

15-109-20554

19-12s-33w

Computer Inventoried

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JUL 20 1993

Geological Report

DANE G. HANSEN TRUST
Beckman #1
SW/4 SW/4 SE/4
Section 19-T12S-R33W
LOGAN COUNTY, KANSAS

RECEIVED

JUN 29 1993

DANE G. BALES

RECEIVED
STATE CORPORATION COMMISSION
JUN 29 1993
CONSERVATION DIVISION
Wichita, Kansas

Dane G. Hansen Trust
Beckman #1

J.E. Jespersen
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June 01, 1993

Dane G. Hansen Trust
Beckman #1
SW/4 SW/4 SE/4
Section 19-T12S-R33W
Logan County, Kansas

Field:	Wildcat
Elevations:	3170 Kelly Bushing 3167 Derrick Floor 3163 Ground Level
Wellsite Geologist:	J.E. Jespersen
Contractor:	Chief Drilling Inc.
Commenced:	May 15, 1993
Completed:	May 25, 1993
Rotary Total Depth:	4850 Feet
Log Total Depth:	4848 Feet
Surface Casing:	8 5/8" @ 261' with 160 sacks
Production Casing:	None - Dry & Abandoned
Electrical Surveys:	ELI Wireline - Gamma Ray-Neutron-Guard Log
Hole Size:	12 1/4" from surface to 261' 7 7/8" from 261' to 4850' (RTD)
General Information:	Samples saved from 3400 to 4850' (RTD). Drilling time kept from 2600-2700' and 3400 to 4850' (RTD). Samples examined from 3800 to 4850' (RTD). Drilling supervised from 3950 feet to RTD. Mud up at 3500'. Mud type, Chemical.

Formation	LOG TOPS		SAMPLE TOPS		Structural Comparison
	Top	/ Datum	Top	/ Datum	
T/Anhydrite	2634	+ 536	2637	+ 533	13' High
B/Anhydrite	2656	+ 514	2657	+ 513	14' High
Topeka	3818	- 648	3818	- 648	Flat
Heebner	4054	- 884	4057	- 887	9' High
Lansing	4094	- 924	4099	- 929	10' High
Stark	4332	- 1162	4335	-1165	8' High
B/Kansas City	4400	- 1230	4403	-1233	6' High
Pawnee	4524	- 1354	4527	-1357	11' High
Fort Scott	4582	- 1412	4589	-1419	13' High
Cherokee	4610	- 1440	4616	-1446	13' High
Johnson Zone	4654	- 1484	4666	-1496	14' High
Mississippian	4726	- 1556	4748	-1578	24' High

Reference Well or Structural Comparison: Chief Drilling #1 Bertrand, NE/4 SW/4 NW/4, Section 20-12S-33W.

Note: Pipe strap @ 4160' was 2.16' short to the board.

Chronological History

DAILY PENETRATION

Date	Depth	Remarks
5/15/93	- 0 -	Spud 9:30 AM - Set 8 5/8" @ 261' w/160 sacks. Plug down 3:00 PM. Drilled plug 11:00 PM
5/16/93	895	Drilling
5/17/93	2196	<u>Anhydrite</u> 2637-2657
5/18/93	2890	Drilling
5/19/93	3448	Drilling
5/20/93	3820	Drilling
5/21/93	4140	<u>DST #1</u> 4145-4160
5/22/93	4270	<u>DST #2</u> 4294-4355
5/23/93	4407	Drilling
5/24/93	4655	<u>DST #3</u> 4670-4715
5/25/93	4795	RTD @ Noon - ELI LOG: Gamma Ray, Neutron, Guard
5/26/93	4850	DRY and ABANDONED

Chronological History (Cont'd)

 B I T R E C O R D

<u>No.</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>Depth Out</u>	<u>Feet</u>	<u>Hours</u>
S	12 1/4	???	RT	261	261	3
1	7 7/8	WM	51CF	4355	4094	136 1/4
2	7 7/8	CP RR	EH 527B	4715	360	31 3/4
3	7 7/8	WM RR#2	51CF	4850	135	<u>12 1/2</u>
						183 1/2

 M U D R E C O R D

(Mud-Co)

<u>Chk.</u>	<u>Depth</u>	<u>WT</u>	<u>Vis</u>	<u>Fil</u>	<u>Ph</u>	<u>PV</u>	<u>YP</u>	<u>Gels</u>	<u>Chlorides</u>	<u>Solids</u>
1	160	9.4	36	--	--	--	--	-/-	400	-
2	2947	9.7	29	--	7.0	--	--	-/-	59,000	6.3
3	3550	8.6	39	11.2	10.5	7	13	5/12	5,000	1.7
4	3820	8.9	40	11.2	10.0	7	16	5/17	7,000	3.8
5	4140	9.1	45	12.8	9.0	11	23	7/20	10,000	5.1
6	4275	9.1	46	11.2	10.0	10	27	-/-	9,500	5.0
7	4420	9.1	46	13.6	9.5	10	32	11/29	11,000	4.8
8	4654	9.3	46	12.0	9.0	11	25	11/22	10,000	6.3
9	4800	9.3	47	12.8	8.5	13	28	14/27	12,000	6.1

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	4145-4160 Recovered:	21-21/15 5' Mud	1220/45	21/21/15	1177/45	1944-1933
2	4296-4355 Recovered:	162-205/15 186' Muddy Water 1395' Saltwater	1125/45	270-497/60	902/455	2062-2051
3	4670-4715 Recovered:	32-32/15 10' Slightly Oil Cut Muddy Water 114' Muddy Water	1093/45	32-54/90	1019/45	2267-2256

Geological Formations and Porosity Zones

A detailed lithological log was maintained from 3800 feet to 4850 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	2637 + 533
	E-Log	2634 + 536
B/Anhydrite	Sample	2657 + 513
	E-Log	2656 + 514
Topeka	Sample	3818 - 648
	E-Log	3818 - 648

Geological Formations and Porosity Zones (Cont'd)

SL 3830-3836 Limestone, light buff, fine crystalline, fossiliferous.
EL 3830-3836 Fair interfossiliferous porosity. No shows.
Judged this zone to be of no commercial value.

SL 3858-3868 Limestone, light buff, fine crystalline, fossiliferous.
EL 3864-3867 Fair interfossiliferous porosity. No shows.
Judged this zone to be of no commercial value.

SL 3893-3908 Limestone, cream to light buff. Fine crystalline.
EL 3894-3906 Fossiliferous, cherty. Fair interfossiliferous and
intercrystalline porosity. No shows.

SL 3923-3931 Limestone, white, fine crystalline, fossiliferous. Slightly
EL 3924-3930 chalky. Fair interfossiliferous and intergranular porosity.
No shows.
Judged this zone to be of no commercial value.

SL 3945-3962 Limestone, cream to white, very fine crystalline.
EL 3946-3964 Fossiliferous, chalky, good intergranular porosity.
No shows.
Judged this zone to be of no commercial value.

SL 3972-3980 Limestone, light buff, fine crystalline, sucrosic. Fair
EL 3976-3978 intercrystalline porosity. No shows.
Judged this zone to be of no commercial value.

SL 4011-4024 Limestone, buff, fine to very fine crystalline, oolitic.
EL 4013-4022 Fair interoolitic porosity. No shows.
Judged this zone to be of no commercial value.

SL 4031-4037 Limestone, buff. Very fine crystalline, oolitic. Poor to
EL 4030-4033 fair interoolitic porosity. No shows.
Judged this zone to be of no commercial value.

