



Midland Partner Report

Well Name: Fcu 4476

State: Texas
County: Andrews
Location: ~13.5 miles northwest of Andrews, TX
Rig Contr.:

API#: 4200345679
AFE#: 1306191

Total Costs to Date	
Daily Cost Total	Cum Cost To Date
720.00	720.00

Spud Date	Ground/Corrected Ground Elevation (ft)	KB-Ground Distance (ft)
	3,323.00	13.00

Daily Operations

1/1/2014 11:00 - 12/2/2013 06:00

Operation Summary # 1
Rig down for move

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
11:00	06:00	19.00	19.00	Rigging down for move to FCU 4476

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Midland Partner Report

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Location: ~13.5 miles northwest of Andrews, TX
Rig Contr.: Pioneer 40

API#: 4200345679
AFE#: 1306191

Total Costs to Date	
Daily Cost Total	Cum Cost To Date
17,201.83	17,921.83

Spud Date	Ground/Corrected Ground Elevation (ft)	KB-Ground Distance (ft)
	3,323.00	13.00

Daily Operations

1/2/2014 06:00 - 1/3/2014 06:00

Operation Summary # 1

Moving rig, Rigging up, set 90% of equipment, Dawn trucking float broke axles and sub reached location at 15:30, derrick set on sub @ 17:30 could not raise derrick due to light, continue rigging up, hook up flow lines, fill pits, function test electric equipment

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
06:00	06:00	24.00	24.00	HELD SAFETY MEETING WITH RIG CREWS AND DAWN TRUCKING, RIG DOWN AND MOVE OUT PIONEER RIG 40 ON FCU 7332 MOVE IN AND RIG UP ON FCU 4476, SET HOUSING, SPOT BACK YARD EQUIPMENT, SPOT SUB, SET DERRICK ON SUB @ 17:30, RAISE A LEGS, NOTIFIED TRRC (CINDY #4) OF SPUD AND CEMENT, SPOOL DRILL LINE UP ON DRUM, INSTALL FLOW LINES, FILL PITS WITH WATER, FUNCTION TEST ELECTRIC EQUIPMENT ON MUD PITS



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Total Costs to Date	
Daily Cost Total	Cum Cost To Date
119,349.16	137,270.99

Spud Date	Ground/Corrected Ground Elevation (ft)	KB-Ground Distance (ft)
1/3/2014 6:00:00 PM	3,323.00	13.00

Daily Operations

1/3/2014 06:00 - 1/4/2014 06:00

Operation Summary # 1

Rig up, Drill f/ 50' to 1200' Last survey 735' degree 0.46

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
06:00	15:00	9.00	9.00	Grease crown, blocks, raising sheaves, raise derrick, center over hole, level sub, (Released trucks at 10:30 am 1/3/14), rig up rotary chain, tongs pipe spinner, stand pipe manifold
15:00	18:00	3.00	12.00	Pre spud inspection with correction, Rig accepted @ 16:00 hours, install conductor and flow line, strap BHA, mix spud mud
18:00	22:00	4.00	16.00	Drill f/ 50' to 278' ROP 228' @ 57 FPH, WOB 5-10k, RPM 80, GPM 300, SPM 85
22:00	22:30	0.50	16.50	Wireline survey @ 236' degree 0.92
22:30	01:30	3.00	19.50	Drill f/ 278' to 777' ROP 499' @ 166 FPH, WOB 5-18k, RPM 100, GPM 420, SPM 120, PP 600 psi
01:30	02:00	0.50	20.00	Wire line survey @ 735' degree 0.46
02:00	06:00	4.00	24.00	Drill f/ 777' to 1200' ROP 423' @ 105 FPH, WOB 18k, RPM 100, GPM 420, SPM 120, PP 650 psi



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Total Costs to Date	
Daily Cost Total	Cum Cost To Date
41,307.00	178,577.99

Spud Date 1/3/2014 6:00:00 PM	Ground/Corrected Ground Elevation (ft) 3,323.00	KB-Ground Distance (ft) 13.00
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Daily Operations

