



Midland Partner Report

Well Name: Fcu 7148

State: Texas

API#: 4200345643

County: Andrews

AFE#: 1300447

Location: ~14.5 miles northwest of Andrews, TX

Rig Contr.: Pioneer 40

Total Costs to Date	
Daily Cost Total	Cum Cost To Date

Spud Date	Ground/Corrected Ground Elevation (ft) 3,281.00	KB-Ground Distance (ft) 13.00
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Daily Operations

12/10/2013 23:30 - 12/11/2013 06:00

Operation Summary # 1

RD and move to FCU 7148

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
23:30	06:00	6.50	6.50	PREPARE TO MOVE TO FCU 7148



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Total Costs to Date

Daily Cost Total	Cum Cost To Date
16,495.00	29,950.00

Spud Date	Ground/Corrected Ground Elevation (ft) 3,281.00	KB-Ground Distance (ft) 13.00
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Daily Operations

12/11/2013 06:00 - 12/12/2013 06:00

Operation Summary # 1

Move from FCU 7042 to FCU 7148, R/U, raised derrick at 1600 hrs, released trucks at 1700 hrs, N/U conductor, strap BHA, pre spud safety meeting and inspection, prepare to spud at 0600hours

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
06:00	03:00	21.00	21.00	HELD SAFETY MEETING TO REVIEW JSA WITH RIG CREW AND BRANTLEY TRUCKING, RIGGING DOWN PIONEER RIG # 40 ON FCU # 7042 LOCATION, RIGGING UP ON FCU # 7148 LOCATION, TRRC NOTIFIED @ 14:30 HOURS 12-11-13 OF INTENT SPUD JOB # 17348, Raised Derrick at 16:00 hours, released trucks at 17:00 hours, continue rigging up, flushed though kelly, pressure test liners to 80% of rating, (2000 psi)
03:00	04:00	1.00	22.00	N/U conductor
04:00	06:00	2.00	24.00	Pre spud safety meeting and inspection, strap BHA, mix spud mud, M/U bit, function test TIW and dart vales



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Total Costs to Date	
Daily Cost Total	Cum Cost To Date
30,081.40	60,031.40

Spud Date	Ground/Corrected Ground Elevation (ft)	KB-Ground Distance (ft)
	3,281.00	13.00

Daily Operations

12/12/2013 06:00 - 12/13/2013 06:00

Operation Summary # 1

Drill f/ 55' to 1766' ROP 1656' @ 84 FPH, WOB 5-15k, RPM 90-110, GPM 420, STKS 120, PP 735 psi, POOH, L/D 8" DC

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
06:00	11:00	5.00	5.00	Spud 06:00 12-12-13, Drill f/ 55' to 367' ROP 312' @ 62 FPH, WOB 3-5k, RPM 70, GPM 270, STKS 70, PP 95 psi
11:00	11:30	0.50	5.50	Wire line survey @ 250' degree 0.19
11:30	15:00	3.50	9.00	Drill f/ 367' to 813', ROP 446' @ 127 FPH, WOB 5-10k, RPM 90-115, PP 680 psi, STKS 120, GPM 420
15:00	15:30	0.50	9.50	Wire line survey @ 750' degree 0.58
15:30	17:30	2.00	11.50	Drill f/ 813' to 999', ROP 186' @ 93 FPH, WOB 5-10k, RPM 90-115, PP 680 psi, STKS 120, GPM 420
17:30	18:00	0.50	12.00	Service rig
18:00	20:30	2.50	14.50	Drill f/ 999' to 1310', ROP 311' @ 124 FPH, WOB 5-10k, RPM 90-115, PP 700 psi, STKS 120, GPM 420
20:30	21:00	0.50	15.00	Wire line survey @ 1248' degree 0.26
21:00	03:30	6.50	21.50	Drill f/ 1310' to 1766', ROP 456' @ 70 FPH, WOB 5-10k, RPM 90-115, PP 735 psi, STKS 120, GPM 420
03:30	06:00	2.50	24.00	POOH for casing



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Total Costs to Date	
Daily Cost Total	Cum Cost To Date
111,522.63	172,641.20

Spud Date	Ground/Corrected Ground Elevation (ft)	KB-Ground Distance (ft)
12/12/2013 6:00:00 AM	3,281.00	13.00

Daily Operations

12/13/2013 06:00 - 12/14/2013 06:00

Operation Summary # 1

POOH, Run 8 5/8" casing to 1766', Cement, install well head, N/U BOP's and Test, TIH

