

Computer Invented

JEJ

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KCC

APR 5 1994

Geological Report

D.G. HANSEN TRUST
WEBER #16
SW/4 NE/4 SE/4
1740' FSL and 900' FEL
SECTION 30-T3S-R23W
NORTON COUNTY, KANSAS
API #15-137-20391

D.G. Hansen Trust
Weber #16

J.E. Jespersen
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August 18, 1993

D. G. Hansen Trust
Weber #16
SW NE SE (1740' FSL & 900' FEL)
Section 30-T3S-R23W
Norton County, Kansas
API #15-137-20391

Field:	Norton Field
Elevations:	2463 Kelly Bushing 2460 Derrick Floor 2456 Ground Level
Wellsite Geologist:	J.E. Jespersen
Contractor:	Chief Drilling, Inc.
Commenced:	August 6, 1993
Completed:	August 14, 1993
Rotary Total Depth:	3840 Feet
Log Total Depth:	3837 Feet
Surface Casing:	8 5/8" @ 285' with 190 sacks
Production Casing:	5 1/2" @ 3839' with 450 sacks
Electrical Surveys:	Eli Wireline: Gamma Ray, Neutron Guard, Caliper
Hole Size:	12 1/4" from surface to 288' 7 7/8" from 285' to 3840' (RTD)
General Information:	Samples saved from 3300 to 3840' (RTD). Drilling time kept from 2000-2100' and 3300 to 3840' (RTD). Samples examined from 3400 to 3840' (RTD). Drilling supervised from 3350 feet to RTD. Mud up at 3200'. Mud type, Chemical.

RECEIVED
STATE OF KANSAS
OCT 27 1993

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WILLIAMSON

D.G. Hansen Trust
Weber #16

J.E. Jespersen
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Formation	LOG TOPS	SAMPLE TOPS	Structural Comparison
	Top / Datum	Top / Datum	
T/Anhydrite	2055 + 408	2058 + 405	Flat
B/Anhydrite	2085 + 378	2089 + 374	Flat
Heebner	3508 -1045	3513 -1050	5' High
Toronto	3535 -1072	3538 -1075	2' High
Lansing	3548 -1085	3553 -1090	5' High
B/Kansas City	3726 -1263	3730 -1267	8' High
Arbuckle	3786 -1323	3788 -1325	2' High
Quartzite Sd	3814 -1351	3818 -1355	Flat
Quartzite Wash	3820 -1357	3823 -1360	Flat

Reference Well or Structural Comparison: D.G. Hansen Trust #11 Weber, NE NE SE, 30-3S-23W, northeast offset.

Note: Pipe strap at 3792' was 1.07' short to the board.

Chronological History

DAILY PENETRATION

Date	Depth	Remarks
8/6/93	0	Spud 12:30 PM. Set 8 5/8" @ 285' with 190 sacks. Plug down 4:00 PM 8/6/93
8/9	570	Drill plug 3:00 AM 8/9/93
8/10	2260	Drilling
8/11	3065	Drilling
8/12	3545	Drilling
8/13	3792	<u>DST #1 3768-3792</u>
8/14	3840	<u>RTD 6:00 AM.</u> Ran ELI Gamma Ray, Neutron, Guard, Caliper 5 1/2" set @ 3839' with 450 sacks

STATE OF OREGON
DEPARTMENT OF GEOLOGY

DEC 27 1993

CONSERVATION DIVISION
RECORDS SECTION

Chronological History (Cont'd)

B I T R E C O R D

No.	Size	Make	Type	Depth Out	Feet	Hours
S	12 1/4"	??	RR	285	285	2
2	7 7/8"	SEC	S-83FRR	3840	3555	89

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	2471	9.4	28	NC	7.0	-	-	- / -	2,000	7.6%
3	3220	8.8	43	11.2	11.0	7	23	10/24	1,000	2.8%
4	3550	9.2	42	10.2	10.5	9	22	8/21	1,000	6.1%
5	3790	9.4	45	9.6	10.0	8	17	6/20	1,000	7.6%

Chronological History (Cont'd)

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	3768-3792 Recovered:	108-129/15 15' Oil 31' SOCM (8%O, 92%M) 62' SOCWM 62' Oil specked with 1% oil, 99% water	806/60	64-75/60	487/60	1826-1816

Geological Formations and Porosity Zones

A detailed lithological log was maintained from 3400 feet to 3840 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.

T/Anhydrite	Sample	2058 + 405
	E-Log	2055 + 408
B/Anhydrite	Sample	2089 + 374
	E-Log	2085 + 378
Topeka	Sample	-- --
	E-Log	3364 - 901

SL 3450-3454	Limestone, light buff, fine crystalline, slightly chalky. Poor intergranular porosity. Judged this zone to be of no commercial value.	No shows.
EL 3442-3448		

Geological Formations and Porosity Zones (Cont'd)

SL 3484-3488	Limestone, white to light grey, fine crystalline,	
EL 3476-3484	fossiliferous. Poor to fair interfossiliferous porosity. No shows.	
	Judged this zone to be of no commercial value.	
	Heebner	Sample 3513 -1050
		E-Log 3508 -1045
	Toronto	Sample 3538 -1075
		E-Log 3535 -1072
	Lansing	Sample 3553 -1090
		E-Log 3548 -1085
SL 3553-3556	Limestone, white, fine crystalline, fair interfossiliferous	
EL 3548-3550	and vugular porosity. <i>Poor show heavy, sticky dark brown free oil.</i> Spotted dark brown oil stain; no odor.	
	Judged this zone to be of no commercial value.	
SL 3580-3583	Limestone, white, fine crystalline, fossiliferous, fair	
EL 3575-3579	interfossiliferous and vugular porosity. <i>Fair show brown live gassy free oil.</i> Spotted dark brown oil stain; no odor.	
	Judged this zone to be of no commercial value.	
SL 3593-3600	Limestone, white, fine crystalline, fossiliferous, poor	
EL 3587-3589	interfossiliferous porosity. <i>No free oil.</i> Scattered light brown oil stains; no odor.	
	Judged this zone to be of no commercial value.	
SL 3622-3626	Limestone, white, fine crystalline, fossiliferous,	
EL 3623-3626	interfossiliferous porosity. <i>No free oil</i> Poor show light brown oil stain; no odor.	
	Judged this zone to be of no commercial value.	

