



Partner - Drilling

Well Name: Fcu 7918

Date: 4/17/2016

Well Name Fcu 7918	API/UWI 4200347240	State/Province Texas	County Andrews
Permit Number 809504	Spud Date 4/16/2016 00:45	Ground/Corrected Ground Elevation (ft) 3,292.00	KB-Ground Distance (ft) 13.00

Mud Properties

Dens (lb/gal)	Vis (s/qt)
10.10	29

Rig Info

Rig
Basic, 37

Rig Release Date

RR Date

Survey Information

Date	Description	EW Tie In (ft)	NS Tie In (ft)	Azimuth Tie In (°)	Inclination Tie In (°)	MD Tie In (ftKB)	TVD Tie In (ftKB)
4/15/2016	MWD	0.00	0.00	0.0	0.0	0.00	0.00
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)
1,736.00	0.10	0.00	1,735.98	6.71	0.00	6.71	0.00
2,139.00	0.50	0.00	2,138.97	8.82	0.00	8.82	0.10
2,612.00	1.80	0.00	2,611.87	18.31	0.00	18.31	0.27
2,865.00	1.70	0.00	2,864.75	26.04	0.00	26.04	0.04
3,339.00	0.80	0.00	3,338.63	36.38	0.00	36.38	0.19

Daily Summary

Footage (ftKB)	End Depth (ftKB)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
1,769.00	3,505.0	27,330.50	200,415.81

Activity
Drilling 7-7/8" Hole Section

24hr Activity

Com
Continue Troubleshoot Surface Rig Equipment. Disconnect Mud Lines from BOP & Test Surface lines & Mud Pumps. 3.5% Pressure loss from 2000 psi to 1930 psi with 30 minutes test. (No Visual Leaks) Reconnect BOP & Test. 20% Pressure loss from 1080 psi to 860 psi with 30 minutes test. (No Visual Leaks), Test Failed, Continue to Troubleshoot,
Safety Meeting, Rig up Monahans Nipple Up Service, Set Plug & Test Blind Rams, 4" Manual Valve & Choke Manifold 250 psig low & 1,500 psig high. Test each for 5 minutes. (Test ok) Test Pipe Rams, Upper & Lower Kelly Valve & Hydrill @ 250 psig low & 1,500 psig high (Test ok)
Test with Monahans Nipple Up Service, Test 8 5/8" Surface Casing to 1,000 psig for 30 minutes per TRRC. (Test ok) Rig Down Monahans Nipple Up Service.
Pick up BHA Motor & Surefire Survey Tool / Surface Test Motor & Survey Tool,
Trip in Hole w/ Bit #2 Cap Rock SR616
Install Rotating Head Rubber, Drlg Plug, Float Collar & 44' of Cement. Tagged Cement @ 1,685'.
wob: 10K, rpm: 60, spm: 104, motor 119 rpm, Total rpm 179, spp: 1,370 psi.
Rot Drlg f/ 1,736' - 3505', 1,769', avg rop 141.5 fph, 12-27 K WOB, 70-80 RPM, Motor 130 RPM, Total RPM 200-210. 470gpm, 1,920 psi SPP



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4/15/2016	MWD	0.00	0.00	0.0	0.0	0.00	0.00
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)
3,812.00	0.90	0.00	3,811.58	43.39	0.00	43.39	0.02
4,285.00	0.60	0.00	4,284.54	49.59	0.00	49.59	0.06
4,759.00	0.40	0.00	4,758.52	53.72	0.00	53.72	0.04
5,229.00	1.00	0.00	5,228.48	59.46	0.00	59.46	0.13
5,705.00	0.70	0.00	5,704.43	66.53	0.00	66.53	0.06

Daily Summary

Footage (ftKB)	End Depth (ftKB)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
2,271.00	5,776.0	18,601.09	216,316.90

Activity
Drilling 7-7/8" Hole Section

24hr Activity

Com
Rot Drlg f/ 3,505' - 4,481', 976', avg rop 97.6 fph, 24-30K wob, Rotary 80 rpm, Motor 120 rpm, Total rpm 200, gpm 428, spp 2,170 psi, 104 spm Lubricate Rig.
Rot Drlg f/ 4,481' - 5,776', 1295', avg rop 96 fph, 28-35K wob, Rotary 65-85 rpm, Motor 124 rpm, Total rpm 189-209, gpm 444, spp 2,350 psi, 108 spm



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Dens (lb/gal)	Vis (s/qt)
10.20	27



