



XTO Daily Drilling Report

Well Name: Fcu 7532

Date: 5/27/2019

Report #: 1.0

DFS: -2.43

DFS(TL):

Field Name: Fullerton	End Depth (ftKB): 0.0	AFE Number: DD.2019.01509
State/Province: Texas	Footage (ftKB):	Activity: WAIT ON MOBILIZATION TRUCKS
County: Andrews	Drilling Hours (hr):	Cum Percent Problem Time (%): 0.00
Rig (Names): Basic 37	Avg ROP (ft/hr):	Last Casing String: Conductor, 53.0ftKB

Jobs			
Spud Date		Rig Release Date	
5/29/2019		6/6/2019	
Ground/Corrected Ground Elevation (ft)		KB-Ground Distance (ft)	Surface Casing Flange Elevation (ft)
3,284.00		13.00	
Proposed TD (MD) (ftKB)		Target Formation	
7,275.0		Wichita-Albany	

Safety Checks		
Date	Type	Com
5/26/2019	JSA Prepared/Reviewed	RIGGING DOWN FLOOR & DERRICK
5/26/2019	JSA Prepared/Reviewed	RIGGING DOWN BACK YARD AND LINES

Daily Contacts	
Daily Contacts	
DSM, Gordon Smith, 432-770-9681; Consultant, Bob Johnson, 432-250-0925; Drlg Superintendent, Milton Turman, 817-524-5107; Drilling Engineer, Colton Childress, 432-241-2009	

Total Costs To Date			
Daily Mud Field Est (Cost)	Mud Additive Field Est To Date (Cost)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
		60,667.12	60,667.12

Daily Operations Summary and Mud Gas			
Operation Summary #1			
-RIG DOWN ON CLCU-105 WAIT ON BASIC MOBILIZATION TRUCKS			
RIG MOVE ON STANDBY DUE TO MEMORIAL DAY HOLIDAY WILL MOVE TUESDAY			
Operation Summary #2			
PERSONNEL: A.G SMITH (XTO DRILLING CONSULTANT) CONDUCTED TOURLY SAFETY MEETINGS W/RIG CREWS.			
REGULATORY: TRRC JOB #:179208			
SURVEY: N/A INC:N/A° - AZM: N/A°			
MUD: WT:N/A VIS:N/A PH:N/A			
GEOLOGY: N/A			
VISITORS: NONE			
RIG CREWS: DAYS: 5 NIGHTS: 5			
SAFETY: NO ACCIDENTS OR INCIDENTS			
**DAYS SINCE LAST LTA:501 RECORDABLE:501 INJURY:1 SPILL:85			
Avg Background Gas (%)	Avg Connection Gas (%)	Avg Trip Gas (%)	Max Drill Gas (%)

Activity Last 24 Hours										
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Mjr Ops Code	Phase	Phase	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #	Com
14:00	06:00	16.00	16.00	RU	Move Rig	Move Rig, Move Rig	53.0	53.0		RIG DOWN ON CLCU-105 WAIT ON MOBILIZATION TRUCKS

Cum Daily Cost Summary		
Cost Des	Rpt Fld Est (Cost)	Cum Fld Est (Cost)
EX,V,RNT&LSE,OP,EQ,DRILLEQP,EXMOBILI&DEMOB,MIRU	8,166.66	8,166.66
EX,V,SERV,ENG_O&GWELLDRILL	1,066.66	1,066.66
Ex,V,Srv,Site_SitePrep,Roads&Location	51,433.80	51,433.80

Mud Pumps					
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)
Pump 1	Bomco	F-1000	5 1/2	10.00	0.070
Pump 2	Bomco	F-1000	5 1/2	10.00	0.070

Supplies & Fuel Daily Amt					
Supply Item Des	Unit Label	Received	Consumed	Cum Consumed	Cum On Loc
Diesel Fuel - Rig	gal	0.0	92.0	92.0	2,624.0



XTO Daily Drilling Report

Well Name: Fcu 7532

Date: 5/28/2019

Report #: 2.0

DFS: -1.43

DFS(TL):

Field Name: Fullerton	End Depth (ftKB): 0.0	AFE Number: DD.2019.01509
State/Province: Texas	Footage (ftKB):	Activity: WAIT ON MOBILIZATION TRUCKS
County: Andrews	Drilling Hours (hr):	Cum Percent Problem Time (%): 0.00
Rig (Names): Basic 37	Avg ROP (ft/hr):	Last Casing String: Conductor, 53.0ftKB

Jobs			
Spud Date		Rig Release Date	
5/29/2019		6/6/2019	
Ground/Corrected Ground Elevation (ft)		KB-Ground Distance (ft)	Surface Casing Flange Elevation (ft)
3,284.00		13.00	
Proposed TD (MD) (ftKB)		Target Formation	
7,275.0		Wichita-Albany	

Safety Checks		
Date	Type	Com
5/27/2019	JSA Prepared/Reviewed	CHANGING OUT BRAKE BANDS
5/27/2019	Safety Meeting	PJSM W/BASIC TRUCKING BEFORE MOVING OUT NO PERMIT LOADS AND STAGING EQUIPMENT FOR RIG MOVE
5/27/2019	JSA Prepared/Reviewed	RIGGING DOWN FOR HIGHWAY MOVE

Daily Contacts			
Daily Contacts			
DSM, Gordon Smith, 432-770-9681; Consultant, Bob Johnson, 432-250-0925; Drlg Superintendent, Milton Turman, 817-524-5107; Drilling Engineer, Colton Childress, 432-241-2009			
Total Costs To Date			
Daily Mud Field Est (Cost)	Mud Additive Field Est To Date (Cost)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
		14,466.00	75,133.12

Daily Operations Summary and Mud Gas			
Operation Summary #1			
-RIG DOWN ON CLCU-105 WAIT ON BASIC MOBILIZATION TRUCKS			
****MOVED OUT SHAKER PIT, DRILL PIPE, COLLARS AND MISCELLANEOUS LOADS TO NEW LOCATION. STAGED PUMPS, FRAC TANKS, & HOUSES FOR GRAB AND GO AFTER MORNING RIG MOVE SAFETY MEETING****			
Operation Summary #2			
PERSONNEL: A.G SMITH (XTO DRILLING CONSULTANT) CONDUCTED TOURLY SAFETY MEETINGS W/RIG CREWS.			
REGULATORY: TRRC JOB #:179208			
SURVEY: N/A INC:N/A° - AZM: N/A°			
MUD: WT:N/A VIS:N/A PH:N/A			
GEOLOGY: N/A			
VISITORS: JEFF HOENIG (XTO SAFETY CONSULTANT) ON LOCATION TO CHECK ON RIG AND NON PERMIT LOAD MOVE			
RIG CREWS: DAYS: 5 NIGHTS: 5			
SAFETY: NO ACCIDENTS OR INCIDENTS			
**DAYS SINCE LAST LTA:502 RECORDABLE:502 INJURY:2 SPILL:86			
Avg Background Gas (%)		Avg Connection Gas (%)	Avg Trip Gas (%)
			Max Drill Gas (%)

Activity Last 24 Hours										
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Mjr Ops Code	Phase	Phase	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #	Com
06:00	06:00	24.00	24.00	RU	Move Rig	Move Rig, Move Rig	53.0	53.0		WAIT ON MOBILIZATION TRUCKS.
										****MOVED OUT SHAKER PIT, DRILL PIPE, COLLARS AND MISCELLANEOUS LOADS TO NEW LOCATION. STAGED PUMPS, FRAC TANKS, & HOUSES FOR GRAB AND GO AFTER MORNING RIG MOVE SAFETY MEETING****

Cum Daily Cost Summary		
Cost Des	Rpt Fld Est (Cost)	Cum Fld Est (Cost)
EX,V,RNT&LSE,OP,EQ,DRILLEQP,EXMOBILI&DEMOB,MIRU	12,250.00	20,416.66
EX,V,RNT&LSE,OP,EQ,MISC_OTH,RENTSURFWITHOPER	616.00	616.00
EX,V,SERV,ENG_O&GWELLDRILL	1,600.00	2,666.66

Mud Pumps				
Pump #	Make	Model	Liner Size (in)	Stroke (in)
Pump 1	Bomco	F-1000	5 1/2	10.00
Pump 2	Bomco	F-1000	5 1/2	10.00

Supplies & Fuel Daily Amt					
Supply Item Des	Unit Label	Received	Consumed	Cum Consumed	Cum On Loc
Diesel Fuel - Rig	gal	0.0	61.0	153.0	-84.0



XTO Daily Drilling Report

Well Name: Fcu 7532

Date: 5/29/2019

Report #: 3.0

DFS: -0.43

DFS(TL):

Field Name: Fullerton	End Depth (ftKB): 0.0	AFE Number: DD.2019.01509
State/Province: Texas	Footage (ftKB):	Activity: RIGGING UP
County: Andrews	Drilling Hours (hr):	Cum Percent Problem Time (%): 0.00
Rig (Names): Basic 37	Avg ROP (ft/hr):	Last Casing String: Conductor, 53.0ftKB

Jobs			
Spud Date		Rig Release Date	
5/29/2019		6/6/2019	
Ground/Corrected Ground Elevation (ft)		KB-Ground Distance (ft)	Surface Casing Flange Elevation (ft)
3,284.00		13.00	
Proposed TD (MD) (ftKB)		Target Formation	
7,275.0		Wichita-Albany	

Safety Checks		
Date	Type	Com
5/28/2019	Safety Meeting	PJSM W/BASIC TRUCKING, RIG CREWS & XTO SAFETY PRIOR TO BEGINNING RIG MOVE
5/28/2019	Safety Meeting	PJSM W/BASIC TRUCKING, RIG CREWS & XTO SAFETY PRIOR TO SETTING SUB OVER THE HOLE
5/28/2019	JSA Prepared/Reviewed	RIGGING UP RIG FLOOR & GROUND WORK

Daily Contacts	
Daily Contacts	
DSM, Gordon Smith, 432-770-9681; Consultant, Bob Johnson, 432-250-0925; Drlg Superintendent, Milton Turman, 817-524-5107; Drilling Engineer, Colton Childress, 432-241-2009	

Total Costs To Date			
Daily Mud Field Est (Cost)	Mud Additive Field Est To Date (Cost)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
		84,869.55	160,002.67

Survey Information							
Date	Description	MD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	TVDTie In (ftKB)	NSTie In (ft)	EW Tie In (ft)
5/28/2019	MWD	0.00	0.0	0.0	0.00	0.00	0.00
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Daily Operations Summary and Mud Gas	
Operation Summary #1	
-TRUCKS ON LOCATION @ 08:30HRS HOLD PRE MOVE SAFETY MEETING W/RIG CREWS, BASIC TRUCKING & XTO SAFETY CONSULTANTS	
-MIRU BASIC 37 ON FCU-7532 DERRICK RAISED & SECURED @ 19:30 HRS.	
-RIG UP FLOOR & GROUND,	
-WELD ON CONDUCTOR PIPE INSTALL FLOW LINES	
Operation Summary #2	
PERSONNEL: A.G SMITH (XTO DRILLING CONSULTANT) CONDUCTED TOURLY SAFETY MEETINGS W/RIG CREWS.	
REGULATORY: TRRC JOB #:179208	
SURVEY: N/A INC:N/A° - AZM: N/A°	
MUD: WT:N/A VIS:N/A PH:N/A	
GEOLOGY: N/A	
VISITORS: JEFF HOENIG & DANNY WAY (XTO SAFETY CONSULTANTS) ON LOCATION FOR RIG MOVE	
RIG CREWS: DAYS: 5 NIGHTS: 4 EXTRA CREW FOR RIG MOVE: 5	
SAFETY: 1 INCIDENT: THUMB INJURY	
**DAYS SINCE LAST LTA:503 RECORDABLE:503 INJURY:0 SPILL:87	

Avg Background Gas (%)	Avg Connection Gas (%)	Avg Trip Gas (%)	Max Drill Gas (%)

Activity Last 24 Hours										
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Mjr Ops Code	Phase	Phase	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #	Com
06:00	08:30	2.50	2.50	RU	Move Rig	Move Rig, Move Rig	53.0	53.0		WAIT ON MOBILIZATION TRUCKS
08:30	06:00	21.50	24.00	RU	Move Rig	Move Rig, Move Rig	53.0	53.0		TRUCKS ON LOCATION @ 08:30 HRS. HELD PJSM W/RIG CREWS, BASIC TRUCKING & XTO SAFETY. MIRU BASIC RIG #37 ON FCU-7532. DERRICK RAISED & SECURED @ 19:30HRS. RIG UP FLOOR & GROUND, WELD ON CONDUCTOR PIPE & INSTALL FLOW LINE.

