

Proposed P&A Procedure

Well Name: STATE L 01

API 05-123-09864	Original KB Elevation (ft) 4,863	Ground Elevation (ft) 4,857	Total Depth (ftKB) 6,730.0	Current PBTD (mKB) ORIGINAL HOLE - 6,708.0
Section	Township 8	Range 59	County/Parish WELD	State/Province COLORADO

Casing Strings

Csg Des	MD (ftKB)	Run Date	Prop Run?	Cut/Pull Date	Proposed Cut/Pull?	Depth Cut/Pull (ftKB)	OD (in)	ID (in)	Grade	Len (ft)
Surface	125.0	12/11/1979	No		No		8 5/8	8.02		119.00
Production	6,730.0	12/18/1979	No	8/7/1996	No	815.0	4 1/2	4.05		6,724.00

Tubing Strings

Des	Set Depth (ftKB)	Run Date	Prop Run?	String Location	Pull Date	Prop Pull?	Cut/Pull Date	Proposed Cut/Pull?	Depth Cut/Pull (ftKB)

Perforations

Zone	Type	Date	Prop?	Top (ftKB)	Btm (ftKB)
D SAND, ORIGINAL HOLE	Perforated	2/1/1981	No	6,660.00	6,672.00

Other In Hole

Des	Run Date	Prop Run?	Prop Pull?	Top (ftKB)	Btm (ftKB)
Gravel pack	5/30/2018	No	No	6,650.0	6,708.0

Cement Stages

Des	Type	Prop?	End Date	Top (ftKB)	Btm (ftKB)
Surface Casing Cement	Casing	No	12/11/1979	6.0	125.0
Production Casing Cement	Casing	No	12/18/1979	6,050.0	6,730.0
Balance Plug	Plug	No	8/6/1996	6,520.0	6,650.0

P&A PROCESS

Type Abandon	Sub Type WBI	Start Date 5/30/2018	Engineer Hunter Dunham	Cell Phone 281-253-6272
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PROCESS STEPS

Type	Comment						
2)	Excavate to expose top of surface casing						
3)	Weld 2" collar to top of 8 5/8" surface casing cap. Make up to collar, pneumatic drill with non-sparking bit. Drill out cap venting possible trapped gas.						
4)	Once verified that no gas exists beneath top of surface casing plate, cut off surface casing below plate with torch, dress up smooth.						
5)	Butt weld 8 5/8" casing to dressed cut, bringing threaded end of casing to ground level.						
6)	Make up to 8 5/8" casing, one 8 5/8" collar and 8 5/8" starter well head						
7)	NU flange adaptor and 5K BOP, test BOP.						
8)	NU and RIH with 7 7/8" cone bit, PU 6 1/4" drill collars, 4" workstring, and TIW valve						
9)	Drill out first cement plug inside surface casing (TOC @ surface) tag second plug at 80', roll hole clean.						
10)	Pressure test surface casing to 200 psi. If pressure bleeds off, set RBP and test again. **If test fails, contact office.**						
11)	After pressure test of surface casing, drill out second cement plug from 80' to 150'						
12)	Assume pressure under surface casing shoe, roll hole with kill fluid until well dead, or blow down.						
13)	Drill out third cement plug from 300' to 400'						
14)	Continue RIH, cleaning out with drilling mud or water to top of fish at 815'.						
15)	TOOH with cone bit, drill collars, and workstring						
16)	PU 4-1/2" overshot and 4-1/2" 11.6# casing and RIH to latch on fish.						
17)	Once confirmed fish is engaged, pull on casing to determine free point to cut casing. Cut casing at 3000' and lay down						
18)	RIH mule shoe and 4" workstring to 3000ft and pump 100sx of 15.8ppg Class G neat cement from 3000' to 2750'						
	Interval Start	Interval End	Length (ft)	Vol. Factor (ft^3/ft)	Volume (ft^3)	Yield (ft^3/sk)	Cement (sxs)
	3000	2750	250	0.4418	110	1.15	96
19)	Pull up to 1200' and pump 420sx of 15.8ppg Class G neat cement to surface						
	Interval Start	Interval End	Length (ft)	Vol. Factor (ft^3/ft)	Volume (ft^3)	Yield (ft^3/sk)	Cement (sxs)
	1200	125	1075	0.3382	364	1.15	379
	125	0	125	0.3576	45	1.15	39
							418
20)	POOH with workstring. Wait 4 hrs, and tag TOC. If cement has fallen, top off back to surface						
21)	Let cement set over night, verify cement has not settled and is still at surface. RDMO						
22)	Excavate around wellhead to 8' below grade, cut off 8 5/8" casing, weld on cap						
23)	Backfill hole and reclaim surface to original conditions						