Heebner Sample 4057 - 887
E-Log 4054 - 884

Toronto Sample 4083 - 913
E-Log 4079 - 909

Geological Formations and Porosity Zones (Cont'd)

SL 4083-4097 Limestone, white to cream, crystalline, dense. No visible
EL 4079-4087 porosity. No shows.
Judged this zone to be of no commercial value.

Lansing Sample 4099 - 929
E-Log 4094 - 924

(A-Zone)

SL 4101-4113 Limestone, cream, very fine crystalline, oolitic, chalky.
EL 4100-4110 Poor intergranular porosity. No shows.
Judged this zone to be of no commercial value.

(B-Zone)

SL 4126-4138 Limestone, cream, fine crystalline, fossiliferous, slightly
EL 4124-4130 chalky. Poor to fair interfossiliferous and intergranular
porosity. No shows.
Judged this zone to be of no commercial value.

(D-Zone)

SL 4150-4156 Limestone, light grey, fine crystalline, fossiliferous.
EL 4140-4145 Poor to fair interfossiliferous porosity. *Poor to fair show
dark brown live free oil.* Spotted to saturated oil stain;
slight odor. Tested this zone. (See DST #1) Due to the
recovery of the test, judged this zone to be of no
commercial value.

Drill Stem Test #1

4145-4160

Weak blow throughout Initial Flow Period.

No blow Final Flow Period.

Recovered:

5' Mud

Initial Flow Pressures:

21# to 21# / 15 min.

Initial Shut-In Pressure:

1220# / 45 min.

Final Flow Pressures:

21# to 21# / 15 min.

Final Shut-In Pressure:

1177# / 45 min.

Initial Hydrostatic Pressure:

1944#

Final Hydrostatic Pressure:

1933#

Bottomhole Temperature:

114 Degrees

Geological Formations and Porosity Zones (Cont'd)

	Hushpuckney	Sample	4367 -1197
		E-Log	4364 -1194
	(L-Zone)		
SL 4366-4377	Limestone, light buff, fine crystalline, fossiliferous,		
EL 4368-4371	Cherty. Fair intercrystalline and interfossiliferous porosity. No shows.		
	Judged this zone to be of no commercial value.		
	Base Kansas City	Sample	4403 -1233
		E-Log	4400 -1230
	Marmaton	Sample	4434 -1264
		E-Log	4435 -1265
SL 4438-4449	Limestone, white to grey, fine crystalline, slightly chalky.		
EL 4436-4438	Poor intergranular porosity. No shows.		
	Judged this zone to be of no commercial value.		
SL 4480-4489	Limestone, light buff, fine crystalline, fossiliferous,		
EL 4478-4483	oolitic. Poor interfossiliferous and interoolitic porosity. <i>No free oil.</i> Very rare spotted dark brown oil stain; no odor.		
	Pawnee	Sample	4527 -1357
		E-Log	4524 -1354
SL 4530-4534	Limestone, light grey, very fine crystalline, fossiliferous,		
EL 4524-4528	oolitic. Fair to poor interfossiliferous porosity. <i>Very rare show brown live free oil.</i> Very rare spotted oil stain (2 pieces). No odor.		
	Judged this zone to be of no commercial value.		
	Fort Scott	Sample	4589 -1419
		E-Log	4582 -1412
SL 4590-4593	Limestone, buff to tan, very fine crystalline, oolitic.		
EL 4582-4586	Poor interoolitic porosity. No shows.		
	Judged this zone to be of no commercial value.		

Chronological Formations and Porosity Zones (Cont'd)

	Cherokee	Sample	4616 -1446
		E-Log	4610 -1440
SL 4624-4627	Limestone, grey, very fine crystalline, cherty. Poor		
EL 4624-4632	intercrystalline porosity. No shows. No odor.		
	Judged this zone to be of no commercial value.		
	Johnson Zone	Sample	4666 -1496
		E-Log	4654 -1484
SL 4677-4700	Limestone, buff, very fine crystalline, fossiliferous. Poor		
EL 4674-4680	interoolitic porosity. No free oil. Rare spotted light		
	brown oil stain; no odor. Tested this zone. (See DST #3)		
	Due to the test results, judged this zone to be of no		
	commercial value.		

Drillstem Test #3

4670-4715

Weak blow throughout both flow periods

Recovered:

10' Slightly oil cut
muddy water

114' Muddy water

Initial Flow Pressures: 32# to 32# / 15 min.

Initial Shut-In Pressure: 1093# / 45 min.

Final Flow Pressures: 32# to 54# / 90 min.

Final Shut-in Pressure: 1019# / 45 min.

Initial Hydrostatic Pressure: 2267#

Final Hydrostatic Pressure: 2256#

Bottomhole Temperature: 130 Degrees

Mississippian

Sample 4748 -1578

E-Log 4726 -1556

No zones of porosity encountered in the Mississippian section.

Rotary Total depth 4850 (-1680)

Electric Log Total Depth 4848 (-1678)

ELI Wireline: Gamma Ray - Neutron - Guard Caliper Log

DRY and ABANDONED

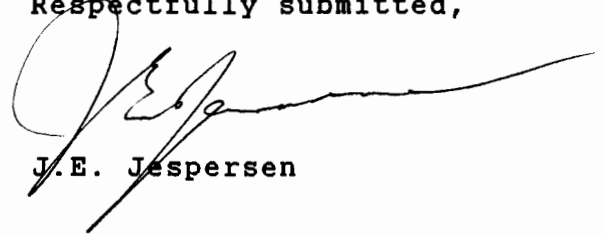
Remarks and Recommendations

This well ran structurally high throughout the entire section.

All potential zones of porosity that carried oil shows were drillstem tested resulting in negative results. See Drillstem tests #1, 2 & 3.

No other zones merit any further testing.
Recommend this well be plugged and abandoned.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'J.E. Jespersen', with a long horizontal flourish extending to the right.

J.E. Jespersen

COMPANY Hansen Trust FARM Beckman WELL NO. 1
 REC. TWP. R06 R06 LOC. COUNTY Logan STATE KS
 CONTRACTOR Chief Drilling SIZE HOLE _____ DRILL PIPE _____
 REMARKS: SIZE PUMP LINERS 6 LENGTH STROKE 14

COMPANY D.C. Hansen FARM Beckman WELL NO. 2
 SEC. TWP. R06 R06 LOC. COUNTY Logan STATE KS
 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2 SIZE PUMP LINERS 6 LENGTH STROKE 14

CIRCLE M DRILLING, INC. 913-075-3023
 Box 128
 Oberlin, Kansas 67749 PAGE NO. _____

DATE 5-17-99 A.M.

