

KCC

DONALD J. MELLAND * GEOLOGIST

Phones: CH 1-1675 CH 1-4582 * Box 783 * McPHERSON, KANSAS

JUN 30 1993

GEOLOGICAL REPORT

Litan & Warner
Kasey "A" # 2
NE NW NW, Sec. 35-19-3W
Field: Johnson
McPherson County, Kansas

May 8, 1969
Elevation: 1503 RB est.
Comm: 5/2/69; Comp: 5/7/69
Casing: 8-5/8" = 160'/115sx
5-1/2" * 3050'/50sx

FORMATION TOPS

Lansing	2348 (-845)
Mississippian	2947 (-1444)
RTD	3050 (-1547)

Cores: None

Drill Stem Tests: None

Electrical Logs: None

(All measurements taken from rotary bushing)

FORMATION SUMMARY

MISSISSIPPIAN

2952-2982 White and buff, sharp chert with included white and pale green, leached chert, broken poor to fair pinhole porosity, evidence of gas, small amount of light staining, no show of live oil, very faint odor. This is probably a depleted gas zone.

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3000-3032 White and buff, sharp and leached chert with included buff finely crystalline dolomite, poor with some fair porosity, show of live oil, uniform and spotted stain, evidence of gas, faint uniform and spotted stain, evidence of gas, faint odor. This zone should be evaluated on a gamma ray-neutron log and tested through perforations.

RECOMMENDATIONS

It is recommended that casing be set at a depth of 3050 feet and the recommended zone tested.

Respectfully submitted,

Donald J. Helland

DJM/f

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DRILLING TIME

Litan & Warner
Kasey "A" # 2

Sec. 35-19-3W
NE NW NW

Elevation: 1503 RB est.
McPherson County, Kansas

Depth	Time										Remarks
2250-2260	1	1	1	2	1	1	1	2	2	1	
70	1	1	1	1	1	1	1	1	1	1	
80	1	1	1	2	1	1	1	1	1	2	
90	1	1	2	1	2	1	2	2	4	4	
2290-2300	3	2	3	2	3	3	2	3	2	3	
10	2	2	2	2	4	4	5	5	3	3	
20	2	3	3	2	3	2	3	3	3	3	
30	2	3	3	3	2	3	3	2	3	2	
40	3	2	2	2	2	2	2	2	3	2	
50	3	2	2	2	3	2	1	2	3	3	
60	4	3	3	3	4	3	2	4	3	4	
70	3	3	3	4	4	4	3	4	4	4	
80	3	3	4	2	4	3	2	4	3	3	
90	4	4	4	3	3	3	4	5	5	4	
2390-2400	5	5	2	2	2	2	2	3	3	2	Trip @ 2392'
10	2	3	3	2	4	2	2	3	2	3	
20	4	4	3	3	3	3	3	3	3	3	
30	3	2	2	2	3	3	2	2	2	1	
40	2	3	2	2	2	3	2	2	3	3	
50	2	2	3	3	3	2	1	1	1	2	
60	2	1	1	1	1	1	1	1	2	2	
70	2	1	4	2	2	2	2	2	3	2	
80	1	1	1	1	1	1	1	1	1	1	
90	1	1	1	1	2	2	2	3	2	3	
2490-2500	2	3	3	2	3	3	3	3	3	3	
10	3	3	3	3	3	3	3	3	3	3	
20	3	2	3	4	3	3	2	4	3	3	
30	3	3	2	2	1	1	2	1	3	2	
40	2	2	2	2	1	1	2	2	2	2	
50	3	4	2	3	4	4	4	3	3	3	
60	3	3	3	3	2	3	3	3	4	3	
70	4	4	4	4	4	4	4	6	6	6	
80	6	5	6	6	6	5	3	4	4	4	
90	3	4	4	4	5	4	3	4	3	3	
2590-2600	3	3	2	2	2	2	3	3	4	5	

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Depth	Time										Remarks
2600-2610	4	4	5	5	5	5	6	6	6	5	
20	4	4	4	4	3	3	4	3	3	3	
30	3	3	2	2	2	2	3	3	3	5	
40	4	6	4	3	4	4	4	5	5	5	
50	5	5	4	5	4	5	5	5	5	5	
60	6	5	5	3	2	4	4	2	2	2	
70	1	1	2	1	2	1	1	3	4	5	
80	4	4	5	5	5	5	5	5	5	4	
90	4	5	5	3	4	4	3	3	3	3	
2690-2700	4	4	5	4	3	5	5	4	5	5	
10	5	5	5	5	4	4	4	3	4	5	
20	5	6	6	7	6	7	4	3	3	4	
30	6	6	6	7	7	5	4	4	3	2	Trip # 2725'
40	4	3	2	3	4	4	5	4	3	3	
50	2	3	3	2	2	3	3	4	3	4	
60	4	3	3	3	2	4	4	2	2	2	
70	2	1	2	2	3	3	2	3	2	3	
80	2	3	2	2	2	3	3	2	3	3	
90	3	3	4	4	4	4	4	2	2	3	
2790-2800	4	4	4	4	4	4	3	3	4	4	
10	3	3	5	4	4	3	1	2	1	2	
20	1	2	4	3	3	3	3	3	2	3	
30	4	5	5	5	5	3	2	2	4	4	
40	3	3	3	3	3	3	3	2	2	1	
50	2	1	3	2	5	5	6	3	3	3	
60	4	4	3	4	3	3	3	2	2	1	
70	2	3	3	4	4	4	3	3	2	4	
80	4	3	4	4	3	3	3	3	3	4	
90	5	5	4	5	4	3	3	3	3	1	
2890-2900	1	2	2	2	1	1	1	1	2	2	
10	2	3	4	2	1	2	2	2	2	2	
20	3	2	1	2	2	2	1	1	5	4	
30	2	2	2	2	4	2	3	2	3	3	
40	1	2	2	2	2	1	2	2	2	2	
50	2	2	2	2	1	3	2	4	4	8	

