,412.00 Composite Crew Rate for Wisconsin

42 Line Size

	Labor	Days	Abandonment Crew
TC110	Mob	1	\$22,412.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$11,206.00
TC210	Meter Building	2	\$44,824.00
TC210	Flow Control Building	1	\$22,412.00
Sub Total		3.5	\$78,442.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,603.00
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,603.00
TC220	Meter Skid	2	\$44,824.00
TC220	Flow Control Skid	1	\$22,412.00
TC220	Filter Separator	1	\$22,412.00
TC220	Piping *	0.5	\$11,206.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		5	\$112,060.00
Remove Site Improvements			
TC220	Fencing *	1	\$22,412.00
TC220	Yard Gravel *	1	\$22,412.00
Sub Total		2	\$44,824.00
Equipment			
TC210	Meter Runs	2	\$44,824.00
TC210	Flow Control Runs	1	\$22,412.00
TC210	Filter Separator	0.5	\$11,206.00
Sub Total		3.5	\$78,442.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	1	\$22,412.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$11,206.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$11,206.00
TC210	Between Flow Control > Filter Separator	0.5	\$11,206.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		2.5	\$56,030.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$11,206.00
TC210	At Flow Control Skid	0.5	\$11,206.00
TC210	At Filter Separator	0.5	\$11,206.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$33,618.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,603.00
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,603.00

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
Indiana	\$14,621.00	\$23,827.00	Indiana
Iowa	\$13,041.00	\$21,251.00	Iowa
Kansas	\$13,252.00	\$21,596.00	Kansas
Kentucky	\$12,727.00	\$20,740.00	Kentucky
Louisiana	\$12,517.00	\$20,398.00	Louisiana
Louisiana Offs	\$11,229.00	\$18,542.00	Louisiana Offsl
Michigan	\$13,383.00	\$21,829.00	Michigan
Mississippi	\$11,360.00	\$18,512.00	Mississippi
Missouri	\$15,146.00	\$24,682.00	Missouri
Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 4

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,603.00			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,603.00			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,603.00			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,603.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,603.00			10	4	260	3	1
	Sub Total	1.75	\$39,221.00							
TC220	Install Dirt and Topsoil	1	\$22,412.00							
TC110	Demob	0	\$0.00							
TC000	Total	<u>21.75</u>	<u>\$487,461.00</u>							
	Materials									
TB000	Dirt for Landfill	140 cy		x			total / cy	\$15.00	=	\$2,100.00
TB000	Topsoil	70 cy		x			total / cy	\$15.00	=	\$1,050.00
TB000	Steel Plate to cap Hot Tap	1 pieces		x	12.2500 =	12.25	total / sf	\$5.27	=	\$64.56
TB000	Misc. Materials	1 ls			10 %				=	<u>\$321.46</u>
										\$3,536.01
TF140	Land Damages	2		# of Digs	x	\$2,000.00 =				\$4,000.00

ANR Pipeline Company
Meter Station TNS Estimate
Removal - Interconnect Facilities - Wisconsin - 5 Tube Meter Station (4)

Project : IFRS - ANR Interconnect Retirement
 Meter Facility : Wisconsin - 5 Tube Meter Station (4)
 # Facilities : 4
 State : Wisconsin
 Hot Tap Size : 30
 EGM / GC : 1

Requested by : null
 Estimator : null
 Date : 11/18/2015
 Meter Skid : 2
 # Meter Runs : 5
 Filter Separator : 1

ITEM	DESCRIPTION		CBS CODE	Amount
1.	PROJECT MANAGEMENT	1.75 %	TA100	9,358
2.	ANR-PL MATERIALS		TB000	4,032
3.	CONSTRUCTION:		TC000	534,703
	a Mob		TC100	22,412
	b Meter Ancillary		TC200	512,291
	i) Remove Mechanical		TC210	274,547
	ii) Remove Site Work		TC220	179,296
	iii) Remove Electrical & Controls		TC230	39,221
	iiii) Remove Telecommunications		TC240	5,603
	v) Environmental	1.50 %	TC250	8,021
	vi) Remove Cathodic Protection		TC270	5,603
4.	ENGINEERING	2.25 %	TD000	12,031
5.	CONSTRUCTION MANAGEMENT	3.00 %	TE000	16,041
6.	LAND - DAMAGES		TF000	4,000
7.	GAS USED		TX000	-
8.	Sub-Total - Direct Cost			\$ 580,165
9.	Contingency	10.00 %	TY000	58,017
10.	Sub-Total			638,182
11.	Overhead	4.00 %	TZ000	25,527
12.	Sub-Total			663,709
13.	Capitalization	0.00 %	TZ000	-
14.	Sub-Total			663,709
15.	AFUDC	0.00 %	TZ000	-
16.	GRAND TOTAL			\$ 664,000

4 Station: \$2,656,000

Removal - Interconnect Facilities - Wisconsin - 5 Tube Meter Station (4)

