Partner - Drilling

Well Name: Fcu 7218 **Date: 5/5/2017**

Well Name	API/UWI	State/Province	County
Fcu 7218	4200347233	Texas	Andrews
Permit Number	**Spud Date**	**Ground/Corrected Ground Elevation (ft)**	**KB-Ground Distance (ft)**
809496		3,336.00	13.00

Mud Properties

Dens (lb/gal)	Vis (s/qt)

Rig Info

Rig

Rig Release Date

RR Date

Survey Information

Date	Description	EWTie In (ft)	NSTie In (ft)	Azimuth Tie In (°)	Inclination Tie In (°)	MD Tie In (ftKB)	TVDTie In (ftKB)

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)

Daily Summary

Report Start Date	Report End Date	Footage (ftKB)	End Depth (ftKB)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
5/5/2017 14:30	5/6/2017 06:00		0.0	74,960.84	74,960.84

Activity

Waiting on mobilization trucks

24hr Activity

Com
Rig Down.
Welder on site to replace floor plate on doghouse floor, repair braces on flow line on shaker tank, patch holes in doghouse floor, clean radiator on mud pump #2, change pony rod seals on mud pump #1, slip and cut 90' drill line.
Wait on mobilization trucks.

Partner - Drilling

Well Name: Fcu 7218 **Date: 5/6/2017**

Well Name	API/UWI	State/Province	County
Fcu 7218	4200347233	Texas	Andrews
Permit Number	**Spud Date**	**Ground/Corrected Ground Elevation (ft)**	**KB-Ground Distance (ft)**
809496		3,336.00	13.00

Mud Properties

Dens (lb/gal)	Vis (s/qt)
9.80	31

Rig Info

Rig
Basic, 37

Rig Release Date

RR Date

Survey Information

Date	Description	EWTie In (ft)	NSTie In (ft)	Azimuth Tie In (°)	Inclination Tie In (°)	MD Tie In (ftKB)	TVDTie In (ftKB)
5/6/2017	MWD	0.00	0.00	0.0	0.5	197.00	209.38

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)
197.00	0.50	0.00	209.38	0.00	0.00	0.00	0.00
437.00	0.40	0.00	449.37	1.88	0.00	1.88	0.04
896.00	0.40	0.00	908.36	5.09	0.00	5.09	0.00
1,370.00	0.20	0.00	1,382.35	7.57	0.00	7.57	0.04
1,708.00	0.30	0.00	1,720.35	9.05	0.00	9.05	0.03

Daily Summary

Report Start Date	Report End Date	Footage (ftKB)	End Depth (ftKB)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
5/6/2017 06:00	5/7/2017 06:00	1,667.00	1,720.0	42,927.80	117,888.64

Activity: Circulate.

24hr Activity

Com
Move Rig and Rig Up Basic Rig 37, Raise Derrick @ 12:08 hrs, Weld on conductor pipe. Pre-Spud Safety Inspection & Safety Meeting.
P/U & M/U 11" Ulterra PDC Bit, Bit Sub w/ solid float, Inclination tool & 1x 8" DC. Spud @ 19:45 hrs 5/6/2017.
Rot Drlg f/ 53' - 1,720', 1,667', avg rop 171 fph, 35k wob, 115 - 120 rpm, 520 gpm, 1570 psi SPP.
Pump 50 bbls high vis sweep & circulate wellbore clean.

Partner - Drilling

Well Name: Fcu 7218 **Date: 5/7/2017**

Well Name	API/UWI	State/Province	County
Fcu 7218	4200347233	Texas	Andrews
Permit Number	**Spud Date**	**Ground/Corrected Ground Elevation (ft)**	**KB-Ground Distance (ft)**
809496	5/6/2017 19:45	3,336.00	13.00

Mud Properties

Dens (lb/gal)	Vis (s/qt)
10.00	29

Rig Info

Rig
Basic, 37

Rig Release Date

RR Date

Survey Information

Date	Description	EWTie In (ft)	NSTie In (ft)	Azimuth Tie In (°)	Inclination Tie In (°)	MD Tie In (ftKB)	TVDTie In (ftKB)
5/6/2017	MWD	0.00	0.00	0.0	0.5	197.00	209.38

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)
197.00	0.50	0.00	209.38	0.00	0.00	0.00	0.00
437.00	0.40	0.00	449.37	1.88	0.00	1.88	0.04
896.00	0.40	0.00	908.36	5.09	0.00	5.09	0.00
1,370.00	0.20	0.00	1,382.35	7.57	0.00	7.57	0.04
1,708.00	0.30	0.00	1,720.35	9.05	0.00	9.05	0.03

Daily Summary

Report Start Date	Report End Date	Footage (ftKB)	End Depth (ftKB)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
5/7/2017 06:00	5/8/2017 06:00	0.00	1,720.0	46,014.77	163,903.41

Activity
TIH.

