



Partner - Drilling

Well Name: Fcu 7324

Date: 4/2/2017

Well Name Fcu 7324	API/UWI 4200347445	State/Province Texas	County Andrews
Permit Number 821058	Spud Date	Ground/Corrected Ground Elevation (ft) 3,302.00	KB-Ground Distance (ft) 13.00

Mud Properties

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

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

Daily Summary

Footage (ftKB)	End Depth (ftKB) 0.0	Daily Field Est Total (Cost) 69,657.48	Cum Field Est To Date (Cost) 69,657.48
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Activity
Waiting on mobilization trucks

24hr Activity

Com
Rig Down, cut and slip 70' of drill line, check chains in draw works & compound. Wait on Day Light.



Partner - Drilling

Well Name: Fcu 7324

Date: 4/3/2017

Well Name Fcu 7324	API/UWI 4200347445	State/Province Texas	County Andrews
Permit Number 821058	Spud Date 4/4/2017 05:00	Ground/Corrected Ground Elevation (ft) 3,302.00	KB-Ground Distance (ft) 13.00

Mud Properties

Dens (lb/gal)	Vis (s/qt)
8.40	28

Rig Info

Rig
Basic, 37

Rig Release Date

RR Date

Survey Information

Date 4/4/2017	Description MWD	EW Tie In (ft) 0.00	NS Tie In (ft) 0.00	Azimuth Tie In (°) 0.0	Inclination Tie In (°) 0.0	MD Tie In (ftKB) 0.00	TVD Tie In (ftKB) 0.00
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)

Daily Summary

Footage (ftKB) 34.00	End Depth (ftKB) 87.0	Daily Field Est Total (Cost) 44,760.39	Cum Field Est To Date (Cost) 114,417.87
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Activity
Drilling Surface at 87'

24hr Activity

Com
MIRU Rig Up Basic Rig 37. Spot mud tanks & sub structure. Welder on site for repairs to derrick and derrick board. Raise Derrick @ 18:18 hrs, Continue Rig up, Weld on conductor pipe, Strap & Caliper DC's & DP, Install Flow line, Pre spud rig inspection. P/U & M/U 11" CapRock PDC Bit, Bit Sub w/ solid float, Inclination tool & 1 x 8" DC. Rot Drlg f/ 53' - 87', 34', avg rop 34 fph, All k wob, 115 rpm, 417 gpm, 150 psi SPP.



Partner - Drilling

Well Name: Fcu 7324

Date: 4/4/2017

Well Name Fcu 7324	API/UWI 4200347445	State/Province Texas	County Andrews
Permit Number 821058	Spud Date 4/4/2017 05:00	Ground/Corrected Ground Elevation (ft) 3,302.00	KB-Ground Distance (ft) 13.00

Mud Properties

Dens (lb/gal)	Vis (s/qt)
9.30	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)
4/4/2017	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)
222.00	0.30	0.00	222.00	0.58	0.00	0.58	0.14
700.00	0.50	0.00	699.99	3.92	0.00	3.92	0.04
1,171.00	0.50	0.00	1,170.97	8.03	0.00	8.03	0.00
1,644.00	0.50	0.00	1,643.95	12.16	0.00	12.16	0.00
1,707.00	0.70	0.00	1,706.95	12.82	0.00	12.82	0.32

Daily Summary

Footage (ftKB)	End Depth (ftKB)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
1,634.00	1,721.0	45,547.40	159,965.27

