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Geological Report

**D.G. Hansen Trust
#6 RODERICK
E/2 W/2 SE/4
Section 28-T15S-R27W
Gove County, Kansas**

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#6 Roderick

J.E. Jespersen
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August 2, 1996

**#6 RODERICK
E/2 W/2 SE/4
Section 28-T15S-R27W
Gove County, Kansas**

Field:	Rosa NW
Elevations:	2485 Kelly Bushing 2482 Derrick Floor 2480 Ground Level
Wellsite Geologist:	J.E. Jespersen
Contractor:	White and Ellis Drilling
Commenced:	June 25, 1996
Completed:	July 2, 1996
Rotary Total Depth:	4050 feet
Log Total Depth:	4049 feet
Surface Casing:	8 5/8" @ 372 feet with 200 sacks
Production Casing:	4048 feet with 200 sacks
Electrical Surveys:	ELI Wireline: GR-N-G Caliper Log
Hole Size:	12 1/4" from surface to 373 feet 7 7/8" from 373 feet to 4050 feet (RTD)
General Information:	Samples saved from 3300 to 4050 feet (RTD). Drilling time kept from 1900 to 1960 feet and 3300 to 4050 feet (RTD). Samples examined from 3300 to 4050 feet (RTD). Drilling supervised from 3540 to 4050 feet (RTD). Mud up at 3400 feet. Mud type, chemical.

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FORMATION	<u>LOG</u>		<u>SAMPLE</u>		STRUCT COMP.
	TOP	DATUM	TOP	DATUM	
Anhydrite	1921	+ 564	1923	+ 562	8' Low
B/Anhydrite	1956	+ 529	1961	+ 524	8' Low
Topeka	3446	- 961	3449	- 964	7' Low
Heebner	3683	- 1198	3685	- 1200	8' Low
Lansing	3721	- 1236	3722	- 1237	6' Low
Stark Sh	3968	- 1483	3968	- 1483	6' Low
B/Kansas City	4026	- 1541	4028	- 1543	5' Low
Pawnee					
Cherokee Sh					
Mississippi Lime					
Total Depth	4049	- 1564	4050	- 1565	

Reference/Structural Comparison: D.G. Hansen Trust #2 Roderick

Note: Pipe strap at 3745 feet was .23' long to the board.

<u>DAILY PENETRATION</u>		
Date	Depth	Remarks
6/25/96	- 0 -	Spud 3:45 PM 8 5/8" @ 372' with 200 sx. Plug down 11:50 PM
6/26	373	Drill plug 7:45 AM.
6/27	2255	Anhydrite 1923 to 1961'
6/28	2915	Drilling
6/29	3430	DST #1 3684-3745
6/30	3745	DST #2 3875-3940
7/01/96	3940	DST #3 3942-3972
7/02	4020	Reached RTD (4050') @ 8:45 AM
7/02	4050	ELI RAG Log: 5 1/2" @ 4048' w/200 sacks. RTD 4050 @ 8:45 AM

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BIT RECORD

NO.	SIZE	MAKE	TYPE	DEPTH OUT	FEET	HOURS
S	12 1/4	Smith	RT	373	373	4
1	7 7/8	SEC	S84S	2312	1939	18
2	7 7/8	W/Mc	52 CHF	3745	1433	49
3	7 7/8	W/Mc	52 CHF	3940	195	9
4	7 7/8	W/Mc	52 CHF	4050	110	5 1/4
						85 1/4

MUD RECORD (Mud-Co)

CHK	DEPTH	WT	VIS	FIL	PH	PV	YP	GELS	CHLORIDES	SOL
1	- 0 -									
2	2312	9.2	29	N/C	7.0	—	—	—/—	10,000	5.8%
3	3455	8.6	40	10.4	10.5	8	13	6/15	1,200	2.0%
4	3820	9.0	49	10.4	9.0	13	19	8/22	1,000	4.8%
5	3940	9.0	45	11.2	9.0	14	17	9/20	1,500	5.6%

