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Geological Report

Peterson Energy Management, Inc.

Fassler 32-28

SW NE - Section 28, T2N, R53W

Washington County, Colorado



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**DRILLING REPORT**

Peterson Energy Management/Newport Exploration

**FASSLER 32-28**

SWNE Section 28-T2N-R53W

Washington County, Colorado

**October 22, 1997**

Building location.

**October 23, 1997 Day #1**

Current Operations: Drilling 7 7/8" hole at 1352'.

Past 24 hours: MIRU Ashby Rig #1. Spud 1600 hrs 10/22/97. Drill 12 1/4" hole to 150'. Set 8 5/8" 24# surface casing at 142'. Cement with 99 sx Regular cement, 3% CCL, 1/4 #/sk flocele. Plug down 1745 hrs 10/22/97. WOC 8 hours. Drill 7 7/8" hole to 1352', 5.5 rotating hours.

**October 24, 1997 Day #2**

Current Operations: Drilling at 4582'

Past 24 hours: Drill 3230', 21.5 rotating hours. Estimate D-sand top this AM.

**October 25, 1997 Day #3**

Current Operations: Circulate at TD. Blizzard conditions. Schlumberger on location.

Past 24 hours: Drill to 4740'. Trip for Bit #2. Pipe strap no correction. Drill to DTD 4975'. Circulate for samples, short trip Niobrara, circulate and condition mud.

**October 26, 1997 Day #4**

Log w/ Schlumberger, LTD 4969', D-sand 4775', J-sand 4858'. TIH, wait on tester. Roads closed due to blizzard.

**October 27, 1997 Day #5**

Run DST #1, D-sand 4778'-4796', 1-10-60-60. Slight blow on initial opening, increased to 3". Final flow opened w/ 1/4", BOB in 8 minutes, 5# at end of final flow. GTS, TSTM, at end of FSI. POOH, recovered 200' SOGCM, 336' SOGCW. Sampler 200 cc oil, 400 cc water. Field readings IH 2406, IF 132-162, ISI 752, FF 132-232, FSI 822, FH 2355. TIH, wait on cementers. Pumped 40 sx at 4820'. Start LDDP. Remainder of plugging to follow on 10/28/97 report.

**October 28, 1997 Day #6**

LDDP, pump 40 sx @ 186', 10 sx @ surface, 5 sx rathole & mousehole. Cut off casing, weld on plate. Rig released 1330 hrs 10/27/97.

Plan to move off 10/29/97. FINAL REPORT.

### Drilling History

Operator : Peterson Energy Management, Inc.

Contractor : Ashby Drilling, Inc.  
Rig No. 1

Toolpusher : Tim Allen

Elevations : G. L. 4,638 ft. K. B. 4,648 ft.

### Bit Record

Bit No. 1	HP - 11	Made 4,432'
Bit No. 2	S 82	Made 393'

### Sample Description

4,775'      "D" Sand      (All samples lagged to E-log, ~20')

4,775' - 4,780'      Abundant sandstone, fine-grain, friable, bright yellow fluorescence, medium cut, >50% sandstone per sample.

4,780' - 4,805'      A/A , 50% sandstone per sample.

4,805' - 4,810'      A/A , 35% sandstone per sample.

4,810' - 4,815'      A/A , 25% sandstone per sample.

4,815' - 4,820'      A/A , 10% sandstone per sample.

4,820' - 4,850'      Shale and siltstone.

4,857'      "J" Sand

4,855' - 4,865'      Sandstone, grey, hard, fine-grained, clay-filled, dull yellow fluorescence, no cut, ~5% sandstone in sample.

4,865' - 4,875'      Sandstone, white, hard, clay-filled, no shows.

4,875' - 4,905'      Siltstone, shale.

4,905' - TD      Sandstone, clear-white, friable, clay-filled, no shows.

