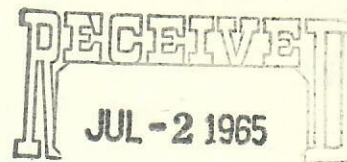




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## GEOLOGIC REPORT

DONALD C. WINSLOW #1 STATE "A"  
C SE SE Section 3-10N-53W  
Logan County, Colorado

OIL & GAS  
CONSERVATION COMMISSION

Chronological Record

The location was surveyed and staked by Powers Surveyors, Inc.  
Elevation 4261 Ground

June 14, 1965 Rotary moved on location. Murfin Drilling Co. Contractor  
Set 98° of 8-5/8" @ 108° with 70 sacks  
June 15 Drilling at 625°  
June 16 Shut down  
June 17 Drilling @ 2776°  
June 18 Drilling at 3800°  
June 19-20 Shut down for rig repairs  
June 21 Drilling @ 4750°  
June 22 Reached TD @ 5134°, Ran Schlumberger I-ES log  
June 23 Ran DST in "J" Sand 5067-70  
Well plugged and abandoned.

Samples description

4100-4430 Shale, gray, speckled 10%-30% with white-buff limestone.  
4430-4480 Limestone, white-gray, chalky, shaley  
4480-4700 Shale, dark gray, silty.  
4700-4720 Limestone, brown, sugary, no effective porosity.  
4720-4945 Shale, dark gray, bentonitic.  
4945-4950 Sandstone and shale, mottled, no porosity  
4950-4965 Sandstone, white, very fine grained, dense, very low permeability,  
good oil stain and fluorescence.  
4965-4985 Sandstone, white, very fine grained, quartzitic, no effective  
porosity, no show.  
4985-5060 Shale, dark gray, silty.  
5060-5065 Sandstone and shale, laminated, pyritic.  
5065-5075 Sandstone, white, fine-medium grained, clean, good porosity  
and permeability, even light oil stain and yellow fluorescence.  
5075-5080 Sandstone, as above, shaley, low permeability, good show.  
5080-5085 Sandstone, as above, clean, oil stain and fluorescence  
somewhat spotty, appears to be water bearing.  
5085-5115 Sandstone and shale, laminated and reworked, no effective porosity.  
5115-5130 Sandstone, salt and pepper, fine grained, poorly sorted, low  
porosity and permeability, no show, water bearing.  
5130-5134 Shale, black, fissile.

Drillstem Testing Data

Interval tested: 5066-70 (Schlumberger)

Tester - Central States

Type Test - straddle packer

Packer seats - 5059, 5066, 5070

Tool open - 2 hours

Tool shut in - 45 min.

Description: Tool opened with steady medium blow, decreased to weak at end of test.

Recovery: 900° gas  
90° oil cut water  
450° water (.65 @ 70° F)Pressures: Hydrostatic 2630#  
Initial flow 52#  
Final flow 152#  
Shut in 918#Slope Tests

	<u>Depth</u>	<u>Deviation</u>
1	761°	1/4°
2	1326	1/4
3	2700	1-1/4
4	2922	1-1/2
5	3580	1-1/4
6	3797	1-1/4
7	4451	1
8	4974	3/4

Schlumberger Formation Tops

Elevation 4269 K.B.

Niobrara	4104°
Ft. Hays	4430°
Carlile	4484°
Greenhorn	4710°
bentonite	4852°
"D" Sand	4947° (-678)
"J" Sand	5058° (-789)
Skull Creek	5128°



## Discussion

The #1 State "A" was drilled to a depth of 5134' or 6' below the base of the Dakota "J" sandstone and was abandoned on June 23, 1965. Shows of oil were evidenced in both Dakota "D" and "J" Sands.

Oil saturation was seen in the top zone of porosity in the "D" sand (4902-12). The sand was too tight to merit a DST, however, this zone could develop into a good reservoir body closely possibly associated with a better structural position.

The top zone of porosity in the "J" sand (5066-85) also possessed excellent oil shows. This 19' zone, absent in the Winslow & Hayes #1 State, C SW NW Section 11, is positive proof of the extension of the Beall Creek - Bonanza offshore bar northward through Section 34-35, T 11 N, R 53 W.

Structurally the #1 State "A" proved to be a seismic disappointment running 52' low to detailed shooting. Even as low as it is (-789 on the "J") the well proved to be very close to an oil-water contact as seen from the samples, log and DST analyses.

In light of all the facts found from the drilling of this well, I believe that an oil accumulation similar to that at Bonanza exists in the NE/4 of Section 10. Locations at NE NE of SW NE appear to be most favorable from a subsurface structural viewpoint.



Donald L. Winslow  
Petroleum Geologist