Cum Daily Cost Summary		
Cost Des	Rpt Fld Est (Cost)	Cum Fld Est (Cost)
EX,V,CONTRACTLABOR,FABRICATION	480.00	480.00
EX,V,FUEL,PURCH_OTHR	500.00	500.00
EX,V,RNT&LSE,OP,EQ,DRILLEQP,EXMOBILI&DEMOB,MIRU	77,050.00	97,466.66
EX,V,RNT&LSE,OP,EQ,MISC_OTH,RENTSUBSURFWITHOPER	250.00	250.00
Ex,V,Rnt&Lse,Op,Eq,Misc_Oth,RentSurfWithOper	50.00	50.00
EX,V,RNT&LSE,OP,EQ,MISC_OTH,RENTSURFWITHOPER	461.00	1,077.00
EX,V,SERV,ENG_O&GWELLDRILL	1,600.00	4,266.66
EX,V,SERV,TRANS,M&S&EQ,NONMAR_LAND&COUR	1,715.00	1,715.00
EX,V,SRV,O&GWELL,CEMENTING,PRODUCTION CASING	1,701.02	1,701.02
EX,V,SRV,O&GWELL,CEMENTING,SURF INTERMED	1,062.53	1,062.53

Mud Pumps					
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)
Pump 1	Bomco	F-1000	5 1/2	10.00	0.070
Pump 2	Bomco	F-1000	5 1/2	10.00	0.070



XTO Daily Drilling Report

Well Name: Fcu 7532

Date: 5/30/2019

Report #: 4.0

DFS: 0.57

DFS(TL): 0.57

Field Name: Fullerton	End Depth (ftKB): 1,770.0	AFE Number: DD.2019.01509
State/Province: Texas	Footage (ftKB): 1,717.00	Activity: POOH FOR SURFACE CASING
County: Andrews	Drilling Hours (hr): 11.75	Cum Percent Problem Time (%): 0.00
Rig (Names): Basic 37	Avg ROP (ft/hr): 146.1	Last Casing String: Conductor, 53.0ftKB

Jobs			
Spud Date		Rig Release Date	
5/29/2019		6/6/2019	
Ground/Corrected Ground Elevation (ft)		KB-Ground Distance (ft)	Surface Casing Flange Elevation (ft)
3,284.00		13.00	
Proposed TD (MD) (ftKB)		Target Formation	
7,275.0		Wichita-Albany	

Safety Checks		
Date	Type	Com
5/29/2019	JSA Prepared/Reviewed	MAKING UP KELLY & SPINNER ASSY
5/29/2019	Safety Meeting	SAFETY STAND DOWN W/BASIC SUPERINTENDENT & SAFETY REP. AND XTO SAFETY REP & FIELD SUPERINTENDENT
5/29/2019	Safety Meeting	ADDRESSED SAFETY STAND DOWN KEY POINTS WITH MORNING TOUR
5/29/2019	JSA Prepared/Reviewed	MAKING CONNECTIONS W/TONGS & MOUSHOLE TUBULARS

Daily Contacts	
Daily Contacts	
DSM, Gordon Smith, 432-770-9681; Consultant, Bob Johnson, 432-250-0925; Drlg Superintendent, Milton Turman, 817-524-5107; Drilling Engineer, Colton Childress, 432-241-2009	

Total Costs To Date			
Daily Mud Field Est (Cost)	Mud Additive Field Est To Date (Cost)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
753.83	753.83	19,758.83	179,761.50

Mud Checks																					
Time	Depth (ftKB)	Dens (lb/gal)	Vis (s/qt)	PV (cP)	YP (lb/100ft²)	pH	Chlor (mg/L)	LCM	FC (1/32")	API FL (mL/30min)	HTHP FL (mL/30min)	Gel 10s (lb/100ft²)	Gel 10m (lb/100ft²)	OWR	ES (V)	WPS (ppm)	Vis 3rpm	Vis 6rpm	Solids (%)	Sand (%)	LGS (%)
04:00	1,736.0	8.80	28																		

Bit Run Information											
Bit Run	Size (in)	Make	Model	SN	IADC Codes	Depth In (ftKB)	Depth Out (ftKB)	Drilled (ft)	Drill Time (hr)	BHA ROP (ft/hr)	Bit Dull
1	11	Cap Rock	519-SR8	40612	___	53.0	1,770.0	1,717.00	11.75	146.1	0-0-NO-A-X-0-NO-TD

BHA Information for BHA#: <Drill String - BHA #>	
BHA #	Drill String Name
1	Pendulum

Drilling Parameters and Hydraulics											
Nozzles (1/32")			TFA (in²)	Flow Rate (gpm)	SPP (psi)	WOB (1000lbf)	RPM (rpm)	Drilling Torque	PU Str Wt (1000lbf)	Drill Str Wt (1000lbf)	SO Str Wt (1000lbf)
11/11/11/11/11/11/11/11			0.74	352	500.0	35	110		84	82	80
Bit HP (hp)		Bit HPSI (hp/in²)			Jet Vel (ft/s)		Bit PSI Drop (psi)		Min AV (ft/min)		Max AV (ft/min)
37.9		0.4			152.2		184.7		36.6		151.4

Drill String Components						
Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Connections
1	Kelly Joint	4 1/2	3.826	11.67	1,770.00	RegXH
33	Drill Pipe	4 1/2	3.826	1,043.42	1,758.33	XHXX
20	Drill Collar	6 1/2	2.250	607.30	714.91	XHXX
1	XO Sub	8	2.250	1.81	107.61	XHReg
2	Drill Collar	8	2.250	58.95	105.80	RegReg
1	Reamer - 3 Pt	11	2.250	6.47	46.85	RegReg
1	Drill Collar	8	2.250	28.51	40.38	RegReg
1	Teledrift	8	2.250	7.90	11.87	RegReg
1	Bit Sub w/Float	8	2.250	2.97	3.97	RegReg

Survey Information							
Date	Description	MD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	TVDTie In (ftKB)	NSTie In (ft)	EW Tie In (ft)
5/28/2019	MWD	0.00	0.0	0.0	0.00	0.00	0.00
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
196.00	0.60	0.00	196.00	1.03	1.03	0.00	0.31
620.00	0.40	0.00	619.98	4.73	4.73	0.00	0.05
1,057.00	0.30	0.00	1,056.97	7.40	7.40	0.00	0.02
1,499.00	0.30	0.00	1,498.97	9.71	9.71	0.00	0.00
1,755.00	0.10	0.00	1,754.96	10.60	10.60	0.00	0.08

Daily Operations Summary and Mud Gas	
Operation Summary #1	
-FINISH RIGGING UP. M/U KELLY & SWIVEL, STRAP & CALIPER BHA	
-HOLD SAFETY STAND DOWN W/BASIC SUPERINTENDENT, BASIC SAFETY REP, XTO SAFETY & RIG CREW	
-PRESPUD INSPECTION & CORRECTIONS	
-P/U & MU 11" BIT & BHA	
-DRILLED F/53-485'	
-SERVICE RIG	
-DRILLED F/485-SURFACE TD 1,770'	
****SPUD WELL @ 16:15HRS ON 5/29/2019****	

Operation Summary #2			
PERSONNEL: A.G SMITH (XTO DRILLING CONSULTANT) CONDUCTED TOURLY SAFETY MEETINGS W/RIG CREWS.			
REGULATORY: TRRC JOB #:179208			
SURVEY: 1,755' INC:0.1° - AZM: N/A°			
MUD: WT:8.8 VIS:28 PH:N/A			
GEOLOGY: RUSTLER			
VISITORS: DANNY WAY (XTO SAFETY CONSULTANT) & BOB JOHNSON (XTO FIELD SUPEINTENDENT) ON LOCATION TO CHECK ON RIG			
RIG CREWS: DAYS: 5 NIGHTS: 5			
SAFETY: NO INCIDENTS OR ACCIDENTS			
**DAYS SINCE LAST LTA:504 RECORDABLE:504 INJURY:1 SPILL:88			
Avg Background Gas (%)		Avg Connection Gas (%)	
		Avg Trip Gas (%)	
		Max Drill Gas (%)	

Activity Last 24 Hours										
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Mjr Ops Code	Phase	Phase	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #	Com
06:00	11:00	5.00	5.00	RU	Move Rig	Move Rig, Move Rig	53.0	53.0		FINISH RIGGING UP. M/U KELLY & SWIVEL, STRAP & CALIPER BHA



XTO Daily Drilling Report

Well Name: Fcu 7532

Date: 5/30/2019

Report #: 4.0

DFS: 0.57

DFS(TL): 0.57

Activity Last 24 Hours										
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Mjr Ops Code	Phase	Phase	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #	Com
11:00	13:15	2.25	7.25	OT	Move Rig	Move Rig, Move Rig	53.0	53.0		HELD SAFETY STAND DOWN WITH BASIC SUPERINTENDENT & SAFETY REP, RIG CREWS, XTO SAFETY REP & XTO FIELD SUPERINTENDENT BOB JOHNSON
13:15	15:15	2.00	9.25	RU	Move Rig	Move Rig, Move Rig	53.0	53.0		PRESPUD INSPECTION & CORRECTIONS
15:15	16:15	1.00	10.25	BH	Drill Surface Hole	Drilling, Drill Surface Hole	53.0	53.0		P/U & M/U 11" CAPROCK PDC BIT, BIT SUB W/SOLID FLOAT, SUREFIRE INCLINATION TOOL & 1x 8" DC
16:15	19:30	3.25	13.50	DR	Drill Surface Hole	Drilling, Drill Surface Hole	53.0	485.0		****SPUD @ 16:15 HOURS ON 5/29/2019**** ROTATE DRILL F/53'-485' FTG MADE:432' AVG. ROP:133FT/HR, WOB:20, RPM:110 GPM:352, SPP:350 PSI.
19:30	20:00	0.50	14.00	SR	Drill Surface Hole	Drilling, Drill Surface Hole	485.0	485.0		SERVICE RIG
20:00	04:30	8.50	22.50	DR	Drill Surface Hole	Drilling, Drill Surface Hole	485.0	1,770.0		ROTATE DRILL F/485'-1,770' FTG MADE:1,285' AVG. ROP:151FT/HR, WOB:35, RPM:120 GPM:352, SPP:500 PSI.
04:30	05:15	0.75	23.25	CA	Drill Surface Hole	Drilling, Drill Surface Hole	1,770.0	1,770.0		TAKE FINAL SURVEY. PUMP 50BBLs HIGH VIS SWEEP & CIRCULATE HOLE CLEAN
05:15	06:00	0.75	24.00	TR	Drill Surface Hole	Drilling, Drill Surface Hole	1,770.0	1,770.0		SET KELLY BACK, HANG BALES & ELEVATORS, POOH STANDING BACK DP & 6-1/4" D,C'S

Mud Additives						
Vendor		Des		Type	Consumed	Daily Field Est (Cost)
Dynamic Drilling Fluids		FRESH GEL		Viscosifier	20.0	184.00
Dynamic Drilling Fluids		NEW DRILL		Viscosifier	1.0	71.33
Dynamic Drilling Fluids		YELLOW STARCH		Fluid Loss Control	25.0	498.50

Cum Daily Cost Summary		
Cost Des	Rpt Fld Est (Cost)	Cum Fld Est (Cost)
EX,V,CONTRACTLABOR,FABRICATION	810.00	1,290.00
EX,V,GD,PART_DRILLBIT	3,200.00	3,200.00
EX,V,GD,PART_DRILLMUD	753.83	753.83
EX,V,RNT&LSE,OP,EQ,DRILLEQP,EXMOBILI&DEMOB,MIRU	12,250.00	109,716.66
EX,V,RNT&LSE,OP,EQ,MISC_OTH,RENTSUBSURFWITHOPER	475.00	725.00
Ex,V,Rnt&Lse,Op,Eq,Misc_Oth,RentSurfWithOper	50.00	100.00
EX,V,RNT&LSE,OP,EQ,MISC_OTH,RENTSURFWITHOPER	620.00	1,697.00
EX,V,SERV,ENG_O&GWELLDRILL	1,600.00	5,866.66

Mud Pumps					
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)
Pump 1	Bomco	F-1000	5 1/2	10.00	0.070
Pump 2	Bomco	F-1000	5 1/2	10.00	0.070

Supplies & Fuel Daily Amt					
Supply Item Des	Unit Label	Received	Consumed	Cum Consumed	Cum On Loc
Brine	bbl	0.0	0.0	0.0	2,200.0
Diesel Fuel - Rig	gal	3,000.0	616.0	769.0	2,300.0
Well Water	bbl	840.0	10.0	10.0	3,590.0



XTO Daily Drilling Report

Well Name: Fcu 7532

Date: 5/31/2019

Report #: 5.0

DFS: 1.57

DFS(TL): 1.57

Field Name: Fullerton	End Depth (ftKB): 1,770.0	AFE Number: DD.2019.01509
State/Province: Texas	Footage (ftKB): 0.00	Activity: NIPPLE UP BOP
County: Andrews	Drilling Hours (hr):	Cum Percent Problem Time (%): 0.00
Rig (Names): Basic 37	Avg ROP (ft/hr):	Last Casing String: Surface, 1,770.0ftKB

Jobs			
Spud Date		Rig Release Date	
5/29/2019		6/6/2019	
Ground/Corrected Ground Elevation (ft)		KB-Ground Distance (ft)	Surface Casing Flange Elevation (ft)
3,284.00		13.00	
Proposed TD (MD) (ftKB)		Target Formation	
7,275.0		Wichita-Albany	

Safety Checks		
Date	Type	Com
5/30/2019	JSA Prepared/Reviewed	TRIPPING OUT HOLE
5/30/2019	Safety Meeting	PJSM W/BULL ROGERS CASING CREW PRIOR TO R/U & RUN CASING
5/30/2019	Safety Meeting	PJSM W/B.J SERVICES PRIOR TO R/U & PUMP CEMENT
5/30/2019	Safety Meeting	WELDING ON WELL HEAD