Activity
Weld on Casing Head

24hr Activity

Com
Rot Drilg f/ 87' - 1,721', avg rop 176 fph, 33 - 38K wob, 115 rpm, 417 gpm, 1,078 psi SPP. Pump 50 bbls high vis sweep & circulate wellbore clean. Held PJSM. Trip out Hole racking back 4-1/2" DP. Wash & work 5 singles out hole f/1,531'-1,405'. Trip out Hole racking back 4-1/2" DP & 6-1/4" DC's in derrick. L/D 11" CapRock PDC Bit, Bit Sub w/ Solid float, Invictus Inclination Tool, IBS & 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 (42.21'), 1 - 8 5/8" Float Collar (1.15'), 40 - joints 8 5/8" 24 lb/ft J-55 STC (1,680.17'), Ran a total of 41 joints 1,724.33'. Set @ 1,721'. Top of Guide Shoe @ 1,720' & Top of FC @ 1,676', 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 and Worked joint 2, 5, 25, 41 to bottom. Circulate wellbore @ 295 gpm w/ 190 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 1,100 psig, Pump 20 bbls/ Gel Spacer Ahead of 410 sxs Lead Econocem Class "C" Cement Mixed @ (Density 12.50 ppg, Yield 2.11 cu.ft/sk, Water 11.54 gal/sk Total 154 bbls/slurry = 865 cu/ft), Pumped @ 5.5 bbl/min, w/ 150 psig, Followed by 230 sxs Tail Halcem Class "C" Cement Mixed @ (Density 14.80 ppg, Yield 1.34 cu.ft/sk, Water 6.51 gal/sk, Total 55 bbls/slurry = 308 cu/ft), Pumped @ 5.5 bbl/min, w/ 100 psig, Release Plug & Displace with 107 bbls of 8.3 ppg FW @ 5.5 bbls/min, @ 650 psig, Bump Plug 590 psig over @ 3 bbls a min to Final Bump 1,240 psig @ 03:31 hrs. 4/5/2017, Release Pressure Bleed Back 1/2 bbl to Tank. Float Held, Full returns entire job, circulated 107 bbls = 285 sks of cement to surface, RD Halliburton Equipment. PJSM, Cut off Conductor & 8 5/8" Casing, Weld on 11" 3M x 8 5/8" SOW GE Casing Head.



Partner - Drilling

Well Name: Fcu 7324

Date: 4/5/2017

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Permit Number 821058	Spud Date 4/4/2017 05:00	Ground/Corrected Ground Elevation (ft) 3,302.00	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)
4/4/2017	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)
1,921.00	0.10	0.00	1,920.94	14.21	0.00	14.21	0.24
2,079.00	0.40	0.00	2,078.94	14.89	0.00	14.89	0.19
2,236.00	1.10	0.00	2,235.93	16.95	0.00	16.95	0.45
2,329.00	1.40	0.00	2,328.90	18.98	0.00	18.98	0.32
2,424.00	1.30	0.00	2,423.88	21.22	0.00	21.22	0.11

Daily Summary

Footage (ftKB)	End Depth (ftKB)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
840.00	2,561.0	20,019.46	179,984.73

Activity
Drilling Production Hole @ 2,561'

24hr Activity

Com
Weld on 11" 3M x 8 5/8" SOW GE Casing Head. Test to 1000 psig / 5 min. (Test Good).
Safety Meeting, Nipple up Shaffer 11"5M Double Ram BOP, Annular Hydrilll , Rotating Head & 3 1/8"5M x 2 1/16"5M Choke Manifold & Kill Lines, Connected the Accumulator Closing Unit. Fuction 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)
Strap and Caliper & Pick up BHA Motor, Surefire Inclination tool, IBS.
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 & 44' of Cement. Tagged Cement @ 1,672'. wob: 15, rpm: 55, motor 111 rpm, spm 115 spp: 1,428 psi.
Rot Drlg f/ 1,721' - 2,561', 840', avg rop 73 fph, 15 - 20K wob, Rotary 75 rpm, Motor 146 rpm, Total rpm 231. spp 2,410 psi. 520 gpm.



Partner - Drilling

Well Name: Fcu 7324

Date: 4/6/2017

Well Name Fcu 7324	API/UWI 4200347445	State/Province Texas	County Andrews
Permit Number 821058	Spud Date 4/4/2017 05:00	Ground/Corrected Ground Elevation (ft) 3,302.00	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)
4/4/2017	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)
2,645.00	1.80	0.00	2,644.81	26.64	0.00	26.64	0.53
2,771.00	1.60	0.00	2,770.75	30.38	0.00	30.38	0.16
2,897.00	1.20	0.00	2,896.72	33.46	0.00	33.46	0.32
3,149.00	1.00	0.00	3,148.67	38.30	0.00	38.30	0.08
3,466.00	1.00	0.00	3,465.62	43.83	0.00	43.83	0.00

Daily Summary

Footage (ftKB)	End Depth (ftKB)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
979.00	3,540.0	22,164.80	202,149.53