DEPTH	TIME	REMARKS
03	03 1/2	
04	04 1/2	
05	05 1/2	
06	06 1/2	
07	07 1/2	
08	08 1/2	
09	09 1/2	
10	10 1/2	
11	11 1/2	
12	12 1/2	
13	13 1/2	
14	14 1/2	
15	15 1/2	
16	16 1/2	
17	17 1/2	
18	18 1/2	
19	19 1/2	
20	20 1/2	
21	21 1/2	
22	22 1/2	
23	23 1/2	
24	24 1/2	
25	25 1/2	
26	26 1/2	
27	27 1/2	
28	28 1/2	
29	29 1/2	
30	30 1/2	
31	31 1/2	
32	32 1/2	
33	33 1/2	
34	34 1/2	
35	35 1/2	
36	36 1/2	
37	37 1/2	
38	38 1/2	
39	39 1/2	
40	40 1/2	
41	41 1/2	
42	42 1/2	
43	43 1/2	
44	44 1/2	
45	45 1/2	
46	46 1/2	
47	47 1/2	
48	48 1/2	
49	49 1/2	
50	50 1/2	
51	51 1/2	
52	52 1/2	
53	53 1/2	
54	54 1/2	
55	55 1/2	
56	56 1/2	
57	57 1/2	
58	58 1/2	
59	59 1/2	
60	60 1/2	

DEPTH	TIME	REMARKS
35	35 4	
36	36 4	
37	37 4	
38	38 4	
39	39 4	
40	40 3	
41	41 5	
42	42 3	2658
43	43 1	
44	44 1	
45	45 1	
46	46 1	
47	47 1	
48	48 1	
49	49 1	
50	50 1	
51	51 1/2	conn. Rig
52	52 1/2	
53	53 1/2	
54	54 1/2	
55	55 1/2	
56	56 1/2	
57	57 1/2	
58	58 1/2	
59	59 1/2	
60	60 1/2	
61	61 1/2	
62	62 1/2	
63	63 1/2	
64	64 1/2	
65	65 1/2	
66	66 1/2	
67	67 1/2	
68	68 1/2	
69	69 1/2	
70	70 1/2	
71	71 1/2	
72	72 1/2	
73	73 1/2	
74	74 1/2	
75	75 1/2	
76	76 1/2	
77	77 1/2	
78	78 1/2	
79	79 1/2	
80	80 1/2	
81	81 1/2	
82	82 1/2	
83	83 1/2	
84	84 1/2	
85	85 1/2	
86	86 1/2	
87	87 1/2	
88	88 1/2	
89	89 1/2	
90	90 1/2	
91	91 1/2	
92	92 1/2	
93	93 1/2	
94	94 1/2	
95	95 1/2	
96	96 1/2	
97	97 1/2	
98	98 1/2	
99	99 1/2	
100	100 1/2	

DEPTH	TIME	REMARKS
21	21 5	Displace
22	22 4	
23	23 4	
24	24 4	
25	25 4	
26	26 4	
27	27 4	
28	28 4	
29	29 4	
30	30 4	
31	31 4	
32	32 4	
33	33 4	
34	34 4	
35	35 4	
36	36 4	
37	37 4	
38	38 4	
39	39 4	
40	40 4	
41	41 4	
42	42 4	
43	43 4	
44	44 4	
45	45 4	
46	46 4	
47	47 4	
48	48 4	
49	49 4	
50	50 4	
51	51 4	
52	52 4	
53	53 4	
54	54 4	
55	55 4	
56	56 4	
57	57 4	
58	58 4	
59	59 4	
60	60 4	
61	61 4	
62	62 4	
63	63 4	
64	64 4	
65	65 4	
66	66 4	
67	67 4	
68	68 4	
69	69 4	
70	70 4	
71	71 4	
72	72 4	
73	73 4	
74	74 4	
75	75 4	
76	76 4	
77	77 4	
78	78 4	
79	79 4	
80	80 4	
81	81 4	
82	82 4	
83	83 4	
84	84 4	
85	85 4	
86	86 4	
87	87 4	
88	88 4	
89	89 4	
90	90 4	
91	91 4	
92	92 4	
93	93 4	
94	94 4	
95	95 4	
96	96 4	
97	97 4	
98	98 4	
99	99 4	
100	100 4	

DEPTH	TIME	REMARKS
51	51 5	
52	52 5	
53	53 5	
54	54 5	
55	55 5	
56	56 5	
57	57 5	
58	58 5	
59	59 5	
60	60 5	
61	61 5	
62	62 5	
63	63 5	
64	64 5	
65	65 5	
66	66 5	
67	67 5	
68	68 5	
69	69 5	
70	70 5	
71	71 5	
72	72 5	
73	73 5	
74	74 5	
75	75 5	
76	76 5	
77	77 5	
78	78 5	
79	79 5	
80	80 5	
81	81 5	
82	82 5	
83	83 5	
84	84 5	
85	85 5	
86	86 5	
87	87 5	
88	88 5	
89	89 5	
90	90 5	
91	91 5	
92	92 5	
93	93 5	
94	94 5	
95	95 5	
96	96 5	
97	97 5	
98	98 5	
99	99 5	
100	100 5	

DATE 5-19-93 P.M.

DEPTH	TIME	REMARKS
5:05	5:09	4
01	11	2
02	12	2
03	13	2
04	14	2
05	15	2
06	16	2
07	17	2
08	18	2
09	19	2
10	20	2
11	21	2
12	22	2
13	23	2
14	24	2
15	25	2
16	26	2
17	27	2
18	28	2
19	29	2
20	30	2
21	31	2
22	32	2
23	33	2
24	34	2
25	35	2
26	36	2
27	37	2
28	38	2
29	39	2
30	40	2
31	41	2
32	42	2
33	43	2
34	44	2
35	45	2
36	46	2
37	47	2
38	48	2
39	49	2
40	50	2
41	51	2
42	52	2
43	53	2
44	54	2
45	55	2
46	56	2
47	57	2
48	58	2
49	59	2
50	60	2
51	61	2
52	62	2
53	63	2
54	64	2
55	65	2
56	66	2
57	67	2
58	68	2
59	69	2
60	70	2
61	71	2
62	72	2
63	73	2
64	74	2
65	75	2
66	76	2
67	77	2
68	78	2
69	79	2
70	80	2
71	81	2
72	82	2
73	83	2
74	84	2
75	85	2
76	86	2
77	87	2
78	88	2
79	89	2
80	90	2
81	91	2
82	92	2
83	93	2
84	94	2
85	95	2
86	96	2
87	97	2
88	98	2
89	99	2
90	100	2

DEPTH	TIME	REMARKS
7:43	46	3
51	50	4
52	51	4
53	52	4
54	53	4
55	54	4
56	55	4
57	56	4
58	57	4
59	58	4
60	59	4
61	60	4
62	61	4
63	62	4
64	63	4
65	64	4
66	65	4
67	66	4
68	67	4
69	68	4
70	69	4
71	70	4
72	71	4
73	72	4
74	73	4
75	74	4
76	75	4
77	76	4
78	77	4
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80	79	4
81	80	4
82	81	4
83	82	4
84	83	4
85	84	4
86	85	4
87	86	4
88	87	4
89	88	4
90	89	4
91	90	4
92	91	4
93	92	4
94	93	4
95	94	4
96	95	4
97	96	4
98	97	4
99	98	4
100	99	4

DEPTH	TIME	REMARKS
27	27	3
28	28	3
29	29	3
30	30	3
31	31	3
32	32	3
33	33	3
34	34	3
35	35	3
36	36	3
37	37	3
38	38	3
39	39	3
40	40	3
41	41	3
42	42	3
43	43	3
44	44	3
45	45	3
46	46	3
47	47	3
48	48	3
49	49	3
50	50	3
51	51	3
52	52	3
53	53	3
54	54	3
55	55	3
56	56	3
57	57	3
58	58	3
59	59	3
60	60	3
61	61	3
62	62	3
63	63	3
64	64	3
65	65	3
66	66	3
67	67	3
68	68	3
69	69	3
70	70	3
71	71	3
72	72	3
7		

COMPANY D.C. Hanson FARM Beckman WELL NO. 2
 SEC. TWP RGE LOC COUNTY Logan STATE KS
 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2 x 5 SIZE PUMP LINERS 6 LENGTH STROKE 14