Daily Contacts			
Daily Contacts			
DSM, Gordon Smith, 432-770-9681; Consultant, Bob Johnson, 432-250-0925; Drlg Superintendent, Milton Turman, 817-524-5107; Drilling Engineer, Colton Childress, 432-241-2009			

Total Costs To Date			
Daily Mud Field Est (Cost)	Mud Additive Field Est To Date (Cost)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
	753.83	59,035.68	238,797.18

Survey Information							
Date	Description	MD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	TVDTie In (ftKB)	NSTie In (ft)	EW Tie In (ft)
5/28/2019	MWD	0.00	0.0	0.0	0.00	0.00	0.00
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
196.00	0.60	0.00	196.00	1.03	1.03	0.00	0.31
620.00	0.40	0.00	619.98	4.73	4.73	0.00	0.05
1,057.00	0.30	0.00	1,056.97	7.40	7.40	0.00	0.02
1,499.00	0.30	0.00	1,498.97	9.71	9.71	0.00	0.00
1,755.00	0.10	0.00	1,754.96	10.60	10.60	0.00	0.08

Daily Operations Summary and Mud Gas	
Operation Summary #1	
-TOH STAND BACK DP & D.C'S	
-LAY DOWN 8" DC'S, MWD TOOL, 11" ROLLER REAMER, BIT SUB & BIT	
-HOLD PJSM W/BULL ROGERS CASERS & RIG UP	
-RUN 8-5/8" CASING	
-CIRCULATE & RIG DOWN CASING CREW	
-HELD PJSM W/B.J SERVICES CEMENTERS. RIG UP & PUMP SURFACE CEMENT	
-JET & CLEAN CELLAR & REMOVE FLOW LINE. CUT & LAY DOWN CONDUCTOR & CASING. WELD ON & TEST WELL HEAD	
-P/U & NIPPLE UP BOP	

Operation Summary #2	
PERSONNEL: A.G SMITH (XTO DRILLING CONSULTANT) CONDUCTED TOURLY SAFETY MEETINGS W/RIG CREWS.	
REGULATORY: TRRC JOB #:179208	
SURVEY: 1,755' INC:0.1° - AZM: N/A°	
MUD: WT:8.8 VIS:28 PH:N/A	
GEOLOGY: RUSTLER	
VISITORS: DANNY WAY & BRENT HACKNEY (XTO SAFETY CONSULTANTS) ON LOCATION FOR SURFACE CASING JOB	
RIG CREWS: DAYS: 5 NIGHTS: 5	
SAFETY: NO INCIDENTS OR ACCIDENTS	
**DAYS SINCE LAST LTA:505 RECORDABLE:505 INJURY:2 SPILL:89	

Avg Background Gas (%)	Avg Connection Gas (%)	Avg Trip Gas (%)	Max Drill Gas (%)

Activity Last 24 Hours									
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Mjr Ops Code	Phase	Phase	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #
06:00	09:30	3.50	3.50	TR	Drill Surface Hole	Drilling, Drill Surface Hole	1,770.0	1,770.0	
09:30	10:30	1.00	4.50	BH	Drill Surface Hole	Drilling, Drill Surface Hole	1,770.0	1,770.0	
10:30	11:30	1.00	5.50	RS	Run & Cement Surface Csg	Casing & Cement, Run & Cement Surface Csg	1,770.0	1,770.0	
11:30	16:30	5.00	10.50	RC	Run & Cement Surface Csg	Casing & Cement, Run & Cement Surface Csg	1,770.0	1,770.0	
RUN 8-5/8" 24# J-55 SURFACE CASING AS FOLLOWS: 1-FLOAT SHOE. 0.82' (TOP @ 1,894.2') 1-SHOE JOINT. 42.17' 1-FLOAT COLLAR. 1.40' (TOP @ 1,725.6') 41-CASING JOINTS 1,729.17' RAN A TOTAL OF 42 JTS. TOTAL STRING LENGTH. 1,773.56' SET @ 1,770' WASHED DOWN JTS:6,23,40,41 & 42 TO BOTTOM DRESSED W/ WEATHERFORD FLOAT EQUIPMENT, THREAD LOCKED FS, SJ, FC. TORQUED CSG TO OPT. 2,440FT/LB. PLACED 11 CENTRALIZERS AS PER PROGRAM.									
16:30	17:30	1.00	11.50	CA	Run & Cement Surface Csg	Casing & Cement, Run & Cement Surface Csg	1,770.0	1,770.0	
CIRCULATE CASING ON BOTTOM & RIG DOWN CASERS									



XTO Daily Drilling Report

Well Name: Fcu 7532

Date: 5/31/2019

Report #: 5.0

DFS: 1.57

DFS(TL): 1.57

Activity Last 24 Hours

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Mjr Ops Code	Phase	Phase	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #	Com
17:30	19:30	2.00	13.50	CM	Run & Cement Surface Csg	Casing & Cement, Run & Cement Surface Csg	1,770.0	1,770.0		<p>HOLD PJSM, SPOT EQUIPMENT & RIG UP B.J CEMENTERS</p> <p>CEMENT 8-5/8" CASING AS FOLLOWS: TEST LINES TO 3,000 PSIG, PUMP 20 BBLS/FW SPACER AHEAD OF</p> <p>LEAD CEMENT: 420SX CLASS "C" CEMENT CONTAINING 5.0% SALT + 1.0% A-2 MIXED @ DENSITY 12.50PPG YIELD: 2.19 CU.FT/SK WATER:12.54 GAL/SK TOTAL: 164 BBLS/SLURRY= 920 CU/FT PUMPED @ 5.5BBL/MIN, @ 230PSIG,</p> <p>TAIL CEMENT: 163SX CLASS "C" CEMENT CONTAINING 0.50% A-7 MIXED @ DENSITY:14.80PPG YIELD: 1.33 CU.FT/SK WATER: 6.334GAL/SK TOTAL: 39 BBLS/SLURRY= 217 CU/FT PUMPED @ 4.0 BBL/MIN. @ 140PSIG.</p> <p>RELEASE PLUG & DISPLACE W/109 BBLS OF 8.4 PPG FW @ 6.0 BBLS/MIN, @ 170PSIG, LANDED PLUG W/627PSI BUMP PLUG 528PSIG OVER @ 3 BBLS/MIN TO FINAL BUMP 1155PSIG @ 19:10HRS. 5/30/2019. RELEASE PRESSURE BLEED BACK 0.5 BBL TO TANK. FLOAT HELD, FULL RETURNS ENTIRE JOB,</p> <p>****CIRCULATED 70BBLS/179SX OF CEMENT TO SURFACE****</p> <p>R/D B.J. CEMENTING EQUIPMENT</p>
19:30	01:00	5.50	19.00	NC	Run & Cement Surface Csg	Casing & Cement, Run & Cement Surface Csg	1,770.0	1,770.0		<p>CLEAN OUT CELLAR & REMOVE FLOWLINE CUT OFF CONDUCTOR, ROUGH CUT CASING & LAY DOWN WELD ON 11" 5M x 8-5/8" SOW GE CASING HEAD.TEST TO 1,000 PSIG/5 MIN.(TESTS GOOD).</p>
01:00	06:00	5.00	24.00	NU	Run & Cement Surface Csg	Casing & Cement, Run & Cement Surface Csg	1,770.0	1,770.0		<p>HELD PJSM, N/U TOWNSEND 11" 5M DOUBLE RAM BOP, ANNULAR, ROTATING HEAD & 3-1/8" 5M x 2-1/16" 5M CHOKE MANIFOLD,KILL LINES & FLOW LINES.</p>

Cum Daily Cost Summary

Cost Des	Rpt Fld Est (Cost)	Cum Fld Est (Cost)
EX,V,CONTRACTLABOR,FABRICATION	180.00	1,470.00
EX,V,GD,PART_WELLCASING,SURFACE	27,611.27	27,611.27
EX,V,RNT&LSE,OP,EQ,DRILLEQP,EXMOBILI&DEMOB,MIRU	12,250.00	121,966.66
Ex,V,Rnt&Lse,Op,Eq,Misc_Oth,RentSurfWithOper	50.00	150.00
EX,V,RNT&LSE,OP,EQ,MISC_OTH,RENTSURFWITHOPER	620.00	2,317.00
EX,V,SERV,ENG_O&GWELLDRILL	1,600.00	7,466.66
EX,V,SRV,O&GWELL,CASING,SURF INT	3,725.00	3,725.00
EX,V,SRV,O&GWELL,CEMENTING,SURF INTERMED	12,999.41	14,061.94

Mud Pumps

Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)
Pump 1	Bomco	F-1000	5 1/2	10.00	0.070
Pump 2	Bomco	F-1000	5 1/2	10.00	0.070

Supplies & Fuel Daily Amt

Supply Item Des	Unit Label	Received	Consumed	Cum Consumed	Cum On Loc
Brine	bbl	0.0	0.0	0.0	2,200.0
Diesel Fuel - Rig	gal	0.0	217.0	986.0	2,083.0
Well Water	bbl	0.0	400.0	410.0	3,190.0



XTO Daily Drilling Report

Well Name: Fcu 7532

Date: 6/1/2019

Report #: 6.0

DFS: 2.57

DFS(TL): 2.57

Field Name: Fullerton	End Depth (ftKB): 1,793.0	AFE Number: DD.2019.01509
State/Province: Texas	Footage (ftKB): 23.00	Activity: DRILLING PROD. HOLE @ 1,793'
County: Andrews	Drilling Hours (hr): 0.50	Cum Percent Problem Time (%): 7.35
Rig (Names): Basic 37	Avg ROP (ft/hr): 46.0	Last Casing String: Surface, 1,770.0ftKB

Jobs		
Spud Date		Rig Release Date
5/29/2019		6/6/2019
Ground/Corrected Ground Elevation (ft)	KB-Ground Distance (ft)	Surface Casing Flange Elevation (ft)
3,284.00	13.00	
Proposed TD (MD) (ftKB)		Target Formation
7,275.0		Wichita-Albany

Safety Checks		
Date	Type	Com
5/31/2019	JSA Prepared/Reviewed	NIPPLING UP BOP. PINCH POINTS, OVER HEAD LOADS, WORKING IN TIGHT AREAS AND AWKWARD POSITIONS
5/31/2019	Safety Meeting	HELD PJSM W/BATTLE ENERGY BOP TESTERS & RIG CREW. DISCUSSED JOB STEPS & KNOWN PRESSURES. HIGH PRESSURE LINES & FLUID, LINE OF FIRE, & WORKING AT HEIGHT
5/31/2019	Safety Meeting	PJSM W/JIMMY LAW WELDER & RIG CREW DISCUSSED JOB ALONG WITH HOT WORK, FLAME CUTTING ON RIG, KNOWN HAZARDS, FIREWATCH & JOB SPECIFIC PPE.
6/1/2019	JSA Prepared/Reviewed	PICKING UP BHA & TRIPPING IN HOLE. USE OF TAG LINES WHEN HANDLING SUSPENDED LOADS, LINE OF FIRE, HAND AND BODY PLACEMENT & TEAMWORK

Daily Contacts	
Daily Contacts	
DSM, Gordon Smith, 432-770-9681; Consultant, Bob Johnson, 432-250-0925; Drlg Superintendent, Milton Turman, 817-524-5107; Drilling Engineer, Colton Childress, 432-241-2009	

Total Costs To Date			
Daily Mud Field Est (Cost)	Mud Additive Field Est To Date (Cost)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
	753.83	15,085.00	253,882.18

Mud Checks																		
Time	Depth (ftKB)	Dens (lb/gal)	Vis (s/qt)	PV (cP)	YP (lb/100ft²)	pH	Chlor (mg/L)	LCM	FC (1/32")	API FL (mL/30min)	HTHP FL (mL/30min)	Gel 10s (lb/100ft²)	Gel 10m (lb/100ft²)	OWR	ES (V)	WPS (ppm)	Vis 3rpm	Vis 6rpm
05:59	1,793.0	10.00	28			10.0												

Bit Run Information										
Bit Run	Size (in)	Make	Model	SN	IADC Codes	Depth In (ftKB)	Depth Out (ftKB)	Drilled (ft)	Drill Time (hr)	BHA ROP (ft/hr)
2	7 7/8	Hughes	D506TX	5295290	___	1,770.0	7,278.0	5,508.00	64.50	85.4

		Bit Dull								
		0-1-CT-S-X-0-NO-TD								

BHA Information for BHA#: <Drill String - BHA #>	
BHA #	Drill String Name
2	Pendulum

Drilling Parameters and Hydraulics										
Nozzles (1/32")			TFA (in²)	Flow Rate (gpm)	SPP (psi)	WOB (1000lbf)	RPM (rpm)	Drilling Torque	PU Str Wt (1000lbf)	Drill Str Wt (1000lbf)
22/22/22/22/22/22/22			2.23	352		12	60		76	74
SO Str Wt (1000lbf)		72								
Bit HP (hp)		Bit HPSI (hp/in²)			Jet Vel (ft/s)			Bit PSI Drop (psi)		Min AV (ft/min)
4.8		0.1			50.7			23.3		36.6
										524.4

Drill String Components						
Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Connections
1	Kelly Joint	4 1/2	3.826	32.31	7,278.00	RegXH
208	Drill Pipe	4 1/2	3.826	6,568.69	7,245.69	XHXX
20	Drill Collar	6 1/2	2.500	607.30	677.00	XHXX
1	Stabilizer	7 3/4	2.500	7.07	69.70	XHXX
1	Drill Collar - Pony	6 1/2	2.500	19.91	62.63	XHXX
1	Teledrift	6 1/2	2.500	8.60	42.72	XHXX
1	Stabilizer	7 3/4	2.500	7.08	34.12	XHXX
1	Mud Motor	6 3/4	2.500	26.04	27.04	XHReg

Mud Motors								
Make	Model	Directional Company	OD (in)	Serial Number	Deflection Type	Defln	Circ Time (hr)	Drilling Time (hr)
Crescent	6 3/4" 7/8 5.0	N/A	6 3/4	CD-65075	Fixed	0.0	1.50	64.50
Comment								
0.288 RPG. CRESCENT								

Survey Information								
Date	Description	MD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	TVDTie In (ftKB)	NSTie In (ft)	EWTie In (ft)	
5/28/2019	MWD	0.00	0.0	0.0	0.00	0.00	0.00	
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	
196.00	0.60	0.00	196.00	1.03	1.03	0.00	0.31	
620.00	0.40	0.00	619.98	4.73	4.73	0.00	0.05	
1,057.00	0.30	0.00	1,056.97	7.40	7.40	0.00	0.02	
1,499.00	0.30	0.00	1,498.97	9.71	9.71	0.00	0.00	
1,755.00	0.10	0.00	1,754.96	10.60	10.60	0.00	0.08	

Interval Problems					
Event #	Start Date	End Date	SubType	Name	Com
1	5/31/2019	6/1/2019	BOP/Choke	BASIC ENERGY SERVICES,LP	DURING TEST OF BOP & EQUIPMENT MULTIPLE LEAKS AND COMPONENT FAILURES WERE FOU...