SL	3660-3664	Limestone, white fine crystalline, fossiliferous, slightly
EL	3654-3656	chalky. Fair to good interfossiliferous porosity. <i>Poor show brown live free oil.</i> Spotted brown oil stain; no odor. Judged this zone to be of no commercial value.
SL	3690-3693	Limestone, white, fine crystalline, fossiliferous. Fair
EL	3681-3683	interfossiliferous porosity. <i>Poor show light brown free oil.</i> Spotted brown oil stain. No odor. Judged this zone to be of no commercial value.
SL	3702-3704	Limestone, white, fine crystalline, fossiliferous. Fair
EL	3700-3702	interfossiliferous porosity. <i>No free oil.</i> Rare spotted light brown oil stain; no odor. Judged this zone to be of no commercial value.
SL	3722-3726	Limestone, white, fine crystalline, fossiliferous. Poor to
EL	3712-3717	fair interfossiliferous porosity. <i>No free oil.</i> Spotted light brown oil stain; no odor. Judged this zone to be of no commercial value.
	Base Kansas City	Sample 3730 -1267
		E-Log 3726 -1263
SL	3764-3767	Limestone, white to light grey, fine crystalline. Grenaceous.
EL	3764-3768	(medium to coarse subrounded sand grains) Fair intercrystalline and intergranular porosity. <i>Fair show dark brown free oil.</i> Spotted dark brown oil stain; slight odor. Judged this zone to be of no commercial value.
	Arbuckle	Sample 3788 -1325
		E-Log 3786 -1323

Geological Formations and Porosity Zones (Cont'd)

SL 3788-3792 Dolomite, light grey, fine to medium crystalline, sucrosic,
EL 3786-3790 good intercrystalline porosity. *Good show brown live free
oil.* Saturated brown oil stain; good odor. Tested this
zone. (See DST #1) Recommend this zone be perforated and
further tested.

DrillStem Test #1

3768-3792

Weak steady blow throughout
both flow periods
Recovered:

15' clean oil
31' slightly oil cut mud
(8% O, 92% M)
62' slightly oil cut
watery mud
(5%O, 56%M, 39%W)
62' oil specked water
(1%O, 99%W)

Initial Flow Pressures:

108# to 129#
(partial plugging/15 min.)

Initial Shut-In Pressure:

806# / 60 min.

Final Flow Pressures:

64# to 75# / 60 min.

Final Shut-In Pressure:

487# / 60 min.

Initial Hydrostatic Pressure:

1826#

Final Hydrostatic Pressure:

1816#

Bottomhole Temperature:

125 degrees

SL 3792-3808 Dolomite, light grey, fine to medium crystalline, sucrosic.
EL 3790-3802 Fair intercrystalline porosity. *Fair show brown live free
oil.* Spotted to saturated brown oil stain; good odor. This
is a continuation of the zone 3788 to 3792 and is not
recommended for any further testing nor to be perforated.

Geological Formations and Porosity Zones (Cont'd)

	Quartzite Sand	Sample	3818 -1355
		E-Log	3814 -1351
SL 3818-3823	Sand, quartzite, clear. Poorly sorted subround with hornblend. Tight. Poor intergranular porosity. No shows. Judged this zone to be of no commercial value.		
EL 3814-3820			
	Granite Wash	Sample	3823 -1360
		E-Log	3820 -1357
SL 3823-3840	Granite, pink, feldspars, quartz, hornblend, weathered. No shows. Judged this zone to be of no commercial value.		
EL 3820-3837			

ROTARY TOTAL DEPTH 3840 -1377

ELECTRIC LOG TOTAL DEPTH 3837 -1374

ELI Wireline Service: Gamma Ray, Neutron Guard, Caliper logs

5 1/2" casing run and set at 3839 feet with 450 sacks

D.G. Hansen Trust
Weber #16
SW NE SE, 30-3S-23W

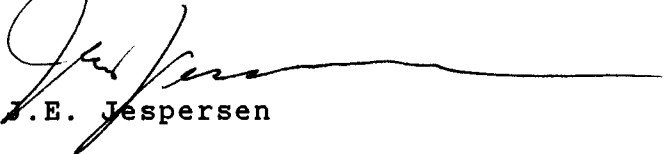
Elevation: 2463' KB
Total Depth: 3840'
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Remarks and Recommendations

Due to the favorable structural position and the results of DrillStem Test #1 (3768-3792), recommend 5 1/2" casing be run and perforate the Arbuckle 3787 to 3789 feet to complete as an Arbuckle producer.

No other zones are recommended for any further testing.

Respectfully submitted,



J.E. Jespersen

COMPANY D.C. Hansen FARM Weber WELL NO. 16
 REC. TWP. R.R. LOC. 100 COUNTY Mocton STATE KS
 CONTRACTOR Chief SIZE HOLE 7 7/8 DRILL PIPE 4 1/2 x 4
 REMARKS: SIZE PUMP LINES 6 LENGTH STROKE 14

DATE	DEPTH	TIME OF LOG	MIN.	REMARKS
	10	10	1	
	11	11	1	
	12	12	1	
	13	13	1	
	14	14	1	
	15	15	1	
	16	16	1	
	17	17	1	
	18	18	1	
	19	19	1	
	20	20	1	Conn
	21	21	1	
	22	22	1	
	23	23	1	
	24	24	1	
	25	25	1	
	26	26	1	
	27	27	1	
	28	28	1	
	29	29	1	
	30	30	1	
	31	31	1	
	32	32	1	
	33	33	1	
	34	34	1	
	35	35	1	
	36	36	1	
	37	37	1	
	38	38	1	
	39	39	1	
	40	40	1	
	41	41	1	
	42	42	1	
	43	43	1	
	44	44	1	Conn
	45	45	1	