1/4/2014 06:00 - 1/5/2014 06:00

Operation Summary # 1
 Drill f/ 1200' to 1803', POOH for casing, run 41 joints 8 5/8" 24 lb. J-55 casing, cement casing 70 bbls 227 sacks return to surface, bumped plug, WOC, Install well head

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
06:00	06:30	0.50	0.50	Drill f/ 1200' to 1275' ROP 475' @ 150 FPH, WOB 18k, RPM 100, GPM 420, SPM 120, PP 650 psi
06:30	07:00	0.50	1.00	Wire line survey @ 1233' degree 0.49
07:00	12:00	5.00	6.00	Drill f/ 1275' to 1709' ROP 434' @ 86.6 FPH, WOB 18k, RPM 100, GPM 420, SPM 120, PP 650 psi
12:00	12:30	0.50	6.50	Wire line survey @ 1667' degree 0.66
12:30	14:00	1.50	8.00	Drill f/ 1709' to 1803' ROP 94' @ 62.6 FPH, WOB 18k, RPM 100, GPM 420, SPM 120, PP 650 psi
14:00	14:30	0.50	8.50	Pump sweep and circulate hole clean
14:30	17:30	3.00	11.50	POOH for 8 5/8" casing, L/D 8" DC
17:30	18:30	1.00	12.50	Held safety meeting with Lewis casing crew and R/U
18:30	22:00	3.50	16.00	MAKE UP SHOE TRACK AND ESTABLISHED CIRCULATION THROUGH FLOATS O.K. RAN A TOTAL OF 41 JOINTS OF 8 5/8" O.D., 24 #, J - 55, ST&C CASING TO 1,803', HAD TO WASH LAST 2 JOINTS FROM 1,716' TO 1,803'
22:00	23:00	1.00	17.00	Circulate and R/D casing tools, Held safety meeting and R/U Crest cementing tools
23:00	00:30	1.50	18.50	INSTALL CEMENT HEAD AND TEST LINES TO 2500 PSI, CREST CEMENTED 8 5/8" O.D. CASING AT 1803' WITH 555 SACKS (172 BBLs) CLASS C CEMENT + 2% CACL2 + 4% GEL + 0.25 PPS CELLOPHANE FLAKES MIXED AT 13.5 PPG, YIELD 1.75 WITH 9.16 GPS FRESH WATER FOLLOWED BY 260 SACKS (61 BBLs) CLASS C CEMENT + 2% CACLS + 0.25 PPS CELLOPHANE FLAKES MIXED AT 14.8 PPG, YIELD 1.32 WITH 6.35 GPS FRESH WATER, DISPLACES CEMENT WITH 111 BBLs FRESH WATER BUMPED PLUG WITH 1490 PSI AT 00:30 HRS 1-5-14, RELEASED PRESSURE FLOATS HELD O.K. HAD 70 BBLs (227 SACKS CEMENT RETURNS TO SURFACE)
00:30	04:30	4.00	22.50	Wait on cement
04:30	06:00	1.50	24.00	Cut casing and weld on larkin head



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Total Costs to Date	
Daily Cost Total	Cum Cost To Date
20,789.19	199,367.18

Spud Date 1/3/2014 6:00:00 PM	Ground/Corrected Ground Elevation (ft) 3,323.00	KB-Ground Distance (ft) 13.00
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Daily Operations

1/5/2014 06:00 - 1/6/2014 06:00

Operation Summary # 1

N/U BOP's, Test BOP's, TIH, Cut Drill line, Drill cement and float equipment Tagged @ 1663', FIT 200 psi (good), Drill f/ 1803' to 2283' WOB 15k, RPM 85, PP 820, GPM 420, STK 120