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
06:00	07:00	1.00	1.00	L/D 3 DC 8"
07:00	08:00	1.00	2.00	Held safety meeting, rig up Lewis casing and L/D machine
08:00	11:30	3.50	5.50	MAKE UP SHOE TRACK AND ESTABLISHED CIRCULATION THROUGH FLOATS O.K. RAN A TOTAL OF 40 JOINTS OF 8 5/8" O.D., 24 #, J - 55, ST&C CASING TO 1,766', HAD TO WASH LAST 3 JOINTS FROM 1,640' TO 1,766'
11:30	12:30	1.00	6.50	Circulate and condition for cement job
12:30	14:00	1.50	8.00	TESTED LINES TO 3,000 PSI O.K. CREST CEMENTED 8 5/8" O.D. CASING AT 1,766' WITH 555 SACKS, 173 BBLS CLASS C CEMENT + 4% GEL + 2% CACL2 + 0.25# 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% CACL2 + 0.25# CELLOPHANE FLAKES MIXED AT 14.8 PPG, YIELD 1.34 WITH 6.35 GPS FRESH WATER, DISPLACED CEMENT WITH 109 BBLS FRESH WATER (CALCULATED DISPLACEMENT) BUMPED PLUG WITH 1760 psi RELEASED PRESSURE AND FLOATS HELD O.K., JOB COMPLETE AT 1400 12-13-13, HAD 105 BBLS, (335sks) GOOD CEMENT RETURNS TO SURFACE
14:00	18:00	4.00	12.00	Wait on cement
18:00	20:00	2.00	14.00	MAKE ROUGH CUT ON CASING AND LAY DOWN CONDUCTOR AND LANDING JOINT, MAKE FINAL CUT AND INSTALL LARKIN MODEL 92 WELD ON HEAD
20:00	00:00	4.00	18.00	INSTALL LARKIN WELL HEAD FLANGE , NIPPLE UP BOP STACK, HYDRAULIC LINES, CHOKE LINE KILL LINE AND TURNBUCKLES, FUNCTION TEST BOP'S O.K. FLUSH THRU KILL LINES AND CHOKE VALVES
00:00	03:30	3.50	21.50	TEST BOP'S BLIND RAMS, CASING 1000 PSI FOR 30 MINUTES, KILL LINE VALVES, HCR AND 4" MANUEL VALVE , CHOKE LINE AND CHOKE MANIFOLD VALVES TO 250 PSI LOW, 1,000 PSI HIGH HELD O.K.
03:30	06:00	2.50	24.00	P/U, strap and make up BHA, Bit Ulterra U616M, TIH



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AFE#: 1300447

Total Costs to Date	
Daily Cost Total	Cum Cost To Date
19,408.49	192,049.69

Spud Date	Ground/Corrected Ground Elevation (ft)	KB-Ground Distance (ft)
12/12/2013 6:00:00 AM	3,281.00	13.00

Daily Operations

12/14/2013 06:00 - 12/15/2013 06:00

Operation Summary # 1

TIH, Test BOP's, FIT 200 psi, Drill f/ 1766' to 3250' ROP 1484' @ 84.4 FPH, WOB 15k, RPM 90-100, SPM 120, GPM 420, PP 985 psi, Last survey @ 2689' degree 0.92

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
06:00	06:30	0.50	0.50	Service rig
06:30	07:00	0.50	1.00	TIH f/ 632' to 1624'
07:00	07:30	0.50	1.50	Displace fresh water with Brine water
07:30	09:30	2.00	3.50	Test Hydril and pipe rams 250 psi low- 1000 psi high, choke valves, Test koomey unit (OK)
09:30	10:00	0.50	4.00	TIH f/ 1624' to 1709' tagged cement
10:00	10:30	0.50	4.50	Drill cement, f/1709' to 1766', float equipment
10:30	11:00	0.50	5.00	Drill f/ 1766' to 1776'
11:00	11:30	0.50	5.50	FIT 200 psi (OK)
11:30	16:30	5.00	10.50	Drill f/ 1776' to 2256' WOB 7-22k, RPM 90-100, SPM 120, GPM 420, PP 950 psi
16:30	17:00	0.50	11.00	Wire line survey @ 2194' degree 1.0
17:00	21:30	4.50	15.50	Drill f/ 2256' to 2751' ROP 495' @ 110 FPH, WOB 7-22, RPM 90-100, SPM 120, GPM 420, PP 950 psi
21:30	22:00	0.50	16.00	Wire line survey @ 2689' degree 0.92
22:00	06:00	8.00	24.00	Drill f/ 2751' to 3250' ROP 499' @ 62.3 FPH, WOB 7-22, RPM 90-100, SPM 120, GPM 420, PP 985 psi



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Total Costs to Date	
Daily Cost Total	Cum Cost To Date
16,499.00	208,548.69

