



Safety Checks		
Date	Type	Com
5/27/2018	Safety Meeting	SPOTTING EQUIPMENT & RIGGING UP
5/27/2018	Safety Meeting	RIG CREWS & TRUCKS PRIOR TO RIG MOVE



Activity Last 24 Hours

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Mjr Ops Code	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #	Com
22:00	22:45	0.75	16.75	RS	1,746.0	1,746.0		PJSM W/SMITH CASING & RIG UP CASING CREW
22:45	01:15	2.50	19.25	RC	1,746.0	1,746.0		RUN 8-5/8" SURFACE CASING AS FOLLOWS: 1 - 8 5/8" GUIDE SHOE (0.82'), 1 - JOINT 8 5/8" 24 lb/ft J-55 STC (41.63'), 1 - 8 5/8" FLOAT COLLAR (1.40'), 41 - JOINTS 8 5/8" 24 lb/ft J-55 STC (1,705.65'), RAN A TOTAL OF 42 JOINTS 1,749.48'. SET @ 1,746'. TOP OF GUIDE SHOE @ 1,745.2' & TOP OF FLOAT COLLAR @ 1,702.2', DRESSED WITH WEATHERFORD FLOAT EQUIPMENT AND CENTRALIZERS, THREAD LOCKED GS, SJ, FC, & 2ND JOINT, TORQUE CASING TO OPTIMAL TORQUE 2,440 FT/LB, PLACE 11 CENTRALIZERS AS PER PROGRAM. WASHED JOINTS 41 & 42 TO BOTTOM
01:15	01:45	0.50	19.75	RS	1,746.0	1,746.0		CIRCULATE CASING ON BOTTOM R/D SMITH CASING CREW
01:45	04:45	3.00	22.75	CM	1,746.0	1,746.0		PJSM, RIG UP B.J. CEMENT EQUIPMENT,CEMENT 8-5/8 CASING AS FOLLOWS, TEST LINES TO 3,000 PSIG, PUMP 40 BBLS/ FW SPACER AHEAD OF 411 SX LEAD CLASS "C" CEMENT MIXED @ (DENSITY 12.50 PPG, YIELD 2.207 CU.FT/SK, WATER 12.61 GAL/SK TOTAL 162 BBLS/SLURRY= 907 CU/FT) PUMPED @ 5 BBL/MIN, @ 200 PSIG, FOLLOWED BY 195 SX TAIL CLASS "C" CEMENT MIXED @ (DENSITY 14.80 PPG, YIELD 1.326 CU.FT/SK, WATER 6.327 GAL/SK, TOTAL 46 BBLS/SLURRY = 258 CU/FT), PUMPED @ 3 BBL/MIN, @ 140 PSIG. RELEASE PLUG & DISPLACE W/108 BBLS OF 8.4 PPG FW @ 6 BBLS/MIN, @ 620 PSIG, BUMP PLUG 540 PSIG OVER @ 3 BBLS/MIN TO FINAL BUMP 1160 PSIG @ 04:07 HRS. 5/29/2018. RELEASE PRESSURE BLEED BACK 0.5 BBL TO TANK. FLOAT HELD, FULL RETURNS ENTIRE JOB, CIRCULATED 68 BBLS = 172 SX OF CEMENT TO SURFACE. RD B.J. EQUIPMENT
04:45	06:00	1.25	24.00	NC	1,746.0	1,746.0		PJSM, CUT OFF CONDUCTOR PIPE AND 8-5/8" CASING, WELD ON 11" 3M x 8 5/8" SOW GE CASING HEAD.



Safety Checks

Date	Type	Com
5/28/2018	Safety Meeting	RUNNING SURFACE CASING
5/28/2018	JSA Prepared/Reviewed	LAYING DOWN COLLARS & BHA
5/28/2018	JSA Prepared/Reviewed	TRIPPING OUT HOLE
5/28/2018	JSA Prepared/Reviewed	MAKING CONNECTIONS WITH TONGS
5/28/2018	JSA Prepared/Reviewed	PICKING UP BIT & BHA



XTO Daily Drilling ReportOLD

Well Name: Fcu 7224

Date: 5/30/2018
Report #: 3.0
DFS: 1.94
DFS(TL): 1.94

Field Name: Fullerton	End Depth (ftKB): 3,063.0	AFE Number: DD.2017.04558
State/Province: Texas	Footage (ftKB): 1,317.00	Activity: DRILLING PRODUCTION HOLE F/3,063'
County: Andrews	Drilling Hours (hr): 11.00	Cum Percent Problem Time (%): 0.00
Rig (Names): Basic 37	Avg ROP (ft/hr): 119.7	Last Casing String: Surface, 1,746.0ftKB