XTO Daily Drilling Report

Well Name: Fcu 7532

Date: 6/1/2019

Report #: 6.0

DFS: 2.57

DFS(TL): 2.57

Daily Operations Summary and Mud Gas

Operation Summary #1

-FINISH NIPPLE UP BOP & EQUIPMENT

-TESTING BOP & EQUIPMENT **FIX LEAKS & REPLACE FAILED EQUIPMENT**

-TEST CASING TO 1,000PSI AS PER TEXAS RRC

-BATTLE PERFORMED ACCUMULATOR DRAW DOWN TEST

-P/U PRODUCTION BHA

-TIH W/DC'S & DP FROM DERRICK

-INSTALL ROTATING HEAD BEARING ASSY & ALIGN BOP'S

-DRILL OUT CEMENT & FLOAT EQUIPMENT **TAGGED CEMENT @ 1,718**

-DRILLED PRODUCTION HOLE F/1,770'-1,793'

Operation Summary #2

PERSONNEL: A.G SMITH (XTO DRILLING CONSULTANT) CONDUCTED TOURLY SAFETY MEETINGS W/RIG CREWS.

REGULATORY: TRRC JOB #:179208

SURVEY: 1,755' INC:0.1° - AZM: N/A°

MUD: WT:10 VIS:28 PH:10

GEOLOGY: SALADO SALTS

VISITORS: DANNY WAY (XTO SAFETY CONSULTANT) ON LOCATION TO CHECK ON RIG

RIG CREWS: DAYS: 5 NIGHTS: 5

SAFETY: NO INCIDENTS OR ACCIDENTS

**DAYS SINCE LAST LTA:506 RECORDABLE:506 INJURY:3 SPILL:90

RECEIVED 181JTS 5-1/2" HC-L80 CASING & 1 MARKER JOINT. CLEAN, DRIFT & INSPECTION PERFORMED BY ART'S INSPECTION FOUND 0 BAD JOINTS

Avg Background Gas (%)	Avg Connection Gas (%)	Avg Trip Gas (%)	Max Drill Gas (%)
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Activity Last 24 Hours

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Mjr Ops Code	Phase	Phase	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #	Com
06:00	09:00	3.00	3.00	NU	Run & Cement Surface Csg	Casing & Cement, Run & Cement Surface Csg	1,770.0	1,770.0		FINISH NIPPLE UP BOP & EQUIPMENT
09:00	10:15	1.25	4.25	TB	Run & Cement Surface Csg	Casing & Cement, Run & Cement Surface Csg	1,770.0	1,770.0		HOLD PJSM W/BATTLE ENERGY BOP TESTER & TEST BOP. TEST CHOKE MANIFOLD PANIC LINE VALVE, AND MANUAL ADJUSTABLE CHOKES TO LOW: 250PSI HIGH:5,000PSI
10:15	10:45	0.50	4.75	TB	Run & Cement Surface Csg	Casing & Cement, Run & Cement Surface Csg	1,770.0	1,770.0		SET PLUG & ATTEMPTED TO TEST BLIND RAMS ENCOUNTERED MULTIPLE LEAKS AT FLANGE CONNECTIONS, VALVES, HCR STEM & RAM DOORS.
10:45	12:45	2.00	6.75	TB	Run & Cement Surface Csg	Casing & Cement, Run & Cement Surface Csg	1,770.0	1,770.0		TIGHTEN LEAKING FLANGES, GREASE LEAKING VALVE STEMS, RESEAT & TIGHTEN RAM DOOR, FUNCTION HCR VALVE TO CLEAR & CLEAN STEM
12:45	14:30	1.75	8.50	TB	Run & Cement Surface Csg	Casing & Cement, Run & Cement Surface Csg	1,770.0	1,770.0	1	ATTEMPTED TO TEST BLIND RAMS BUT LOSING PRESSURE **NOTICED LEFT SIDE GATE VALVE (#4 ON TEST DIAGRAM) WAS LEAKING AT HANDLE ABOVE GLAND PACKING. ATTEMPTED TO WORK AND GREASE VALVE WITH NO SUCCESS**
14:30	17:00	2.50	11.00	TB	Run & Cement Surface Csg	Casing & Cement, Run & Cement Surface Csg	1,770.0	1,770.0	1	MOVED TEST LINE TO KILL SIDE AND REMOVED INTERNALS FROM CHECK VALVE TO TEST BLIND RAMS. CLOSED 3" MANUAL VALVE ON CHOKE SIDE OF BOP. -TEST BLIND RAMS TO LOW:250PSI HIGH:5,000PSI -TEST UPPER KELLY VALVE, TIW VALVE & DART VALVE TO LOW:250 PSI HIGH:3,000 PSI -TEST STAND PIPE BACK TO MUD PUMPS VALVES LOW:250 PSI HIGH:3,000 PSI
17:00	19:00	2.00	13.00	TB	Run & Cement Surface Csg	Casing & Cement, Run & Cement Surface Csg	1,770.0	1,770.0	1	RIG UP DRILL PIPE TO TEST PIPE RAMS & ANNULAR OPEN 3" MANUAL VALVE & CLOSE HCR TEST PIPE RAMS TO LOW:250PSI HIGH:5,000PSI TEST ANNULAR TO LOW:250PSI HIGH 3,500PSI
19:00	22:30	3.50	16.50	TB	Run & Cement Surface Csg	Casing & Cement, Run & Cement Surface Csg	1,770.0	1,770.0	1	REMOVE & REPLACE 2" INSIDE GATE VALVE & MANUAL ADJUSTABLE CHOKE ON CHOKE MANIFOLD. WELDER HAD TO CUT LOOSE SADDLE CLAMPS & WASH BOLTS OFF OF VALVE TEST INSIDE GATE VALVES & MANUAL CHOKE VALVES TO LOW:250PSI HIGH:5,000PSI
22:30	23:30	1.00	17.50	TC	Run & Cement Surface Csg	Casing & Cement, Run & Cement Surface Csg	1,770.0	1,770.0	1	BATTLE ENERGY PERFORMED CASING TEST TO 1,000PSI FOR 30 MINUTES AS PER TEXAS RRC. RIG DOWN BATTLE ENERGY TEST EQUIPMENT
23:30	00:00	0.50	18.00	OT	Run & Cement Surface Csg	Casing & Cement, Run & Cement Surface Csg	1,770.0	1,770.0	1	ACCUMULATOR DRAW DOWN TEST PERFORMED BY BATTLE ENERGY.
00:00	01:30	1.50	19.50	BH	Drill Production Hole	Drilling, Drill Production Hole	1,770.0	1,770.0		PICK UP BAKER HUGHES 7 7/8" BIT, CRESCENT STRAIGHT MOTOR, 7-3/4" IBS, INVICTUS SURVEY TOOL, PONY COLLAR & 7-3/4" IBS



XTO Daily Drilling Report

Well Name: Fcu 7532

Date: 6/1/2019

Report #: 6.0

DFS: 2.57

DFS(TL): 2.57

Activity Last 24 Hours

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Mjr Ops Code	Phase	Phase	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #	Com
01:30	03:30	2.00	21.50	TR	Drill Production Hole	Drilling, Drill Production Hole	1,770.0	1,770.0		TRIP IN HOLE W/10 STANDS D.C'S & 16 STANDS DP TO 1,688'
03:30	04:00	0.50	22.00	CR	Drill Production Hole	Drilling, Drill Production Hole	1,770.0	1,770.0		INSTALL ROTATING HEAD RUBBER/BEARING ASSY & ALIGN BOP
04:00	05:30	1.50	23.50	DC	Drill Production Hole	Drilling, Drill Production Hole	1,770.0	1,770.0		DISPLACE HOLE W/BRINE. DRILL CEMENT PLUG & FLOAT EQUIPMENT.WOB:5-10K, RPM:60 MOTOR RPM:99 TOTAL RPM:159 GPM:345, SPP:762. *****TAGGED CEMENT @ 1,718*****
05:30	06:00	0.50	24.00	DR	Drill Production Hole	Drilling, Drill Production Hole	1,770.0	1,793.0		ROTATE DRILL F/1,770'-1,793' FTG MADE:23' AVG. ROP:46 FT/HR, WOB:12K, RPM:60 MOTOR RPM:101, TOTAL RPM:161, GPM:352, SPP:680 PSI.

Cum Daily Cost Summary

Cost Des	Rpt Fld Est (Cost)	Cum Fld Est (Cost)
EX,V,RNT&LSE,OP,EQ,DRILLEQP,EXMOBILI&DEMOB,MIRU	12,250.00	134,216.66
EX,V,RNT&LSE,OP,EQ,MISC_OTH,RENTSUBSURFWITHOPER	475.00	1,200.00
Ex,V,Rnt&Lse,Op,Eq,Misc_Oth,RentSurfWithOper	50.00	200.00
EX,V,RNT&LSE,OP,EQ,MISC_OTH,RENTSURFWITHOPER	710.00	3,027.00
EX,V,SERV,ENG_O&GWELLDRILL	1,600.00	9,066.66

Mud Pumps

Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)
Pump 1	Bomco	F-1000	5 1/2	10.00	0.070
Pump 2	Bomco	F-1000	5 1/2	10.00	0.070

Supplies & Fuel Daily Amt

Supply Item Des	Unit Label	Received	Consumed	Cum Consumed	Cum On Loc
Brine	bbl	0.0	0.0	0.0	2,200.0
Diesel Fuel - Rig	gal	1,580.0	187.0	1,173.0	3,476.0
Well Water	bbl	0.0	0.0	410.0	3,190.0



XTO Daily Drilling Report

Well Name: Fcu 7532

Date: 6/2/2019
Report #: 7.0
DFS: 3.57
DFS(TL): 3.57

Field Name: Fullerton	End Depth (ftKB): 4,097.0	AFE Number: DD.2019.01509
State/Province: Texas	Footage (ftKB): 2,304.00	Activity: DRILLING PROD. HOLE @ 4,097'
County: Andrews	Drilling Hours (hr): 23.50	Cum Percent Problem Time (%): 6.25
Rig (Names): Basic 37	Avg ROP (ft/hr): 98.0	Last Casing String: Surface, 1,770.0ftKB

Jobs			
Spud Date		Rig Release Date	
5/29/2019		6/6/2019	
Ground/Corrected Ground Elevation (ft)	KB-Ground Distance (ft)	Surface Casing Flange Elevation (ft)	
3,284.00	13.00		
Proposed TD (MD) (ftKB)		Target Formation	
7,275.0		Wichita-Albany	

Safety Checks									
Date		Type				Com			
6/1/2019		JSA Prepared/Reviewed				MAKING CONNECTION W/TONGS, SWINGING LOADS, PINCH POINTS, LINE OF FIRE			
6/1/2019		JSA Prepared/Reviewed				GENERAL CLEANING & HOUSE KEEPING, SLIPS, TRIPS & FALLS, WORKING @ HEIGHT, 100% TIE OFF OVER 4',			

Daily Contacts									
Daily Contacts									
DSM, Gordon Smith, 432-770-9681; Consultant, Bob Johnson, 432-250-0925; Drlg Superintendent, Milton Turman, 817-524-5107; Drilling Engineer, Colton Childress, 432-241-2009									

Total Costs To Date									
Daily Mud Field Est (Cost)			Mud Additive Field Est To Date (Cost)			Daily Field Est Total (Cost)			Cum Field Est To Date (Cost)
818.91			1,572.74			15,903.91			269,786.09

Mud Checks																					
Time	Depth (ftKB)	Dens (lb/gal)	Vis (s/qt)	PV (cP)	YP (lb/100ft²)	pH	Chlor (mg/L)	LCM	FC (1/32")	API FL (mL/30min)	HTHP FL (mL/30min)	Gel 10s (lb/100ft²)	Gel 10m (lb/100ft²)	OWR	ES (V)	WPS (ppm)	Vis 3rpm	Vis 6rpm	Solids (%)	Sand (%)	LGS (%)
05:30	4,076.0	10.00	10			10.0															