REMARKS:

DEPTH	TIME OF LOG	MIN.	REMARKS
46	46	1	
47	47	1	
48	48	1	
49	49	1	
50	50	1	
51	51	1	
52	52	1	
53	53	1	
54	54	1	
55	55	1	
56	56	1	
57	57	1	
58	58	1	
59	59	1	
60	60	1	
61	61	1	
62	62	1	
63	63	1	
64	64	1	
65	65	1	
66	66	1	
67	67	1	
68	68	1	
69	69	1	
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71	71	1	
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75	75	1	
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89	89	1	
90	90	1	
91	91	1	
92	92	1	
93	93	1	
94	94	1	
95	95	1	
96	96	1	
97	97	1	
98	98	1	
99	99	1	
100	100	1	

REMARKS:

COMPANY Hansen Trust FARM Weber WELL NO. 16
 REC. TWP. R.R. LOC. 100 COUNTY Mocton STATE KS
 CONTRACTOR Chief SIZE HOLE 7 7/8 DRILL PIPE 4 1/2 x 4
 REMARKS: SIZE PUMP LINES 6 LENGTH STROKE 14

API#15-137-20391

DATE	DEPTH	TIME OF LOG	MIN.	REMARKS
	10	10	1	
	11	11	1	
	12	12	1	
	13	13	1	
	14	14	1	
	15	15	1	
	16	16	1	
	17	17	1	
	18	18	1	
	19	19	1	
	20	20	1	
	21	21	1	
	22	22	1	
	23	23	1	
	24	24	1	
	25	25	1	
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	28	28	1	
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	39	39	1	
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	41	41	1	
	42	42	1	
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	44	44	1	
	45	45	1	
	46	46	1	
	47	47	1	
	48	48	1	
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	94	94	1	
	95	95	1	
	96	96	1	
	97	97	1	
	98	98	1	
	99	99	1	
	100	100	1	

REMARKS:

DEPTH	TIME OF LOG	MIN.	REMARKS
10	10	1	
11	11	1	
12	12	1	
13	13	1	
14	14	1	
15	15	1	
16	16	1	
17	17	1	
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40	40	1	
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44	44	1	
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47	47	1	
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94	94	1	
95	95	1	
96	96	1	
97	97	1	
98	98	1	
99	99	1	
100	100	1	

REMARKS:

DATE	DEPTH	TIME OF LOG	MIN.	REMARKS
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	94	94	1	
	95	95	1	
	96	96	1	
	97	97	1	
	98	98	1	
	99	99	1	
	100	100	1	

COMPANY D.G. Hanna Trust FARM Weber WELL NO. 16
 SEC. TWP. RNE. LOC. COUNTY Norton STATE KS
 CONTRACTOR Chief Drilling Inc. SIZE HOLE 7 7/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6" LENGTH STROKE 14"

DATE	DEPTH	TIME O'CLOCK	MIN.	REMARKS
8-12-93	01	1:14	3	
	24	5		
	28	4		
	32	4		
	37	5		
	41	4		
	45	4		
	48	3		
	53	5		
	58	5		
	11:09	5		
	09	6		
	14	6		
	19	5		
	22	3		
	25	3		
	28	2		
	30	4		
	34	4		
	39	5		
	44	5		
	49	5		
	53	4		
	57	4		
	12:01	4		
	04	3		
	07 1/2	3 1/2		
	10 1/2	3		
	12 1/2	2		
	14	1 1/2		
	17	3		
	20	3		Coal
	24	4		
	31	4		
	35 1/2	4 1/2		
	39	4 1/2		
	44	5		
	48	4		
	52	4		Vis 40" Wt 9.2
	57	5		
	1:01	4		
	06	5		
	09	3		
	14	5		
	19	5		
	23	4		
	26	3		
	30	4		
	33	3		
	36	3		
	39	3		

REMARKS:

DATE	DEPTH	TIME O'CLOCK	MIN.	REMARKS
8-12-93	51	4 1/2		
	55	4 1/2		
	57	4		
	55	2:01	4	
	06	5		
	10	4		
	14	4		
	18	4		
	22	4		
	26	4		Canin
	30	2		
	35	3		
	39	4		
	45	6		
	50	5		
	55	5		
	3:01	6		
	05	4		
	10	5		
	14	4		
	17 1/2	3 1/2		
	20	2 1/2		
	23	3		
	25 1/2	3 1/2		
	29 1/2	3		
	32	3 1/2		
	36 1/2	4 1/2		
	41 1/2	5		
	46	4 1/2		
	50	4		
	53 1/2	3 1/2		
	56 1/2	3		
	4:01	4 1/2		
	06	5		
	09	3		
	13 1/2	4 1/2		
	18 1/2	5		
	22 1/2	4		
	27	4 1/2		
	30	3		
	33 1/2	3 1/2		
	38 1/2	5		
	43	4 1/2		Can
	45 1/2	3		
	50 1/2	4 1/2		Vis 41" Wt 9.4
	05	4 1/2		
	09	4		
	12	3		
	16	4		

SIZE PUMP LINERS 6" LENGTH STROKE 14"

COMPANY D.G. Hanna Trust FARM Weber WELL NO. 16
 SEC. TWP. RNE. LOC. COUNTY Norton STATE KS
 CONTRACTOR Chief Drilling Inc. SIZE HOLE 7 7/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6" LENGTH STROKE 14"

DATE	DEPTH	TIME O'CLOCK	MIN.	REMARKS
8-12-93 P.M.	01	5:14	2 1/2	
	21	2 1/2		
	25	4		
	28	3		
	32 1/2	5 1/2		
	38	4 1/2		
	42	4		
	46 1/2	4 1/2		
	51 1/2	5		
	57	5 1/2		
	60 1/2	4 1/2		
	05 1/2	4		
	08 1/2	3		
	12	3		
	15	3		
	18 1/2	3 1/2		
	22	3 1/2		
	25	3		
	28 1/2	3 1/2		
	31 1/2	3		
	34 1/2	3		
	38	3 1/2		
	42	4		
	46	4		Can
	50 1/2	3		
	54 1/2	3 1/2		
	58 1/2	5		
	07	5 1/2		
	13	6		
	17	4		
	20	3		
	22	2		
	24	2		
	26	2		
	28	2		
	30	2		
	32 1/2	1 1/2		
	34 1/2	1 1/2		
	36 1/2	1 1/2		
	38 1/2	1 1/2		
	41	2 1/2		
	42 1/2	1 1/2		
	43 1/2	1		
	45	1 1/2		
	46	1		
	48	2		
	50 1/2	1 1/2		
	52 1/2	1 1/2		
	54 1/2	1 1/2		