Daily Contacts
DSM, Gordon Smith, 432-770-9681; Consultant, Bob Johnson, ; Drilling Engineer, Chase Graves, 432-214-0268; Drlg Superintendent, Milton Turman, 817-524-5107

Spud Date	RR Date	Gr Elev (ft)	KB-Grd (ft)	Target Frm	Prop TD (MD) (ftKB)
5/28/2018 07:30	6/2/2018 17:00	3,311.00	13.00	Wichita-Albany	7,325.0

Mud Checks

[illegible]

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	7 7/8	Cap Rock	CR616-SRK	40795	—	1,746.0	7,344.0	5,598.00	50.50	110.9	7-0-RO-C-X-0-BT-TD

BHA Information for BHA#: 2

BHA #	Drill String Name
2	Pendulum

Drilling Parameters and Hydraulics

Nozzles (1/32")	TFA (in ²)	Q Flow (gpm)	SPP (psi)	WOB (lb)	RPM	Drilling Torque	PU Str Wt (lb)	Drill Str Wt (lb)	SO Str Wt (lb)
20/20/20/20/20/20	1.84	576	2,720.0	25	70		90	84	80

Bit HP (hp)	Bit HPSI (hp/in ²)	Bit Jet Velocity (ft/s)	Bit PSI Drop (psi)	Min AV (ft/min)	Max AV (ft/min)
30.7	0.6	100.4	91.3	59.9	3,193,781,689.5

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	Kelly Joint	4 1/2	3.826	22.00	7,344.54
211	Drill Pipe	4 1/2	3.826	6,667.21	7,322.54
20	Drill Collar	6 1/4	2.250	595.29	655.33
1	Stabilizer	7 7/8	2.250	5.06	60.04
1	Drill Collar - Pony	6 1/4	2.500	14.34	54.98
1	Teledrift	6 1/2	2.500	8.63	40.64
1	Stabilizer	7 7/8	2.500	6.06	32.01
1	Mud Motor	6 1/2	2.500	24.95	25.95

Supplies & Fuel Daily Amt

Supply Item Des	Unit Label	Received	Consumed	Cum Consumed	Cum On Loc
Brine	bbl	0.0	0.0	0.0	3,130.0
Diesel Fuel - Rig	gal	1,450.0		767.0	3,642.0
Diesel Fuel - Rig	gal		875.0	1,642.0	2,767.0
Well Water	bbl		50.0	450.0	1,606.0

Mud Motors

Make	Model	OD (in)	Serial Number	Deflection Type	Defln	Circ Tim...	Drill Tim...
Crescent	6 1/2" 7/8 5.0	6 1/2	CD675-063	Fixed	0.0	1.25	50.50
Comment 0.28 Rev/ Gallon (CRESCENT MTR)							

Survey Information

Date	Description	MD Tie...	Inclinati...	Azimuth Tie In (°)	TVDTie In (ftKB)	NSTie In (ft)	EW Tie In (ft)
5/27/2018	MWD	0.00	0.0	0.0	0.00	0.00	0.00
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)
2,136.00	1.10	0.00	2,135.85	24.50	0.00	24.50	0.16
2,325.00	1.20	0.00	2,324.81	28.30	0.00	28.30	0.05
2,515.00	1.60	0.00	2,514.75	32.94	0.00	32.94	0.21
2,704.00	1.60	0.00	2,703.68	38.21	0.00	38.21	0.00
2,894.00	1.80	0.00	2,893.60	43.85	0.00	43.85	0.11

Interval Problems

Event #	Start Date	End Date	SubType	Name	Com

Daily Operations Summary and Mud Gas

Operation Summary #1
CUT CONDUCTOR PIPE & CASING. WELD ON AND TEST WELL HEAD. NIPPLE UP AND TEST BOP & CASING. PICK UP 7-7/8" BIT & PRODUCTION BHA. TIH. DISPLACE HOLE TO 10# BRINE. TEST PIPE RAMS & ANNULAR. INSTALL ROTATING HEAD. DRILL CEMENT & FLOAT EQUIPMENT. DRILL PRODUCTION HOLE F/1,746'-2,557'. SERVICE RIG. ROTATE DRILL F/2,557'-3,063' LAST SURVEY @ 2,894' INC:1.8

Operation Summary #2
A.G. SMITH (XTO CONSULTANT), & RIG CREW CONDUCTED SAFETY MEETINGS.
NO REPORTED INCIDENTS OR INJURIES
JORDAN BURAS (XTO ENGINEERING INTERN) ON LOCATION TO OBSERVE.