24hr Activity

Com
Trip out Hole racking back 4-1/2" DP & 6-1/4" DC's in derrick. Washed and worked tight hole at 1,402' - 1,390' and 139' - 109'.
L/D 11" CapRock PDC Bit, Bit Sub w/ Solid float, Invictus Inclination Tool, RR & 3 x 8" DC's.
Held PJSM, Rig up Thompson Csg Crew and Lay Down Machine.
Run 8-5/8" Surface Csg. as follows: 1 - 8 5/8" Guide Shoe (0.80'), 1 - joint 8 5/8" 24 lb/ft J-55 STC (42.11'), 1 - 8 5/8" Float Collar (1.15'), 40 - joints 8 5/8" 24 lb/ft J-55 STC (1,677.95'), Ran a total of 41 joints 1,722.01'. Set @ 1,720'. Top of Guide Shoe @ 1,719' & Top of FC @ 1,675', Dressed w/ Weatherford Float Equipment & Centralizers, Thread Locked GS, SJ, FC, & 2nd joint, Torque Casing to Opt 2,440 ft/lb, Place 11 Centralizers as per Program. Washed & worked joint # 40, 41 to bottom.
Circulate wellbore @ 403 gpm w/ 286 psi SPP. While circulating R/D Thompson Casing Crew & Laydown Machine.
PJSM, Rig up Halliburton Cement Equipment, Cement 8 5/8" Casing as follows, Test Lines to 3,000 psig, Pump 20 bbls/ Gel Spacer Ahead of 380 sxs Lead Econocem Class "C" Cement Mixed @ (Density 12.50 ppg, Yield 2.11 cu.ft/sk, Water 11.52 gal/sk Total 143 bbls/slurry = 802 cu/ft), Pumped @ 6 bbl/min, w/ 75 psig, Followed by 205 sxs Tail Halcem Class "C" Cement Mixed @ (Density 14.50 ppg, Yield 1.35 cu.ft/sk, Water 6.51 gal/sk, Total 49 bbls/slurry = 277 cu/ft), Pumped @ 5 bbl/min, w/ 160 psig, Release Plug & Displace with 107 bbls of 8.3 ppg FW @ 8 bbls/min, @ 530 psig, Bump Plug 500 psig over @ 2.8 bbls/min to Final Bump 1,030 psig @ 17:33 hrs. 5/7/2017, Release Pressure Bleed Back 1/2 bbl to Tank. Float Held, Full returns entire job, circulated 77 bbls = 205 sks of cement to surface, RD Halliburton Equipment.
Held PJSM. Cut Conductor & 8 5/8" Casing, Weld on 11"3M x 8 5/8" SOW GE Casing Head. Test to 1000 psig / 5 min (Test ok).
Held PJSM. N/U Shaffer 11"5M Double Ram BOP, Annular, Rotating Head & 3 1/8"5M x 2 1/16"5M Choke Manifold, Kill Lines & Flowline, Function Test BOP.
Pump through BOP & Choke Manifold, Test w/ Rig Pump, Test Blind Rams, 4" Manual Valve, Upper Kelly Valve & Choke Manifold 250 psig low & 1,500 psig high. Test each for 5 minutes. (Test ok)
Test 8 5/8" Surface Casing to 1,000 psig for 30 minutes per TRRC. (Test ok)
Change out internal quick connect on blind ram door on BOP.
Retest blind rams.
Strap and Caliper & Pick up BHA Motor, Surefire Inclination tool and RR's.
Trip in Hole w/ Bit #2 CapRock 616SRK.

