



Weatherford

Weatherford Completion Systems

LONGMONT

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Company:	BILL BARRETT		Casing	Liner	Open Hole
Well Name:	ANSCHUTZ EQUUS FARMS 3-62-4-2532XCXN	Size:	7	4 1/2	6 1/8
Rig:	SAVANNA 802	Weight:	23.0	11.6	
Cement Company:	O-tex	Grade:	CP-80	P-110	
State:	COLORADO	Thread:	LTC	LTC	
Date:	12/8/2017	Depth:	6,648	16,365	16,367

Max Deviation (Deg):	91.91	Mud Weight (lbs/gal):	9.10
Deviation @ TD:	91.91	Mud Type:	Water based Mud
Deviation @ TOL:	1	Mud Visc (cP):	29.00
Bottom Hole Temp (OF):	160		

Description	Depth of Top	Length	OD	ID
Single Valve Float Shoe	16,363.49	1.51	5.000	1.688
Double Valve Float Collar	16,361.58	1.91	5.020	1.688
4.5" 11.6# HC P-110 LTC Joint	16,315.63	45.95	4.500	4.000
PLB Landing Collar (7 Pin)	16,313.97	1.66	5.000	1.375
4.5" 11.6# P-110 LTC Pup Joint	16,311.81	2.16	4.500	4.000
Gen II Wet Shoe Sub (8 Pin)	16,306.89	4.92	5.350	4.750
4.5" 11.6# P-110 LTC Pup Joint	16,302.23	4.66	4.500	4.000
238 joints 4.5" 11.6# HC P-110 LTC	5,826.80	10,475.43	4.500	4.000
5" VAM TOP HT x 4 1/2" LTC XO	5,826.06	0.74	5.570	4.000
WFT CTH Hyd Set Liner Hanger	5,820.76	5.30	5.932	4.312
WFT TSP Liner Top Packer	5,817.34	3.42	5.932	4.375
WFT PBR/Tieback Sleeve (TOL)	5,801.00	16.34	5.810	5.250

Liner Setting Results

	Ball Seat Depth: 16314	Ball Seat Shear (psi):	3450
Pressure to Set Hanger (psi):	2200	Rounds to Set Hanger:	0
Pressure to Release Tool (psi):	NA	Rounds to Release Tool:	14
Pick up to check liner weight Loss (ft):	2	RH or LH Set:	RH
Total Weight Loss (lbs):	40000	Hanger Set (Y/N):	YES

Mud/Hole Conditioning

Mud circulated after liner on bottom:	4	bpm @	1,050	psi for	2.0	hrs
Before setting hanger:	4	bpm @	1,000	psi	1.0	
After setting hanger:	4	bpm @	1,300	psi	0.3	

Cementing / Displacement

Lead Spacer (bbls):	10	Weight (lb/gal):	8.3	Fluid Type:	water	Start:	
Tail Spacer (bbls):	30	Weight (lb/gal):	11	Fluid Type:	spacer	Finish:	
Lead cement (sks):	760	Weight (lb/gal):	13.5	at Yld.>	1.68	bbls:	215
Tail cement (sks):		Weight (lb/gal):		at Yld.>		bbls:	
Volume to Latch LWP (Calculated):	38.8	bbls	Liner Disp (Calculated):	163	bbls		
Volume to Latch LWP (Actual):	37	bbls	Liner Disp (Actual):	157.5	bbls		
Plug Sheared:	2950	psi	Liner Top Packer				
Bumped @:	3600	psi	Weight to Set Packer (lbs):	55,000.00	Rotated:	yes	
Wet Shoe Shear:	3650	psi	1st Shear:	35,000.00	2nd Shear:	35000.00	
Floats Held:	yes		Tested (psi):	2,000	Held For:	5	min