DRILL STEM TESTS

NO	INTERVAL	IFP	ISIP	FFP	FSIP	IHHFHH
1	3684-3745 Recovery:	46-46/15	870/45	58-69/30	823/45	1757-1734
		40' Mud with Very slight show of oil				
2	3875-3940 Recovery:	58-58/15	347/45	69-69/45	324/45	1885-1871
		120' Gas in pipe 60' Oil cut mud (12% Oil)				
3	3942-3972	MISRUN - TOOL MALFUNCTION				
4	3942-3972 Recovery:	58-69/15	243/45	69-81/60	231/45	1997-1974
		230' Gas in pipe 40' Oil cut mud (5% Oil) 30' Oil & water cut mud (5% Oil, 12% Water)				

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Geological Formations and Porosity Zones

A detailed lithological log was maintained from 3300 feet to 4050 feet (RTD). The following are formation tops, recoveries of drillstem tests, descriptions of reservoirs containing shows of oil and descriptions of reservoirs felt pertinent to the accumulation of hydrocarbons in the area. The depths are interpolated from drillers measurements and measured from the kelly bushing.

Anhydrite	Sample	1923 + 562
	E-Log	1921 + 564
B/Anhydrite	Sample	1961 + 524
	E-Log	1956 + 529
Topeka	Sample	3449 - 964
	E-Log	3446 - 961

SL 3470-3475 EL 3469-3473	Limestone, light grey, very fine crystalline, fossiliferous. Fair interfossiliferous porosity. No shows. Judged this zone to be of no commercial value.
SL 3480-3495 EL 3478-3486	Limestone, light grey, fine crystalline, fossiliferous, cherty. Good intercrystalline and interfossiliferous porosity. No shows. Judged this zone to be of no commercial value.
SL 3505-3514 EL 3507-3510	Limestone, light grey, fine crystalline, fossiliferous, cherty. Fair interfossiliferous porosity. No shows. Judged this zone to be of no commercial value.
SL 3526-3531 EL 3528-3532	Limestone, white to light grey, fine crystalline, fossiliferous. Fair intercrystalline porosity. No shows. Judged this zone to be of no commercial value.
SL 3540-3550 EL 3540-3545	Limestone, light grey, fine crystalline, chalky. Fair intercrystalline porosity. No shows. Judged this zone to be of no commercial value.

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Geological Formations and Porosity Zones

SL 3587-3596 Limestone, white to light grey, fine crystalline, fossiliferous, cherty.
EL 3580-3598 Fair to good intercrystalline and interfossiliferous porosity. No
shows.
Judged this zone to be of no commercial value.

SL 3616-3623 Limestone, white to light buff, fine crystalline, sucrosic. Good
EL 3615-3622 intercrystalline porosity. No shows.
Judged this zone to be of no commercial value.

SL 3626-3631 Limestone, light buff, fine crystalline, fossiliferous. Good
EL 3625-3630 interfossiliferous porosity. No shows.
Judged this zone to be of no commercial value.

SL 3639-3642 Limestone, light buff, fine crystalline, fossiliferous, cherty. Poor to
EL 3638-3642 fair interfossiliferous porosity. No shows.
Judged this zone to be of no commercial value.

SL 3647-3666 Limestone, white to light grey, fine crystalline, fossiliferous, chalky.
EL 3646-3666 Good intergranular porosity. No shows.
Judged this zone to be of no commercial value.

SL 3677-3682 Limestone, light grey to grey, fine crystalline, fossiliferous. Fair
EL 3676-3682 interfossiliferous porosity. **No free oil. Rare show gilsonitic
staining; no odor.**
Judged this zone to be of no commercial value.

Heebner	Sample	3685 -1200
	E-Log	3683 -1198
Toronto	Sample	3706 -1221
	E-Log	3704 -1219

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Geological Formations and Porosity Zones

SL 3708-3715 Limestone, white to light buff, very fine crystalline, fossiliferous.
EL 3708-3710 Fair interfossiliferous and vugular porosity; slightly cherty. **No free oil. Spotted brown live oil stain**; no odor. Tested this zone. (See DST #1) The results of the drillstem test indicates this zone is not recommended for a waterflood zone. However, it should be perforated for a possible oil producing zone. Judged this zone to be of no commercial value.