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	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #	Com
06:00	08:00	2.00	2.00	NC	1,746.0	1,746.0		WELD ON & TEST WELL HEAD TO 1,000PSIG (TESTS GOOD)
08:00	11:15	3.25	5.25	NU	1,746.0	1,746.0		N/U SHAFFER 11" 5M DOUBLE RAM BOP, ANNULAR, ROTATING HEAD & 3 1/8" 5M x 2 1/16" 5M CHOKE MANIFOLD, KILL LINES & FLOW LINES. FUNCTION TEST BOP
11:15	12:00	0.75	6.00	TB	1,746.0	1,746.0		PUMP THROUGH BOP & CHOKE MANIFOLD, TEST W/RIG PUMP: TEST BLIND RAMS, 3" MANUAL VALVE, UPPER KELLY VALVE, AND CHOKE MANIFOLD LOW: 250PSIG AND HIGH: 1500PSIG. TEST EACH FOR 5 MINUTES. ****TESTS GOOD****
12:00	12:30	0.50	6.50	TC	1,746.0	1,746.0		TEST CASING TO 1000PSIG AND HOLD FOR 30 MINUTES PER TRRC. ****TESTS GOOD****
12:30	14:15	1.75	8.25	BH	1,746.0	1,746.0		PICK UP CRESCENT MOTOR, 7-7/8" REAMERS, SHORT DRILL COLLAR & INCLINATION TOOL
14:15	15:45	1.50	9.75	TR	1,746.0	1,746.0		TRIP IN HOLE W/BIT #2 7-7/8" CAPROCK CR616SRK SERIAL NUMBER: 40795
15:45	16:15	0.50	10.25	CA	1,746.0	1,746.0		PICK UP KELLY DISPLACE HOLE W/10# BRINE



Activity Last 24 Hours

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Mjr Ops Code	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #	Com
16:15	17:15	1.00	11.25	TB	1,746.0	1,746.0		TEST PIPE RAMS & ANNULAR TO LOW:250PSIG HIGH:1500PSIG ****TESTS GOOD****
17:15	17:45	0.50	11.75	CR	1,746.0	1,746.0		INSTALL ROTATING HEAD & ALIGN BOP'S
17:45	18:30	0.75	12.50	DC	1,746.0	1,746.0		DRILL PLUG, CEMENT & CASING EQUIPMENT. ****TAGGED CEMENT @ 1,698"**** WOB:5-10K, RPM:60, MOTOR RPM:96, TOT. RPM:159 GPM:355, SPP:830.
18:30	01:00	6.50	19.00	DR	1,746.0	2,557.0		ROTATE DRILL F/1,746'-2,557' FTG MADE:811' AVG. ROP:124FT/HR WOB:20 RPM:75 MOTOR RPM:161 TOT. RPM:236 GPM:576 SPP:2540.
01:00	01:30	0.50	19.50	SR	2,557.0	2,557.0		SERVICE RIG
01:30	06:00	4.50	24.00	DR	2,557.0	3,063.0		ROTATE DRILL F/2,557'-3,063' FTG MADE:506' AVG. ROP:112'FT/HR WOB:25 RPM:70 MOTOR RPM:161 TOT. RPM:231 GPM:576 SPP:2720.

Safety Checks

Date	Type	Com
5/29/2018	Safety Meeting	HOT WEATHER CONDITIONS & HYDRATION
5/29/2018	JSA Prepared/Reviewed	MAKING CONNECTIONS
5/29/2018	JSA Prepared/Reviewed	TRIPPING IN HOLE.
5/29/2018	Safety Meeting	HOT WEATHER CONDITIONS & HYDRATION
5/29/2018	JSA Prepared/Reviewed	PICKING UP & NIPPLING UP BOP'S



XTO Daily Drilling ReportOLD

Well Name: Fcu 7224

Date: 5/31/2018

Report #: 4.0

DFS: 2.94

DFS(TL): 2.94

Field Name: Fullerton
State/Province: Texas
County: Andrews

End Depth (ftKB): 5,623.0
Footage (ftKB): 2,560.00
Drilling Hours (hr): 23.50
Avg ROP (ft/hr): 108.9