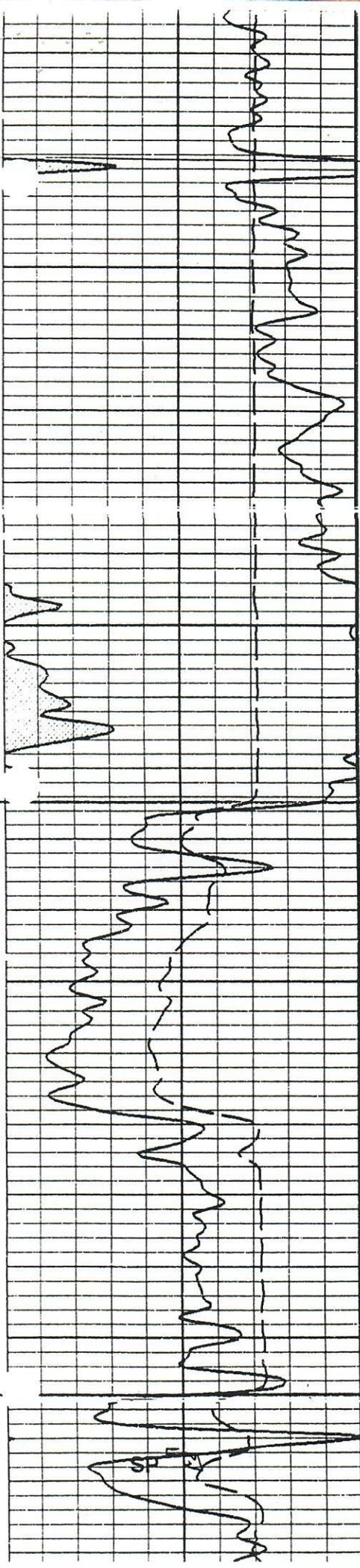
## Geology

The Fassler #32-28 well was drilled to a total depth of 4,969' Logger's T.D.

The main objective was the "D" sandstone. The "D" sand structure ran 7' low to the key well (see map), the Fassler #42-28, SE NE Section 28. The Fassler #32-28 well did encounter a thicker "D" sand section although shalier than the Fassler #42-28. Good sample shows, accompanied by good log results (induction -18 ohms, density -ave 22%) caused a DST to be run from the "D"-1 sand through the middle of the "D"-2 sand (equivalent to Fassler #42-28 producing interval). The resultant poor fluid recoveries and low flow pressure indicated a tight reservoir.

The "J"-1 sandstone did not develop and the density log indicated a tight 10% porosity. No tests were run on the "J" sand.

Therefore, based on 1) low structural setting, 2) poor recoveries, and 3) low flow pressure, the decision was made to plug and abandon the well.