Contract

\$22,412.00 Composite Crew Rate for Wisconsin

30 Line Size

		Days	Abandonment Crew
TC110	Mob	1	\$22,412.00
Remove Buildings			
TC230	Valtronic Building *	0.5	\$11,206.00
TC210	Meter Building	2	\$44,824.00
TC210	Flow Control Building	1	\$22,412.00
Sub Total		3.5	\$78,442.00
Remove Foundations			
TC220	Valtronics * (To Grade Only)	0.25	\$5,603.00
TC220	Communications Tower / VSAT* (To Grade Only)	0.25	\$5,603.00
TC220	Meter Skid	2	\$44,824.00
TC220	Flow Control Skid	1	\$22,412.00
TC220	Filter Separator	1	\$22,412.00
TC220	Piping *	0.5	\$11,206.00
TC220	Concrete Platform (Near Shore Application)		\$0.00
Sub Total		5	\$112,060.00
Remove Site Improvements			
TC220	Fencing *	1	\$22,412.00
TC220	Yard Gravel *	1	\$22,412.00
Sub Total		2	\$44,824.00
Equipment			
TC210	Meter Runs	2.5	\$56,030.00
TC210	Flow Control Runs	1.25	\$28,015.00
TC210	Filter Separator	0.5	\$11,206.00
Sub Total		4.25	\$95,251.00
Remove Piping			
TC210	Cap Hot Tap & Remove Riser Pipe*	2	\$44,824.00
Remove Underground Piping			
TC210	Between Hot Tap > Meter Skid, Including Headers	0.5	\$11,206.00
TC210	Between Meter Skid > Flow Control, Including Headers	0.5	\$11,206.00
TC210	Between Flow Control > Filter Separator	0.5	\$11,206.00
TC210	Between Filter Separator > Customer Connections		\$0.00
Sub Total		3.5	\$78,442.00
Remove Above Ground Piping			
TC210	Rising Piping		\$0.00
TC210	At Meter Skid	0.5	\$11,206.00
TC210	At Flow Control Skid	0.5	\$11,206.00
TC210	At Filter Separator	0.5	\$11,206.00
TC210	At Bi-Directional Manifold		\$0.00
TC210	At Customer Connection		\$0.00
Sub Total		1.5	\$33,618.00
Remove Electrical / Electronics			
TC230	EGM *	0.25	\$5,603.00
TC230	Gas Chromatograph / YZ Sampler *	0.25	\$5,603.00

2015 IFRS Crew Rate:

2009 IFRS Cre

State	EGM	Tube	State
Illinois	\$15,407.00	\$25,542.00	Illinois
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Kentucky	\$12,727.00	\$20,740.00	Kentucky
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Ohio	\$13,569.00	\$22,112.00	Ohio
Oklahoma	\$12,096.00	\$19,712.00	Oklahoma
Tennessee	\$12,306.00	\$20,054.00	Tennessee
Texas	\$12,306.00	\$20,054.00	Texas
Texas Offshor	\$11,040.00	\$18,229.00	Texas Offshore
Wisconsin	\$13,693.00	\$22,412.00	Wisconsin

Inflation Rate: 0.0%

Pipe Size	CY/X ing	SF Steel
6	1.33	0.2500
8	2.25	0.4444
10	3.50	0.6944
12	4.93	1.0000
14	5.94	1.3611
16	7.76	1.7778
18	9.82	2.2500
20	12.12	2.7778
22	14.67	3.3611
24	17.25	4.0000
26	20.48	4.6944
30	27.27	6.2500
36	39.27	9.0000
42		12.2500
48	69.81	16.0000

Meter Runs: 5

Meter Runs	# Hot Taps	cy digging	# digs	Mob Demob	
0		1	60	1	0.5
1		1	80	1	1
2		1	100	1	1
3		1	120	1	1
4		1	140	2	1
5		2	160	2	1

TC230	Conduit, Above and Below Grade *	0.25	\$5,603.00			6	3	180	2	1
TC230	Wiring / Cable Between Skids & EGM Building *	0.25	\$5,603.00			7	3	200	2	1
TC230	Power Lines / Power Poles	0.25	\$5,603.00			8	3	220	3	1
TC270	Cathodic Protection *	0.25	\$5,603.00			9	4	240	3	1
TC240	Antenna / Communications Tower / VSAT *	0.25	\$5,603.00			10	4	260	3	1
	Sub Total	1.75	\$39,221.00							
TC220	Install Dirt and Topsoil	1	\$22,412.00							
TC110	Demob	0	\$0.00							
TC000	Total	23.50	\$526,682.00							
	Materials									
TB000	Dirt for Landfill	160 cy		x			total / cy	\$15.00	=	\$2,400.00
TB000	Topsoil	80 cy		x			total / cy	\$15.00	=	\$1,200.00
TB000	Steel Plate to cap Hot Tap	2 pieces		x	6.2500 =	12.50	total / sf	\$5.27	=	\$65.88
TB000	Misc. Materials	1 ls			10 %				=	<u>\$366.59</u>
										\$4,032.46
TF140	Land Damages	2		# of Digs	x	\$2,000.00 =				\$4,000.00