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
06:00	06:30	0.50	0.50	Continue weld on larkin head
06:30	11:00	4.50	5.00	N/U BOP's, fill casing back side with sack crete
11:00	13:00	2.00	7.00	TEST BOP VALVES, BLIND RAMS, LINES, FLANGES CHOKE MANIFOLD VALVES, AND KILL LINE VALVES 250 PSI LOW, 1,000 PSI HIGH HELD O.K.
13:00	15:30	2.50	9.50	P/U, Strap BHA, TIH to 640'
15:30	16:30	1.00	10.50	Slip and cut Drill line 100'
16:30	17:00	0.50	11.00	Service rig
17:00	17:30	0.50	11.50	TIH to 1663'
17:30	18:00	0.50	12.00	Circulate out fresh H2o with brine water
18:00	18:30	0.50	12.50	Test Hydril and pipe rams 250-1000 psi
18:30	19:00	0.50	13.00	Test casing 1000 psi for 30 minutes (test good)
19:00	20:30	1.50	14.50	Tag cement @ 1663' Drill from 1663' to 1803'
20:30	21:00	0.50	15.00	Drill f/ 1803' to 1813'
21:00	21:30	0.50	15.50	FIT 200 psi over (good)
21:30	04:00	6.50	22.00	Drill f/ 1813' to 2190' ROP 377' @ 58 FPH, WOB 15k, RPM 85, PP 820, GPM 420, STK 120
04:00	04:30	0.50	22.50	Wire line survey @ 2148' degree 0.83
04:30	06:00	1.50	24.00	Drill f/ 2190' to 2283' ROP 93' @ 62 FPH, WOB 15k, RPM 85, PP 820, GPM 420, STK 120



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Total Costs to Date	
Daily Cost Total	Cum Cost To Date
20,789.19	220,156.37

Spud Date 1/3/2014 6:00:00 PM	Ground/Corrected Ground Elevation (ft) 3,323.00	KB-Ground Distance (ft) 13.00
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Daily Operations

1/6/2014 06:00 - 1/7/2014 06:00

Operation Summary # 1

Drill f/ 2283' to 3804' ROP 1521' @ 70.7 FPH, Last survey @ 3277' degree 1.28, BOP drill 48 seconds

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
06:00	10:00	4.00	4.00	Drill f/ 2283' to 2656' ROP 373' @ 93.2 FPH, WOB 15k, RPM 85, PP 820, GPM 420, STK 120
10:00	10:30	0.50	4.50	Wire line survey @ 2614' degree 1.52
10:30	11:00	0.50	5.00	Service rig, function test BOP's
11:00	16:30	5.50	10.50	Drill f/ 2656' to 3122' ROP 466' @ 84.7 FPH, WOB 15k, RPM 85, PP 820, GPM 420, STK 120
16:30	17:00	0.50	11.00	Wire line survey @ 3080' degree 1.8
17:00	21:30	4.50	15.50	Drill f/ 3122' to 3339' ROP 217' @ 48.2 FPH, WOB 15k, RPM 85, PP 900, GPM 420, STK 120
21:30	22:00	0.50	16.00	Wire line survey @ 3277' degree 1.28, BOP drill 48 seconds
22:00	06:00	8.00	24.00	Drill f/ 3339' to 3804' ROP 465' @ 58.1 FPH, WOB 3-25k, RPM 85-105, PP 950 psi, GPM 420, STK 120



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Total Costs to Date	
Daily Cost Total	Cum Cost To Date
19,415.00	239,597.23

Spud Date	Ground/Corrected Ground Elevation (ft)	KB-Ground Distance (ft)
1/3/2014 6:00:00 PM	3,323.00	13.00

Daily Operations

1/7/2014 06:00 - 1/8/2014 06:00

Operation Summary # 1

Drill f/ 3804' to 5370' ROP 1566' @ 72.8 FPH, Last survey @ 5229' degree 0.92, Function test BOP's

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
06:00	06:30	0.50	0.50	Wire line survey @ 3770' degree 1.09
06:30	13:00	6.50	7.00	Drill f/ 3804' to 4300' ROP 496' @ 76.3 FPH, WOB 3-25k, RPM 85-105, PP 950 psi, GPM 420, STK 120
13:00	13:30	0.50	7.50	Service rig
13:30	14:00	0.50	8.00	Wire line survey @ 4254' degree 0.62
14:00	21:30	7.50	15.50	Drill f/ 4300' to 4796' ROP 496' @ 66.1 FPH, WOB 3-25k, RPM 85-105, PP 1025 psi, GPM 420, STK 120
21:30	22:00	0.50	16.00	Wire line survey @ 4734' degree 0.94
22:00	04:30	6.50	22.50	Drill f/ 4796' to 5291' ROP 495' @ 76.1 FPH, WOB 3-25k, RPM 85-105, PP 1100 psi, GPM 420, STK 120
04:30	05:00	0.50	23.00	Wire line survey @ 5229' degree 0.92
05:00	06:00	1.00	24.00	Drill f/ 5291' to 5370' ROP 79' @ 79 FPH, WOB 3-25k, RPM 85-105, PP 1100 psi, GPM 420, STK 120