Spud Date	Ground/Corrected Ground Elevation (ft)	KB-Ground Distance (ft)
12/12/2013 6:00:00 AM	3,281.00	13.00

Daily Operations

12/15/2013 06:00 - 12/16/2013 06:00

Operation Summary # 1

Drill f/ 3250' to 4397' ROP 1147 @ 53.3 FPH, WOB 20k, RPM 90, GPM 420, STKS 120, PP 1130 psi, last survey @ 4179' degree 0.92

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
06:00	06:30	0.50	0.50	Wire line survey @ 3188' degree 1.55
06:30	15:30	9.00	9.50	Drill f/ 3250' to 3754' ROP 504' @ 56 FPH , WOB 7-22, RPM 90-100, SPM 120, GPM 420, PP 985 psi
15:30	16:00	0.50	10.00	Wire line survey @ 3188' degree 0.49
16:00	16:30	0.50	10.50	Service rig, BOP drill 42 seconds9.5
16:30	02:00	9.50	20.00	Drill f/ 3754' to 4241' ROP 487' @ 51.6 FPH , WOB 7-22, RPM 90-100, SPM 120, GPM 420, PP 1040 psi
02:00	03:00	1.00	21.00	Wire line survey @ 3188' degree 0.92
03:00	06:00	3.00	24.00	Drill f/ 4241' to 4397' ROP 156' @ 52 FPH , WOB 7-22, RPM 90-100, SPM 120, GPM 420, PP 1080 psi



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API#: 4200345643

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Total Costs to Date	
Daily Cost Total	Cum Cost To Date
23,690.45	233,839.14

Spud Date	Ground/Corrected Ground Elevation (ft)	KB-Ground Distance (ft)
12/12/2013 6:00:00 AM	3,281.00	13.00

Daily Operations

12/16/2013 06:00 - 12/17/2013 06:00

Operation Summary # 1

Drill f/ 4397' to 5575' ROP 1178 @ 52.3 FPH, WOB 25k, RPM 90, GPM 420, STKS 120, PP 1260 psi, last survey @ 5171' degree 1.24

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
06:00	13:00	7.00	7.00	Drill f/ 4397' to 4738' ROP 341' @ 48.7 FPH , WOB 10-25, RPM 90-100, SPM 120, GPM 420, PP 1220 psi
13:00	13:30	0.50	7.50	Wire line survey @ 4675' degree 0.84
13:30	17:30	4.00	11.50	Drill f/ 4738' to 4985' ROP 247' @ 61.7 FPH , WOB 10-25, RPM 90-100, SPM 120, GPM 420, PP 1220 psi
17:30	18:00	0.50	12.00	Service rig, BOP drill 40 seconds
18:00	22:30	4.50	16.50	Drill f/ 4985' to 5234' ROP 249' @ 55.3 FPH , WOB 10-25, RPM 90-100, SPM 120, GPM 420, PP 1220 psi
22:30	23:00	0.50	17.00	Wire line survey @ 5171' degree 1.24
23:00	06:00	7.00	24.00	Drill f/ 5234' to 5575' ROP 341' @ 48.7 FPH , WOB 10-25, RPM 90-100, SPM 120, GPM 420, PP 1220 psi



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AFE#: 1300447

Total Costs to Date	
Daily Cost Total	Cum Cost To Date
21,583.45	255,422.59

Spud Date	Ground/Corrected Ground Elevation (ft)	KB-Ground Distance (ft)
12/12/2013 6:00:00 AM	3,281.00	13.00

Daily Operations

12/17/2013 06:00 - 12/18/2013 06:00

Operation Summary # 1

Drill f/ 5575' to 6754' ROP 1179 @ 53 FPH, WOB 25k, RPM 90, GPM 420, STKS 120, PP 1325 psi, last survey @ 6661' degree 0.60

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
06:00	06:30	0.50	0.50	Service rig
06:30	09:00	2.50	3.00	Drill f/ 5575' to 5729' ROP 154' @ 61.6 FPH , WOB 10-25, RPM 90-100, SPM 120, GPM 420, PP 1220 psi
09:00	09:30	0.50	3.50	Wire line survey @ 5668' degree 0.74
09:30	17:30	8.00	11.50	Drill f/ 5729' to 6225' ROP 496' @ 62 FPH , WOB 25-30, RPM 90-100, SPM 120, GPM 420, PP 1320 psi
17:30	18:00	0.50	12.00	Wire line survey @ 6163' degree 0.01
18:00	05:30	11.50	23.50	Drill f/ 6225' to 6754' ROP 529' @ 46 FPH , WOB 25-30, RPM 90-100, SPM 120, GPM 420, PP 1375 psi
05:30	06:00	0.50	24.00	Wire line survey @ 6661' Degree 0.6