Bit Run Information											
Bit Run	Size (in)	Make	Model	SN	IADC Codes	Depth In (ftKB)	Depth Out (ftKB)	Drilled (ft)	Drill Time (hr)	BHA ROP (ft/hr)	Bit Dull
2	7 7/8	Hughes	D506TX	5295290	___	1,770.0	7,278.0	5,508.00	64.50	85.4	0-1-CT-S-X-0-NO-TD

BHA Information for BHA#: <Drill String - BHA #>									
BHA #					Drill String Name				
2					Pendulum				

Drilling Parameters and Hydraulics												
Nozzles (1/32")				TFA (in²)	Flow Rate (gpm)	SPP (psi)	WOB (1000lbf)	RPM (rpm)	Drilling Torque	PU Str Wt (1000lbf)	Drill Str Wt (1000lbf)	SO Str Wt (1000lbf)
22/22/22/22/22/22				2.23	576		30	75		106	112	100
Bit HP (hp)		Bit HPSI (hp/in²)			Jet Vel (ft/s)		Bit PSI Drop (psi)		Min AV (ft/min)		Max AV (ft/min)	
21.0		0.4			83.0		62.4		59.9		7,228.2	

Drill String Components									
Jts	Item Des				OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Connections
1	Kelly Joint				4 1/2	3.826	32.31	7,278.00	RegXH
208	Drill Pipe				4 1/2	3.826	6,568.69	7,245.69	XHXX
20	Drill Collar				6 1/2	2.500	607.30	677.00	XHXX
1	Stabilizer				7 3/4	2.500	7.07	69.70	XHXX
1	Drill Collar - Pony				6 1/2	2.500	19.91	62.63	XHXX
1	Teledrift				6 1/2	2.500	8.60	42.72	XHXX
1	Stabilizer				7 3/4	2.500	7.08	34.12	XHXX
1	Mud Motor				6 3/4	2.500	26.04	27.04	XHReg

Mud Motors								
Make	Model	Directional Company	OD (in)	Serial Number	Deflection Type	Defln	Circ Time (hr)	Drilling Time (hr)
Crescent	6 3/4" 7/8 5.0	N/A	6 3/4	CD-65075	Fixed	0.0	1.50	64.50
Comment								
0.288 RPG. CRESCENT								

Survey Information											
Date	Description	MD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	TVDTie In (ftKB)	NSTie In (ft)	EWTie In (ft)				
5/28/2019	MWD	0.00	0.0	0.0	0.00	0.00	0.00				
MD (ftKB)		Incl (°)		Azm (°)		TVD (ftKB)		VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
1,969.00		0.10		0.00		1,968.96		10.98	10.98	0.00	0.00
2,412.00		1.50		0.00		2,411.91		17.16	17.16	0.00	0.32
2,854.00		2.00		0.00		2,853.70		30.66	30.66	0.00	0.11
3,328.00		1.70		0.00		3,327.45		45.96	45.96	0.00	0.06
3,801.00		1.20		0.00		3,800.30		57.93	57.93	0.00	0.11

Daily Operations Summary and Mud Gas									
Operation Summary #1									
-DRILLED PRODUCTION HOLE F/1,793'-3,056'									
-LUBRICATE RIG									
-DRILLED PRODUCTION HOLE F/3,056'-4,097'									
Operation Summary #2									
PERSONNEL: A.G SMITH (XTO DRILLING CONSULTANT) CONDUCTED TOURLY SAFETY MEETINGS W/RIG CREWS.									
REGULATORY: TRRC JOB #:179208									
SURVEY: 3,801' INC:1.2° - AZM: N/A°									
MUD: WT:10 VIS:28 PH:10									
GEOLOGY: GRAYBURG									
VISITORS: DANNY WAY (XTO SAFETY CONSULTANT) ON LOCATION TO CHECK ON RIG									
RIG CREWS: DAYS: 5 NIGHTS: 5									
SAFETY: NO INCIDENTS OR ACCIDENTS									
**DAYS SINCE LAST LTA:507 RECORDABLE:507 INJURY:4 SPILL:91									

Avg Background Gas (%)				Avg Connection Gas (%)				Avg Trip Gas (%)				Max Drill Gas (%)			
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Activity Last 24 Hours										
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Mjr Ops Code	Phase	Phase	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #	Com
06:00	16:00	10.0 0	10.0 0	DR	Drill Production Hole	Drilling, Drill Production Hole	1,793.0	3,056.0		ROTATE DRILL F/1,793'-3,056" FTG MADE:1,263' AVG. ROP:126 FT/HR, WOB:30K, RPM:75 MOTOR RPM:166, TOTAL RPM:241, GPM:575, SPP:2280 PSI.



XTO Daily Drilling Report

Well Name: Fcu 7532

Date: 6/2/2019

Report #: 7.0

DFS: 3.57

DFS(TL): 3.57

Activity Last 24 Hours

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Mjr Ops Code	Phase	Phase	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #	Com
16:00	16:30	0.50	10.50	SR	Drill Production Hole	Drilling, Drill Production Hole	3,056.0	3,056.0		SERVICE RIG
16:30	06:00	13.50	24.00	DR	Drill Production Hole	Drilling, Drill Production Hole	3,056.0	4,097.0		ROTATE DRILL F/3,056'-4,097' FTG MADE:1,041' AVG. ROP:77 FT/HR, WOB:30K, RPM:75 MOTOR RPM:166, TOTAL RPM:241, GPM:575, SPP:2530 PSI.

Mud Additives

Vendor	Des	Type	Consumed	Units	Field Est (Cost/unit)	Daily Field Est (Cost)
Dynamic Drilling Fluids	LIME	pH Control	22.0	each	5.05	111.10
Dynamic Drilling Fluids	MF-55	Polymer	1.0	gal	77.46	77.46
Dynamic Drilling Fluids	SALT GEL	Viscosifier	43.0	each	9.95	427.85
Dynamic Drilling Fluids	WILDCAT 360 CSI	Other	18.0	gal	8.00	144.00
Dynamic Drilling Fluids	WILDCAT 601 TZ	Other	6.0	gal	9.75	58.50

Cum Daily Cost Summary

Cost Des	Rpt Fld Est (Cost)	Cum Fld Est (Cost)
EX,V,GD,PART_DRILLMUD	818.91	1,572.74
EX,V,RNT&LSE,OP,EQ,DRILLEQP,EXMOBILI&DEMOB,MIRU	12,250.00	146,466.66
EX,V,RNT&LSE,OP,EQ,MISC_OTH,RENTSUBSURFWITHOPER	475.00	1,675.00
Ex,V,Rnt&Lse,Op,Eq,Misc_Oth,RentSurfWithOper	50.00	250.00
EX,V,RNT&LSE,OP,EQ,MISC_OTH,RENTSURFWITHOPER	710.00	3,737.00
EX,V,SERV,ENG_O&GWELLDRILL	1,600.00	10,666.66

Mud Pumps

Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)
Pump 1	Bomco	F-1000	5 1/2	10.00	0.070
Pump 2	Bomco	F-1000	5 1/2	10.00	0.070

Pump Checks

Pump #	Slow Spd	Strokes (spm)	P (psi)	Eff (%)
Pump 1	Yes	69	361.0	95
Pump 1	Yes	69	392.0	95
Pump 2	Yes	70	363.0	95
Pump 2	Yes	69	397.0	95

Supplies & Fuel Daily Amt

Supply Item Des	Unit Label	Received	Consumed	Cum Consumed	Cum On Loc
Brine	bbl	0.0	0.0	0.0	2,200.0
Diesel Fuel - Rig	gal	0.0	1,230.0	2,403.0	2,246.0
Well Water	bbl	0.0	10.0	420.0	3,180.0



XTO Daily Drilling Report

Well Name: Fcu 7532

Date: 6/3/2019

Report #: 8.0

DFS: 4.57

DFS(TL): 4.57

Field Name: Fullerton	End Depth (ftKB): 6,244.0	AFE Number: DD.2019.01509
State/Province: Texas	Footage (ftKB): 2,147.00	Activity: DRILLING PROD. HOLE @ 6,244'
County: Andrews	Drilling Hours (hr): 23.50	Cum Percent Problem Time (%): 5.43
Rig (Names): Basic 37	Avg ROP (ft/hr): 91.4	Last Casing String: Surface, 1,770.0ftKB

Jobs			
Spud Date		Rig Release Date	
5/29/2019		6/6/2019	
Ground/Corrected Ground Elevation (ft)	KB-Ground Distance (ft)	Surface Casing Flange Elevation (ft)	
3,284.00	13.00		
Proposed TD (MD) (ftKB)		Target Formation	
7,275.0		Wichita-Albany	

Safety Checks									
Date		Type				Com			
6/2/2019		JSA Prepared/Reviewed				PICKING UP PIPE F/V DOOR TO MOUSEHOLE. OVER HEAD/SWINGING LOADS. PINCH POINTS. LINE OF FIRE			
6/2/2019		Safety Meeting				LAST DAY FOCUS. WATCH OUT FOR SELF AND EACH OTHER. STOP WORK AUTHORITY			

Daily Contacts									
Daily Contacts									
DSM, Gordon Smith, 432-770-9681; Consultant, Bob Johnson, 432-250-0925; Drlg Superintendent, Milton Turman, 817-524-5107; Drilling Engineer, Colton Childress, 432-241-2009									

Total Costs To Date									
Daily Mud Field Est (Cost)			Mud Additive Field Est To Date (Cost)			Daily Field Est Total (Cost)			Cum Field Est To Date (Cost)
661.85			2,234.59			21,373.06			291,159.15

Mud Checks																					
Time	Depth (ftKB)	Dens (lb/gal)	Vis (s/qt)	PV (cP)	YP (lb/100ft²)	pH	Chlor (mg/L)	LCM	FC (1/32")	API FL (mL/30min)	HTHP FL (mL/30min)	Gel 10s (lb/100ft²)	Gel 10m (lb/100ft²)	OWR	ES (V)	WPS (ppm)	Vis 3rpm	Vis 6rpm	Solids (%)	Sand (%)	LGS (%)
05:30	6,222.0	10.00	28			10.0															

Bit Run Information											
Bit Run	Size (in)	Make	Model	SN	IADC Codes	Depth In (ftKB)	Depth Out (ftKB)	Drilled (ft)	Drill Time (hr)	BHA ROP (ft/hr)	Bit Dull
2	7 7/8	Hughes	D506TX	5295290	___	1,770.0	7,278.0	5,508.00	64.50	85.4	0-1-CT-S-X-0-NO-TD

BHA Information for BHA#: <Drill String - BHA #>									
BHA #					Drill String Name				
2					Pendulum				

Drilling Parameters and Hydraulics												
Nozzles (1/32")				TFA (in²)	Flow Rate (gpm)	SPP (psi)	WOB (1000lbf)	RPM (rpm)	Drilling Torque	PU Str Wt (1000lbf)	Drill Str Wt (1000lbf)	SO Str Wt (1000lbf)
22/22/22/22/22/22				2.23	529		28	70		142	136	130
Bit HP (hp)		Bit HPSI (hp/in²)			Jet Vel (ft/s)			Bit PSI Drop (psi)		Min AV (ft/min)		Max AV (ft/min)
16.2		0.3			76.2			52.6		55.0		6,638.4

Drill String Components									
Jts	Item Des				OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Connections
1	Kelly Joint				4 1/2	3.826	32.31	7,278.00	RegXH
208	Drill Pipe				4 1/2	3.826	6,568.69	7,245.69	XHXX
20	Drill Collar				6 1/2	2.500	607.30	677.00	XHXX
1	Stabilizer				7 3/4	2.500	7.07	69.70	XHXX
1	Drill Collar - Pony				6 1/2	2.500	19.91	62.63	XHXX
1	Teledrift				6 1/2	2.500	8.60	42.72	XHXX
1	Stabilizer				7 3/4	2.500	7.08	34.12	XHXX
1	Mud Motor				6 3/4	2.500	26.04	27.04	XHReg

Mud Motors								
Make	Model	Directional Company	OD (in)	Serial Number	Deflection Type	Defln	Circ Time (hr)	Drilling Time (hr)
Crescent	6 3/4" 7/8 5.0	N/A	6 3/4	CD-65075	Fixed	0.0	1.50	64.50
Comment								
0.288 RPG. CRESCENT								

Survey Information								
Date	Description	MD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	TVDTie In (ftKB)	NSTie In (ft)	EWTie In (ft)	
5/28/2019	MWD	0.00	0.0	0.0	0.00	0.00	0.00	
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	
4,275.00	0.40	0.00	4,274.25	64.55	64.55	0.00	0.17	
4,749.00	0.50	0.00	4,748.24	68.27	68.27	0.00	0.02	
5,161.00	0.60	0.00	5,160.22	72.23	72.23	0.00	0.02	
5,603.00	0.30	0.00	5,602.20	75.70	75.70	0.00	0.07	
6,076.00	0.70	0.00	6,075.18	79.83	79.83	0.00	0.08	

Daily Operations Summary and Mud Gas			
Operation Summary #1			
-DRILLED PRODUCTION HOLE F/4,097'-5,078'			
-SERVICE RIG			
-DRILLED PRODUCTION HOLE F/4,097'-6,244'			
Operation Summary #2			
PERSONNEL: A.G SMITH (XTO DRILLING CONSULTANT) CONDUCTED TOURLY SAFETY MEETINGS W/RIG CREWS.			
REGULATORY: TRRC JOB #:179208			
SURVEY: 6,076' INC:0.7° - AZM: N/A°			
MUD: WT:10 VIS:28 PH:10			
GEOLOGY: UPPER CLEARFORK			
VISITORS: DANNY WAY (XTO SAFETY CONSULTANT) ON LOCATION TO CHECK ON RIG			
RIG CREWS: DAYS: 5 NIGHTS: 5			
SAFETY: NO INCIDENTS OR ACCIDENTS			
**DAYS SINCE LAST LTA:508 RECORDABLE:508 INJURY:5 SPILL:92			
Avg Background Gas (%)	Avg Connection Gas (%)	Avg Trip Gas (%)	Max Drill Gas (%)

Activity Last 24 Hours										
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Mjr Ops Code	Phase	Phase	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #	Com
06:00	16:00	10.0 0	10.0 0	DR	Drill Production Hole	Drilling, Drill Production Hole	4,097.0	5,078.0		ROTATE DRILL F/4,097'-5,078' FTG MADE:981' AVG. ROP:98 FT/HR, WOB:36K, RPM:75 MOTOR RPM:160 TOTAL RPM:235 GPM:555, SPP:2712 PSI.