AFE Number: DD.2017.04558
Activity: DRILLING PRODUCTION HOLE F/5,623'
Cum Percent Problem Time (%): 0.00
Last Casing String: Surface, 1,746.0ftKB

Daily Contacts
 DSM, Gordon Smith, 432-770-9681; Consultant, Bob Johnson, ; Drilling Engineer, Chase Graves, 432-214-0268; Drlg Superintendent, Milton Turman, 817-524-5107

Spud Date	RR Date	Gr Elev (ft)	KB-Grd (ft)	Target Frm	Prop TD (MD) (ftKB)
5/28/2018 07:30	6/2/2018 17:00	3,311.00	13.00	Wichita-Albany	7,325.0

Mud Checks

[illegible]

Bit Run Information

Bit Run	Size (in)	Make	Model	SN	IADC Codes	Depth In (ft)KB	Depth Out (ft)KB	Drilled (ft)	Drill Time (hr)	BHA ROP (ft/hr)	Bit Dull
1	7 7/8	Cap Rock	CR616-SRK	40795	—	1,746.0	7,344.0	5,598.00	50.50	110.9	7-0-RO-C-X-0-BT-TD

BHA Information for BHA#: 2

BHA #	Drill String Name
2	Pendulum

Drilling Parameters and Hydraulics

Nozzles (1/32")		TFA (in ²)	Q Flow (gpm)	SPP (psi)	WOB (lbf)	RPM	Drilling Torque	PU Str Wt (lb)	Drill Str Wt (lb)	SO Str Wt (lb)
20/20/20/20/20		1.84	529	2,960.0	28	70		124	120	116
Bit HP (hp)	Bit HPSI (hp/in ²)	Bit Jet Velocity (ft/s)	Bit PSI	Drop (psi)	Min AV (ft/min)	Max AV (ft/min)				
66.5		1.4	92.2		215.6	55.0	2,933,177,975.3			

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)
1	Kelly Joint	4 1/2	3.826	22.00	7,344.54
211	Drill Pipe	4 1/2	3.826	6,667.21	7,322.54
20	Drill Collar	6 1/4	2.250	595.29	655.33
1	Stabilizer	7 7/8	2.250	5.06	60.04
1	Drill Collar - Pony	6 1/4	2.500	14.34	54.98
1	Teledrift	6 1/2	2.500	8.63	40.64
1	Stabilizer	7 7/8	2.500	6.06	32.01
1	Mud Motor	6 1/2	2.500	24.95	25.95

Supplies & Fuel Daily Amt

Supply Item Des	Unit Label	Received	Consumed	Cum Consumed	Cum On Loc
Brine	bbl	0.0	0.0	0.0	3,130.0
Diesel Fuel - Rig	gal		1,448.0	3,090.0	1,319.0
Well Water	bbl		20.0	470.0	1,586.0

Mud Motors

Make	Model	OD (in)	Serial Number	Deflection Type	Defln	Circ Tim...	Drill Tim...
Crescent	6 1/2" 7/8 5.0	6 1/2	CD675-063	Fixed	0.0	1.25	50.50

Comment
0.28 Rev/ Gallon (CRESCENT MTR)

Survey Information

Date	Description	MD Tie...	Inclinati...	Azimuth Tie In (°)	TVDTie In (ftKB)	NS Tie In (ft)	EW Tie In (ft)
5/27/2018	MWD	0.00	0.0	0.0	0.00	0.00	0.00
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)
3,557.00	2.30	0.00	3,556.16	67.90	0.00	67.90	0.06
4,031.00	2.20	0.00	4,029.79	86.50	0.00	86.50	0.02
4,506.00	2.50	0.00	4,504.39	105.98	0.00	105.98	0.06
4,980.00	2.60	0.00	4,977.92	127.07	0.00	127.07	0.02
5,455.00	2.40	0.00	5,452.47	147.79	0.00	147.79	0.04

Interval Problems

Event #	Start Date	End Date	SubType	Name	Com

Daily Operations Summary and Mud Gas

Operation Summary #1
ROTATE DRILLING F/3.063'-4.137'. SERVICE RIG. ROTATE DRILLING F/4.137'-5.623' LAST SURVEY @ 5.455' INC:2.4

Operation Summary #2

A.G. SMITH (XTO CONSULTANT), & RIG CREWS CONDUCTED SAFETY MEETINGS. NO REPORTED INCIDENTS OR INJURIES

JORDAN BURAS (XTO ENGINEERING INTERN) ON LOCATION TO OBSERVE.