DATE	DEPTH	TIME O'CLOCK	MIN.	REMARKS
8-12-93	51	7:57	4 1/2	
	05	8		
	07	2		
	09	2		Can
	14	1 1/2		
	18	2		Vis 43 Wt 9.4
	20	2		
	22	2		
	23 1/2	1 1/2		
	27	3 1/2		
	31	4		
	35	4		
	39	4		
	42	3		
	46	4		
	50	4		
	55	5		
	58	3		
	7:02	4		
	06	4		
	9 1/2	3 1/2		
	13	3 1/2		
	16	3		
	19 1/2	3 1/2		
	22	2 1/2		
	26	4		
	30	4		
	34 1/2	4 1/2		
	39	4 1/2		
	43 1/2	4 1/2		
	48 1/2	5		
	54	5 1/2		
	58	4		
	10:02	4		Vis 44
	11:18	3		
	22	4		
	25	3		Vis 45
	26	1		Wt 9.5
	27	1		CFS
	43 1/2	2		CFS - DST #1
	44 1/2	2		
	50	3		
	53	3		
	57	4		
	1:01	4		
	04	3		
	07	3		
	10	3		

DATE	DEPTH	TIME O'CLOCK	MIN.	REMARKS
8-12-93	01	1:10	3	
	16	3		CFS
	20	3		
	22	4		
	26	4		
	29	3		
	35	3		
	34	2		
	37	3		
	40	3		
	44	4		
	47	3		CFS
	50	3		
	52	2		
	54	2		hook up
	56	2		
	58	2		
	01	2		
	7	3		
	9	2		
	11 1/2	2 1/2		
	14	2 1/2		
	16	2		
	19	3		
	21	2		
	23	2		
	26	3		
	28	2		
	30	2		
	31 1/2	1 1/2		
	33	1 1/2		
	35 1/2	2 1/2		CFS
	37 1/2	2		
	41	2		
	43	2		
	45 1/2	2 1/2		
	47	1 1/2		
	49	2		
	52	3		
	54	4		CFS
	50			

DATE	DEPTH	TIME O'CLOCK	MIN.	REMARKS
8-12-93	51			
	60			

WABCO INC.
 155 N. Market, Suite 1050
 Wichita, Kansas 67202
 (316) 264-2814
 WAREHOUSES
 Colby, Kansas
 (316) 482-7377
 Pratt, Kansas
 (316) 672-0887

9253	9295	9281	9330	9258	9357
9360	9210	9308	9354	9290	9303
9261	9329	9256	9325	9292	9327
9302	9347	9358	9334	9296	9308
9260	9364	9315	9298	9218	9242
464.36	465.95	465.18	466.41	465.54	465.57

9262	9277
9284	9397
9259	186.47
9384	
9333	
465.22	

3442.00
 105.55
 3847.55
 31.78
 3815.77

BORRO 3816.84
 STRAP 3815.77
 1.07

MUD-LOG INC.

155 North Market, Suite 1050, Wichita, KS 67202, 316-264-2814

DRILLING MUD REPORT		REPORT NO. 1	
DATE	WELL NO.	STATE	COUNTY
8-11-82	14	KS	Wichita
OPERATOR: Harcos Trust		CONTRACTOR: CHICE	
ADDRESS: 14 W. 1st		REPORT FOR: W. 1st	
WELL NAME AND NO.: 14 W. 1st		FIELD OR BLOCK NO.: 14	
PRESENT ACTIVITY: Drilling		CIRCUIT DATA: 14	
BIT SIZE (IN): 8 1/2		PUMP MAKE: 6-0-14	
DRILL PIPE SIZE (IN): 4 1/2		PUMP SIZE: 14	
DRILL COLLAR SIZE (IN): 4 1/2		PUMP MAKE: 6-0-14	
MUD TYPE: Chemical		PUMP SIZE: 14	
MUD VOLUME (BBL): 100		PUMP MAKE: 6-0-14	
TOTAL CIRCULATING VOLUME: 100		PUMP SIZE: 14	
MUD PROPERTIES: 8.0-9.3		PUMP MAKE: 6-0-14	
DAILY COST: 4.13		PUMP SIZE: 14	
CUMULATIVE COST: 8.13		PUMP MAKE: 6-0-14	
MUD PROPERTIES SPECIFICATIONS:		PUMP SIZE: 14	
WEIGHT: 8.0-9.3		PUMP MAKE: 6-0-14	
VISCOSITY: 14		PUMP SIZE: 14	
FILTRATE: 14		PUMP MAKE: 6-0-14	
BY AUTHORITY: OPERATOR'S WRITTEN		PUMP SIZE: 14	
OPERATOR'S REPRESENTATIVE: OTHER		PUMP MAKE: 6-0-14	
MATERIALS RECOMMENDED:		PUMP SIZE: 14	
SUGGEST: Drill off for 100' water		PUMP MAKE: 6-0-14	
WITH NATURAL SALT & WATER		PUMP SIZE: 14	
JIT OFFER TO KEEP WT. LOW		PUMP MAKE: 6-0-14	
8.0-9.3 4/4		PUMP SIZE: 14	
POSSIBLE ADDS: 100'		PUMP MAKE: 6-0-14	
DANGER: 100'		PUMP SIZE: 14	
LEAK: 100'		PUMP MAKE: 6-0-14	
HAVE TANK READY		PUMP SIZE: 14	
4 AM IT HAS ODDS		PUMP MAKE: 6-0-14	
MUD ON HAND/USED:		PUMP SIZE: 14	
1/2-2/3 Premium Gel		PUMP MAKE: 6-0-14	
1/2-2/3 Soda Ash		PUMP SIZE: 14	
1/2-2/3 Caustic Soda		PUMP MAKE: 6-0-14	
1/2-2/3 Super Lig		PUMP SIZE: 14	
1/2-2/3 Dens		PUMP MAKE: 6-0-14	
1/2-2/3 PAC		PUMP SIZE: 14	
1/2-2/3 Co-Polymer		PUMP MAKE: 6-0-14	
1/2-2/3 P-10L		PUMP SIZE: 14	
1/2-2/3 D. Detergent		PUMP MAKE: 6-0-14	

MUD-LOG INC.