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Total Costs to Date	
Daily Cost Total	Cum Cost To Date
39,577.00	279,174.23

Spud Date	Ground/Corrected Ground Elevation (ft)	KB-Ground Distance (ft)
1/3/2014 6:00:00 PM	3,323.00	13.00

Daily Operations

1/8/2014 06:00 - 1/9/2014 06:00

Operation Summary # 1

Drill f/ 5370' to 6795' ROP 1425' @ 64.7 FPH, Last survey @ 6717' degree 0.61, Function test BOP's

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
06:00	10:30	4.50	4.50	Drill f/ 5370' to 5787' ROP 417' @ 92.6 FPH, WOB 3-25k, RPM 85-105, PP 1100 psi, GPM 420, STK 120
10:30	11:00	0.50	5.00	Service rig, function test BOP's
11:00	11:30	0.50	5.50	Survey @ 5725' degree 0.21
11:30	18:30	7.00	12.50	Drill f/ 5787' to 6284' ROP 497' @ 71 FPH, WOB 3-25k, RPM 85-105, PP 1190 psi, GPM 420, STK 120
18:30	19:00	0.50	13.00	Survey @ 6222' degree 0.53
19:00	05:00	10.00	23.00	Drill f/ 6284' to 6779' ROP 495' @ 49.5 FPH, WOB 3-25k, RPM 85-105, PP 1190 psi, GPM 420, STK 120
05:00	05:30	0.50	23.50	Survey @ 6717' degree 0.53
05:30	06:00	0.50	24.00	Drill f/ 6779' to 6795' ROP 26' @ 52 FPH, WOB 3-25k, RPM 85-105, PP 1190 psi, GPM 420, STK 120



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Total Costs to Date	
Daily Cost Total	Cum Cost To Date
19,415.00	298,589.23

Spud Date	Ground/Corrected Ground Elevation (ft)	KB-Ground Distance (ft)
1/3/2014 6:00:00 PM	3,323.00	13.00

Daily Operations

1/9/2014 06:00 - 1/10/2014 06:00

Operation Summary # 1

Drill f/ 6795' to 7299' ROP 504' @ 42 FPH, Check for wash out, POOH, wash out @ 6734', TIH with RR bit to 5652'

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
06:00	06:30	0.50	0.50	Service rig, BOP drill 51 seconds
06:30	18:30	12.00	12.50	Drill f/ 6795' to 7299' ROP 504' @ 42 FPH, WOB 3-25k, RPM 85-105, PP 1190 psi, GPM 420, STK 120
18:30	19:30	1.00	13.50	Check surface equipment due to pressure loss 200 psi, pump soft line, pressure spiked at 987 strokes, estimated wash at 5776'
19:30	01:30	6.00	19.50	POOH with pipe spinners, looking for wash out, wash out @ 6734', continue POOH
01:30	02:30	1.00	20.50	C/O Bit RR Ulterra # 22214 from FCU 7332, L/D one joint DP, Clean rig floor
02:30	06:00	3.50	24.00	TIH to 5652'



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Total Costs to Date	
Daily Cost Total	Cum Cost To Date
27,300.45	376,592.68

Spud Date	Ground/Corrected Ground Elevation (ft)	KB-Ground Distance (ft)
1/3/2014 6:00:00 PM	3,323.00	13.00

Daily Operations

1/10/2014 06:00 - 1/11/2014 06:00

Operation Summary # 1

Drill f/ 7299' to 7545', POOH, Run Triple combo logs, TIH, Circulate, Prepare to L/D drill pipe