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Depth	Time										Remarks
2750-2960	18	15	4	2	2	2	2	2	1	4	
70	2	2	2	2	1	2	2	3	2	2	
80	3	4	4	5	3	4	9	3	3	2	Trip @ 2977'
90	3	3	6	6	4	6	4	3	3	5	
2990-3000	3	5	4	4	2	1	2	3	2	2	
10	2	2	2	1	2	2	2	2	3	2	
20	4	3	2	2	2	2	2	2	3	3	Circ. @ 3015'
30	1	2	3	3	3	3	2	3	2	4	
40	4	2	3	5	5	5	6	4	4	4	
3040-3050	4	3	2	2	4	4	5	5	6	5	Circ. @ 3050'

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GEOLOGICAL REPORT

RUBY #3

635' FNL, 360' FEL of

SECTION 7 - 16S - 22W

NESS COUNTY, KANSAS

Commenced: 2-8-04 Elevations: 2399' GR, 2404' KB
Completed: 2-16-04 Surface Pipe: 8-5/8" at 230' KB
Contractor: Murfin Drilling Production Pipe: 5½" for SWDW

One foot drilling time was kept from 1700' to 1800' KB and from 3600' to RTD. Ten foot drilling samples (wet only) were kept from 4000' to rotary total depth.

Following are sample tops, descriptions of zones of interest (including all shows of oil & gas), and the results of all drill stem tests.

<u>ANHYDRITE</u>	<u>1748</u>	<u>(+656)</u>
<u>BASE ANHYDRITE</u>	<u>1786</u>	<u>(+618)</u>

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Page 2

<u>HEEBNER</u>	<u>3760</u>	<u>(-1356)</u>
<u>TORONTO</u>	<u>3784</u>	<u>(-1380)</u>
<u>LANSING</u>	<u>3798</u>	<u>(-1394)</u>
<u>STARK SHALE</u>	<u>4018</u>	<u>(-1614)</u>
<u>BASE KANSAS CITY</u>	<u>4070</u>	<u>(-1666)</u>
<u>MARMATON</u>	<u>4084</u>	<u>(-1680)</u>
<u>PAWNEE</u>	<u>4172</u>	<u>(-1768)</u>
<u>FORT SCOTT</u>	<u>4258</u>	<u>(-1854)</u>

4270-74' KB

Cream to white, very finely crystalline, dense, limestone. Very slight show of free oil in very poor intercrystalline porosity, no odor, slight stain, and a very slight cut.

CHEROKEE SHALE

4282 (-1878)

4353-60' KB

Clear to cream, fine to medium grained, well sorted, well rounded, sandstone clusters. (also, loose grains)
Fair show of free oil in good intergranular porosity, weak odor, slight stain, and a fair cut.

DRILL STEM TEST #1

4280' to 4360' KB 80' Anchor

Blow: bottom of bucket in 4½ min., then bottom of bucket 2nd opening in 6 min.

Times: Open 15, Closed 45, Open 30, Closed 45.

Recovered: 1020' Mud Cut SW

Pressures: IH 2187#, IF 50 - 257# ISIP 1271#
FH 2079# FF 244 - 487# FSIP 1259#

4360-68' KB

Clear, medium grained, fairly rounded, well sorted, sandstone clusters. Lots loose grains! Slight show of free oil in good intergranular porosity, no odor, slight stain, and a very slight cut

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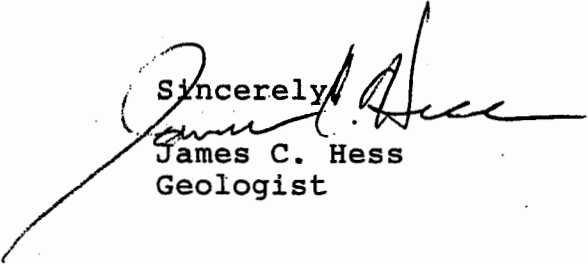
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Page 3

<u>MISSISSIPPI</u>	<u>4381</u>	<u>(-1977)</u>
<u>ROTARY TOTAL DEPTH</u>	<u>4480</u>	<u>(-2076)</u>

A Radiation Guard Log was run to check sample tops, look for SW disposal zones, and to identify our sand zone. Since nothing new was shown on the log, 5½" casing was run for a SWDW. 5½" 14# casing was set @ 4391' KB with 100 sx EA-II cement. A D.V. Tool was set @ 1712-14' KB and after circulating 4 hrs for the bottom stage to set, the D.V. Tool was cemented to surface with 200 sx SMDC. Plug was down 2:45am 2-16-04.

Sincerely,


James C. Hess
Geologist