155 North Market, Suite 1050, Wichita, KS 67202, 316-264-2814

DRILLING MUD REPORT		REPORT NO. 2	
DATE	WELL NO.	STATE	COUNTY
8-10-82	14	KS	Wichita
OPERATOR: Harcos Trust		CONTRACTOR: CHICE	
ADDRESS: 14 W. 1st		REPORT FOR: W. 1st	
WELL NAME AND NO.: 14 W. 1st		FIELD OR BLOCK NO.: 14	
PRESENT ACTIVITY: Drilling		CIRCUIT DATA: 14	
BIT SIZE (IN): 8 1/2		PUMP MAKE: 6-0-14	
DRILL PIPE SIZE (IN): 4 1/2		PUMP SIZE: 14	
DRILL COLLAR SIZE (IN): 4 1/2		PUMP MAKE: 6-0-14	
MUD TYPE: Chemical		PUMP SIZE: 14	
MUD VOLUME (BBL): 100		PUMP MAKE: 6-0-14	
TOTAL CIRCULATING VOLUME: 100		PUMP SIZE: 14	
MUD PROPERTIES: 8.0-9.3		PUMP MAKE: 6-0-14	
DAILY COST: 4.24		PUMP SIZE: 14	
CUMULATIVE COST: 12.37		PUMP MAKE: 6-0-14	
MUD PROPERTIES SPECIFICATIONS:		PUMP SIZE: 14	
WEIGHT: 8.0-9.3		PUMP MAKE: 6-0-14	
VISCOSITY: 14		PUMP SIZE: 14	
FILTRATE: 14		PUMP MAKE: 6-0-14	
BY AUTHORITY: OPERATOR'S WRITTEN		PUMP SIZE: 14	
OPERATOR'S REPRESENTATIVE: OTHER		PUMP MAKE: 6-0-14	
MATERIALS RECOMMENDED:		PUMP SIZE: 14	
SUGGEST: Drill with natural salt & water		PUMP MAKE: 6-0-14	
Mud wt. 8.0-9.3 4/4		PUMP SIZE: 14	
Mud-4.4 Approx 3200'		PUMP MAKE: 6-0-14	
Have wt. down		PUMP SIZE: 14	
11' Tank		PUMP MAKE: 6-0-14	
80 SPS WATER		PUMP SIZE: 14	
8 SPS SOD ASH		PUMP MAKE: 6-0-14	
6 SPS CAUSTIC		PUMP MAKE: 6-0-14	
THROUGH TANK 1/4		PUMP MAKE: 6-0-14	
1 SK LSPATE		PUMP MAKE: 6-0-14	
Rena Viscosity 40-44 4/4		PUMP MAKE: 6-0-14	
30-40 SPS WATER		PUMP MAKE: 6-0-14	
30-40 SPS 170 P. 40		PUMP MAKE: 6-0-14	
THROUGH 1/4		PUMP MAKE: 6-0-14	
MUD ON HAND/USED:		PUMP MAKE: 6-0-14	
1/2-2/3 Premium Gel		PUMP MAKE: 6-0-14	
1/2-2/3 Soda Ash		PUMP MAKE: 6-0-14	
1/2-2/3 Caustic Soda		PUMP MAKE: 6-0-14	
1/2-2/3 Super Lig		PUMP MAKE: 6-0-14	
1/2-2/3 Dens		PUMP MAKE: 6-0-14	
1/2-2/3 PAC		PUMP MAKE: 6-0-14	
1/2-2/3 Co-Polymer		PUMP MAKE: 6-0-14	
1/2-2/3 P-10L		PUMP MAKE: 6-0-14	
1/2-2/3 D. Detergent		PUMP MAKE: 6-0-14	

MUD-LOG INC.

