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GEOLOGIC REPORT

Sage Oil Co., Camberley Corp., Carlson & Lair and Don Winslow  
#1 Mason Estate  
C SW NE Section 20-2N-53W  
Washington County, Colorado

Chronological Record

The drillsite was surveyed and staked by Cecil Osborne, elevation 4611' gr.  
 June 14, 1974 Rotary moved on location, Jim Snyder Drilling Co., contractor. Set 85' of 8-5/8ths" casing at 96' KB with 80 sacks cement.  
 June 15 Drilling at 870'  
 June 16 Drilling at 3750'  
 June 17 Drilling at 4355'  
 June 18 Reached total depth of 4960', ran Schlumberger Induction and Density logs, ran DST #1 and DST #2.  
 June 19 Ran DST #3  
 June 20 Well plugged with 35 sacks across the "D" sand and 15 sacks at the base of the surface and 10 at the top.

Samples Description

4020' - 4300' Shale, gray, speckled with brown and white limestone.  
 4300' - 4370' Limestone, white-cream, fossiliferous, chalky, trace of tight, salt & pepper sand lower 10'.  
 4370' - 4480' Shale, dark gray, silty.  
 4480' - 4540' Limestone, brown, sugary, very shaley, no effective porosity.  
 4540' - 4785' Shale, dark gray, bentonitic, pyritic lower 20'.  
 4785' - 4795' Sandstone, white, very fine grained, dense, slightly friable, clean, fair porosity and permeability, 70% spotty oil stain, good bright yellow-white fluorescence.  
 4795' - 4800' Sandstone, as above, clay filled, no porosity, no show.  
 4800' - 4835' Sandstone, white, very fine grained, clean except for few shale laminations, dense, low-fair porosity, no show, appears to be water sand (the lower 20' of this interval was of very poor quality.)  
 4835' - 4865' Shale, dark gray, silty.  
 4865' - 4875' Sandstone, gray, very fine grained, mottled 50% with shale, very low-no porosity, spotty 50% oil staining and yellow fluorescence.  
 4875' - 4890' Sandstone, as above, cleaner, low-fair porosity, 50% spotty oil staining and fluorescence.  
 4890' - 4905' Sandstone and shale, thinly laminated, no porosity, no show.

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- 4905' - 4925' Sandstone, white, fine grained, glauconitic, soft, friable, excellent porosity and permeability, no show, appears to be water bearing.
- 4925' - 4940' Sandstone, gray - slightly salt & pepper, dense, hard, low porosity, no show.
- 4940' - 4960' Sandstone, gray, softer than above, much bentonite, clay filled, very low effective porosity, no show.

Drillstem Testing Data

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DST #1 4878' - 4885' ("J" sandstone)  
Tester: Virg's (Rick Hansen)

Description: Tool opened with a weak blow and remained steady throughout the 90" flow period. Shut in period 30".

Recovery: 90' Muddy water  
300' Water, slightly brackish

Pressures:	Initial hydrostatic	- 2747#	Initial flow	- 23#
	Final "	- 2713#	Final "	- 169#
	Shut in (30")	- 783#		
	Pressure below bottom packer	- 1150#	(packer held)	

DST #2 4803' - 4809' ("D" sandstone)  
Tester: Virg's (Rick Hansen)

Description: Tool opened with good blow, becoming strong at end of first 5" flow period, strong at start of second flow period, gas to surface in 12". Gas guaged 442,000 cu. ft. after 30", 472 MCF after 45" and stabilized at 500 MCF after 60". Gas burned readily with intense heat. There was no indication of any fluid buildup.

Recovery: 5' Drilling mud

Pressures:	Initial hydrostatic	- 2973#	Initial flow (#1)	- 37#
	Final "	- 2540#	Final "	- 37#
	Initial flow (#2)	- 50#	Shut in (#1)	- 1103#
	Final "	- 74#	Shut in (#2)	- 1054#
	Bottom packer held and pressure bled to 1450#			

DST #3 4815' - 4830' ("D" sandstone)  
Tester: Virg's (Rick Hansen)

Description: The tool opened with a fair blow becoming strong in 5", second flow period opened with strong blow, gas to surface in 27" too small to measure after 10" (estimated maximum blow 50 MCF after 5"), gas burned well during test through 25" of the shut in period.

Recovery: 90' Muddy water  
600' Water, slightly brackish

Pressures:	Initial hydrostatic	- 2800#	Initial flow (#1)	- 50#
	Final "	- 2750#	Final "	- 74#
	Initial flow (#2)	- 74#	Shut in (#1)	- 1090#
	Final "	- 310#	Shut in (#2)	- 1042#
	Bottom packer held and bled to 2050#			

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Schlumberger Formation Tops

(Elevation 4621' KB)

Niobrara shale	4028'	
Ft. Hays limestone	4308'	
Carlile shale	4366'	
Greenhorn limestone	4470'	
bentonite marker	4697'	
"D" sandstone	4788'	(-167)
Huntsman shale	4834'	
"J" sandstone	4868'	(-247)
Total depth	4960'	

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Discussion

The #1 Mason Estate was drilled to a total depth of 4960' and abandoned on June 20, 1974. Shows of oil and gas were evidenced from the drill cuttings of the upper "D" and upper "J" sands.

Structurally the well ran regionally high and confirmed the presence of the suspected structural nosing trending across the N $\frac{1}{2}$  Section 20. Reversal was more evident in the "D" sand with gas (500 MCF) being tested from the middle "D" (4803-4809').

Shows of oil were seen in the samples of the upper "J" zone from a tight section of sand that appears to be developing toward a Rancho type pay sand. The recovery of 390' of water on DST of this zone could indicate the well to be off structure to an accumulation or slightly lateral to the real porous development.

The gas recovery in the "D" was viewed as subcommercial, at this point in time, owing to its thinness of section, quantity of gas (projected volume over the prospect area) and cost of completion vs. present value of the gas. Development drilling to the west could possibly find additional pay in the upper or lower "D" which with that tested in this well could present commercial possibilities.

The well was plugged according to instructions from Mr. Doug Rogers of the Colorado Oil and Gas Commission. A 35 sack cement plug was placed across the "D" sand and the surface was plugged with 15 sacks at the base of the surface casing and 10 at the top.

Donald C. Winslow  
Petroleum Geologist

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