Partner - Drilling

Well Name: Fcu 7218 **Date: 5/8/2017**

Well Name	API/UWI	State/Province	County
Fcu 7218	4200347233	Texas	Andrews
Permit Number	**Spud Date**	**Ground/Corrected Ground Elevation (ft)**	**KB-Ground Distance (ft)**
809496	5/6/2017 19:45	3,336.00	13.00

Mud Properties

Dens (lb/gal)	Vis (s/qt)
10.00	29

Rig Info

Rig
Basic, 37

Rig Release Date

RR Date

Survey Information

Date	Description	EWTie In (ft)	NSTie In (ft)	Azimuth Tie In (°)	Inclination Tie In (°)	MD Tie In (ftKB)	TVDTie In (ftKB)
5/6/2017	MWD	0.00	0.00	0.0	0.5	197.00	209.38

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)
2,562.00	1.60	0.00	2,574.21	23.69	0.00	23.69	0.55
2,656.00	1.70	0.00	2,668.17	26.40	0.00	26.40	0.11
2,752.00	1.10	0.00	2,764.14	28.74	0.00	28.74	0.62
2,847.00	1.40	0.00	2,859.12	30.81	0.00	30.81	0.32
2,943.00	1.00	0.00	2,955.10	32.83	0.00	32.83	0.42

Daily Summary

Report Start Date	Report End Date	Footage (ftKB)	End Depth (ftKB)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
5/8/2017 06:00	5/9/2017 06:00	1,295.00	3,015.0	23,095.59	186,844.00

Activity: Drilling Production Hole @ 3,015'

24hr Activity

Com
Trip in Hole w/ Bit #2 CapRock 616SRK.
Install Rotating Head & Displace hole to 10# brine.
Test Pipe Rams & Annular @ 250 psig low & 1,500 psig high (Test ok)
Drlg Plug, Float Collar & 42' of Cement. Tagged Cement @ 1,672'. wob: 12, rpm: 55, motor rpm 97, spm 100 spp: 1,010 psi.
Rot Drlg f/ 1,720' - 2,289', 569', avg rop 88 fph, 25K WOB, Rotary 75 RPM, Motor 150 RPM, Total RPM 225, SPP 2,450 psi. 520 gpm.
Lubricate Rig
Rot Drlg f/ 2,289' - 3,015', avg rop 54 fph, 15 - 20K WOB, Rotary 75 - 85 RPM, Motor 150 RPM, Total RPM 225 - 235, SPP 2,597 psi. 540 gpm.

Partner - Drilling

Well Name: Fcu 7218 **Date: 5/9/2017**

Well Name	API/UWI	State/Province	County
Fcu 7218	4200347233	Texas	Andrews
Permit Number	**Spud Date**	**Ground/Corrected Ground Elevation (ft)**	**KB-Ground Distance (ft)**
809496	5/6/2017 19:45	3,336.00	13.00

Mud Properties

Dens (lb/gal)	Vis (s/qt)
10.00	29

Rig Info

Rig
Basic, 37

Rig Release Date

RR Date

Survey Information

Date	Description	EWTie In (ft)	NSTie In (ft)	Azimuth Tie In (°)	Inclination Tie In (°)	MD Tie In (ftKB)	TVDTie In (ftKB)
5/6/2017	MWD	0.00	0.00	0.0	0.5	197.00	209.38

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)
2,943.00	1.00	0.00	2,955.10	32.83	0.00	32.83	0.42
3,101.00	1.00	0.00	3,113.07	35.58	0.00	35.58	0.00
3,259.00	0.70	0.00	3,271.06	37.93	0.00	37.93	0.19
3,538.00	1.00	0.00	3,550.02	42.07	0.00	42.07	0.11
4,012.00	1.10	0.00	4,023.94	50.75	0.00	50.75	0.02

Daily Summary

Report Start Date	Report End Date	Footage (ftKB)	End Depth (ftKB)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
5/9/2017 06:00	5/10/2017 06:00	1,423.00	4,438.0	17,435.36	204,279.36

Activity: Drilling Production Hole @ 4,438'.

24hr Activity

Com
Rot Drlg f/ 3,015' - 3,300', 285', avg rop 67 fph, 18 - 28K wob, Rotary 80 rpm, Motor 150 rpm, Total rpm 230. spp 2,750 psi. 538 gpm.
TOH 25 stands to 8-5/8" casing shoe.
Change out torque converter on #2 floor motor.
TIH.
Rot Drlg f/ 3,300' - 3,489', 189', avg rop 76 fph, 28K wob, Rotary 80 rpm, Motor 149 rpm, Total rpm 229. spp 2,700 psi. 534 gpm.
Lubricate Rig.
Rot Drlg f/ 3,489' - 4,438', 949', avg rop 73 fph, 35K wob, Rotary 80 rpm, Motor 140 rpm, Total rpm 220. spp 2,750 psi. 500 gpm.