Lansing

Sample 3722 -1237
E-Log 3721 -1236

(A-Zone)

SL 3724-3730 Limestone, white, very fine crystalline, fossiliferous, oolitic. Fair
EL 3725-3730 interoolitic and interfossiliferous porosity. No shows. No odor. Tested this zone in DST #1. Judged this zone to be of no commercial value due to lack of any oil shows in sample.

(A-Zone)

SL 3737-3742 Limestone, white, very fine crystalline, chalky. Fair intergranular
EL 3735-3738 and vugular porosity. No free oil. very rare light brown oil stain; no odor. Tested this zone in DST #1. Due to the quality of hydrocarbon show, judged this zone to be of no commercial value. Judged this zone to be of no commercial value.

Drillstem Test #1

3684-3745

Very weak bldg to weak blow both flows .

Recovered:

40' Mud w/very slight show of oil.

Initial Flow Pressures:

46# to 46# / 15 min.

Initial Shut-In Pressure:

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870# / 45 min.

Final Flow Pressures:

58# to 69# / 30 min.

Final Shut-In Pressure:

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823# / 45 min.

Initial Hydrostatic Pressure:

1757#

Final Hydrostatic Pressure:

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1737#

Bottomhole Temperature:

107 degrees

Geological Formations and Porosity Zones

(B-Zone)

SL 3756-3768 Limestone, light grey, Fine crystalline, fossiliferous. Fair
EL 3756-3760 interfossiliferous porosity. **No free oil. Rare spotted dark oil stain;** no odor.
Judged this zone to be of no commercial value.

(D-Zone)

SL 3772-3780 Limestone, light grey to grey, very fine crystalline, fossiliferous.
EL 3774-3778 Poor to fair interfossiliferous and vugular porosity. **No free oil.** Spotted dark brown oil stain; no odor.
Judged this zone to be of no commercial value.

(D-Zone)

SL 3780-3796 Limestone, light buff, fine crystalline, fair interfossiliferous and
EL 3778-3794 vugular porosity. Slightly chalky; no shows; no odor.
Judged this zone to be of no commercial value.

(E-Zone)

SL 3812-3816 Limestone, light buff, fine crystalline, fossiliferous. Fair
EL 3812-3815 interfossiliferous porosity. **Poor show live free oil.** Spotted light brown oil stain; slight odor. This zone should be perforated, attempted as an oil completion, and at a later date converted to an injection zone for a waterflood project.

(F-Zone)

SL 3822-3826 Limestone, white, fine crystalline, sucrosic, chalky. Fair
EL 3821-3825 intergranular porosity. No shows.
Judged this zone to be of no commercial value.

(G-Zone)

SL 3838-3844 Limestone, white to light grey, fine crystalline, oolitic, highly
EL 3840-3843 fossiliferous. Good interfossiliferous and oolitic porosity. No shows. No odor.
Judged this zone to be of no commercial value.

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Geological Formations and Porosity Zones

Muncie Creek

Sample 3876 -1391
E-Log 3872 -1387

(Paola)

SL 3879-3886 Limestone, light buff, fine crystalline, fossiliferous, fair
EL 3874-3877 intercrystalline and interfossiliferous porosity. **Poor show brown free oil.** Spotted to saturated brown oil stain; slight odor. Tested this zone in DST #2. Recommend this zone be perforated in one of the wells on this lease, prior to abandoning the lease, for a possible oil producing zone.

(H-Zone)

SL 3892-3902 Limestone, cream, very fine to fine crystalline, fossiliferous. Poor
EL 3887-3891 interfossiliferous porosity. **Poor show brown live free oil.** Spotted brown oil stain; very slight odor. This zone was covered in DST #2. Due to the test results, quality of the oil show, and the history of production from this zone on the lease, recommend this well be perforated, attempted as an oil completion, and later made into part of the waterflood project.