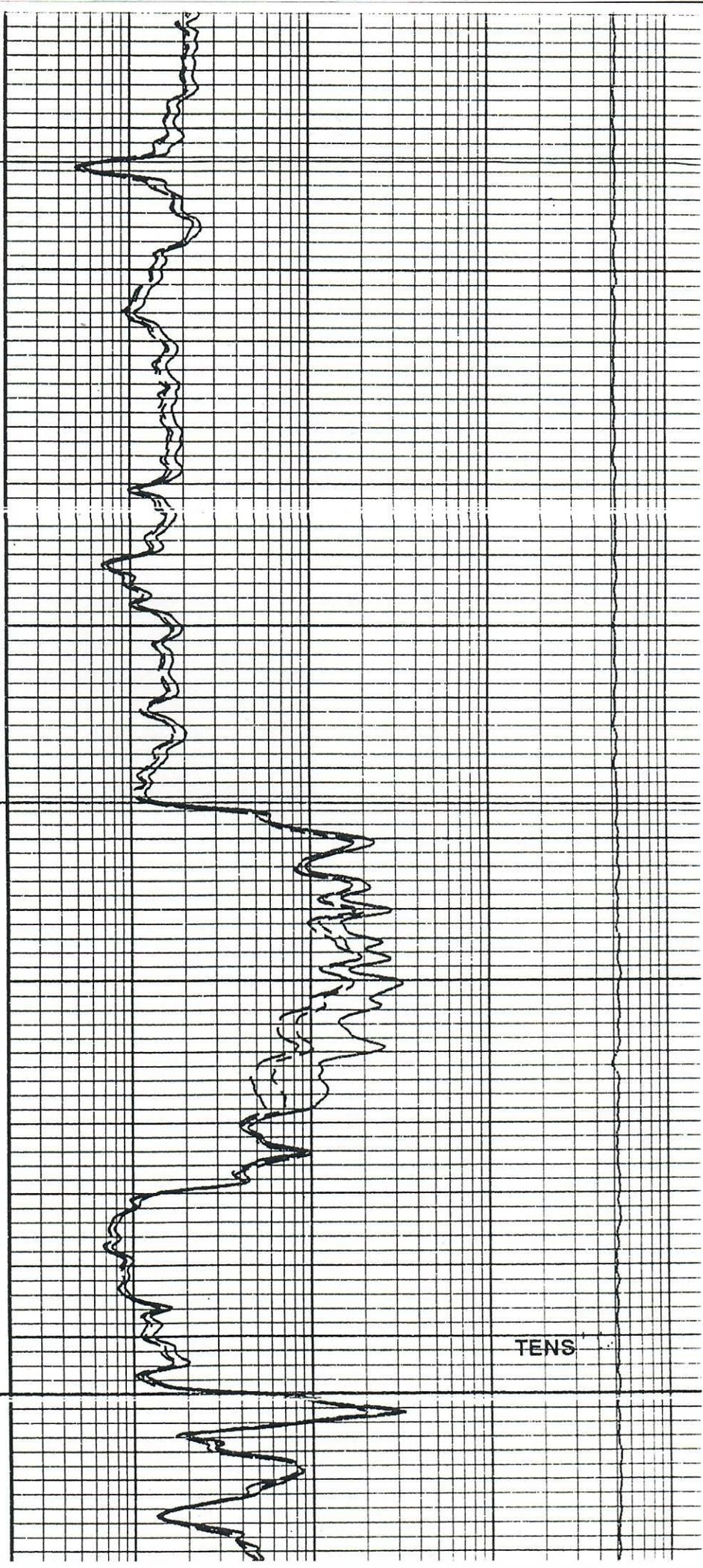
'X'