Activity
Drilling Production Hole @ 3,540'

24hr Activity

Com
Rot Drlg f/ 2,561' - 3,066', 505', avg rop 50 fph, 20 - 25K wob, Rotary 75 rpm, Motor 146 rpm, Total rpm 226. spp 2,540 psi. 520 gpm. Lubricate Rig. Rot Drlg f/ 3,066' - 3,073', 7', avg rop 9 fph, 30K wob, Rotary 75 rpm, Motor 114 rpm, Total rpm 189. spp 1,780 psi. 410 gpm. TOH for bit due to rate of penetration. Clean bit. Unplug 1 jet and pried piece of float collar out of blades on cone of bit. TIH to 3,073'. Pick up kelly break circulation. Rot Drlg f/ 3,073' - 3,540', 467', avg rop 58 fph, 25K wob, Rotary 75 rpm, Motor 146 rpm, Total rpm 221. spp 2,560 psi. 5200 gpm.



Partner - Drilling

Well Name: Fcu 7324

Date: 4/7/2017

Well Name Fcu 7324	API/UWI 4200347445	State/Province Texas	County Andrews
Permit Number 821058	Spud Date 4/4/2017 05:00	Ground/Corrected Ground Elevation (ft) 3,302.00	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)
4/4/2017	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)
3,466.00	1.00	0.00	3,465.62	43.83	0.00	43.83	0.00
3,782.00	0.70	0.00	3,781.59	48.52	0.00	48.52	0.09
4,098.00	0.40	0.00	4,097.57	51.55	0.00	51.55	0.09
4,471.00	0.30	0.00	4,470.56	53.83	0.00	53.83	0.03
5,046.00	0.40	0.00	5,045.55	57.34	0.00	57.34	0.02

Daily Summary

Footage (ftKB)	End Depth (ftKB)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
1,928.00	5,468.0	13,416.35	215,565.88

Activity
Drilling Production Hole @ 5,468'

24hr Activity

Com
Rot Drilg f/ 3,540' - 5,468', 1,928', avg rop 81 fph, 38K wob, Rotary 70 - 75 rpm, Motor 136 rpm, Total rpm 211. spp 2,650 psi. 486 gpm.



Partner - Drilling

Well Name: Fcu 7324

Date: 4/8/2017

Well Name Fcu 7324	API/UWI 4200347445	State/Province Texas	County Andrews
Permit Number 821058	Spud Date 4/4/2017 05:00	Ground/Corrected Ground Elevation (ft) 3,302.00	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)
4/4/2017	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)
5,520.00	0.20	0.00	5,519.55	59.83	0.00	59.83	0.04
5,995.00	0.10	0.00	5,994.55	61.07	0.00	61.07	0.02
6,469.00	0.40	0.00	6,468.54	63.14	0.00	63.14	0.06
6,944.00	0.50	0.00	6,943.53	66.87	0.00	66.87	0.02
7,289.00	0.60	0.00	7,288.51	70.18	0.00	70.18	0.03

Daily Summary

Footage (ftKB)	End Depth (ftKB)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
1,864.00	7,332.0	13,834.50	229,400.38

Activity
Lay Down Drill Pipe

24hr Activity

Com
Rot Drlg f/ 5,468' - 5,880', 412', avg rop 83 fph, 38K wob, Rotary 75 rpm, Motor 124 rpm, Total rpm 199. spp 2,650 psi. 444 gpm. Lubricate Rig. Rot Drlg f/ 5,088' - 7,332', 2,244', avg rop 132 fph, 38K wob, Rotary 70 rpm, Motor 120 rpm, Total rpm 190. spp 2,650 psi. 430 gpm. Pump 60 bbl high vis Sweep & Circulate, PJSM R/U Thompson Lay Down Machine. Lay Down Drill Pipe Freely from 7,332' to 660', L/D 210 jts of 4-1/2" DP. Break Kelly.