155 North Market, Suite 1050, Wichita, KS 67202, 316-264-2814

DRILLING MUD REPORT		REPORT NO. 3	
DATE	WELL NO.	STATE	COUNTY
8-11-82	14	KS	Wichita
OPERATOR: Harcos Trust		CONTRACTOR: CHICE	
ADDRESS: 14 W. 1st		REPORT FOR: W. 1st	
WELL NAME AND NO.: 14 W. 1st		FIELD OR BLOCK NO.: 14	
PRESENT ACTIVITY: Drilling		CIRCUIT DATA: 14	
BIT SIZE (IN): 8 1/2		PUMP MAKE: 6-0-14	
DRILL PIPE SIZE (IN): 4 1/2		PUMP SIZE: 14	
DRILL COLLAR SIZE (IN): 4 1/2		PUMP MAKE: 6-0-14	
MUD TYPE: Chemical		PUMP SIZE: 14	
MUD VOLUME (BBL): 100		PUMP MAKE: 6-0-14	
TOTAL CIRCULATING VOLUME: 100		PUMP SIZE: 14	
MUD PROPERTIES: 8.0-9.4		PUMP MAKE: 6-0-14	
DAILY COST: 4.84		PUMP SIZE: 14	
CUMULATIVE COST: 17.21		PUMP MAKE: 6-0-14	
MUD PROPERTIES SPECIFICATIONS:		PUMP SIZE: 14	
WEIGHT: 8.0-9.4		PUMP MAKE: 6-0-14	
VISCOSITY: 40-44		PUMP SIZE: 14	
FILTRATE: 10-12		PUMP MAKE: 6-0-14	
BY AUTHORITY: OPERATOR'S WRITTEN		PUMP SIZE: 14	
OPERATOR'S REPRESENTATIVE: OTHER		PUMP MAKE: 6-0-14	
MATERIALS RECOMMENDED:		PUMP SIZE: 14	
SUGGEST: Control wt. 8.0-9.4 4/4		PUMP MAKE: 6-0-14	
V. 40-44 sepp - 40 SPS water		PUMP MAKE: 6-0-14	
40 SPS gel for vis		PUMP MAKE: 6-0-14	
100' as needed		PUMP MAKE: 6-0-14	
No chemical treatment		PUMP MAKE: 6-0-14	
is needed		PUMP MAKE: 6-0-14	
Keep hole full - pipe moving		PUMP MAKE: 6-0-14	
MUD ON HAND/USED:		PUMP MAKE: 6-0-14	
1/2-2/3 Premium Gel		PUMP MAKE: 6-0-14	
1/2-2/3 Soda Ash		PUMP MAKE: 6-0-14	
1/2-2/3 Caustic Soda		PUMP MAKE: 6-0-14	
1/2-2/3 Super Lig		PUMP MAKE: 6-0-14	
1/2-2/3 Dens		PUMP MAKE: 6-0-14	
1/2-2/3 PAC		PUMP MAKE: 6-0-14	
1/2-2/3 Co-Polymer		PUMP MAKE: 6-0-14	
1/2-2/3 P-10L		PUMP MAKE: 6-0-14	
1/2-2/3 D. Detergent		PUMP MAKE: 6-0-14	

MUD-LOG INC.

155 North Market, Suite 1050, Wichita, KS 67202, 316-264-2814

DRILLING MUD REPORT		REPORT NO. 4	
DATE	WELL NO.	STATE	COUNTY
8-12-82	14	KS	Wichita
OPERATOR: Harcos Trust		CONTRACTOR: CHICE	
ADDRESS: 14 W. 1st		REPORT FOR: W. 1st	
WELL NAME AND NO.: 14 W. 1st		FIELD OR BLOCK NO.: 14	
PRESENT ACTIVITY: Drilling		CIRCUIT DATA: 14	
BIT SIZE (IN): 8 1/2		PUMP MAKE: 6-0-14	
DRILL PIPE SIZE (IN): 4 1/2		PUMP SIZE: 14	
DRILL COLLAR SIZE (IN): 4 1/2		PUMP MAKE: 6-0-14	
MUD TYPE: Chemical		PUMP SIZE: 14	
MUD VOLUME (BBL): 100		PUMP MAKE: 6-0-14	
TOTAL CIRCULATING VOLUME: 100		PUMP SIZE: 14	
MUD PROPERTIES: 8.0-9.4		PUMP MAKE: 6-0-14	
DAILY COST: 4.92		PUMP SIZE: 14	
CUMULATIVE COST: 22.13		PUMP MAKE: 6-0-14	
MUD PROPERTIES SPECIFICATIONS:		PUMP SIZE: 14	
WEIGHT: 8.0-9.4		PUMP MAKE: 6-0-14	
VISCOSITY: 40-44		PUMP SIZE: 14	
FILTRATE: 10-12		PUMP MAKE: 6-0-14	
BY AUTHORITY: OPERATOR'S WRITTEN		PUMP SIZE: 14	
OPERATOR'S REPRESENTATIVE: OTHER		PUMP MAKE: 6-0-14	
MATERIALS RECOMMENDED:		PUMP SIZE: 14	
SUGGEST: Run water at sample		PUMP MAKE: 6-0-14	
box for 8.0-9.4 mud wt		PUMP MAKE: 6-0-14	
Viscosity 40-44 sepp		PUMP MAKE: 6-0-14	
add over 40 SPS water		PUMP MAKE: 6-0-14	
18 hrs. gel to thicken		PUMP MAKE: 6-0-14	
No chemical treatment		PUMP MAKE: 6-0-14	
Thanks for doing a good job.		PUMP MAKE: 6-0-14	
MUD ON HAND/USED:		PUMP MAKE: 6-0-14	
1/2-2/3 Premium Gel		PUMP MAKE: 6-0-14	
1/2-2/3 Soda Ash		PUMP MAKE: 6-0-14	
1/2-2/3 Caustic Soda		PUMP MAKE: 6-0-14	
1/2-2/3 Super Lig		PUMP MAKE: 6-0-14	
1/2-2/3 Dens		PUMP MAKE: 6-0-14	
1/2-2/3 PAC		PUMP MAKE: 6-0-14	
1/2-2/3 Co-Polymer		PUMP MAKE: 6-0-14	
1/2-2/3 P-10L		PUMP MAKE: 6-0-14	
1/2-2/3 D. Detergent		PUMP MAKE: 6-0-14	

MUD-80 INC.

