MERIT ENERGY COMPANY

Shoshone 65-38

Plug and Abandonment Procedure **Revised 3/28/2022**

Well Information

Field: Circle Ridge
County: Fremont County, Wyoming
Legal: 0' FNL & 0' FEL Section 36 T7N R3W
Lat/Long: 43.5354, -109.05777
API #: 4901306845

Ground level elevation	7,229'	**KB Elevation:**	7,238'
TD:	4,030'	**PBTD:**	1,192'
Surface Casing:	13-3/8" 48.0 #/ft @ 154'		
Surface Casing Cement:	100 sx		
Surface Casing TOC:	Surface	**Source:**	Drilling Report
Production Casing;	5-1/2" 14.0, 15.5, & 17.0 #/ft @ 1,217'		
Production Casing Cement	100 sx		
Production Casing TOC	715' Surface (Remedial Job)	**Source:**	Calculation Workover Rpt (05/2015)
Production Tubing	2-7/8" 6.5 #/ft tubing and packer		
Open perforations	Embar: 882' – 1,152'		
Well Status	Shut In Injector		

Note: All cement pumped for this procedure will be 15.8 ppg Class G neat cement with a yield of 1.16 cu. Ft/sk and .3% by weight dispersant added.

Plugging Procedure

1. MIRU, pull all tubing, packers, rods, and pumps out of hole.
2. Run Bit and Scraper to PBTD.
3. Set CICR 50' above the top perforation @ 832'.
4. Pump 1.5x wellbore volume (60 sx) of cement below CICR.
5. Sting out of CICR, pump 25 sx on top of retainer (TOC = 620').
6. ~~WOC 24 hours.~~ **This step has been deemed to be not necessary and is removed**
7. Pressure test production casing to a minimum of 500 psi for 10 minutes.
8. RIH with 2 3/8" 4.9#/ft tubing to 200' below surface.
9. Pump balance plug from 200' to surface inside production casing.
10. WOC 24 hours. If cement level has fallen top off production casing with cement back to surface utilizing 1" poly hose.
11. Cut casing 3' below grade and weld on dry hole plate w/ legal ID. Remove rig anchors.

MERIT ENERGY COMPANY

Field: Circle Ridge
Total Depth
Location: Section 36, T7N, R3W

Well: Shoshone 65 38

Status: SHUT-IN
County, State: FREMONT, WYOMING
API: 490130684500

CPF: Circle Ridge
Spud Date: 1/1/1900
Ground Elevation: 7,229.00
KB Elevation: 7,238.00
On Production Date: 8/22/1954