Partner - Drilling

Well Name: Fcu 7324

Date: 4/9/2017

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Permit Number 821058	Spud Date 4/4/2017 05:00	Ground/Corrected Ground Elevation (ft) 3,302.00	KB-Ground Distance (ft) 13.00

Mud Properties

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

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)
4/4/2017	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)
5,520.00	0.20	0.00	5,519.55	59.83	0.00	59.83	0.04
5,995.00	0.10	0.00	5,994.55	61.07	0.00	61.07	0.02
6,469.00	0.40	0.00	6,468.54	63.14	0.00	63.14	0.06
6,944.00	0.50	0.00	6,943.53	66.87	0.00	66.87	0.02
7,289.00	0.60	0.00	7,288.51	70.18	0.00	70.18	0.03

Daily Summary

Footage (ftKB)	End Depth (ftKB)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
0.00	7,332.0	82,457.92	311,858.30

Activity
Rig down Halliburton Equipment

24hr Activity

Com
Continue to lay down drill pipe freely from 7,332' to 660', L/D 210 jts of 4-1/2" DP. Break Kelly. Lay Down BHA from 660' to 212'. Circulate due to salt ring. Lay Down BHA from 212' to surface'. Lay Down BHA Motor, 2 x 7 7/8" IBS, Invicus Survey Tool. Rig Down Thompson Laydown Machine. PJSM, Rig up Halliburton Logging Unit, Logged in hole w/ Dual Laterolog Microguard, Dual Spaced Neutron, Gamma Ray, Tool. 8 5/8" Csg Shoe located @ 1,718' WLM. Wireline tag bottom at 7,324' WLM. AHVT = 1,344 cu/ft, R/D Halliburton Logging Unit. PJSM, Rig up Thompson casing crew & Lay down machine. Run 5 1/2" J-55 17# LT&C Csg As Follows 1- 5 1/2" Float Shoe (1.31'), 1- jnt 5 1/2" J-55 17# LTC (44.09'), 1- 5 1/2" Float Collar (1.21'), 40 jnts 5 1/2" J-55 17# LTC (1,762.43'), 1- Marker jnt 5 1/2" J-55 17# LTC (23.39'), 125 jnts 5 1/2" J-55 17# LTC (5,502.08'), Ran a Total of 166 jnts, (7,334.51') Set @ (7,332'), Dressed w/ Weatherford Float Equipment, Top of Float Shoe @ 7,330', Float Collar @ 7,285', Marker jnt @ 5,499', Thd Locked FS, SJ, FC/ Torqued csg to Opt 2,470 ft/lb. Place 53 Cent. as per program. Circulate Casing on Bottom with Full Returns. 302 gpm at 260 psi. Rig Down Thompson Casing Crew & Laydown Machine. Held PJSM w/ Halliburton personnel. R/U Halliburton Cement Head and Cement 5 1/2" Csg as Follows, Test Lines to 5,000 psig, Pump 20 bbls FW w/ Gel Spacer containing 2.50 lbm/bbl CHEM, FDP-S1050-12 + 0.10 lbm/bbl Red Liquid Dye # 2 Pump Ahead of 650 sxs Lead Econocem Class "C" Cement containing + 5 lbm Microbond + 0.125 lbm Poly-E-Flake + .3% Halad R-322 + 0.25 lbm D-Air 3000 + 3 lbm Kol-Seal + 0.05% SA-1015 @ Density 11.5 ppg, Yield 2.943 cu.ft/sk, Water 17.7 gal/sk, Total 341 bbls/slurry = 1,913 cu/ft Pumped @ 6 bbl/min, w/ 195 psig. Followed by 800 sxs Tail, Versacem Class "C" Cement containing + 0.20% CFR-3 + 0.30% Halad R-344 + 5 lbm Microbond + 1 lbm Salt + 0.10% HR-800 Mixed @ Density 14.2 ppg, Yield 1.366 cu.ft/sk, Water 6.35 gal/sk, Total 195 bbls/slurry = 1,093 cu/ft, Pumped @ 6.5 bbl/min, w/ 307. Release Plug & Displace with 169 bbls of 8.4 ppg FW Pumped @ 6 bbl/min, w/ 2,714 psig. Bump plug 500 psig Over @ 3 bbl/min, Final Bump 3,214 psig, @ 06:04 hr 4/10/2017, Release Pressure Bleed Back 1.5 bbls to Tanks, Float Held, Full returns during cement job, Circulate 169 bbls = 322 sx of Cement to Surface. Rig Down Halliburton Equipment.