COMPANY Hanson Trust FARM Beckman WELL NO. 2
 SEC. TWP RGE LOC COUNTY Logan STATE KS
 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2 x 5 SIZE PUMP LINERS 6 LENGTH STROKE 14

CIRCLE M DRILLING, INC. 713-475-2823
 Box 128 Oberlin, Kansas 67469

CIRCLE M DRILLING, INC. 713-475-2823
 Box 128 Oberlin, Kansas 67469

DATE 5-20-93 AM PAGE NO. _____

DEPTH	ROD	LOG	ACTUAL TIME	REMARKS
01	27	30	3	V.S 39
02		33	3	wt. 9.1
03		35	2	
04		38	3	
05		41	3	
06		44	3	
07		47	3	
08		50	3	
09		53	3	
10		56	3	
11		58	3	
12		6:01	3	
13		6:04	3	
14		6:12	3	
15		9:3	3	
16		12:3	3	CONN
17	616	18	2	
18		21	3	
19		25 1/2	4 1/2	
20		29	3 1/2	
21		32 1/2	3 1/2	
22		36	3 1/2	
23		40	4	
24		45 1/2	5 1/2	
25		49	3 1/2	
26		54	5	
27		59	5	
28		7:03	4	
29		08	5	
30		12	4	
31		16	4	
32		19	3	
33		22	3	
34		25	3	
35		28	3	
36		32	4	
37		36	4	
38		40	4	
39		44	4	
40		47	3 1/2	
41		51	4	
42		56	5	
43		8:01	5	
44		06	5	
45		10	4	
46		14	4	
47		18	4	
48		22	4	CONN
49	28	26	2	
38	30	4		

DATE 5-20-93 AM PAGE NO. _____

DEPTH	ROD	LOG	ACTUAL TIME	REMARKS
01	11:29	31	2	
02		34	3	
03		36	2	
04		38	2	
05		41	3	
06		43	2	
07		46	3	
08		48 1/2	2 1/2	
09		51	2 1/2	CONN
10	59	5:03	4	Fill PREMIX
11		06	3	
12		09	3	
13		12	3	
14		15	3	
15		17	2	
16		20	3	
17		22	2	
18		25	3	
19		27	2	
20		29	2	
21		32	3	
22		35	3	
23		39	4	
24		42	3	
25		44	2	
26		46	2	
27		48 1/2	2 1/2	
28		51	2 1/2	
29		53	2	
30		55	2	
31		57	2	
32		1:01	4	
33		04	3	
34		08	4	
35		11	3	
36		13	2	
37		16	3	
38		23	7	
39		30 1/2	7 1/2	Vis 4 1/2 wt 9.1
40		36	5 1/2	
41		39	3	CONN
42	41	43	2	
43		46	3	
44		49	3	
45		53	4	
46		56 1/2	3 1/2	
47		59	2 1/2	
48		62 1/2	2 1/2	
49		64	2 1/2	
39	06	2		

DATE _____ PAGE NO. _____

DEPTH	ROD	LOG	ACTUAL TIME	REMARKS
01	5:03	29	6	
02		36	7	
03		48	6	
04		47	5	CONN. Int. hole in 1 pit
05	5:59	57 1/2	3 1/2	Add Mud
06		6:01	3 1/2	
07		05	4	Vis 4.1 wt 9.2
08		11	6	
09		17	6	
10		22 1/2	5 1/2	
11		27	6 1/2	
12		31	2	
13		33	2	
14		36	3	
15		38 1/2	2 1/2	
16		40 1/2	2	
17		42	1 1/2	
18		43	1	
19		44	1	
20		45 1/2	1 1/2	
21		48	2 1/2	
22		49	1	
23		51	2	
24		54	3	
25		59	5	
26		7:06	7	
27		13	7	
28		16	3	
29		21	5	
30		28	7	
31		33	5	
32		36	3	
33		39	3	
34		41	2	
35		44	3	CONN
36	7:48	51	3	
37		55	4	
38		8:00	5	
39		05	5	
40		09	4	
41		14	5	
42		18	4	
43		24	6	
44		29 1/2	5 1/2	
45		32	2 1/2	
46		35	3	
47		38	3	
48		40	2	
49		43	3	
40	47	4		

DATE _____ PAGE NO. _____

DEPTH	ROD	LOG	ACTUAL TIME	REMARKS
01	8:47	50	3	
02		55	5	
03		59	4	44 wt 9.2 wt
04		9:03	4	
05		08	5	
06		14	6	
07		19	5	
08		22	3	
09		25	3	
10		28	3	
11		32	4	
12		37	5	
13		43	5	
14		48	3	
15		49	4	
16		55	2	CONN
17	9:58	10:03	5	
18		09	6	42 wt 9.2 wt
19		15	6	
20		21	6	
21		27	6	
22		34	7	
23		40	6	
24		46	6	
25		53	7	
26		59	6	
27		1:04	5	
28		11	7	
29		17	6	
30		23	6	
31		28	5	
32		33	5	
33		38	5	
34		45	7	
35		51	6	
36		56	6	
37		1:09	6	
38		15	7	
39		23	8	Vis 4 1/2 wt 9.4
40		30	7	
41		37	7	
42		44	7	
43		51	7	
44		59	8	C.F.S. 1/4. V.K. Conn
45	15:4	58	4	
46		05	7	
47		12	7	
48		19	7	
49		24	5	

CIRCLE M DRILLING, INC. 913-475-2623
 Box 128 Oberlin, Kansas 67749

CIRCLE M DRILLING, INC. 913-475-2623
 Box 128 Oberlin, Kansas 67749

DATE	DEPTH	LOGGING TIME	REMARKS	DEPTH	LOGGING TIME	REMARKS
01	21	2		51	57	7:20 5
02	24	3		52	12	10
03	27	3		53	21	9
04	29	2		54	29	8
05	30	1		55	37	8
06	32	2		56	46	9
07	33	1		57	54	8
08	34	1		58	59	8
09	35	1		59	9	7
10	37	2		60	16	7
11	38	1		61	23	7
12	41	3		62	27	4
13	44	3		63	31	4
14	48	4		64	36	5
15	51	3		65	40	4
16	54	3		66	44	4
17	57	3		67	48	4
18	1:02	5		68	52	4
19	0:58	6		69	58	6
20	1:14	6		70	6:05	7
21	1:19	5	Conn-Service Rotary	71	40	4:5
22	1:12	7	equipment	72	30	5
23	1:1	5		73	55	5
24	1:4	3		74	7:01	6
25	1:8	4		75	07	6
26	1:5	4		76	19	6
27	1:55	3		77	20	7
28	2:00	5		78	26	6
29	0:3	3		79	32	6
30	0:7	4		80	40	7
31	1:1	4		81	46	6
32	1:7	3		82	57	5
33	1:13	3		83	57	5
34	2:3	6		84	57	5
35	2:9	6		85	15	7
36	3:6	7		86	23	8
37	4:3	7		87	31	8
38	5:0	7		88	37	6
39	5:6	6		89	43	6
40	3:00	4		90	51	7
41	0:4	6		91	57	6
42	1:0	6		92	7:04	5
43	1:8	8		93	11	7
44	2:4	6		94	18	6
45	2:8	4		95	23	5
46	3:5	7		96	28	6
47	4:0	5		97	32	5
48	4:5	5		98	40	6
49	5:0	5		99	45	5
50	5:3	3	Conn	43	49	4

