

Computer inventoried

28-10-32W

JEJ

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GEOLOGICAL REPORT

DANE G. HANSEN TRUST  
#1 PECK  
W/2 SW/4 NW/4  
SECTION 28-T10S-R32W  
THOMAS COUNTY, KANSAS

Original

DEC 22 1992

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December 07, 1992

Dane G. Hansen Trust  
#1 Peck  
W/2 SW/4 NW/4  
Section 28-T10S-R32W  
Thomas County, Kansas

Field: Broeckelman Extension  
Elevations: 3074 Kelly Bushing  
3072 Derrick Floor  
3067 Ground Level

Wellsite Geologist: J.E. Jespersen  
Contractor: Chief Drilling Company, Inc.  
Commenced: November 13, 1992  
Completed: November 21, 1992  
Rotary Total Depth: 4690 Feet  
Log Total Depth: 4687 Feet  
Surface Casing: 8-5/8" @ 322' w/200 sacks  
Production Casing: None - D & A  
Electrical Surveys: ELI Wireline: Gamma Ray, Guard Log  
Hole Size: 12-1/4" from surface to 350'  
7-7/8" from 350 to 4690' (RTD)

General Information: Samples saved from 3600-4690' (RTD)  
Drilling time kept from 2550-2650' and  
3600 to 4690' (RTD). Samples examined from  
3600 to 4690' (RTD). Drilling supervised from  
3850' to RTD. Mud up at 3400'.  
Mud type, chemical.

COMMISSION

DEC 22 1992

STATE DIVISION  
REGISTRATION NUMBER

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Formation	LOG TOPS	SAMPLE TOPS	Structural
	Top / Datum	Top / Datum	Comparison
T/Anhydrite	2575 + 499	2581 + 493	3' High
B/Anhydrite	2604 + 470	2610 + 464	2' High
Waubaunsee	3647 - 573	3651 - 577	
Heebner	3992 - 918	3995 - 921	10' Low
Lansing	4038 - 964	4036 - 962	11' Low
Stark	4248 -1174	4253 -1179	13' Low
B/Kansas City	4314 -1240	4322 -1248	7' Low
Pawnee	4449 -1375	4452 -1378	15' Low
Ft Scott	4508 -1434	4510 -1436	12' Low
Cherokee	4540 -1466	4453 -1469	12' Low
Johnson Zone	4586 -1512	4588 -1514	17' Low
Mississippian	Not reached - -	Not reached	65' + Low

Reference Well or Structural Comparison: Abercrombie Drilling Company #2  
Broeckelman, 110' E S/2 S/2 NE/4, Section 29-10S-32W.

#### Chronological History

#### DAILY PENETRATION

Date	Depth	Remarks
11/13/92	-0-	SPUD 9:00 am. Set 8-5/8" @ 338' w/200 sacks. Plug down 5:30 PM.
11/14/92	750	Drilled plug 1:30 AM
11/15/92	2375	Drilling
11/16/92	3185	<u>Anhydrite</u> <u>2581-2610</u>
11/17/92	3680	Drilling
11/18/92	4091	<u>DST #1</u> <u>4175-4245</u>
11/19/92	4245	Drilling
11/20/92	4460	Drilling
11/21/92	4690	RTD - Run ELI Gamma Ray - Guard Log Dry and Abandoned

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Chronological History (Cont'd)

B I T      R E C O R D

No.	Size	Make	Type	Depth Out	Feet	Hours
1	12 1/4		Mill RR	350	350	3 3/4
2	7 7/8	CP	EN 52	4245	3895	102
3	7 7/8	W/M	51CFRR	4690	445	37 3/4

M U D      R E C O R D  
(Mud-Co)

Chk.	Depth	Wt.	Vis	Fil	Ph	PV	YP	Gels	Chlorides	Solids
1	0									
2	3060	9.0	29	N/C	7.0	-	-	-/-	12,000	4.1%
3	3462	8.6	49	9.2	11.0	8.0	19	9/21	2,000	1.7%
4	3690	8.7	45	8.0	10.0	11.0	23	9/21	2,000	2.7%
5	4115	9.0	43	10.4	10.0	9.0	20	9/18	2,200	4.7%
6	4240	9.2	48	9.6	10.0	12.0	23	8/23	2,000	6.1%
7	4460	9.2	45	10.4	10.0	11.0	23	10/20	2,200	6.2%

D R I L L      S T E M      T E S T S  
(Ricketts Testing)

No.	Interval	IFP	ISIP	FFP	FSIP	IHH-FHH
1	4175-4245	27-27/15	912/45	27-32/90	859/45	1955-1944
	Recovered:	270' Gas in pipe				
		10' Clean Gassy Oil				
		85' Oil & gas cut watery mud				

### Geological Formations and Porosity Zones

A detailed lithological log was 3600 feet to 4690 feet (RTD). The following are formation tops, recoveries of drill stem 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.