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Mud Properties

Dens (lb/gal)	Vis (s/qt)
10.20	27



Partner - Drilling

Well Name: Fcu 7918

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Mud Properties

Dens (lb/gal)	Vis (s/qt)
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4/15/2016	MWD	0.00	0.00	0.0	0.0	0.00	0.00
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)
5,229.00	1.00	0.00	5,228.48	59.46	0.00	59.46	0.13
5,705.00	0.70	0.00	5,704.43	66.53	0.00	66.53	0.06
6,179.00	0.50	0.00	6,178.40	71.49	0.00	71.49	0.04
6,650.00	0.70	0.00	6,649.38	76.42	0.00	76.42	0.04
7,124.00	0.50	0.00	7,123.35	81.38	0.00	81.38	0.04

Daily Summary

Footage (ftKB)	End Depth (ftKB)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
1,584.00	7,360.0	20,975.17	237,292.07

Activity
Circulating wellbore clean

24hr Activity

Com
Rot Drlg f/ 5,776' - 6,566', 790', avg rop 75 fph, 30-34K wob, Rotary 80 rpm, Motor 116 rpm, Total rpm 196, gpm 415, spp 2,210 psi, 101 spm Lubricate Rig. Rot Drlg f/ 6,566' - 7360', 794', avg rop 62 fph, 30-37K wob, 60-85 RPM, Motor 116-126 rpm, Total RPM 176-211, 101-110 spm, 415-450 GPM, 2,210-2400 psi SPP Pump 60 bbl high vis sweep & commence to circulate hole clean. Held PJSM, Rig up Gabes Lay Down Machine.



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Mud Properties

Dens (lb/gal)	Vis (s/qt)
10.30	27



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Mud Properties

Dens (lb/gal)	Vis (s/qt)
10.30	27



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Mud Properties

Dens (lb/gal)	Vis (s/qt)
10.20	27



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Mud Properties

Dens (lb/gal)	Vis (s/qt)
10.20	27



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4/15/2016	MWD	0.00	0.00	0.0	0.0	0.00	0.00
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)
5,705.00	0.70	0.00	5,704.43	66.53	0.00	66.53	0.06
6,179.00	0.50	0.00	6,178.40	71.49	0.00	71.49	0.04
6,650.00	0.70	0.00	6,649.38	76.42	0.00	76.42	0.04
7,124.00	0.50	0.00	7,123.35	81.38	0.00	81.38	0.04
7,360.00	0.20	0.00	7,359.35	82.83	0.00	82.83	0.13

Daily Summary

Footage (ftKB)	End Depth (ftKB)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
0.00	7,360.0	120,274.62	357,566.69

Activity
Commence 5.5" cementing operations

24hr Activity

Com
Circulate hole clean. Held PJSM, Rig up Gabes Lay Down Machine. Safety Meeting, Laydown Drill Pipe, Break Kelly, Lay Down BHA, Motor & Invictvs Tool. RD Gabes Laydown Machine. Held PJSM, R/U Halliburton Logging Unit, Logged in hole w/ Spectral Density, Dual Laterolog Microguard, Dual Spaced Neutron, Gamma Ray. Loggers TD @ 7,358' WLM, 8 5/8" Csg Shoe located @ 1732' WLM. (AHVT = 1418 cu/ft, Casing AHV = 334 cu/ft, Total 1,752 cu/ft.) Layout Kelly for inspection. Held PJSM, R/U Gabe's Casing Crew & Lay Down Machine, Run 5 1/2" J-55 17# LT&C Csg As Follows 1- 5 1/2" Float Shoe (1.37'), 1- jnt 5 1/2" J-55 17# LT&C (44.02'), 1- 5 1/2" Float Collar (1.05'), 39 jnts 5 1/2" J-55 17# LT&C (1,670.56'), 1- Marker jnt 5 1/2" J-55 17# LT&C (18.80'), 124 jnts 5 1/2" J-55 17# LT&C (5,624.2'). Ran a Total of 164 jnts. Dressed w/ Weatherford Float Equipment, Bottom of FS @ 7,360', Top of FC @ 7,313', Marker jnt @ 5,624', Thd Locked FS, SJ, FC/ Torqued csg to Opt 2,470 ft/lb. Place 52 Cent. as per program. Note: P/U FS @ 23:00hrs Circulate Casing on Bottom with Full Returns, Rig Down Gabe's Casing Crew & Laydown Machine. P/U Halliburton Cement equipemtn to rig floor. Held PJSM. Commence R/U of Halliburton Cement Equipment.