MERIT ENERGY COMPANY

Shoshone 65-41

Plug and Abandonment Procedure **Revised 3/29/2022**

Well Information

Field: Circle Ridge
County: Fremont County, Wyoming
Legal: 330' FSL & 2,310' FEL Section 36 T7N R3W
Lat/Long: 43.5336, -109.06064
API #: 4901306839

Ground level elevation	7,195'	**KB Elevation:**	7,204'
TD:	1,706'	**PBTD:**	1,490'
Surface Casing:	None		
Surface Casing Cement:	N/A		
Surface Casing TOC:	N/A	**Source:**	N/A
Production Casing; **Liner:**	5-1/2" 14.0 #/ft, J-55, @ 1,693' 4-1/2" 11.6 #/ft, K-55 @ 1,261'		
Production Casing Cement **Liner Cement**	100 sx Stratalite cement through shoe + 90 sx Regular through 2 stage at 1,267' 55 sx Class G		
Production Casing TOC **Liner TOC**	432' Surface	**Source:**	Calculation Workover Report
Production Tubing	2-7/8" 6.5 #/ft tubing and packer		
Open perforations	Embar: 1,308' – 1,406' Embar: 1,544' – 1,660' (TA'd under permanent bridge plug @ 1,490')		
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 the bottom of the liner @ 1,261'.
3. Set CICR 50' above the the bottom of the liner at 1,211'.
4. Pump 1.5x wellbore volume (35 sx) of cement below CICR.
5. Sting out of CICR, pump 25 sx on top of retainer (TOC = 926').
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. Perforate at 400' thru 4.5" Liner and 5.5" production CSG.
9. Squeeze cement behind 5.5" csg from 400' to surface and then balance cement plug inside 4.5" liner to surface.
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:

Well: Shoshone 65 41

Status: SHUT-IN
County, State: FREMONT, WYOMING
API: 490130683900

CPF: Circle Ridge
Spud Date: 1/1/1900
Ground Elevation: 7,195.00
KB Elevation: 7,206.00
On Production Date: 3/1/1986

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MD (ftKB)	Vertical schematic (actual)
3.9	
11.2	
432.1	1-1; Tubing; 2 3/8; 2.00; 4.0-1,162.0; 1,158.00 4 1/2; 11.0-1,261.0 Des:Production Casing Cement; Depth MD:11.0-1,261.0 ftKB; Date:3/13/1986; Com:55 sxs cement class "G" plus 2% CaCl2. Had 8 bbls cement returns.; Top MD:11.0 ftKB; Btm MD:1,261.0 ftKB
1,162.1	5 1/2; 11.0-1,693.0 Des:Production Casing Cement; Depth MD:432.0-1,706.0 ftKB; Date:11/15/1954; Com:100 sacks of stratolite cement. Opened two stage collar at 1267'. Cemented with 90 sacks of ideal regular cement. Full returns to surface while cementing. Cement top at 432' by calculation.; Top MD:432.0 ftKB; Btm MD:1,706.0 ftKB
1,165.0	1-2; Packer; 2 3/8; 1,162.0-1,165.0; 3.00
1,261.2	
1,308.1	PERFORATED; 1,308.0-1,320.0; 1/28/1986
1,319.9	
1,335.0	PERFORATED; 1,335.0-1,356.0; 1/28/1986
1,356.0	
1,379.9	PERFORATED; 1,380.0-1,406.0; 11/20/1954
1,405.8	
1,490.2	Bridge plug - permanent; 1,490.0-1,492.0
1,492.1	
1,544.0	PERFORATED; 1,544.0-1,549.0; 3/15/1986
1,548.9	
1,585.0	PERFORATED; 1,585.0-1,630.0; 3/15/1986
1,629.9	
1,645.0	PERFORATED; 1,645.0-1,660.0; 3/15/1986
1,660.1	
1,674.9	Des:Production Casing Cement (plug); Depth MD:1,675.0-1,706.0 ftKB; Date:11/15/1954; Com:100 sacks of stratolite cement. Opened two stage collar at 1267'. Cemented with 90 sacks of ideal regular cement. Full returns to surface while cementing. Cement top at 432' by calculation.; Top MD:1,675.0 ftKB; Btm MD:1,706.0 ftKB
1,692.9	
1,706.0	