DATE	DEPTH	LOGGING TIME	REMARKS	DEPTH	LOGGING TIME	REMARKS
01	21	2		51	57	7:20 5
02	24	3		52	12	10
03	27	3		53	21	9
04	29	2		54	29	8
05	30	1		55	37	8
06	32	2		56	46	9
07	33	1		57	54	8
08	34	1		58	59	8
09	35	1		59	9	7
10	37	2		60	16	7
11	38	1		61	23	7
12	41	3		62	27	4
13	44	3		63	31	4
14	48	4		64	36	5
15	51	3		65	40	4
16	54	3		66	44	4
17	57	3		67	48	4
18	1:02	5		68	52	4
19	0:58	6		69	58	6
20	1:14	6		70	6:05	7
21	1:19	5	Conn-Service Rotary	71	40	4:5
22	1:12	7	equipment	72	30	5
23	1:1	5		73	55	5
24	1:4	3		74	7:01	6
25	1:8	4		75	07	6
26	1:5	4		76	19	6
27	1:55	3		77	20	7
28	2:00	5		78	26	6
29	0:3	3		79	32	6
30	0:7	4		80	40	7
31	1:1	4		81	46	6
32	1:7	3		82	57	5
33	1:13	3		83	57	5
34	2:3	6		84	15	7
35	2:9	6		85	23	8
36	3:6	7		86	31	8
37	4:3	7		87	37	6
38	5:0	7		88	43	6
39	5:6	6		89	51	7
40	3:00	4		90	57	6
41	0:4	6		91	7:04	5
42	1:0	6		92	11	7
43	1:8	8		93	18	6
44	2:4	6		94	23	5
45	2:8	4		95	28	6
46	3:5	7		96	32	5
47	4:0	5		97	40	6
48	4:5	5		98	45	5
49	5:0	5		99	50	5
50	5:3	3	Conn	43	49	4

DATE	DEPTH	LOGGING TIME	REMARKS	DEPTH	LOGGING TIME	REMARKS
01	21	2		51	57	7:20 5
02	24	3		52	12	10
03	27	3		53	21	9
04	29	2		54	29	8
05	30	1		55	37	8
06	32	2		56	46	9
07	33	1		57	54	8
08	34	1		58	59	8
09	35	1		59	9	7
10	37	2		60	16	7
11	38	1		61	23	7
12	41	3		62	27	4
13	44	3		63	31	4
14	48	4		64	36	5
15	51	3		65	40	4
16	54	3		66	44	4
17	57	3		67	48	4
18	1:02	5		68	52	4
19	0:58	6		69	58	6
20	1:14	6		70	6:05	7
21	1:19	5	Conn-Service Rotary	71	40	4:5
22	1:12	7	equipment	72	30	5
23	1:1	5		73	55	5
24	1:4	3		74	7:01	6
25	1:8	4		75	07	6
26	1:5	4		76	19	6
27	1:55	3		77	20	7
28	2:00	5		78	26	6
29	0:3	3		79	32	6
30	0:7	4		80	40	7
31	1:1	4		81	46	6
32	1:7	3		82	57	5
33	1:13	3		83	57	5
34	2:3	6		84	15	7
35	2:9	6		85	23	8
36	3:6	7		86	31	8
37	4:3	7		87	37	6
38	5:0	7		88	43	6
39	5:6	6		89	51	7
40	3:00	4		90	57	6
41	0:4	6		91	7:04	5
42	1:0	6		92	11	7
43	1:8	8		93	18	6
44	2:4	6		94	23	5
45	2:8	4		95	28	6
46	3:5	7		96	32	5
47	4:0	5		97	40	6
48	4:5	5		98	45	5
49	5:0	5		99	50	5
50	5:3	3	Conn	43	49	4

DATE	DEPTH	LOGGING TIME	REMARKS	DEPTH	LOGGING TIME	REMARKS
01	21	2		51	57	7:20 5
02	24	3		52	12	10
03	27	3		53	21	9
04	29	2		54	29	8
05	30	1		55	37	8
06	32	2		56	46	9
07	33	1		57	54	8
08	34	1		58	59	8
09	35	1		59	9	7
10	37	2		60	16	7
11	38	1		61	23	7
12	41	3		62	27	4
13	44	3		63	31	4
14	48	4		64	36	5
15	51	3		65	40	4
16	54	3		66	44	4
17	57	3		67	48	4
18	1:02	5		68	52	4
19	0:58	6		69	58	6
20	1:14	6		70	6:05	7
21	1:19	5	Conn-Service Rotary	71	40	4:5
22	1:12	7	equipment	72	30	5
23	1:1	5		73	55	5
24	1:4	3		74	7:01	6
25	1:8	4		75	07	6
26	1:5	4		76	19	6
27	1:55	3		77	20	7
28	2:00	5		78	26	6
29	0:3	3		79	32	6
30	0:7	4		80	40	7
31	1:1	4		81	46	6
32	1:7	3		82	57	5
33	1:13	3		83	57	5
34	2:3	6		84	15	7
35	2:9	6		85	23	8
36	3:6	7		86	31	8
37	4:3	7		87	37	6
38	5:0	7		88	43	6
39	5:6	6		89	51	7
40	3:00	4		90	57	6
41	0:4	6		91	7:04	5
42	1:0	6		92	11	7
43	1:8	8		93	18	6
44	2:4	6		94	23	5
45	2:8	4		95	28	6
46	3:5	7		96	32	5
47	4:0	5		97	40	6
48	4:5	5		98	45	5
49	5:0	5		99	50	5
50	5:3	3	Conn	43	49	4

CIRCLE DRILLING, INC.
 Box 128
 Oberlin, Kansas 67249 913-473-3831
 PAGE NO. _____

DATE	DEPTH	TIME O'CLOCK	MIN.	REMARKS
01	1:00	6		
02	07	7		
03	13	6		
04	19	6		
05	26	7		
06	33	7		
07	41	8		
08	48	7		
09	53	5		
10	59	6		
11	2:00	6		
12	18	7		
13	17	5		
14	20	3		
15	22	5		
16	23	8		
17	39	6		
18	44	5		
19	49	5		
20	55	6		
21	3:00	5		
22	06	6		
23	11	5		
24	17	6		
25	20	3		
26	23	5	hook-up	
27	25	7		
28	40	3		
29	49	5		
30	51	6		
31	56	6		
32	1:01	5		
33	06	5		
34	12	6		
35	18	6		
36	24	6		
37	30	6		
38	36	6		
39	42	6		
40	48	6	CFS	
41	33	3		
42	43	7		
43	48	5		
44	53	5		
45	59	6		
46	6:05	6		
47	11	6		
48	16	5		
49	21	5		
50	27	6		

DATE	DEPTH	TIME O'CLOCK	MIN.	REMARKS
4700	10:30	5		
	38	6		
	42	5		
	48	5		
05	59	4	CFS	
	1:00	6		
	14	6		
	19	5		
	23	4		
10	28	5		
	33	5		
	37	4		
	41	4		
	46	4		
15	51	5	CFS	
	56	5		
	29	4		
	31	2		
	33	2	CONN	
20	37	3		
	43	5		
	49	4		
	53	4		
	49	6		
	55	6		
25	59	2		
	1:00	3		
	02	2		
	3	7		
	4 1/2	1 1/2		
30	9	4 1/2		
	16	7		
	22	7		
	30	7		
	38	7		
	44	6		
35	51	7		
	57	6		
	1:04	7		
	11	7		
40	18	7		
	24	6		
	31	7		
	38	7		
	45	7		
45	53	8		
	2:00	7		
	07	7		
	13	6		
	21	8	Conn	
50	25	3		