4700

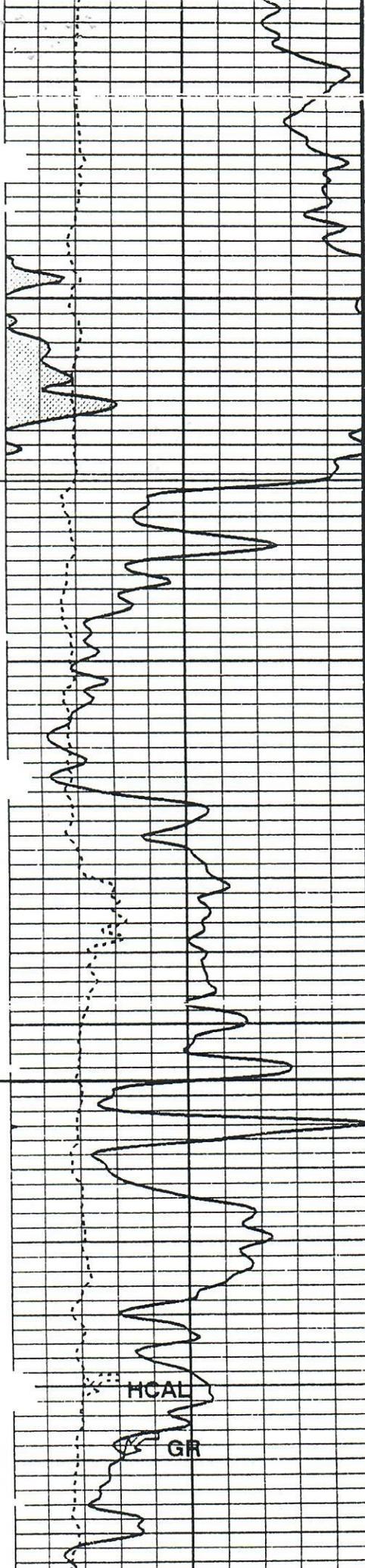
'D'  
-127

'D'  
127  
4800

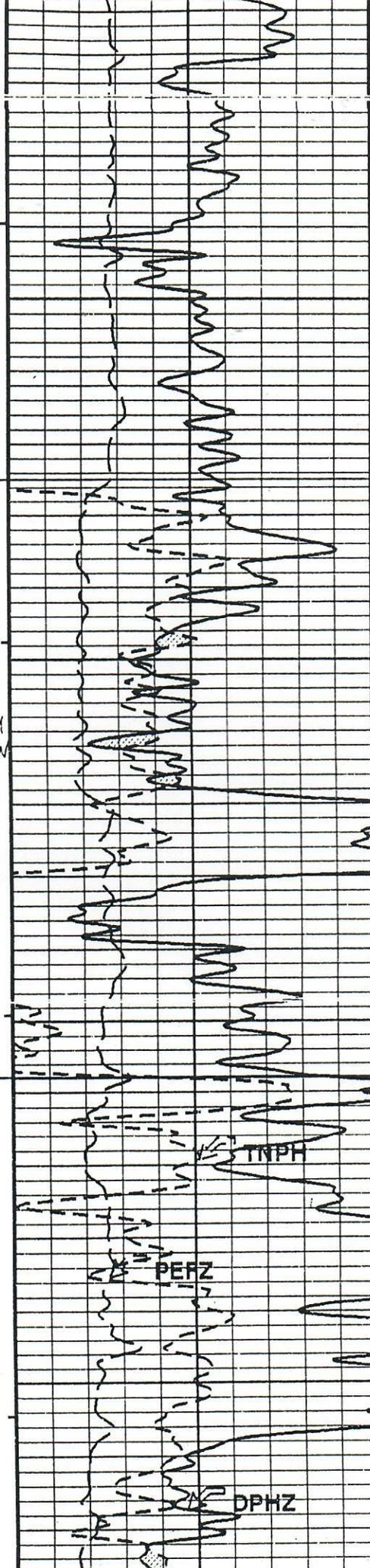
'J'



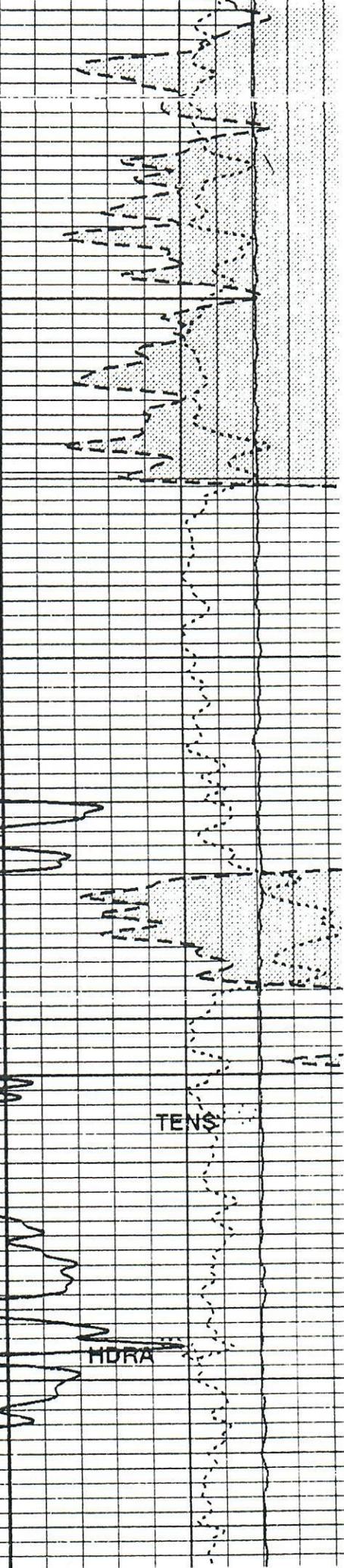
TENS



'D'  
-127  
D  
S  
T  
1  
sc 4800  
REC.  
200' GCM  
336' OGCM



'J'  
-210  
sc 4900



TENS  
HORA  
DPHZ