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XTO Daily Drilling Report

Well Name: Fcu 7532

Date: 6/3/2019

Report #: 8.0

DFS: 4.57

DFS(TL): 4.57

Activity Last 24 Hours

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Mjr Ops Code	Phase	Phase	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #	Com
16:00	16:30	0.50	10.50	SR	Drill Production Hole	Drilling, Drill Production Hole	5,078.0	5,078.0		SERVICE RIG
16:30	06:00	13.50	24.00	DR	Drill Production Hole	Drilling, Drill Production Hole	5,078.0	6,244.0		ROTATE DRILL F/5,078'-6,244' FTG MADE:1,166' AVG. ROP:86 FT/HR, WOB:28K, RPM:70 MOTOR RPM:152 TOTAL RPM:222 GPM:529, SPP:2600 PSI.

Mud Additives

Vendor	Des	Type	Consumed	Units	Field Est (Cost/unit)	Daily Field Est (Cost)
Dynamic Drilling Fluids	LIME	pH Control	22.0	each	5.05	111.10
Dynamic Drilling Fluids	SALT GEL	Viscosifier	35.0	each	9.95	348.25
Dynamic Drilling Fluids	WILDCAT 360 CSI	Other	18.0	gal	8.00	144.00
Dynamic Drilling Fluids	WILDCAT 601 TZ	Other	6.0	gal	9.75	58.50

Cum Daily Cost Summary

Cost Des	Rpt Fld Est (Cost)	Cum Fld Est (Cost)
EX,V,FUEL,PURCH_OTHR	5,626.21	6,126.21
EX,V,GD,PART_DRILLMUD	661.85	2,234.59
EX,V,RNT&LSE,OP,EQ,DRILLEQP,EXMOBILI&DEMOB,MIRU	12,250.00	158,716.66
EX,V,RNT&LSE,OP,EQ,MISC_OTH,RENTSUBSURFWITHOPER	475.00	2,150.00
Ex,V,Rnt&Lse,Op,Eq,Misc_Oth,RentSurfWithOper	50.00	300.00
EX,V,RNT&LSE,OP,EQ,MISC_OTH,RENTSURFWITHOPER	710.00	4,447.00
EX,V,SERV,ENG_O&GWELLDRILL	1,600.00	12,266.66

Mud Pumps

Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)
Pump 1	Bomco	F-1000	5 1/2	10.00	0.070
Pump 2	Bomco	F-1000	5 1/2	10.00	0.070

Pump Checks

Pump #	Slow Spd	Strokes (spm)	P (psi)	Eff (%)
Pump 1	Yes	68	440.0	95
Pump 1	Yes	68	449.0	95
Pump 2	Yes	68	444.0	95
Pump 2	Yes	68	454.0	95



XTO Daily Drilling Report

Well Name: Fcu 7532

Date: 6/4/2019

Report #: 9.0

DFS: 5.57

DFS(TL): 5.57

Field Name: Fullerton	End Depth (ftKB): 7,278.0	AFE Number: DD.2019.01509
State/Province: Texas	Footage (ftKB): 1,034.00	Activity: LAYING DOWN DRILL STRING
County: Andrews	Drilling Hours (hr): 17.00	Cum Percent Problem Time (%): 4.81
Rig (Names): Basic 37	Avg ROP (ft/hr): 60.8	Last Casing String: Surface, 1,770.0ftKB

Jobs			
Spud Date		Rig Release Date	
5/29/2019		6/6/2019	
Ground/Corrected Ground Elevation (ft)	KB-Ground Distance (ft)	Surface Casing Flange Elevation (ft)	
3,284.00	13.00		
Proposed TD (MD) (ftKB)		Target Formation	
7,275.0		Wichita-Albany	

Safety Checks									
Date	Type				Com				
6/3/2019	Safety Meeting				FIRST DAY BACK ON HITCH, JOB & SITUATION AWARENESS, STAYING FOCUSED. MAKING CONNECTIONS W/TONGS LINE OF FIRE				
6/3/2019	Safety Meeting				ADVERSE WEATHER CONDITIONS, LAYING DOWN DRILL STRING, OVERHEAD/SUSPENDED LOADS, LINE OF FIRE				

Daily Contacts									
Daily Contacts									
DSM, Gordon Smith, 432-770-9681; Consultant, Bob Johnson, 432-250-0925; Drlg Superintendent, Milton Turman, 817-524-5107; Drilling Engineer, Colton Childress, 432-241-2009									

Total Costs To Date									
Daily Mud Field Est (Cost)			Mud Additive Field Est To Date (Cost)			Daily Field Est Total (Cost)			Cum Field Est To Date (Cost)
1,050.40			3,284.99			16,385.40			307,544.55

Mud Checks																					
Time	Depth (ftKB)	Dens (lb/gal)	Vis (s/qt)	PV (cP)	YP (lb/100ft²)	pH	Chlor (mg/L)	LCM	FC (1/32")	API FL (mL/30min)	HTHP FL (mL/30min)	Gel 10s (lb/100ft²)	Gel 10m (lb/100ft²)	OWR	ES (V)	WPS (ppm)	Vis 3rpm	Vis 6rpm	Solids (%)	Sand (%)	LGS (%)
23:00	7,250.0	10.10	29			10.0															

Bit Run Information											
Bit Run	Size (in)	Make	Model	SN	IADC Codes	Depth In (ftKB)	Depth Out (ftKB)	Drilled (ft)	Drill Time (hr)	BHA ROP (ft/hr)	Bit Dull
2	7 7/8	Hughes	D506TX	5295290	—	1,770.0	7,278.0	5,508.00	64.50	85.4	0-1-CT-S-X-0-NO-TD

BHA Information for BHA#: <Drill String - BHA #>									
BHA #					Drill String Name				
2					Pendulum				

Drilling Parameters and Hydraulics											
Nozzles (1/32")			TFA (in²)	Flow Rate (gpm)	SPP (psi)	WOB (1000lbf)	RPM (rpm)	Drilling Torque	PU Str Wt (1000lbf)	Drill Str Wt (1000lbf)	SO Str Wt (1000lbf)
22/22/22/22/22/22			2.23	530		35	70		160	152	144
Bit HP (hp)		Bit HPSI (hp/in²)			Jet Vel (ft/s)		Bit PSI Drop (psi)		Min AV (ft/min)		Max AV (ft/min)
16.5		0.3			76.4		53.3		55.1		6,651.0

Drill String Components									
Jts	Item Des				OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Connections
1	Kelly Joint				4 1/2	3.826	32.31	7,278.00	RegXH
208	Drill Pipe				4 1/2	3.826	6,568.69	7,245.69	XHXX
20	Drill Collar				6 1/2	2.500	607.30	677.00	XHXX
1	Stabilizer				7 3/4	2.500	7.07	69.70	XHXX
1	Drill Collar - Pony				6 1/2	2.500	19.91	62.63	XHXX
1	Teledrift				6 1/2	2.500	8.60	42.72	XHXX
1	Stabilizer				7 3/4	2.500	7.08	34.12	XHXX
1	Mud Motor				6 3/4	2.500	26.04	27.04	XHReg

Mud Motors								
Make	Model	Directional Company	OD (in)	Serial Number	Deflection Type	Defln	Circ Time (hr)	Drilling Time (hr)
Crescent	6 3/4" 7/8 5.0	N/A	6 3/4	CD-65075	Fixed	0.0	1.50	64.50
Comment								
0.288 RPG. CRESCENT								

Survey Information															
Date	Description	MD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	TVD Tie In (ftKB)	NSTie In (ft)	EWTie In (ft)								
5/28/2019	MWD	0.00	0.0	0.0	0.00	0.00	0.00								
MD (ftKB)		Incl (°)		Azim (°)		TVD (ftKB)		VS (ft)		NS (ft)		EW (ft)		DLS (°/100ft)	
5,603.00		0.30		0.00		5,602.20		75.70		75.70		0.00		0.07	
6,076.00		0.70		0.00		6,075.18		79.83		79.83		0.00		0.08	
6,546.00		1.00		0.00		6,545.13		86.80		86.80		0.00		0.06	
7,021.00		1.20		0.00		7,020.04		95.92		95.92		0.00		0.04	
7,234.00		1.20		0.00		7,233.00		100.38		100.38		0.00		0.00	

Daily Operations Summary and Mud Gas									
Operation Summary #1									
-DRILLED PRODUCTION HOLE F/6,244'-6,559'									
-SERVICE RIG									
-DRILLED PRODUCTION HOLE F/6,559'-PRODUCTION TD @ 7,278'									
-TAKE FINAL SURVEY PUMP HIGH VIS SWEEP & CIRCULATE HOLE CLEAN									
-SET KELLY BACK INSTALL ELEVATORS POOH LAYING DOWN PIPE									
Operation Summary #2									
PERSONNEL: A.G SMITH (XTO DRILLING CONSULTANT) CONDUCTED TOURLY SAFETY MEETINGS W/RIG CREWS.									
REGULATORY: TRRC JOB #:179208									
SURVEY: 7,234' INC:1.2° - AZM: N/A°									
MUD: WT:10.1 VIS:29 PH:10									
GEOLOGY: UPPER CLEARFORK									
VISITORS: DANNY WAY (XTO SAFETY CONSULTANT) ON LOCATION TO CHECK ON RIG									
RIG CREWS: DAYS: 5 NIGHTS: 5									
SAFETY: NO INCIDENTS OR ACCIDENTS									
**DAYS SINCE LAST LTA:509 RECORDABLE:509 INJURY:6 SPILL:93									
Avg Background Gas (%)			Avg Connection Gas (%)			Avg Trip Gas (%)			Max Drill Gas (%)



XTO Daily Drilling Report

Well Name: Fcu 7532

Date: 6/4/2019

Report #: 9.0

DFS: 5.57

DFS(TL): 5.57

Activity Last 24 Hours

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Mjr Ops Code	Phase	Phase	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #	Com
06:00	11:00	5.00	5.00	DR	Drill Production Hole	Drilling, Drill Production Hole	6,244.0	6,559.0		ROTATE DRILL F/6,244'-6,559' FTG MADE:315' AVG. ROP:63 FT/HR, WOB:30K, RPM:70 MOTOR RPM:153 TOTAL RPM:223 GPM:530, SPP:2750 PSI.
11:00	11:30	0.50	5.50	SR	Drill Production Hole	Drilling, Drill Production Hole	6,559.0	6,559.0		SERVICE RIG
11:30	23:30	12.00	17.50	DR	Drill Production Hole	Drilling, Drill Production Hole	6,559.0	7,278.0		ROTATE DRILL F/6,559'-7,278' FTG MADE:719' AVG. ROP:60 FT/HR, WOB:35K, RPM:70 MOTOR RPM:153 TOTAL RPM:223 GPM:530, SPP:2730 PSI.
23:30	01:00	1.50	19.00	CA	Drill Production Hole	Drilling, Drill Production Hole	7,278.0	7,278.0		TAKE FINAL SURVEY PUMP 50BBLs HIGH VIS SWEEP & CIRCULATE HOLE CLEAN
01:00	06:00	5.00	24.00	TR	Drill Production Hole	Drilling, Drill Production Hole	7,278.0	7,278.0		SET KELLY BACK, HANG ELEVATORS & POOH LAYING DOWN

Mud Additives

Vendor	Des	Type	Consumed	Units	Field Est (Cost/unit)	Daily Field Est (Cost)
Dynamic Drilling Fluids	LIME	pH Control	10.0	each	5.05	50.50
Dynamic Drilling Fluids	SALT GEL	Viscosifier	10.0	each	9.95	99.50
Dynamic Drilling Fluids	WILDCAT 360 CSI	Other	18.0	gal	8.00	144.00
Dynamic Drilling Fluids	WILDCAT 601 TZ	Other	6.0	gal	9.75	58.50
Dynamic Drilling Fluids	YELLOW STARCH	Fluid Loss Control	35.0	each	19.94	697.90