DATE	DEPTH	TIME O'CLOCK	MIN.	REMARKS
05	30	6		
	35	5		
	40 1/2	5 1/2		
	45 1/2	5		
	51	5 1/2		
	56	5		
	3:02	6		
	07	5		
10	12 1/2	5 1/2		
	18 1/2	6		
	23 1/2	5	CONN	
	29	5		
	47	5		
15	47	5		
	42	5		
	57	5		
	9:02	5		
	07	5		
20	11 1/2	4 1/2		
	16 1/2	5		
	21	4 1/2		
	25 1/2	4 1/2		
	31	5 1/2		
25	35	5		
	40	5		
	45	5		
	51	6		
	57	6		
30	1:00	6		
	09	6		
	15	6		
	22	7		
	29	7		
35	36 1/2	7 1/2		
	42 1/2	6		
	49	6 1/2		
	55	6		
	1:02	7		
40	13	5		
	19	6		
	25	6		
	30	5		
45	37 1/2	5		
	44	5 1/2		
	50	6		
	56	6		
50	12:02	6	Vis 45- Wt 9.3	
	08	6	CFS 1 1/2 hrs. Conn	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
55			
60			
65			
70			
75			
80			
85			
90			
95			

AUB-RO INC.
 155 N. Market, Suite 1050
 Wichita, Kansas 67202
 (316) 264-2814

3111 10th St., Suite 200-A
 Great Bend, Kansas 67530
 (316) 793-7957

WAREHOUSES
 Colby, Kansas (813) 462-7377
 Pratt, Kansas (316) 672-2857

21	21	11	21
9271	9281	9271	9241
9253	9303	9410	9251
9345	9381	9215	9361
9323	9424	9325	9291
93112	9354	9311	9335
46534	46743	46332	46482

21	12	12	21
9351	9256	9368	9290
9217	9320	9225	9360
9376	9348	9220	9382
9320	9405	9217	9345
9354	9241	9316	9306
46618	46570	46346	46683

Collars 494.77
 Strap 4220.01
 Strap 4217.85
 Strap - 2.16

PTD 12 WOOD 5/15/63
 ABERGR-H-G-241 Log
 DSA

DATE 5-21-93 **Ricketts Testing** TICKET NO. 1720
 SEC. 19 TWP. 12 S. 33
 LEGAL DESCRIPTION S1/2SW/SE WELLINGTON, KANSAS 67182
 P.O. Box 251 Phone (316) 326-5630 TEST NO. 1

COMPANY The Dana G Hansen Trust
 ADDRESS P.O. Box 187 Logan, KS 67246
 LEASE Backman WELL NO. 1 COUNTY Logan STATE KS
 INVOICES SENT TO Same
 SET COPIES SENT TO Same

GENERAL INFORMATION		PRESSURE DATA & TIME	
TOOL FT. <u>4 1/2</u> X <u>3/8</u> HOLE SIZE <u>2 7/8</u> PACKER O.D. <u>6 3/4</u>	FIELD HEADLINE <u>1944</u>	CORRECTED HEADLINE	
ELEV. TOTAL DEPTH <u>4160</u>	INITIAL HYDROSTATIC		
TESTED FROM <u>4145</u> TO <u>4160</u>	INITIAL FLOW		
ANCHOR LENGTH BELOW <u>15</u> BETWEEN	INITIAL SHUT-IN		
TOOL OPEN A.M. <u>2:45</u> P.M.	FINAL FLOW		
TIME STARTED OFF BOTTOM A.M. <u>4:45</u> P.M.	FINAL SHUT-IN		
DRILL CONT. <u>1</u> NO. <u>1</u>	FINAL HYDROSTATIC		
TYPE OF MUD <u>Clay</u>	TOOL OPEN INITIAL FLOW	HR. <u>15</u> MIN.	
MUD WT. <u>9.1</u> VISCOSITY <u>45</u> W.L. <u>12.8</u>	HOOK WALL	HR. <u>45</u> MIN.	
CHLORIDE <u>19000</u> GRAVITY OIL <u>0</u> S.A. TEMP. <u>114.5</u>	STAND-BY CHARGE	HR. <u>15</u> MIN.	
LENGTH DRILL COLLAR <u>10</u> LD.	STRADDLE	HR. <u>45</u> MIN.	
LENGTH WEIGHT PIPE <u>1</u> LD.	CIRCULATING SUB.		
SUCCESSFUL TEST NO. <u>1</u> WASHING NO.	RELEASE		
CHOIKER TOP <u>34</u> BOTTOM <u>34</u>	TOTAL		

TYPE BLEND FE-Water Based
FE-70/30
 RECOVERY 5" MUD

EXTRA EQUIPMENT None
 APPROVED BY John Johnson
 TESTER John Johnson
 FORMATION TESTED Logan
 OPERATOR TIME Thank You

RICKETTS TESTING
 SHALL NOT BE LIABLE FOR ANY DAMAGE OF ANY KIND TO THE PROPERTY OR PERSONS OF THE LESSEE FOR WORK A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR DAMAGE TO THE PROPERTY OR PERSONS OF THE LESSEE OR ITS EMPLOYEES, OR ITS OPERATIONS OR OTHER CONCERNING THE RESULTS OF ANY TEST, UNLESS SUCH DAMAGE OR LOSS SHALL BE PAID FOR BY CHECK AT THE PLANT FOR WHICH THE TEST WAS MADE.

TEST CHARGE None
 EXTRA PACKERS None
 JARS None
 SAFETY JOINT None
 HOOK WALL None
 MUDSUR CHARGE None
 STAND-BY CHARGE None
 STRADDLE None
 CIRCULATING SUB. None
 RELEASE None
 TOTAL None

DATE 5-22-93 **Ricketts Testing** TICKET NO. 1721
 SEC. 19 TWP. 12 S. 33
 LEGAL DESCRIPTION S1/2SW/SE WELLINGTON, KANSAS 67182
 P.O. Box 251 Phone (316) 326-5630 TEST NO. 2

COMPANY The Dana G Hansen Trust
 ADDRESS P.O. Box 187 Logan, KS 67246
 LEASE Backman WELL NO. 1 COUNTY Logan STATE KS
 INVOICES SENT TO Same
 SET COPIES SENT TO Same

GENERAL INFORMATION		PRESSURE DATA & TIME	
TOOL FT. <u>4 1/2</u> X <u>3/8</u> HOLE SIZE <u>2 7/8</u> PACKER O.D. <u>6 3/4</u>	FIELD HEADLINE <u>2062</u>	CORRECTED HEADLINE	
ELEV. TOTAL DEPTH <u>4355</u>	INITIAL HYDROSTATIC		
TESTED FROM <u>4294</u> TO <u>4355</u>	INITIAL FLOW		
ANCHOR LENGTH BELOW <u>61</u> BETWEEN	INITIAL SHUT-IN		
TOOL OPEN A.M. <u>2:00</u> P.M.	FINAL FLOW		
TIME STARTED OFF BOTTOM A.M. <u>9:45</u> P.M.	FINAL SHUT-IN		
DRILL CONT. <u>1</u> NO. <u>1</u>	FINAL HYDROSTATIC		
TYPE OF MUD <u>Clay</u>	TOOL OPEN INITIAL FLOW	HR. <u>15</u> MIN.	
MUD WT. <u>9.1</u> VISCOSITY <u>46</u> W.L. <u>11.2</u>	HOOK WALL	HR. <u>45</u> MIN.	
CHLORIDE <u>9500</u> GRAVITY OIL <u>0</u> S.A. TEMP. <u>125</u>	STAND-BY CHARGE	HR. <u>60</u> MIN.	
LENGTH DRILL COLLAR <u>10</u> LD.	STRADDLE	HR. <u>45</u> MIN.	
LENGTH WEIGHT PIPE <u>1</u> LD.	CIRCULATING SUB.		
SUCCESSFUL TEST NO. <u>2</u> WASHING NO.	RELEASE		
CHOIKER TOP <u>34</u> BOTTOM <u>34</u>	TOTAL		