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AFE#: 1300447

Total Costs to Date	
Daily Cost Total	Cum Cost To Date
33,050.49	288,473.08

Spud Date	Ground/Corrected Ground Elevation (ft)	KB-Ground Distance (ft)
12/12/2013 6:00:00 AM	3,281.00	13.00

Daily Operations

12/18/2013 06:00 - 12/19/2013 06:00

Operation Summary # 1

DRILLED 7 7/8" HOLE FROM 6,754' TO 7,106', 352' AT 39 FPH, CIRCULATE HOLE CLEAN, P.O.O.H. RIG UP AND RUN OPEN HOLE LOG WITH HALLIBURTON, T.I.H. W/ RR BIT # 2

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
06:00	15:00	9.00	9.00	DRILLED 7 7/8" HOLE FROM 6,754' TO 7,106', 352' AT 39 FPH, WOB 32, RPM 85 / 100, PP 1350, GPM 420, SPM 120, ADD 67 SACKS OF STARCH BGG = 320, CONN = 250, LITHOLOGY 50% LIMESTONE, 50% DOLOMITE
15:00	16:30	1.50	10.50	PUMP HI-VIS SWEEP AND CIRCULATE HOLE CLEAN RECOVERED LARGE PIECES OF SALT
16:30	17:00	0.50	11.00	SERVICE RIG FUNCTION BOP'S
17:00	21:30	4.50	15.50	SLM OUT OF HOLE, PULL ROTATING HEAD, LAY DOWN 3 POINT REAMERS AND BIT
21:30	04:00	6.50	22.00	HELD SAFETY MEETING WITH RIG CREW AND HALLIBURTON LOGGING TEAM, RIG UP AND RUN TRIPPLE COMBO LOG FROM 7,098' TO 200' LAY DOWN LOGGING TOOLS AND RIG DOWN LOGGING UNIT
04:00	06:00	2.00	24.00	MAKE UP RR BIT # 2 AND T.I.H



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Total Costs to Date	
Daily Cost Total	Cum Cost To Date
150,303.66	438,776.74

Spud Date	Ground/Corrected Ground Elevation (ft)	KB-Ground Distance (ft)
12/12/2013 6:00:00 AM	3,281.00	13.00

Daily Operations

12/19/2013 06:00 - 12/20/2013 06:00

Operation Summary # 1

CONTINUE T.I.H. CIRCULATE HOLE CLEAN, P.O.O.H. AND LAY DOWN DP, BREAK KELLY, LAY DOWN BHA, R/U LEWIS CASING CREW AND RAN 162 JOINTS OF 5 1/2" O.D. CASING TO 7,106, CIRCULATE HOLE CLEAN, CEMENTING WITH CREST

Time Log

Start Time	End Time	Dur (hrs)	Cum Dur (hrs)	Comment
06:00	09:00	3.00	3.00	CONTINUE TRIPPING IN HOLE TO 7,007'
09:00	09:30	0.50	3.50	WASH AND REAM 7,007' TO 7,106' FOR SAFETY
09:30	10:30	1.00	4.50	PUMP HI-VIS SWEEP AND CIRCULATE HOLE CLEAN, HELD SAFETY MEETING AND RIG UP LEWS LAY DOWN MACHINE
10:30	19:00	8.50	13.00	DROP SURVEY, P.O.O.H. LAY DOWN DP, BREAK KELLY, LAY DOWN BHA AND BIT, SURVEY AT 7,058' = 0.52°
19:00	20:00	1.00	14.00	HELD SAFETY MEETING WITH LEWIS CASING CREW AND RIG CREW, RIG UP CASING TOOLS
20:00	03:00	7.00	21.00	RAN FLOAT SHOE, 1 SHOE JOINT, FLOAT COLLAR, CIRCULATE THROUGH SHOE TRACK, RAN A TOTLA OF 162 JOINTS + 1 MARKER JOINT OF 5 1/2", 17#, J-55, LT&C CASING TO 6,974, WASHED LAST 3 JOINTS DOWN FOR SAFETY TO 7,106'
03:00	04:30	1.50	22.50	CIRCULATE HOLE CLEAN, HELD SAFETY MEETING WITH RIG CREW AND CREST CEMENTERS
04:30	06:00	1.50	24.00	INSTALL CENENT HEAD AND STEEL LINES, TESTED LINES TO 5,000 PSI, CREST CEMENTED 5 1/2" O.D. CASING AT 7,106' WITH 800 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 PUMPING LEAD CEMENT