

Computer inventoried

23-34-26W
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ORIGINAL

Halliburton Oil Producing Company

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Central Park I, Suite 210
Oklahoma City, Oklahoma 73105
405-525-3371

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GEOLOGIC REPORT

Halliburton Oil Producing Company

Goodnight 1-23

N/2 NW
Sec. 23-34S-26W
Meade County, Kansas

McKinney Gas Field

API# 15-119-20893

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Formation Tops

	Goodnight 1-23 KB 2260		Easterday 1-23 KB 2257	
Stone Corral Anhy.	1219	+1041	1220	+1037
Chase	2571	-311	2580	-323
Heebner Shale	4455	-2195	4483	-2226
Lansing Lime	4640	-2380	4662	-2405
Marmaton Lime	5342	-3082	5346	-3089
Cherokee Shale	5521	-3261	5523	-3266
Morrow Shale	5824	-3564	5825	-3568
Morrow Sand Zone	5844	-3584	5848	-3591
Chester Lime	5888	-3628	5900	-3643
Total Depth	6115	-3855	5952	-3695

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Bit Record

No.	Size	Make	Type	Depth Out	Dev. Svy.
1	12 1/4		J-1	500	1
				884	1/2
				1381	3/4
				1881	3/4
				2415	1
				2942	1
				3448	1
				3953	1/2
				4362	1/2
				4864	3/4
2	7 7/8		HP52	5367	3/4
				6115	1

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I. Well Data

Operator: Halliburton Oil

Well Name: Goodnight 1-23

Location: 1125 FWL & 660 FNL, NW
Sec. 23-34S-26W
Meade County, Kansas

Elevation: GL 2247, DF 2258, KB 2260

Contractor: H40 Drilling, Rig 2
Wichita, Kansas

Commenced Drilling: 2/21/94

Completed Drilling: 2/28/94

Date Logged: 3/01/94

Hole Size: 7 7/8"

Wellsite Supervision 5200-TD (BlueLine Logging)

Samples Examined: 5200-TD

Casing Record-Surface: 24# 8 5/8" set at 879'
Production: Ran 6132' of 5 1/2" 15.5 #,
set @ 6113', cmt'd w/135 sx.

DST's and Cores: # 1 5828-5958

Driller's TD: 6115

Logger's TD: 6113

Mud Company: Cody Mud Company
Enid, Oklahoma

Intent to Drill No.: 15-119-20893

Logging Suite: Atlas Wireline--Dual Induction,
Density/Neutron, Microlog

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II. Primary Zones of Interest

F. Morrow Sand

5865 - 5872

Sample Analysis: The Morrow consisted of white to light gray sand which was very fine to fine grain, subangular to subrounded, and fairly clean in part. Some of the sample showed abundant individual grains. The sand clusters contained glauconite, kaolinite, and a pale blue-green weathered clay(possibly chlorite). The clusters had fair to poor porosity, were fairly calcareous, and carried no hydrocarbon show other than gas bubbles liberated in the acid. A gas increase of 2 units was registered.

A straddle DST was run to determine the reservoir characteristics of the Morrow. The test recovered 120 feet of gassy drilling mud . Times and pressures are as follows:

DST No.1

5828 - 5958

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IHP	2838	
IFP	109-109	30 min.
ISIP	281	60 min.
FFP	122-122	90 min.
FSIP	273	180 min.
FHP	2760	

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The test started with a weak blow which increased to a strong blow off the bottom of the bucket in 20 minutes. Gas reached the surface after 66 minutes and reached a rate of 22 mcf/d and was still increasing. Analysis of the blanked off recorder below the lower packer indicates that the tested interval was isolated from above and below. Shut-in pressure readings showed the zone to have good permeability.

Log Analysis: The logs indicate the Morrow to have good porosity and permeability. Favorable water saturation calculations indicate this zone to be commercial.

Conclusion: Based on reservoir rock quality, drillstem test results, and electric log readings, it is believed that the Morrow Sand is capable of commercial production at this location. The final shut-in pressure was approximately 100 pounds greater than the present reservoir pressure in the Easterday 1-23.

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III. Recommendation

It was recommended that casing be run to test the Morrow Sand. No other zones of commercial interest were detected either on the electric logs or in the samples.

W. Kevan Marsh
Geologist

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