TYPE BLEND FE-Water Based Building for Stearns flow in 47 minutes
FE-70/30
 RECOVERY 186' MUDDY WATER
1395' SALT WATER
1581' TOTAL FLUID

EXTRA EQUIPMENT None
 APPROVED BY John Johnson
 TESTER John Johnson
 FORMATION TESTED Logan
 OPERATOR TIME Thank You

RICKETTS TESTING
 SHALL NOT BE LIABLE FOR ANY DAMAGE OF ANY KIND TO THE PROPERTY OR PERSONS OF THE LESSEE FOR WORK A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR DAMAGE TO THE PROPERTY OR PERSONS OF THE LESSEE OR ITS EMPLOYEES, OR ITS OPERATIONS OR OTHER CONCERNING THE RESULTS OF ANY TEST, UNLESS SUCH DAMAGE OR LOSS SHALL BE PAID FOR BY CHECK AT THE PLANT FOR WHICH THE TEST WAS MADE.

TEST CHARGE None
 EXTRA PACKERS None
 JARS None
 SAFETY JOINT None
 HOOK WALL None
 MUDSUR CHARGE None
 STAND-BY CHARGE None
 STRADDLE None
 CIRCULATING SUB. None
 RELEASE None
 TOTAL None

DATE 5-24-93 **Ricketts Testing** TICKET NO. 1722
 SEC. 19 TWP. 12 S. 33
 LEGAL DESCRIPTION S1/2SW/SE WELLINGTON, KANSAS 67182
 P.O. Box 251 Phone (316) 326-5630 TEST NO. 3

COMPANY The Dana G Hansen Trust
 ADDRESS P.O. Box 187 Logan, KS 67246
 LEASE Backman WELL NO. 1 COUNTY Logan STATE KS
 INVOICES SENT TO Same
 SET COPIES SENT TO Same

GENERAL INFORMATION		PRESSURE DATA & TIME	
TOOL FT. <u>4 1/2</u> X <u>3/8</u> HOLE SIZE <u>2 7/8</u> PACKER O.D. <u>6 3/4</u>	FIELD HEADLINE <u>2267</u>	CORRECTED HEADLINE	
ELEV. TOTAL DEPTH <u>4715</u>	INITIAL HYDROSTATIC		
TESTED FROM <u>4670</u> TO <u>4715</u>	INITIAL FLOW		
ANCHOR LENGTH BELOW <u>45</u> BETWEEN	INITIAL SHUT-IN		
TOOL OPEN A.M. <u>4:15</u> P.M.	FINAL FLOW		
TIME STARTED OFF BOTTOM A.M. <u>7:36</u> P.M.	FINAL SHUT-IN		
DRILL CONT. <u>1</u> NO. <u>1</u>	FINAL HYDROSTATIC		
TYPE OF MUD <u>Clay</u>	TOOL OPEN INITIAL FLOW	HR. <u>15</u> MIN.	
MUD WT. <u>9.3</u> VISCOSITY <u>46</u> W.L. <u>12.0</u>	HOOK WALL	HR. <u>45</u> MIN.	
CHLORIDE <u>10000</u> GRAVITY OIL <u>0</u> S.A. TEMP. <u>130</u>	STAND-BY CHARGE	HR. <u>90</u> MIN.	
LENGTH DRILL COLLAR <u>10</u> LD.	STRADDLE	HR. <u>45</u> MIN.	
LENGTH WEIGHT PIPE <u>1</u> LD.	CIRCULATING SUB.		
SUCCESSFUL TEST NO. <u>3</u> WASHING NO.	RELEASE		
CHOIKER TOP <u>34</u> BOTTOM <u>34</u>	TOTAL		

TYPE BLEND FE-Water Based Building for 1/2" and 1/4" FE-Water Based Inconduct
 RECOVERY 10.54' OIL CUT MUDDY WATER
114' MUDDY WATER

EXTRA EQUIPMENT None
 APPROVED BY John Johnson
 TESTER John Johnson
 FORMATION TESTED Logan
 OPERATOR TIME Thank You

RICKETTS TESTING
 SHALL NOT BE LIABLE FOR ANY DAMAGE OF ANY KIND TO THE PROPERTY OR PERSONS OF THE LESSEE FOR WORK A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR DAMAGE TO THE PROPERTY OR PERSONS OF THE LESSEE OR ITS EMPLOYEES, OR ITS OPERATIONS OR OTHER CONCERNING THE RESULTS OF ANY TEST, UNLESS SUCH DAMAGE OR LOSS SHALL BE PAID FOR BY CHECK AT THE PLANT FOR WHICH THE TEST WAS MADE.

TEST CHARGE None
 EXTRA PACKERS None
 JARS None
 SAFETY JOINT None
 HOOK WALL None
 MUDSUR CHARGE None
 STAND-BY CHARGE None
 STRADDLE None
 CIRCULATING SUB. None
 RELEASE None
 TOTAL None

ADD-CO INC.

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

DRILLING MUD REPORT (REPORT NO. 1)
 DATE May 15 1993 DEPTH 100
 WELL NO. 1 STATE KANSAS COUNTY LOGAN

OPERATOR D. G. Hansen Trust CONTRACTOR CHACE RIG NO. None
 ADDRESS Logan, KS ADDRESS Chace SPUD DATE Apr 15 1993
 REPORT FOR BY John Johnson REPORT FOR MR. John Johnson STATE KANSAS
 WELL NAME AND NO. 1 FIELD OR BLOCK NO. Logan

OPERATION	CASING	HOLE	PIPS	PUMP SIZE	ANGULAR VEL. (BY API)
PRIORITY ACTIVITY	SURFACE	FT.	IN.	X	OPPOSITE OF
BIT SIZE (IN.)	INTERMEDIATE	FT.	IN.	IN.	OPPOSITE COLLAR
GRILL PIPE SIZE (IN.)	PRODUCTION/LINER	FT.	IN.	IN.	PRESSURE PSI
GRILL COLLAR LENGTH (IN.)	IN STORAGE	FT.	IN.	IN.	BOTTOM UP (MIN.)
GRILL COLLAR TYPE	TYPE	IN.	IN.	IN.	SYSTEM TOTAL (MIN.)