<b>T/Anhydrite</b>	Sample	2581 + 493
	E-Log	2575 + 499
<b>B/Anhydrite</b>	Sample	2610 + 464
	E-Log	2604 + 470
<b>Wabaunsee</b>	Sample	3651 - 577
	E-Log	3647 - 573
SL 3692-3706	Limestone, white, fine crystalline, slightly chalky. Fair	
EL 3694-3696	intergranular porosity. No shows.	
	Judged this zone to be of no commercial value.	
SL 3719-3735	Limestone, light buff, fine crystalline. Fair to good	
EL 3720-3724	interfossiliferous porosity. No shows.	
	Judged this zone to be of no commercial value.	
<b>Topeka</b>	Sample	3775 - 701
	E-Log	3773 - 699
SL 3786-3819	Limestone, white, fine crystalline, fossiliferous. Slightly	
EL 3773-3778	chalky. Fair interfossiliferous and intergranular porosity.	
	No shows.	
	Judged this zone to be of no commercial value.	
SL 3832-3838	Limestone, light buff, fine crystalline, fossiliferous. Fair	
EL 3830-3834	to good interfossiliferous porosity. No shows.	
	Judged this zone to be of no commercial value.	

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Geological Formations (Cont'd)

SL 3840-3863                    Limestone, white, fine crystalline, fossiliferous, chalky.  
EL 3850-3862                    Good interfossiliferous and vugular porosity. No shows.  
                                  Judged this zone to be of no commercial value.

SL 3918-3924                    Limestone, light buff, fine crystalline, fossiliferous. Fair  
EL 3916-3922                    interfossiliferous porosity. No shows.  
                                  Judged this zone to be of no commercial value.

SL 3954-3964                    Limestone, light buff, fine crystalline, fossiliferous,  
EL 3952-3960                    sucrosic. Good intercrystalline porosity. No shows.  
                                  Judged this zone to be of no commercial value.

SL 3971-3990                    Limestone, white to light buff, fine crystalline,  
EL 3970-3973                    fossiliferous, sucrosic. Good intercrystalline and  
                                  intercrystalline porosity. No shows.  
                                  Judged this zone to be of no commercial value.

Heebner	Sample	3995	-	921
	E-Log	3998	-	918
Toronto	Sample	4016	-	942
	E-Log	4018	-	944

SL 4016-4026                    Limestone, light buff, fine crystalline, fossiliferous,  
EL 4018-4022                    oolitic. Fair interoolitic and interfossiliferous porosity.  
                                  **No free oil. Rare spotted gilsonitic stain.** No odor.  
                                  Judged this zone to be of no commercial value.

Lansing	Sample	4036	-	962
	E-Log	4038	-	964

SL 4041-4056                    (A-Zone)  
EL 4038-4042                    Limestone, light buff to buff, fine crystalline, oolitic,  
                                  fossiliferous. Fair interfossiliferous porosity. **Poor show dark heavy free oil.** Rare spotted brown oil stain; no odor.  
                                  Judged this zone to be of no commercial value.

SL 4070-4078                    (B-Zone)  
EL 4067-4076                    Limestone, white, fine crystalline, fossiliferous. Fair  
                                  interfossiliferous porosity. **Poor show dark brown free oil.**  
                                  Spotted brown to dark brown oil stain; no odor.  
                                  Judged this zone to be of no commercial value.

Geological Formations (Cont'd)

(D-Zone)

SL 4082-4089 Limestone, fine crystalline, fossiliferous. Fair  
EL 4086-4090 interfossiliferous porosity. No shows.  
Judged this zone to be of no commercial value.

SL 4101-4105 Limestone, cream, fine crystalline, fossiliferous. Fair to  
EL 4100-4104 good interfossiliferous porosity. No shows.  
Judged this zone to be of no commercial value.

(E-Zone)

SL 4112-4118 Limestone, buff, fine crystalline, fossiliferous. Fair  
EL 4112-4116 interfossiliferous porosity. **No free oil.** Very rare dark  
brown oil stain; no odor.  
Judged this zone to be of no commercial value.

(F-Zone)

SL 4122-4126 Limestone, light buff, fine crystalline, fossiliferous.  
EL 4120-4124 Fair interfossiliferous porosity. **No free oil.** Rare  
spotted light brown oil stain; no odor.  
Judged this zone to be of no commercial value.

(G-Zone)

SL 4137-4150 Limestone, white to cream, fine crystalline, fossiliferous,  
EL 4137-4147 oolitic. Poor interfossiliferous and interoolitic porosity.  
No shows.  
Judged this zone to be of no commercial value.

Muncie Creek

Sample 4170 -1096  
E-Log 4168 -1094

(H-Zone)

SL 4182-4188 Limestone, buff, fine crystalline, highly fossiliferous.  
EL 4183-4194 Fair interfossiliferous porosity. **Fair show free oil.**  
Spotted to saturated oil stain, slight odor. Tested this  
zone. (See DST#1) Due to the test results, judged this  
zone to be of no commercial value.