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
06:00	07:30	1.50	1.50	TIH f/ 5652' to 7299'
07:30	13:30	6.00	7.50	Drill f/ 7299' to 7545' ROP 246' @ 41 FPH, WOB 3-25k, RPM 85-105, PP 1290 psi, GPM 420, STK 120
13:30	14:00	0.50	8.00	Circulate and condition for trip
14:00	18:30	4.50	12.50	POOH for logs, no restrictions
18:30	19:30	1.00	13.50	Safety meeting with Halliburton crew and rig up
19:30	00:00	4.50	18.00	Running open hole logs, triple combo, loggers depth 7535'
00:00	01:30	1.50	19.50	Rig down logging tools
01:30	05:30	4.00	23.50	TIH, Function test BOP's
05:30	06:00	0.50	24.00	Circulate and condition to L/D drill string



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Total Costs to Date	
Daily Cost Total	Cum Cost To Date
142,438.79	519,031.47

Spud Date 1/3/2014 6:00:00 PM	Ground/Corrected Ground Elevation (ft) 3,323.00	KB-Ground Distance (ft) 13.00
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Daily Operations

1/11/2014 06:00 - 1/12/2014 06:00

Operation Summary # 1

Circulate, L/D Drill string, Run 5 1/2" J-55 17# casing to 7545', Cement casing, set slips, N/D BOP's

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
06:00	07:00	1.00	1.00	Circulate and condition
07:00	07:30	0.50	1.50	Held safety meeting with Lewis L/D crew, R/U L/D machine
07:30	14:00	6.50	8.00	L/D drill string
14:00	14:30	0.50	8.50	Held safety meeting, R/U Lewis casing tools
14:30	21:00	6.50	15.00	RAN FLOAT SHOE, 1 SHOE JOINT, FLOAT COLLAR , CIRCULATE THROUGH SHOE TRACK, RAN A TOTAL OF 172 JOINTS + 1 MARKER JOINT OF 5 1/2", 17#, J-55, LT&C CASING TO 7500, WASHED LAST JOINT DOWN FOR SAFETY TO 7545'
21:00	23:00	2.00	17.00	Circulate and condition for cement job
23:00	00:00	1.00	18.00	Held safety meeting with Crest cementers, R/U cement tools
00:00	02:00	2.00	20.00	INSTALL CEMENT HEAD AND STEEL LINES, TESTED LINES TO 5,000 PSI, CREST CEMENTED 5 1/2" O.D. CASING AT 7,545' WITH LEAD CEMENT 650 SACKS CLASS H 50/50 POZ + 6 % GEL + 5% SALT + 0.1% CPT-20 + 0.6% CPT-12 + 4 PPS KOLSEAL MIXED AT 11.5 PPG, YIELD 2.70 WITH 15.61 GPS FRESH WATER CONTINUED CEMENTING TAIL CEMENT AS FOLLOWS 600 SACKS CLASS H PLUS + 3% SALT + 0.15% CPT-35 + 1% GEL + 0.25% CITRIC ACID + 0.25% CPT- 20 + 4 PPS KOLSEAL MIXED AT 13.2 PPG, YIELD 1.64 WITH 8.41 GPS FRESH WATER DISPLACED CEMENT IN CASING WITH 174 BBLs FRESH WATER HAD 110 BBLs, 228 SKS. GOOD CEMENT RETURNS TO SURFACE, BUMPED PLUG AT 0100 A.M., 01-11-14 WITH 2,200 PSI RELEASED PRESSURE FLOATS HELD O.K. BLED BACK 1.5 bbl
02:00	03:00	1.00	21.00	Rig down cementing tools
03:00	06:00	3.00	24.00	N/D BOP's, Set slips with 90k, continue N/D



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15,833.00	534,864.47

Spud Date	1/3/2014 6:00:00 PM	Ground/Corrected Ground Elevation (ft)	3,323.00	KB-Ground Distance (ft)	13.00
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Daily Operations

1/12/2014 06:00 - 1/12/2014 09:00

Operation Summary # 1

N/D, Clean mud pits, release rig 1/12/14 @ 09:00 hours

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
06:00	08:00	2.00	2.00	Continue N/D BOP's
08:00	09:00	1.00	3.00	Clean mud pits , Release rig 1/12/14 @ 09:30