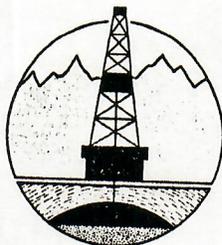




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**WINSLOW RESOURCES, INC.**  
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Phone: (303) 279-1629

GEOLOGIC REPORT

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SEP 27 1990

MINERAL & GAS CONS. COMM.

#1 Clara Nelson  
SE $\frac{1}{4}$  SE $\frac{1}{4}$  Section 27  
Twp 12N, Rge 53W  
Logan County, Colorado

Chronological Record

September 8, 1990 Rotary moved on location, Gear Drilling Rig #3 Contractor. Set 8-5/8", 24# surface casing at 178' KB, with 110 sacks cement plus 3% CaCl<sub>2</sub>. Plug down 6:00 pm, Drilled out 9:30 pm.

September 9 Drilling at 2165'.

September 10 Drilling at 4485'.

September 11 Reached total depth of 5454'. Ran Great Guns Induction and Compensated Density logs.

September 12 Ran DST #1 & #2 5233'-5239'. Both Misruns.

September 13 Ran DST #3 5234'-5242'. Plugged well with 40 sacks of cement in the base of the surface casing and 10 in the top and a 20 sack intermediate plug 370' to 415'.

Deviations: 1/4° @ 517', 1/2° @ 1015', 3/4° @ 1515', 1 1/4° @ 2010', 1-3/4° @ 2504', 2 1/4° @ 2780', 2 1/4° @ 3055', 2 1/4° @ 3552', 1-3/4° @ 3675', 1-1/2° @ 4296', 1° @ 5234'.

Bit Record:

1. Smith FDT (retip) 178' to 2780'
2. Smith FDT (retip) 2780' to 3675'
3. Hughes ATJ-1 3675' to 5234'
4. Hughes J33 (rerun) 5234' to 5450'

Samples Description: (corrected to log depths)

5200' to 5229' Shale, dark grey, bentonitic.

5229' to 5233' Sandstone, white, very fine grained, clean, fair to good porosity and permeability, good oil show and fluorescence.

5233' to 5246' No sample returns.

5246' to 5262' Sandstone, white, vfg, dirty, poor P&P, no shows.

5262' to 5280' Sandstone, white, vfg, fair P&P, no shows.

5280' to 5354' Shale, dark grey, silty.

5354' to 5330' Sandstone, white, vfg, dirty, tight, poor P&P, no shows.

5330' to 5408' Sandstone and shale, interbedded, no shows.

5408' to 5454' Sandstone, white, vfg, dense, shaley, very poor P&P, no shows.

Great Guns formation tops:

Niobrara shale	4422'	Bentonite marker	5131'
Ft. Hays limestone	4709'	Muddy "D" sand	5229'
Codell sandstone	4752'	Muddy "J" sand	5354'
Carlile shale	4762'	Total Depth (logger)	5454'
Greenhorn limestone	4997'	Total Depth (driller)	5450'

Drillstem Test Results:

Tester - Pick Testers, Dave Pickering

DST #1 - 5233' to 5239' - Misrun - Tool opened on way down  
DST #2 - 5233' to 5239' - Misrun - Tool did not get to bottom.

DST #3 - 5234' to 5242'

Description: 30 min open, 60 min closed, 60 min open, 60 min closed.  
Tool opened with a medium blow, increasing to the bottom of bucket in 1 minute and remained strong throughout open period. Second flow opened with a weak blow, increasing to bottom in 7 minutes, and decreasing after 40 minutes to 9" at end of flow period.

Pressures: Initial Hydrostatic - 2729 psi  
Final Hydrostatic - 2750 "  
1st Initial Flow - 574 "  
1st Final Flow - 898 "  
2nd Initial Flow - 938 "  
2nd Final Flow - 1040 "  
Initial Shutin - 1043 "  
Final Shutin - 1043 "

Recoveries: 913' Gas, 2340' gas cut muddy water.  
Sampler: 1985 cc water (7,500 ppm NaCl), trace gas.

Comment

The #1 Clara Nelson was drilled to a total depth of 5454', which is 100' below the top of the "J" sand. Structurally this well ran lower than expected with the "D" top coming in at -647'. The top bench of the "D" sand was well developed (16' thick) and had an oil show, but gave up only water with a slight amount of gas on drillstem test. It appears from this test that it is necessary to gain a higher structural position to locate the oil reservoir in this "D<sub>1</sub>" trap.

The well was plugged according to instructions from the Colorado Oil and Gas Commission.

  
David G. Winslow  
Wellsite Geologist

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