155 North Market, Suite 1050 Wichita, KS 67202 316-264-2814

OPERATOR		ADDRESS		REPORT NO.		DATE		WELL NO.		STATE		COUNTY		WELL		BT	
G. Hansen Trust		Chick		1		8-13-93		3292		KS		Morton		16		23	
REPORT NO. 16		WELL NAME 16		FIELD NO. 16		BLOCK NO. 16		SECTION NO. 16		TOWNSHIP NO. 16		RANGE NO. 16		ACRES NO. 16		ACRES NO. 16	
OPERATION		CIRCUIT DATA		PUMP DATA		CIRCUIT DATA		PUMP DATA		CIRCUIT DATA		PUMP DATA		CIRCUIT DATA		PUMP DATA	
FRESH WATER		TOTAL CIRCULATING VOLUME		PUMP MAKE		TOTAL CIRCULATING VOLUME		PUMP MAKE		TOTAL CIRCULATING VOLUME		PUMP MAKE		TOTAL CIRCULATING VOLUME		PUMP MAKE	
875 gal		647		6.0		647		6.0		647		6.0		647		6.0	
DRILL PIPE 1/2" TYPE		STROKE/REV		CIRCUITING		STROKE/REV		CIRCUITING		STROKE/REV		CIRCUITING		STROKE/REV		CIRCUITING	
4 1/2"		80		30.0		4 1/2"		80		30.0		4 1/2"		80		30.0	
DRILL COLLAR 1/2" TYPE		STROKE/REV		CIRCUITING		STROKE/REV		CIRCUITING		STROKE/REV		CIRCUITING		STROKE/REV		CIRCUITING	
6 1/2"		80		30.0		6 1/2"		80		30.0		6 1/2"		80		30.0	
MUD TYPE		MUD PROPERTIES		DAILY COST		MUD TYPE		MUD PROPERTIES		DAILY COST		MUD TYPE		MUD PROPERTIES		DAILY COST	
Chick		2.2		2.2		Chick		2.2		2.2		Chick		2.2		2.2	
Time Sample Taken		MUD PROPERTIES SPECIFICATIONS		MATERIALS RECOMMENDED		Time Sample Taken		MUD PROPERTIES SPECIFICATIONS		MATERIALS RECOMMENDED		Time Sample Taken		MUD PROPERTIES SPECIFICATIONS		MATERIALS RECOMMENDED	
Depth (ft)		WEIGHT		VISCOSITY		Depth (ft)		WEIGHT		VISCOSITY		Depth (ft)		WEIGHT		VISCOSITY	
3792		2.2		4.5		3792		2.2		4.5		3792		2.2		4.5	
Mud Gradient (psi/ft)		BY AUTHORITY		OPERATOR'S REPRESENTATIVE		Mud Gradient (psi/ft)		BY AUTHORITY		OPERATOR'S REPRESENTATIVE		Mud Gradient (psi/ft)		BY AUTHORITY		OPERATOR'S REPRESENTATIVE	
5.88		G. Hansen Trust		G. Hansen Trust		5.88		G. Hansen Trust		G. Hansen Trust		5.88		G. Hansen Trust		G. Hansen Trust	
Plastic Viscosity (cP) at 100 rpm		MATERIALS RECOMMENDED		MATERIALS RECOMMENDED		Plastic Viscosity (cP) at 100 rpm		MATERIALS RECOMMENDED		MATERIALS RECOMMENDED		Plastic Viscosity (cP) at 100 rpm		MATERIALS RECOMMENDED		MATERIALS RECOMMENDED	
17		Room any bridges going		Room any bridges going		17		Room any bridges going		Room any bridges going		17		Room any bridges going		Room any bridges going	
Gel Strength (lb/100 sq ft) 10 sec/10 min		back to bottom		back to bottom		Gel Strength (lb/100 sq ft) 10 sec/10 min		back to bottom		back to bottom		Gel Strength (lb/100 sq ft) 10 sec/10 min		back to bottom		back to bottom	
6.0		When on bottom raise		When on bottom raise		6.0		When on bottom raise		When on bottom raise		6.0		When on bottom raise		When on bottom raise	
pH (5-10)		4.5 to 4.8-5.2 sec/96		4.5 to 4.8-5.2 sec/96		pH (5-10)		4.5 to 4.8-5.2 sec/96		4.5 to 4.8-5.2 sec/96		pH (5-10)		4.5 to 4.8-5.2 sec/96		4.5 to 4.8-5.2 sec/96	
7.0		with gel in p.i. mud premix		with gel in p.i. mud premix		7.0		with gel in p.i. mud premix		with gel in p.i. mud premix		7.0		with gel in p.i. mud premix		with gel in p.i. mud premix	
Solids Content (% by Vol)		18 to 20 gel		18 to 20 gel		Solids Content (% by Vol)		18 to 20 gel		18 to 20 gel		Solids Content (% by Vol)		18 to 20 gel		18 to 20 gel	
70		(should be plenty)		(should be plenty)		70		(should be plenty)		(should be plenty)		70		(should be plenty)		(should be plenty)	
Water Content (% by Vol)		Mud wt 94 % gel		Mud wt 94 % gel		Water Content (% by Vol)		Mud wt 94 % gel		Mud wt 94 % gel		Water Content (% by Vol)		Mud wt 94 % gel		Mud wt 94 % gel	
42.7		100% only, if loss		100% only, if loss		42.7		100% only, if loss		100% only, if loss		42.7		100% only, if loss		100% only, if loss	
L.C.M. # 101		B.T. Sec 5-23-F 3812		B.T. Sec 5-23-F 3812		L.C.M. # 101		B.T. Sec 5-23-F 3812		B.T. Sec 5-23-F 3812		L.C.M. # 101		B.T. Sec 5-23-F 3812		B.T. Sec 5-23-F 3812	
Preservative # 101		MUD ON HAND/USED		MUD ON HAND/USED		Preservative # 101		MUD ON HAND/USED		MUD ON HAND/USED		Preservative # 101		MUD ON HAND/USED		MUD ON HAND/USED	
1		Premium Gel		Premium Gel		1		Premium Gel		Premium Gel		1		Premium Gel		Premium Gel	
2		Soda Ash		Soda Ash		2		Soda Ash		Soda Ash		2		Soda Ash		Soda Ash	
3		Caustic Soda		Caustic Soda		3		Caustic Soda		Caustic Soda		3		Caustic Soda		Caustic Soda	
4		Super Lig		Super Lig		4		Super Lig		Super Lig		4		Super Lig		Super Lig	
5		Dye		Dye		5		Dye		Dye		5		Dye		Dye	
6		PAC		PAC		6		PAC		PAC		6		PAC		PAC	
7		Co-Polymer		Co-Polymer		7		Co-Polymer		Co-Polymer		7		Co-Polymer		Co-Polymer	
8		P-10L		P-10L		8		P-10L		P-10L		8		P-10L		P-10L	
9		Detergent		Detergent		9		Detergent		Detergent		9		Detergent		Detergent	

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSIDERED AS AUTHORIZING THE IMPROVEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY MUD-80, INC. ON THE PARTS AND STATEMENTS OF OTHERS ONLY.