MUD PROPERTIES
 Daily Cost \$1800 CIRCULATING COST \$1800
 Time Sample Taken 100m 100m
 Depth (ft) 100
 Weight (lb) 26
 Plastic Viscosity (cP) 9.1
 Yield Point (lb/100 sq ft) 1019
 Gel Strength (lb/100 sq ft) 1019
 pH 9.1
 Filterate API (mL/30 min) 1019
 API Gravity, Mud (g/cc) 1.019
 API Gravity, Filterate (g/cc) 1.019
 Sand Content (%) by Vol 100
 Calcium (ppm) 180
 Sand Content (%) by Vol 100
 Solids Content (%) by Vol 100
 Thickening Time (min) by Vol 100
 L.C.M. # 100
 Preservative # 100

MUD ON HANDSUSED
 30 - Premium Gel
 15 - Soft Ash
 15 - Ceramic Slits
 12 - Super Lig
 3 - Denox
 1 - PAC
 1 - Co-Polymer
 1 - P. 10L
 1 - D. Detergent

MUD ON HANDSUSED
 60 - 4
 C/S Muds
 Mud Seal
 Mud Seal
 Caster Fiber
 Cello Flute
 Lime
 Salt Clay
 Starch
 X.Cide #

MATERIALS RECOMMENDED
 1) Drill out from Upper Juvinal with NATURAL SAND & WATER
 2) Set after to Column wt 90.94 gpa
 3) Prepare for L.C.M. > only to MUDCO.
 4) @ 3000' 80 lbs water 25 lbs bcl
 5) Mud-up Approx 3600' 80 lbs water 1 SA 3000 AW 1 SA 3000 AW 19 lbs bcl 1 SA 2500 AW 1 SA TOTAL FOR MUD UP

REPRESENTATIVE John Johnson HOME ADDRESS None TELEPHONE 316-264-2814
 WAREHOUSE LOCATION Chace TELEPHONE 316-264-2814

AUD-CO INC.

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

DRILLING MUD REPORT

REPORT NO. 6
DATE 5-22-83 DEPTH 4215

OPERATOR <i>Hansen</i>	CONTRACTOR <i>Chief</i>	RIG NO. <i>2</i>
ADDRESS <i>86</i>	REPORT FOR MR. <i>Ray Tjepersen</i>	REPORT DATE <i>5-14-83</i>
WELL NAME AND NO. <i>1 Beckman</i>	FIELD OR BLOCK NO. <i>Logan</i>	STATE <i>Kansas</i>
OPERATION	CASING	MUD VOLUME (BBL)
FREEZING ACTIVITY	SURFACE	PIPS
BIT SIZE (IN)	INTERMEDIATE	TOTAL CIRCULATING VOLUME
DRILL PIPE SIZE (TYPE)	PRODUCTION OR LINDER	IN STORAGE
DRILL COLLAR LENGTH (IN)	MUD	RELATIVE STRONG/WEAK
SIZE	TYPE	SYSTEM
MUD PROPERTIES		DAILY COST
MUD PROPERTIES SPECIFICATIONS		CUMULATIVE COST
MATERIALS RECOMMENDED		
MUD ON HAND/USED		

Run a good stream water to dilute chlorides and control wt 90-95 fgl

Vis 44-48 scgpb - 60 sal water 1 coustic to thicken

jet add over 2 hrs

Every 12 hrs 1 coustic to thicken

ICM as needed

Thanks

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSIDERED AS AUTHORIZING THE REPRESENTATION OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY AUD-CO, INC. ON ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

REPRESENTATIVE *Real Atkins* HOME ADDRESS *Colby, KS* TELEPHONE *472-2112*

WAREHOUSE LOCATION *Colby, KS* TELEPHONE *2321*

AUD-CO INC.

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

DRILLING MUD REPORT

REPORT NO. 7
DATE 5-22-83 DEPTH 4420

OPERATOR <i>Hansen</i>	CONTRACTOR <i>Chief</i>	RIG NO. <i>2</i>
ADDRESS <i>86</i>	REPORT FOR MR. <i>Ray Tjepersen</i>	REPORT DATE <i>5-14-83</i>
WELL NAME AND NO. <i>1 Beckman</i>	FIELD OR BLOCK NO. <i>Logan</i>	STATE <i>Kansas</i>
OPERATION	CASING	MUD VOLUME (BBL)
FREEZING ACTIVITY	SURFACE	PIPS
BIT SIZE (IN)	INTERMEDIATE	TOTAL CIRCULATING VOLUME
DRILL PIPE SIZE (TYPE)	PRODUCTION OR LINDER	IN STORAGE
DRILL COLLAR LENGTH (IN)	MUD	RELATIVE STRONG/WEAK
SIZE	TYPE	SYSTEM
MUD PROPERTIES		DAILY COST
MUD PROPERTIES SPECIFICATIONS		CUMULATIVE COST
MATERIALS RECOMMENDED		
MUD ON HAND/USED		

Do 4 hour add premix 40 sal water to lower water loss 1 coustic jet add over 8-10 gal 2 hrs 1 1/2 gal B monpac

Vis 44-48 scgpb with gel control wt 90-95 fgl

ICM as needed

Thank-You!

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REPRESENTATIVE *Real Atkins* HOME ADDRESS *Colby, KS* TELEPHONE *472-2112*

WAREHOUSE LOCATION *Colby, KS* TELEPHONE *2321*

AUD-CO INC.

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

DRILLING MUD REPORT

REPORT NO. 8
DATE 5-24-83 DEPTH 4154

OPERATOR <i>Hansen</i>	CONTRACTOR <i>Chief</i>	RIG NO. <i>2</i>
ADDRESS <i>86</i>	REPORT FOR MR. <i>Ray Tjepersen</i>	REPORT DATE <i>5-14-83</i>
WELL NAME AND NO. <i>1 Beckman</i>	FIELD OR BLOCK NO. <i>Logan</i>	STATE <i>Kansas</i>
OPERATION	CASING	MUD VOLUME (BBL)
FREEZING ACTIVITY	SURFACE	PIPS
BIT SIZE (IN)	INTERMEDIATE	TOTAL CIRCULATING VOLUME
DRILL PIPE SIZE (TYPE)	PRODUCTION OR LINDER	IN STORAGE
DRILL COLLAR LENGTH (IN)	MUD	RELATIVE STRONG/WEAK
SIZE	TYPE	SYSTEM
MUD PROPERTIES		DAILY COST
MUD PROPERTIES SPECIFICATIONS		CUMULATIVE COST
MATERIALS RECOMMENDED		
MUD ON HAND/USED		

Daylights - add 1/2 monpac wet 2 hrs

Vis 45-50 scgpb with prem gel in premix 40 sal water

Control mud wt 92-94 fgl

ICM only if loss

Thanks

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REPRESENTATIVE *Real Atkins* HOME ADDRESS *Colby, KS* TELEPHONE *472-2112*

WAREHOUSE LOCATION *Colby, KS* TELEPHONE *2321*

AUD-CO INC.

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

DRILLING MUD REPORT

REPORT NO. 9
DATE 5-25-83 DEPTH 4800

OPERATOR <i>Hansen</i>	CONTRACTOR <i>Chief</i>	RIG NO. <i>2</i>
ADDRESS <i>86</i>	REPORT FOR MR. <i>Ray Tjepersen</i>	REPORT DATE <i>5-14-83</i>
WELL NAME AND NO. <i>1 Beckman</i>	FIELD OR BLOCK NO. <i>Logan</i>	STATE <i>Kansas</i>
OPERATION	CASING	MUD VOLUME (BBL)
FREEZING ACTIVITY	SURFACE	PIPS
BIT SIZE (IN)	INTERMEDIATE	TOTAL CIRCULATING VOLUME
DRILL PIPE SIZE (TYPE)	PRODUCTION OR LINDER	IN STORAGE
DRILL COLLAR LENGTH (IN)	MUD	RELATIVE STRONG/WEAK
SIZE	TYPE	SYSTEM
MUD PROPERTIES		DAILY COST
MUD PROPERTIES SPECIFICATIONS		CUMULATIVE COST
MATERIALS RECOMMENDED		
MUD ON HAND/USED		

No chemical treatment

45-50 vis to T.O. log

92-94 mud wt

ICM as needed

Thanks

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WAREHOUSE LOCATION *Colby, KS* TELEPHONE *2321*