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	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #	Com
06:00	16:00	10.00	10.00	DR	3,063.0	4,137.0		ROTATE DRILL F/3,063'-4,137' FTG MADE:1,074' AVG. ROP:108'FT/HR WOB:28 RPM:70 MOTOR RPM:156 TOT. RPM:226 GPM:552 SPP:2957.
16:00	16:30	0.50	10.50	SR	4,137.0	4,137.0		SERVICE RIG
16:30	06:00	13.50	24.00	DR	4,137.0	5,623.0		ROTATE DRILL F/4,137'-5,623' FTG MADE:1,486' AVG. ROP:110'FT/HR WOB:28 RPM:70 MOTOR RPM:148 TOT. RPM:218 GPM:529 SPP:2960.

Safety Checks

Date	Type	Com
5/30/2018	JSA Prepared/Reviewed	PICKING UP PIPE W/WINCH LINE
5/30/2018	JSA Prepared/Reviewed	FORKLIFT OPERATIONS
5/30/2018	JSA Prepared/Reviewed	FORKLIFT OPERATIONS
5/30/2018	JSA Prepared/Reviewed	MAKING CONNECTIONS



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Safety Checks

Date	Type	Com
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5/31/2018	JSA Prepared/Reviewed	SLIPS TRIPS AND FALLS
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Activity Last 24 Hours

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Mjr Ops Code	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #	Com
19:30	23:45	4.25	17.75	LO	7,344.0	7,344.0		LOGGED IN HOLE W/SPECTRAL DENSITY, DUAL LATEROLOG, DUAL SPACED NEUTRON, GAMMA RAY. 8 5/8" CSG SHOE LOCATED @ 1,746"WLM. WIRELINE TD @ 7,347' LM.
23:45	00:45	1.00	18.75	RS	7,344.0	7,344.0		R/D SCHLUMBERGER LOGGERS
00:45	02:15	1.50	20.25	RS	7,344.0	7,344.0		PJSM W/SMITH CASING CREW R/U CASING CREW. CHANGE OUT POWER TONG UNIT
02:15	03:00	0.75	21.00	RC	7,344.0	7,344.0		RUN 5-1/2" J-55 17# LTC AS FOLLOWS: 1- 5-1/2" FLOAT SHOE (1.31'), 1- JNT 5-1/2" J-55 17# LTC (42.12'), 1- 5-1/2" FLOAT COLLAR (1.21'), 41JNTS 5-1/2" J-55 17# LTC (1766.64'), 1- MARKER JT 5-1/2" J-55 17# LTC (20.83'), 131JNTS 5-1/2" J-55 17# LTC (5514.64'), RAN A TOTAL OF 174 JNTS,(7,346.75' Set @ 7,344'), DRESSED W/ WEATHERFORD FLOAT EQUIPMENT, FLOAT SHOE @ 7,342.7', FLOAT COLLAR @ 7,299.4', MARKER JNT @ 5,511.9', THREAD LOCKED FS, SJ, FC. TORQUED CSG TO OPT. 2,470 FT/LB. PLACED 46 CENTRALIZERS AS PER PROGRAM.
03:00	04:00	1.00	22.00	RR	7,344.0	7,344.0	2	LOST RIG LIGHTS SHUT DOWN TO REPAIR
04:00	06:00	2.00	24.00	RC	7,344.0	7,344.0		CONTINUE RUNNING 5-1/2" CASING

Safety Checks

Date	Type	Com
6/2/2018	Safety Meeting	RIG UP & RUN CASING
6/1/2018	Safety Meeting	RIG UP & RUN WIRELINE LOGS
6/1/2018	BOP Drill	LAYING DOWN BHA

		XTO Daily Drilling ReportOLD					Date: 6/2/2018	
		Well Name: Fcu 7224					Report #: 7.0	
							DFS: 5.40	
							DFS(TL): 5.40	
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Activity Last 24 Hours

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Mjr Ops Code	Start Depth (ftKB)	End Depth (ftKB)	Prob Ref #	Com
16:00	17:00	1.00	11.00	NC	7,344.0	7,344.0		DRESS OFF CASING INSTALL TUBING HEAD & TEST TO 3000PSI ****RIG RELEASED @ 17:00HRS ON 6/2/2018****

Safety Checks

Date	Type	Com
6/2/2018	JSA Prepared/Reviewed	NIPPLE DOWN & LAY DOWN BOP'S
6/2/2018	Safety Meeting	RIG UP & PUMP CEMENT