(I -Zone)

SL 3909-3918 Limestone, light grey, fine crystalline, fossiliferous. Fair
EL 3912-3918 interfossiliferous and intercrystalline porosity. **Fair show dark brown free oil.** Spotted to saturated dark brown oil stain; slight odor. This zone was covered by DST #2. Due to the quality of the oil show, the results of the test, and the history of production from this zone on the lease, recommend this zone be perforated and further tested, and later made part of the waterflood project.

(I-Zone)

SL 3925-3930 Limestone, light buff, very fine crystalline, fossiliferous. Fair
EL 3924-3928 interfossiliferous porosity. **Poor show light brown free oil.** Spotted light brown oil stain; very slight odor. This zone was included in DST #2. Due to the quality of the oil show and test results, recommend this zone be perforated, attempted as an oil completion, and later made part of the waterflood project. Judged this zone to be of no commercial value.

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Geological Formations and Porosity Zones

Drillstem Test #2

3875-3940

Weak increasing to fair blow both flows.

Recovered:

120' Gas in pipe

60' Oil cut mud (12%O, 88%M)

Initial Flow Pressures:

58# to 58# / 15 min.

Initial Shut-In Pressure:

347# / 45 min.

Final Flow Pressures:

69# to 69# / 45 min.

Final Shut-In Pressure:

324# / 45 min.

Initial Hydrostatic Pressure:

1885#

Final Hydrostatic Pressure:

1871#

Bottomhole Temperature:

112 degrees

(J-Zone)

SL 3951-3956

Limestone, white to light buff, fines to medium crystalline, oolitic.

EL 3950-3958

Good interoolitic and oolitic porosity. *Poor show brown live free oil.* Spotted brown oil stain; no odor. Tested this zone. (See DST #3) Due to the test results, recommend this zone be perforated and further tested, and later made part of the water flood project.

Stark

Sample

3968 -1483

E-Log

3968 -1483

Drillstem Test #3

3942-3972

MISRUN - Tool Malfunction

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Geological Formations and Porosity Zones

Drillstem Test #4

Weak increasing blow both flows.

Recovered:

Initial Flow Pressures:

Initial Shut-In Pressure:

Final Flow Pressure:

Final Shut-In Pressure:

Initial Hydrostatic Pressure:

Final Hydrostatic Pressure:

Bottomhole Temperature:

3942-3972

230' Gas in pipe

40' Oil cut mud (5%O, 95%M)

30' Oil & water cut mud

(5%O, 12%W, 83%M)

58# to 69# / 15 min.

243# / 45 min.

69# to 81# / 60 min.

231# / 45 min.

1997#

1971#

121 degrees

(K-Zone)

SL 3978-3986

EL 3982-3984

Limestone, light grey, fine crystalline, oolitic. Fair interoolitic porosity. **No free oil.** Spotted brown live oil stain; slight odor. This zone has been tested in other wells on this lease with negative results. No further testing or recommendations are made for this zone.

(L-Zone)

SL 4014-4018

EL 4014-4016

Limestone, buff to light buff, very fine crystalline, fossiliferous. Poor interfossiliferous porosity. No shows. No odor. Judged this zone to be of no commercial value.

B/Kansas City

Sample 4028 -1543

E-Log 4026 -1541

Rotary Total Depth

4050 -1565

Electric Log Total Depth

4049 -1564

ELI Wireline: GR-N-G-Caliper Log

5 1/2" casing set @ 4048 feet with 200 sacks

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REMARKS and RECOMMENDATIONS

Recommend 5 1/2" casing be run. Perforate the following zones for possible oil producing zones. Upon depletion of these zones convert to a waterflood program.

- | | | |
|----|-------------------|-----------|
| 1. | J Zone | 3950-3958 |
| 2. | Lower I Zone | |
| 3. | Upper I Zone | 3924-3928 |
| 4. | H Zone | 3883-3891 |
| 5. | Paola Lime | 3874-3877 |
| 6. | E Zone | 3812-3815 |
| 7. | Possibly, Toronto | 3708-3710 |

Respectfully submitted,


Jerold E. Jespersen

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