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**Geological Formations (Cont'd)**

**(I-zone)**

SL 4214-4218 Limestone, white, fine crystalline, fossiliferous, oolitic.  
EL 4212-4222 Fair interoolitic and interfossiliferous porosity. **Poor show light brown free oil.** Spotted light brown oil stain; no odor. Tested this zone. (See DST #1) Due to the test results, judged this zone to be of no commercial value.

**(J-Zone)**

SL 4236-4241 Limestone, light buff, fine crystalline, fair  
EL 4234-4239 interfossiliferous porosity. **Poor show light brown free oil.** Spotted to saturated light brown oil stain; good odor. Tested this zone. (See DST #1) Due to the test results and structural position of this zone, judged this zone to be of no commercial value.

**Drill Stem Test #1**

**4175-4245**

Weak blow throughout IFF

Weak, bldg to good blow throughout FFP

Recovered:

270' Gas in pipe  
10' Gassy oil/33° API  
85' Oil & Gas Cut  
Watery Mud  
(9%O, 13%G, 27%W, 51%M)  
27# to 27# / 15 min.  
912# / 45 min.  
27# to 32# / 90 min.  
859# / 45 min.  
1955#  
1944#  
128°F.

Initial Flow Pressures:

Initial Shut-In Pressure:

Final Flow Pressures:

Final Shut-In Pressure:

Initial Hydrostatic Pressure:

Final Hydrostatic Pressure:

Bottomhole Temperature:

**Stark Shale**

Sample 4253 -1179  
E-Log 4248 -1174

**(K-Zone)**

SL 4263-4275 Limestone, light grey, fine crystalline, fossiliferous, oolitic. Poor to fair interfossiliferous and interoolitic porosity. No shows.  
EL 4266-4272 Judged this zone to be of no commercial value.

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### Geological Formations (Cont'd)

**Hushpuckney**      Sample 4286 -1212  
                          E-Log 4283 -1209

(L-Zone)

Limestone, white, fine crystalline, chalky. Fair intergranular porosity. No shows. Judged this zone to be of no commercial value.

### Base Kansas City

Sample 4322 -1248  
E-Log 4314 -1240

SL 4368-4374 Limestone, light grey, fine crystalline, fossiliferous,  
EL 4362-4374 oolitic. Poor interoolitic and interfossiliferous porosity.  
No shows.  
Judged this zone to be of no commercial value.

SL 4400-4402 Limestone, buff, fine crystalline, fossiliferous. Poor to  
EL 4400-4402 fair interfossiliferous porosity. **No free oil.** Very rare  
spotted oil stain; no odor.

## Pawnee

Sample 4452 -1378  
E-Log 4449 -1375

SL 4452-4457 Limestone, cream, fine crystalline, sucrosic, cherty. Fair  
EL 4449-4457 intercrystalline porosity. No shows.  
Judged this zone to be of no commercial value.

## Fort Scott

Sample 4510 -1436  
E-Log 4508 -1434

SL 4514-4526 Limestone, buff to tan. Very fine crystalline, oolitic. Poor  
EL 4519-4526 interoolitic porosity. No shows.  
Judged this zone to be of no commercial value.

## Cherokee

Sample 4543 -1469  
E-Log 4540 -1466

### Johnson Zone

Sample 4588 -1514  
E-Log 4586 -1512

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**Geological Formations (Cont'd)**

SL 4590-4598      Limestone, buff, fine crystalline, fossiliferous. Fair  
EL 4586-4594      interfossiliferous porosity. **Poor show heavy sticky free oil.**  
                    Rare spotted dark oil stain; no odor.  
                    Judged this zone to be of no commercial value.

SL 4602-4611      Limestone, buff, crystalline, fossiliferous. Poor vugular  
EL 4600-4604      porosity. **Rare show dark brown sticky heavy free oil.** Rare  
                    spotted oil stain; no odor.

Base Cherokee Lime	Sample	4634	-1560
	E-Log	4636	-1562

SL 4646-4654      Sandstone, grey, poorly sorted, tight. Poor to fair  
EL 4645-4652      intergranular porosity. No shows.  
                    Judged this zone to be of no commercial value.

SL 4654-4690      Shale, vari-colored (green, grey, yellow and brown). Mottled,  
EL 4662-4687      argillaceous. No Mississippian.  
                    Judged this zone to be of no commercial value.

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ROTARY TOTAL DEPTH	4690	-1616
ELECTRIC LOG TOTAL DEPTH	4687	-1613
ELI WIRELINE SERVICE:      GammaRay, Neutron, Guard Log		
Dry and Abandoned		

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W/2 SW/4 NW/4  
Sec 28-Twp10S-Rge32W  
Thomas County, Kansas

KB: 3074'  
TD: 4690'

Remarks and Recommendations

Structurally this well ran 10 feet low to  
Abercrombie's #2 Broeckelman, located 1/4 mile west  
of this location.

Due to the structural position the quality of oil  
shows and the results from the DST, it is  
recommended this well be plugged and abandoned.

Respectfully submitted,

J.E. Jespersen