Cum Daily Cost Summary

Cost Des	Rpt Fld Est (Cost)	Cum Fld Est (Cost)
EX,V,CONTRACTLABOR,FABRICATION	250.00	1,720.00
EX,V,GD,PART_DRILLMUD	1,050.40	3,284.99
EX,V,RNT&LSE,OP,EQ,DRILLEQP,EXMOBILI&DEMOB,MIRU	12,250.00	170,966.66
EX,V,RNT&LSE,OP,EQ,MISC_OTH,RENTSUBSURFWITHOPER	475.00	2,625.00
Ex,V,Rnt&Lse,Op,Eq,Misc_Oth,RentSurfWithOper	50.00	350.00
EX,V,RNT&LSE,OP,EQ,MISC_OTH,RENTSURFWITHOPER	710.00	5,157.00
EX,V,SERV,ENG_O&GWELLDRILL	1,600.00	13,866.66

Mud Pumps

Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)
Pump 1	Bomco	F-1000	5 1/2	10.00	0.070
Pump 2	Bomco	F-1000	5 1/2	10.00	0.070

Pump Checks

Pump #	Slow Spd	Strokes (spm)	P (psi)	Eff (%)
Pump 1	Yes	67	457.0	95
Pump 1	Yes	67	476.0	95
Pump 2	Yes	68	461.0	95
Pump 2	Yes	68	480.0	95

Supplies & Fuel Daily Amt

Supply Item Des	Unit Label	Received	Consumed	Cum Consumed	Cum On Loc
Brine	bbl	0.0	0.0	0.0	2,200.0
Diesel Fuel - Rig	gal	0.0	546.0	2,949.0	1,700.0
Well Water	bbl	0.0	10.0	430.0	3,170.0



XTO Daily Drilling Report

Well Name: Fcu 7532

Date: 6/5/2019

Report #: 10.0

DFS: 6.57

DFS(TL): 6.57

Field Name: Fullerton	End Depth (ftKB): 7,278.0	AFE Number: DD.2019.01509
State/Province: Texas	Footage (ftKB): 0.00	Activity: WAITING ON FISHERMAN
County: Andrews	Drilling Hours (hr):	Cum Percent Problem Time (%): 9.48
Rig (Names): Basic 37	Avg ROP (ft/hr):	Last Casing String: Surface, 1,770.0ftKB

Jobs			
Spud Date		Rig Release Date	
5/29/2019		6/6/2019	
Ground/Corrected Ground Elevation (ft)		KB-Ground Distance (ft)	Surface Casing Flange Elevation (ft)
3,284.00		13.00	
Proposed TD (MD) (ftKB)		Target Formation	
7,275.0		Wichita-Albany	

Safety Checks		
Date	Type	Com
6/4/2019	JSA Prepared/Reviewed	POOH LAYING DOWN, LAYING DOWN DC,S/BHA. SUSPENDED LOADS, LINE OF FIRE
6/4/2019	Safety Meeting	HELD PJSM W/HALLIBURTON BEOFRE PSOTTING & RIGGING UP LOGGING UNIT
6/4/2019	Safety Meeting	WORKING STUCK TOOLS, HIGH TENSION & LINE OF FIRE, ADVERSE WEATHER CONDITIONS

Daily Contacts	
Daily Contacts	
DSM, Gordon Smith, 432-770-9681; Consultant, Bob Johnson, 432-250-0925; Drlg Superintendent, Milton Turman, 817-524-5107; Drilling Engineer, Colton Childress, 432-241-2009	

Total Costs To Date			
Daily Mud Field Est (Cost)	Mud Additive Field Est To Date (Cost)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
	3,284.99	15,085.00	322,629.55

Survey Information							
Date	Description	MD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	TVDTie In (ftKB)	NSTie In (ft)	EW Tie In (ft)
5/28/2019	MWD	0.00	0.0	0.0	0.00	0.00	0.00
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
5,603.00	0.30	0.00	5,602.20	75.70	75.70	0.00	0.07
6,076.00	0.70	0.00	6,075.18	79.83	79.83	0.00	0.08
6,546.00	1.00	0.00	6,545.13	86.80	86.80	0.00	0.06
7,021.00	1.20	0.00	7,020.04	95.92	95.92	0.00	0.04
7,234.00	1.20	0.00	7,233.00	100.38	100.38	0.00	0.00

Interval Problems					
Event #	Start Date	End Date	SubTyp	Name	Com
2	6/4/2019	6/6/2019	Wireline Logging	HALLIBURTON ENERGY SVCS INC	RIG DOWN LOGGERS. AFTER LAYING DOWN FIRST 3 TOOLS, TOOLS BECAME STUCK AND COU...

Daily Operations Summary and Mud Gas	
Operation Summary #1	
-LAY DOWN DP TO 708'	
-P/U & BREAK DOWN KELLY REMOVE ROTATING RUBBER/BEARING ASSY	
-LAY DOWN COLLARS & BHA	
-LAY DOWN KELLY,SWIVEL & MISCELLANEOUS SUBS	
-HELD PJSM W/HALLIBURTON R/U & RUN WIRE LINE LOGS	
-WIRE LINE TOOLS STUCK IN CASING @ 141' WHILE RIGGING DOWN	
-WORK TOOLS TRY TO FREE	
-WAIT ON FISHERMAN	
Operation Summary #2	
PERSONNEL: A.G SMITH (XTO DRILLING CONSULTANT) CONDUCTED TOURLY SAFETY MEETINGS W/RIG CREWS.	
REGULATORY: TRRC JOB #:179208	
SURVEY: 7,234' INC:1.2° - AZM: N/A°	
MUD: WT:10.1 VIS:29 PH:10	
GEOLOGY: UPPER CLEARFORK	
VISITORS: DANNY WAY (XTO SAFETY CONSULTANT)ON LOCATION TO CHECK ON RIG	
BOB JOHNSON (XTO FIELD SUPERINTENDENT) ON LOCATION TO HELP WITH STUCK WIRE LINE TOOLS	
RIG CREWS: DAYS: 5 NIGHTS: 5	
SAFETY: NO INCIDENTS OR ACCIDENTS	
**DAYS SINCE LAST LTA:510 RECORDABLE:510 INJURY:7 SPILL:94	

Avg Background Gas (%)	Avg Connection Gas (%)	Avg Trip Gas (%)	Max Drill Gas (%)
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Activity Last 24 Hours										
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Mjr Ops Code	Phase	Phase	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #	Com
06:00	08:30	2.50	2.50	TR	Drill Production Hole	Drilling, Drill Production Hole	7,278.0	7,278.0		LAY DOWN DRILL PIPE FREELY TO 708'
08:30	09:00	0.50	3.00	OT	Drill Production Hole	Drilling, Drill Production Hole	7,278.0	7,278.0		P/U & BREAK DOWN KELLY. REMOVE ROTATING RUBBER/BEARING ASSY
09:00	10:30	1.50	4.50	BH	Drill Production Hole	Drilling, Drill Production Hole	7,278.0	7,278.0		SET KELLY BACK & LAY DOWN D.C'S & BHA CONSISTING OF 2x 7-3/4 IBS, 1x 6-1/4" PONY COLLAR, 1x INVICTUS SURE FIRE INCLINATION TOOL, 1x MOTOR, AND 7-7/8" HUGHES BIT
10:30	11:00	0.50	5.00	OT	Run and Cement Production Csg	Casing & Cement, Run and Cement Production Csg	7,278.0	7,278.0		LAY DOWN KELLY, SWIVEL & MISCELLANEOUS SUBS
11:00	18:00	7.00	12.00	LO	Run and Cement Production Csg	Casing & Cement, Run and Cement Production Csg	7,278.0	7,278.0		LOG IN HOLE WITH SPECTRAL DENSITY, DUAL LATEROLOG, DUAL SPACED NEUTRON & GAMMA RAY -WIRELINE TD @ 7,280' WLM -8 5/8" CSG SHOE LOCATED @ 1,767' WLM. -ANNULAR HOLE VOLUME W/5-1/2" CASING: 1,147 CU/FT.
18:00	18:30	0.50	12.50	RS	Run and Cement Production Csg	Casing & Cement, Run and Cement Production Csg	7,278.0	7,278.0	2	RIG DOWN LOGGERS. AFTER LAYING DOWN FIRST 3 TOOLS, TOOLS BECAME STUCK AND COULD NOT PULL UP



XTO Daily Drilling Report

Well Name: Fcu 7532

Date: 6/5/2019

Report #: 10.0

DFS: 6.57

DFS(TL): 6.57

Activity Last 24 Hours

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Mjr Ops Code	Phase	Phase	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #	Com
18:30	01:00	6.50	19.00	OT	Run and Cement Production Csg	Casing & Cement, Run and Cement Production Csg	7,278.0	7,278.0	2	ATTEMPTED TO WORK TOOLS FREE COULD NOT COME UP. WENT DOWN WITH TOOLS WITH NO DRAG AND TRIED TO PULL BACK UP & WAS UNABLE TO **TOP OF TOOLS @ 61.68' BOTTOM OF TOOLS @ 141' WORKED TOOLS DOWN IN 50' INCREMENTS AND ATTEMPTED TO PULL BACK UP. NO DRAG GOING DOWN BUT HANGING WHEN TRYING TO PULL BACK UP AT ROUGHLY 42' INCREMENTS APPARENTLY HANGING AT SURFACE CASING COLLARS. LAST SPOT PULLED IN TO @ 816' BOTTOM OF TOOLS 736.68' TOP OF TOOLS
01:00	06:00	5.00	24.00	WP	Run and Cement Production Csg	Casing & Cement, Run and Cement Production Csg	7,278.0	7,278.0	2	WAIT ON FISHERMAN & TOOLS

Cum Daily Cost Summary

Cost Des	Rpt Fld Est (Cost)	Cum Fld Est (Cost)
EX,V,RNT&LSE,OP,EQ,DRILLEQP,EXMOBILI&DEMOB,MIRU	12,250.00	183,216.66
EX,V,RNT&LSE,OP,EQ,MISC_OTH,RENTSUBSURFWITHOPER	475.00	3,100.00
Ex,V,Rnt&Lse,Op,Eq,Misc_Oth,RentSurfWithOper	50.00	400.00
EX,V,RNT&LSE,OP,EQ,MISC_OTH,RENTSURFWITHOPER	710.00	5,867.00
EX,V,SERV,ENG_O&GWELLDRILL	1,600.00	15,466.66

Mud Pumps

Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)
Pump 1	Bomco	F-1000	5 1/2	10.00	0.070
Pump 2	Bomco	F-1000	5 1/2	10.00	0.070

Supplies & Fuel Daily Amt

Supply Item Des	Unit Label	Received	Consumed	Cum Consumed	Cum On Loc
Brine	bbl	0.0	0.0	0.0	2,200.0
Diesel Fuel - Rig	gal	0.0	218.0	3,167.0	1,482.0
Well Water	bbl	0.0	10.0	440.0	3,160.0



XTO Daily Drilling Report

Well Name: Fcu 7532

Date: 6/6/2019

Report #: 11.0

DFS: 7.57

DFS(TL): 7.57

Activity Last 24 Hours										
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Mjr Ops Code	Phase	Phase	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #	Com
06:00	09:00	3.00	3.00	WP	Run and Cement Production Csg	Casing & Cement, Run and Cement Production Csg	7,278.0	7,278.0	2	WAIT ON FISHERMAN & TOOLS
09:00	13:00	4.00	7.00	FI	Run and Cement Production Csg	Casing & Cement, Run and Cement Production Csg	7,278.0	7,278.0	2	WORK STUCK LOGGING TOOLS @ 1,843' & 1,848' WIRE LINE MEASUREMENT
13:00	15:00	2.00	9.00	FI	Run and Cement Production Csg	Casing & Cement, Run and Cement Production Csg	7,278.0	7,278.0	2	RIG DOWN WIRE LUBRIACTOR, REPOSITION WIRE LINE SHEAVES. PICK UP & MAKE UP YELLOW JACKET FISHING TOOLS
15:00	18:30	3.50	12.50	FI	Run and Cement Production Csg	Casing & Cement, Run and Cement Production Csg	7,278.0	7,278.0	2	PICK UP DRILL PIPE & TRIP IN HOLE
18:30	18:45	0.25	12.75	FI	Run and Cement Production Csg	Casing & Cement, Run and Cement Production Csg	7,278.0	7,278.0	2	FISHING, HOOK ON TO FISH @ 1,812' STEEL LINE MEASUREMENT
18:45	22:30	3.75	16.50	FI	Run and Cement Production Csg	Casing & Cement, Run and Cement Production Csg	7,278.0	7,278.0	2	TRIP OUT HOLE WITH FISH.
22:30	23:30	1.00	17.50	FI	Run and Cement Production Csg	Casing & Cement, Run and Cement Production Csg	7,278.0	7,278.0	2	LAY DOWN FISH (LOGGING TOOLS)
23:30	00:30	1.00	18.50	FI	Run and Cement Production Csg	Casing & Cement, Run and Cement Production Csg	7,278.0	7,278.0	2	LAY DOWN FISHING TOOLS & LOAD OUT LOGGING TOOLS OFF CAT WALK.
00:30	01:00	0.50	19.00	TR	Run and Cement Production Csg	Casing & Cement, Run and Cement Production Csg	7,278.0	7,278.0	2	TRIP IN HOLE WITH DRILL PIPE
01:00	03:00	2.00	21.00	LD	Run and Cement Production Csg	Casing & Cement, Run and Cement Production Csg	7,278.0	7,278.0	2	LAY DOWN 58 JOINTS DRILL PIPE
03:00	04:30	1.50	22.50	RS	Run and Cement Production Csg	Casing & Cement, Run and Cement Production Csg	7,278.0	7,278.0		HOLD PJSM W/BULL ROGERS CASING CREW SPOT EQUIPMENT & RIG UP
04:30	06:00	1.50	24.00	RC	Run and Cement Production Csg	Casing & Cement, Run and Cement Production Csg	7,278.0	7,278.0		RUN 5-1/2" 17# L-80 CASING AS FOLLOWS: 1-FLOAT SHOE. 1.32' (TOP @ 7,276.7') 1-SHOE JOINT. 40.58 1-FLOAT COLLAR. 1.21' (TOP @ 7,234.9') 42-CASING JOINTS. 1,724.33' 1-MARKER JOINT. 20.64' (TOP @ 5,489.9') 134- CASING JOINTS. 5,494.01'. RAN A TOTAL OF 178 JTS. TOTAL STRING LENGTH. 7,282.09' SET @ 7,278' WASHED DOWN JT# XX TO BOTTOM ***** (AT REPORT TIME 39 JOINTS IN HOLE =1,603') ***** DRESSED W/ WEATHERFORD FLOAT EQUIPMENT, THREAD LOCKED FS, SJ, FC. TORQUED CSG TO OPT. 3,410 FT/LB. PLACED 58 CENTRALIZERS AS PER PROGRAM.