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MD (ftKB)	Vertical schematic (actual)
0.0	Chugwater; 0.0-724.0; 724.00
8.9	Des:Surface Casing Cement; Depth MD:9.0-154.0 ftKB; Date:5/19/1954; Com:Cmt 13-3/8" csg w/100 sxs to surf. Press. up to 500 psi.; Top MD:9.0 ftKB; Btm MD:154.0 ftKB
60.0	13 3/8; 9.0-154.0
153.9	Des:Remedial Cement Squeeze; Depth MD:60.0-193.0 ftKB; Date:6/3/2015; Com:Pressure tested surface lines to 1370 psi. Held solid. Pumped 10 bbls of water and wellhead leaked twice. Found debris in the threads. Tested good afterwards. Pumped 130 sacks neat class "G" at 0.7 to 0.9 BPM and 130 psi. Wellhead was bubbling. Pumped 70 sacks of 2% class "G" with CaCl2 at 1.2 BPM and ~300 psi. Cement started coming out of the surface casing. Pumped 2.5 bbls of water as displacement. SIP was 145 psi. Good cement continuedd to flow out of the wellhead. Estimate that 3-4 bbls flowed out over 20 minutes.; Top MD:60.0 ftKB; Btm MD:193.0 ftKB
160.1	
192.9	
334.0	3-1; Tubing; 2 3/8; 2.00; 0.0-747.9; 747.88
714.9	5 1/2; 9.0-1,000.0; 8 rd SLS
724.1	Dinwoody; 724.0-890.0; 166.00
748.0	3-2; Pump Seating Nipple; 2 3/8; 747.9-751.5; 3.58
751.3	3-3; Packer AD-1 Set w/ 20 K; 2 3/8; 751.5-752.6; 1.10
752.6	
881.9	PERFORATED; 882.0-895.0; 8/20/1954
890.1	Embar; 890.0-1,177.0; 287.00
895.0	
902.9	PERFORATED; 903.0-915.0; 8/20/1954
915.0	
921.9	
936.0	PERFORATED; 922.0-944.0; 9/16/1985
941.9	PERFORATED; 936.0-942.0; 8/20/1954
943.9	
967.8	Des:Production Casing Cement; Depth MD:715.0-1,217.0 ftKB; Date:8/17/1954; Com:100 sacks from 1217' to 715' by calculation.; Top MD:715.0 ftKB; Btm MD:1,217.0 ftKB
978.0	PERFORATED; 968.0-978.0; 8/19/1954
1,000.0	
1,038.1	PERFORATED; 1,038.0-1,048.0; 8/19/1954
1,047.9	
1,062.0	PERFORATED; 1,062.0-1,074.0; 8/19/1954
1,074.1	5 1/2; 1,000.0-1,173.0; 8 rd SLS
1,116.1	PERFORATED; 1,116.0-1,126.0; 8/19/1954
1,126.0	
1,138.1	PERFORATED; 1,138.0-1,152.0; 8/19/1954
1,151.9	
1,172.9	Tensleep; 1,177.0-1,478.0; 301.00
1,176.8	Des:Production Casing Cement (plug); Depth MD:1,192.0-1,217.0 ftKB; Date:8/17/1954; Com:100 sacks from 1217' to 715' by calculation.; Top MD:1,192.0 ftKB; Btm MD:1,217.0 ftKB
1,191.9	5 1/2; 1,173.0-1,217.0; 10V SLS
1,216.9	
1,450.1	Des:Cement Plug; Depth MD:1,450.0-1,510.0 ftKB; Date:8/17/1954; Com:PB Amsden 1510'-1450' w/20 sxs cmt; Top MD:1,450.0 ftKB; Btm MD:1,510.0 ftKB
1,478.0	Amsden; 1,478.0-2,130.0; 652.00
1,509.8	
2,129.9	Darwin; 2,130.0-2,262.0; 132.00
2,230.0	Des:Cement Plug; Depth MD:2,230.0-2,290.0 ftKB; Date:8/17/1954; Com:PB Madison 2290'-2230' w/20 sxs cmt.; Top MD:2,230.0 ftKB; Btm MD:2,290.0 ftKB
2,262.1	Madison; 2,262.0-3,309.0; 1,047.00
2,290.0	
2,300.9	
2,444.9	Des:Cement Plug; Depth MD:2,445.0-2,685.0 ftKB; Date:8/14/1954; Com:PB 2685'-2445' w/75 sxs reg. cmt. Tag @ 2301' & drilled out to 2445'; Top MD:2,445.0 ftKB; Btm MD:2,685.0 ftKB
2,685.0	
3,279.9	Des:Cement Plug; Depth MD:3,280.0-3,345.0 ftKB; Date:8/14/1954; Com:PB 3345'-3280' w/20 sxs reg. cmt ; Top MD:3,280.0 ftKB; Btm MD:3,345.0 ftKB
3,309.1	Darby; 3,309.0-3,425.0; 116.00
3,345.1	
3,399.9	Des:Cement Plug; Depth MD:3,400.0-3,465.0 ftKB; Date:8/14/1954; Com:PB 3465'-3400' w/20 sxs reg. cmt; Top MD:3,400.0 ftKB; Btm MD:3,465.0 ftKB
3,424.9	Big Horn; 3,425.0-4,030.0; 605.00
3,464.9	
3,790.0	Des:Cement Plug; Depth MD:3,790.0-4,030.0 ftKB; Date:8/14/1954; Com:PB 4030'-3790' w/75 sxs reg. cmt; Top MD:3,790.0 ftKB; Btm MD:4,030.0 ftKB
4,029.9	