REPRESENTATIVE: David Johnson PHONE ADDRESS: Wichita, KS TELEPHONE: 316-264-2814

WAREHOUSE LOCATION: Wichita, KS TELEPHONE: 316-264-2814

DATE		Ricketts Testing, Inc.		NO	
8-13-93		Testing, Inc.		1756	
30 JUN 3 23		P.O. Box 251			
LEGAL DESCRIPTION: <u>SUNNYE</u>		WELLINGTON, KANSAS 67182		Phone (316) 326-5830	
COMPANY: <u>Dave G. Hansen Trust</u>		ADDRESS: <u>PO Box 187</u>		STATE: <u>KS</u>	
LEASE: <u>Wichita</u>		WELL NO.: <u>16</u>		COUNTY: <u>Morton</u>	
INVOICES SENT TO: <u>same</u>		DRY COPIES SENT TO: <u>same</u>			
GENERAL INFORMATION					
TOOL JOINT: <u>9 1/2" HOLE SIZE</u>		PACKER: <u>7 1/2"</u>		PACKER: <u>6 3/4"</u>	
BLV: <u>3768</u>		TOTAL DEPTH: <u>3792</u>		TOTAL DEPTH: <u>3792</u>	
TESTED FROM: <u>3768</u>		TO: <u>3792</u>		TO: <u>3792</u>	
ANCHOR LENGTH BELOW: <u>24</u>		ANCHOR LENGTH: <u>24</u>		ANCHOR LENGTH: <u>24</u>	
TOOL OPEN: <u>5:20 P.M.</u>		TOOL OPEN: <u>5:20 P.M.</u>		TOOL OPEN: <u>5:20 P.M.</u>	
TIME STARTED OFF BOTTOM: <u>8:35 P.M.</u>		TIME STARTED OFF BOTTOM: <u>8:35 P.M.</u>		TIME STARTED OFF BOTTOM: <u>8:35 P.M.</u>	
DRILL CONT: <u>1</u>		DRILL CONT: <u>1</u>		DRILL CONT: <u>1</u>	
TYPE OF MUD: <u>Water</u>		TYPE OF MUD: <u>Water</u>		TYPE OF MUD: <u>Water</u>	
MUD WT: <u>94</u>		VISCOSITY: <u>4.5</u>		VISCOSITY: <u>4.5</u>	
CHLORIDE: <u>1000</u>		GRAVITY: <u>1.0</u>		GRAVITY: <u>1.0</u>	
LENGTH DRILL COLLAR: <u>1</u>		LENGTH DRILL COLLAR: <u>1</u>		LENGTH DRILL COLLAR: <u>1</u>	
SUCCESSFUL TEST NO.: <u>1</u>		SUCCESSFUL TEST NO.: <u>1</u>		SUCCESSFUL TEST NO.: <u>1</u>	
CHECKER: TOP: <u>34</u>		CHECKER: TOP: <u>34</u>		CHECKER: TOP: <u>34</u>	
PRESSURE DATA & TIME					
INITIAL HYDROSTATIC: <u>1826</u>		INITIAL HYDROSTATIC: <u>1826</u>		INITIAL HYDROSTATIC: <u>1826</u>	
INITIAL FLOW: <u>108</u>		INITIAL FLOW: <u>108</u>		INITIAL FLOW: <u>108</u>	
INITIAL SHUT-IN: <u>129</u>		INITIAL SHUT-IN: <u>129</u>		INITIAL SHUT-IN: <u>129</u>	
FINAL FLOW: <u>64</u>		FINAL FLOW: <u>64</u>		FINAL FLOW: <u>64</u>	
FINAL SHUT-IN: <u>487</u>		FINAL SHUT-IN: <u>487</u>		FINAL SHUT-IN: <u>487</u>	
FINAL HYDROSTATIC: <u>1816</u>		FINAL HYDROSTATIC: <u>1816</u>		FINAL HYDROSTATIC: <u>1816</u>	
TOOL OPEN: INITIAL FLOW: <u>15</u>		TOOL OPEN: INITIAL FLOW: <u>15</u>		TOOL OPEN: INITIAL FLOW: <u>15</u>	
INITIAL SHUT-IN: <u>60</u>		INITIAL SHUT-IN: <u>60</u>		INITIAL SHUT-IN: <u>60</u>	
FINAL FLOW: <u>60</u>		FINAL FLOW: <u>60</u>		FINAL FLOW: <u>60</u>	
FINAL SHUT-IN: <u>60</u>		FINAL SHUT-IN: <u>60</u>		FINAL SHUT-IN: <u>60</u>	
TOP RECORDED NO.: <u>13266</u>		TOP RECORDED NO.: <u>13266</u>		TOP RECORDED NO.: <u>13266</u>	
BOTTOM RECORDED NO.: <u>13265</u>		BOTTOM RECORDED NO.: <u>13265</u>		BOTTOM RECORDED NO.: <u>13265</u>	
TYPE: <u>IF-Well Blowdown</u>					
RECOVER: <u>15' CLEAN OIL</u>					
31' 511 OIL CUT MUD 8% OIL 92% MUD					
62' 511 OIL CUT WATERY MUD 5% OIL 39% H ₂ O 56% M					
62' OIL SPECKLED WATER 1% OIL 99% H ₂ O					

EXTRA EQUIPMENT		RICKETTS TESTING		TEST CHARGE	
APPROVED BY: <u>David Johnson</u>		RICKETTS TESTING		TEST CHARGE	
TESTER: <u>David Johnson</u>		FORMATION TESTED: <u>15' CLEAN OIL</u>		EXTRA PACKERS: <u>1</u>	
OPERATOR TIME: <u>Thank you</u>		OPERATOR TIME: <u>Thank you</u>		SAFETY JOINT: <u>1</u>	
				MUD CHARGE: <u>1</u>	
				STAND-BY CHARGE: <u>1</u>	
				STRAIGHT: <u>1</u>	
				CIRCULATING MUD: <u>1</u>	
				RELEASE: <u>1</u>	
				TOTAL: <u>1</u>	