Cum Daily Cost Summary		
Cost Des	Rpt Fld Est (Cost)	Cum Fld Est (Cost)
EX,V,CONTRACTLABOR,FABRICATION	1,251.00	2,971.00
EX,V,RNT&LSE,OP,EQ,DRILLEQP,EXMOBILI&DEMOB,MIRU	12,250.00	195,466.66
Ex,V,Rnt&Lse,Op,Eq,Misc_Oth,RentSurfWithOper	50.00	450.00
EX,V,RNT&LSE,OP,EQ,MISC_OTH,RENTSURFWITHOPER	710.00	6,577.00
EX,V,SERV,ENG_O&GWELLDRILL	1,600.00	17,066.66
Ex,V,Serv,O&GWell,Fishing	12,267.06	12,267.06
EX,V,SRV,G&G,EMOP,WELLLOGGOPENHOLE	32,285.12	32,285.12

Mud Pumps					
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)
Pump 1	Bomco	F-1000	5 1/2	10.00	0.070
Pump 2	Bomco	F-1000	5 1/2	10.00	0.070

Supplies & Fuel Daily Amt					
Supply Item Des	Unit Label	Received	Consumed	Cum Consumed	Cum On Loc
Brine	bbl	0.0	0.0	0.0	2,200.0
Diesel Fuel - Rig	gal	0.0	163.0	3,330.0	1,319.0
Well Water	bbl	0.0	5.0	445.0	3,155.0

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XTO Daily Drilling Report

Well Name: Fcu 7532

Date: 6/6/2019

Report #: 12.0

DFS: 8.22

DFS(TL): 8.22

Field Name: Fullerton	End Depth (ftKB): 7,278.0	AFE Number: DD.2019.01509
State/Province: Texas	Footage (ftKB): 0.00	Activity: RIG RELEASED @ 21:30 ON 6/6/2019
County: Andrews	Drilling Hours (hr):	Cum Percent Problem Time (%): 15.84
Rig (Names): Basic 37	Avg ROP (ft/hr):	Last Casing String: Production, 7,278.0ftKB

Jobs			
Spud Date		Rig Release Date	
5/29/2019		6/6/2019	
Ground/Corrected Ground Elevation (ft)	KB-Ground Distance (ft)	Surface Casing Flange Elevation (ft)	
3,284.00	13.00		
Proposed TD (MD) (ftKB)		Target Formation	
7,275.0		Wichita-Albany	

Safety Checks		
Date	Type	Com
6/6/2019	Safety Meeting	PJSM W/B.J SERVICES PRIOR TO RIG UP & PUMP CEMENT
6/6/2019	JSA Prepared/Reviewed	NIPPLE DOWN, SET SLIPS, LAY DOWN BOP

Daily Contacts	
Daily Contacts	
DSM, Jack Birdwell, 432-816-5087; Consultant, Bob Johnson, 432-250-0925; Drlg Superintendent, Milton Turman, 817-524-5107; Drilling Engineer, Colton Childress, 432-241-2009	

Total Costs To Date			
Daily Mud Field Est (Cost)	Mud Additive Field Est To Date (Cost)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)
	3,284.99	132,649.02	515,691.75

Survey Information							
Date	Description	MD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	TVDTie In (ftKB)	NSTie In (ft)	EW Tie In (ft)
5/28/2019	MWD	0.00	0.0	0.0	0.00	0.00	0.00
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
5,603.00	0.30	0.00	5,602.20	75.70	75.70	0.00	0.07
6,076.00	0.70	0.00	6,075.18	79.83	79.83	0.00	0.08
6,546.00	1.00	0.00	6,545.13	86.80	86.80	0.00	0.06
7,021.00	1.20	0.00	7,020.04	95.92	95.92	0.00	0.04
7,234.00	1.20	0.00	7,233.00	100.38	100.38	0.00	0.00

Daily Operations Summary and Mud Gas	
Operation Summary #1	
-FINISH RUNNING 5-1/2" 17# L-80 PRODUCTION CASING.	
-CIRCULATE CASING ON BOTTOM R/D BULL ROGERS CASING CREW.	
-SPOT CEMENT TRUCKS HOLD PJSM W/B.J SERVICES R/U CEMENT PUMP TRUCKS & BULK TRUCKS	
-CEMENT PRODUCTION CASING.	
-WELL IS STATIC, NIPPLE DOWN & HANG BOP SET SLIPS W/100K TENSION	
-FINISH NIPPLE DOWN & LAY DOWN BOP	
-DRESS OFF CASING INSTALL TUBING HEAD & TEST FLANGE TO 5,000 PSI & TEST NECK SEAL TO 6,800 PSI (OK)	
****RIG RELEASED @ 21:30 ON 6/6/2019****	

Operation Summary #2	
PERSONNEL: J. BIRDWELL (XTO DRILLING CONSULTANT) CONDUCTED TOURLY SAFETY MEETINGS W/RIG CREWS.	
REGULATORY: TRRC:INTENT TO RUN 5-1/2" PRODUCTION CSG & CEMENT,SPOKE / MICHELLE, W/COMM @ 09:40 HR 6/3/2019, JOB #:179208	
SURVEY: 7,234' INC:1.2° - AZM: N/A°	
MUD: WT:10.1 VIS:29 PH:10	
GEOLOGY: UPPER CLEARFORK	
VISITORS: DANNY WAY & BRAD McKNIGHT (XTO SAFETY CONSULTANT)ON LOCATION TO CHECK ON RIG	
RIG CREWS: DAYS: 4 NIGHTS: 5	
SAFETY: NO INCIDENTS NO ACCIDENTS	
**DAYS SINCE LAST LTA:512 RECORDABLE:512 INJURY:9 SPILL:96	

Avg Background Gas (%)	Avg Connection Gas (%)	Avg Trip Gas (%)	Max Drill Gas (%)

Activity Last 24 Hours									
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Mjr Ops Code	Phase	Phase	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #
06:00	10:30	4.50	4.50	RC	Run and Cement Production Csg	Casing & Cement, Run and Cement Production Csg	7,278.0	7,278.0	
FINISH RUNNING 5-1/2" 17# L-80 CASING AS FOLLOWS: 1-FLOAT SHOE. 1.32' (TOP @ 7,276.7') 1-SHOE JOINT. 40.58 1-FLOAT COLLAR. 1.21' (TOP @ 7,234.9') 42-CASING JOINTS. 1,724.33' 1-MARKER JOINT. 20.64' (TOP @ 5,489.9') 134- CASING JOINTS. 5,494.01'. RAN A TOTAL OF 178 JTS. TOTAL STRING LENGTH. 7,282.09' SET @ 7,278' WASHED DOWN JT# 178 TO BOTTOM DRESSED W/ WEATHERFORD FLOAT EQUIPMENT, THREAD LOCKED FS, SJ, FC. TORQUED CSG TO OPT. 3,410 FT/LB. PLACED 58 CENTRALIZERS AS PER PROGRAM.									
10:30	11:30	1.00	5.50	RS	Run and Cement Production Csg	Casing & Cement, Run and Cement Production Csg	7,278.0	7,278.0	
CIRCULATE CASING ON BOTTOM R/D BULL ROGERS CASING CREW									
11:30	12:30	1.00	6.50	RS	Run and Cement Production Csg	Casing & Cement, Run and Cement Production Csg	7,278.0	7,278.0	
SPOT CEMENT TRUCKS HOLD PJSM W/B.J SERVICES R/U CEMENT PUMP TRUCKS & BULK TRUCKS									



XTO Daily Drilling Report

Well Name: Fcu 7532

Date: 6/6/2019

Report #: 12.0

DFS: 8.22

DFS(TL): 8.22

Activity Last 24 Hours

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Mjr Ops Code	Phase	Phase	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #	Com
12:30	15:30	3.00	9.50	CM	Run and Cement Production Csg	Casing & Cement, Run and Cement Production Csg	7,278.0	7,278.0		<p>PJSM RIG UP CEMENT HEAD AND CEMENT PUMPED AS FOLLOWS:</p> <p>TEST LINES TO 4,000 PSIG, PUMP 40 BBL FRESH WATER SPACER</p> <p>LEAD CEMENT: 673 SX CLASS "C" CEMENT 50/50 POZ/C CONTAINING 5% SALT + 0.10% A-2 + 0.20% FL -52 + 0.25LB/SK CELLO FLAKE + 2.5LB/SK KOL-SEAL MIXED @ DENISTY:11.5 PPG, YIELD: 2.39 CU.FT/SK, WATER:13.94 GAL/SK, TOTAL: 286 BBLS/SLURRY = 1,608 CU/FT PUMPED @ 5. BBL/MIN, W/500 PSIG.</p> <p>TAIL CEMENT: 1,081 SX CLASS "C" CEMENT 50/50 POZ/C CONTAINING 3% SALT + 0,15% A-2 + 0.35% CD-32 + 0.30% FL-52 + 0.10% R-21 MIXED @ DENSITY:14.2 PPG, YIELD:1.1 CU.FT/SK, WATER: 5.18 GAL/SK, TOTAL: 219 BBLS/SLURRY = 1,189 CU/FT, PUMPED @ 4.5. BBL/MIN, W/200 PSIG</p> <p>RELEASE PLUG & DISPLACE WITH 168 BBLS OF 8.4 PPG FW PUMPED @ 7 BBL/MIN, W/700 - 2050 PSIG, BUMP PLUG @ 3 BBL/MIN BUMP 510 PSIG OVER TO FINAL BUMP F/2560 PSIG, @ 14:50: HRS 6/6/2019, RELEASE PRESSURE BLEED BACK 1.5 BBL TO TANKS, FLOAT HELD,</p> <p>CIRCULATED: 88 BBLS/206 SX TO SURFACE.</p> <p>RIG DOWN CEMENTERS</p>
15:30	18:00	2.50	12.00	NU	Run and Cement Production Csg	Casing & Cement, Run and Cement Production Csg	7,278.0	7,278.0		WELL IS STATIC, NIPPLE DOWN & HANG BOP SET SLIPS W/100K TENSION, CUT OFF CASING
18:00	21:30	3.50	15.50	NU	Run and Cement Production Csg	Casing & Cement, Run and Cement Production Csg	7,278.0	7,278.0		<p>NIPPLE DOWN & LAY DOWN BOP. DRESS OFF CASING. INSTALL TUBING HEAD & TEST FLANGE TO 5,000 PSI & TEST NECK SEAL TO 6,800 PSI (OK)</p> <p>****RIG RELEASED @ 21:30 ON 6/6/2019****</p>

Cum Daily Cost Summary

Cost Des	Rpt Fld Est (Cost)	Cum Fld Est (Cost)
EX,V,GD,PART_WELLCASING,PRODUCTION LINER	80,797.92	80,797.92
Ex,V,Rnt&Lse,Op,Eq,DrillEqp,ExMobili&Demob,MIRU	2,046.50	2,046.50
EX,V,RNT&LSE,OP,EQ,DRILLEQP,EXMOBILI&DEMOB,MIRU	7,912.00	203,378.66
Ex,V,Rnt&Lse,Op,Eq,Misc_Oth,RentSurfWithOper	50.00	500.00
EX,V,RNT&LSE,OP,EQ,MISC_OTH,RENTSURFWITHOPER	710.00	7,287.00
EX,V,SERV,ENG_O&GWELLDRILL	1,034.00	18,100.66
Ex,V,Srv,O&GWell,Casing,Production	6,952.80	6,952.80
EX,V,SRV,O&GWELL,CEMENTING,PRODUCTION CASING	33,145.80	34,846.82

Mud Pumps

Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)
Pump 1	Bomco	F-1000	5 1/2	10.00	0.070
Pump 2	Bomco	F-1000	5 1/2	10.00	0.070

Supplies & Fuel Daily Amt

Supply Item Des	Unit Label	Received	Consumed	Cum Consumed	Cum On Loc
Brine	bbl	0.0	0.0	0.0	2,200.0
Diesel Fuel - Rig	gal	0.0	211.0	3,541.0	1,108.0
Well Water	bbl	0.0	750.0	1,195.0	2,405.0