

15-035-24144

SW SW SW

1420 FSL 3690 FEL

24 31-5E

JAMES R. CRAIG
PETROLEUM CONSULTANT
8432 171ST ROAD
WINFIELD, KS 67156

GEOLOGICAL REPORT

ORE # 8
1400 FSL 3960 FEL
SECTION 24 TWP 31S RGE 5E
COWLEY COUNTY, KS.
API 15-035-24144

RECEIVED
KANSAS CORPORATION COMMISSION

MAY 25 2001

CONSERVATION DIVISION

OPERATOR: Bear Petroleum, Inc.
PO Box 438
Haysville, KS 67060

SPUD: April 30, 2001

LOGGED: April 8, 2001

TOTAL DEPTH: 3505

CONTRACTOR: Berentz Drilling Co, Inc.
Wichita, KS.

SURFACE CASING: 8 5/8" @ 210'

ELECTRIC LOGGING: Log-Tech
Hayes, KS.

SURVEYS: Dual Induction & Dual Compensated
Porosity Logs

ELEVATIONS: 1352' Kelly Bushing
All measurements from KB

STATUS: 4 1/2" Casing set for further testing

Elevations

1352 KB

All measurements from KB

Formation	DEPTH	SUB-SEA
Admire Gas Sand	612-632	+740
Iatan Lime	1908	-556
Stalnaker Sand	1944	-592
Layton Sand	2322-38 (16')	-970
Kansas City Lime	2400	-1048
Base Kansas City	2558	-1206
Marmation	2642	-1290
Cherokee	2785	-1433
Bartlesville Sand	Absent	
Mississippian	3045	-1693
Chattanooga Shale	3410	-2058
Arbuckle Dolomite	3480	-2128

STRUCTURAL COMPARSION

Formation	BEAR Ore # 8	PALMER Bogner #2	GRALLAP Ore # 3
Layton Sand	-970	None	--969
Marmation	-1290		
Cherokee	-1433		
Mississippian	-1693	-1643	
Arbuckle Dolomite	-2128	-2096	
Miss/Arb Thickness	435	453	

DAILY DRILLING PROGRESS

4-30-2001	Move in, rig up, start drilling surface hole.
5-01-2001	Set 210' 8 5/8" surface casing . Cemented with 175 sacks 3% CC common cement.
5-02-2001	Drilling @ 1560'. Slope test ¼ degrees
5-03-2001	Drilling @ 2240'.
5-04-2001	Drilling @ 2610'.
5-05-2001	Drilling @ 2950'. Slope test ¼ degrees @ 2848.
5-06-2001	Drilling @ 3100'. Clutch out.
5-07-2001	Drilling @ 3360'.
5-08-2001	Reach total depth 3500' @ 6:00 PM, Run Electric Logs
5-09-2001	Finish Logs, set casing to complete in the Layton sand.

SAMPLE DESCRIPTIONS OF OIL BEARING ZONES

Layton Sand 2322-38 Sandstone, tan, medium grained ,micaceous, friable, good odor & stain. Bright yellow fluorescence.

Arbuckle Dolomite 3480 Dolomite, gray to tan, some chert, poor porosity, odor, trace free oil, no cut.

REMARKS: Based on "Samples" and "Electric logs" casing was set for completion in the Layton sand.

James R. Craig 5-14-2001

COMPANY Bear PetFARM OrcWELL NO. 8SEC. TWP. RGE. LOC.COUNTY CowleySTATE KsCONTRACTOR Berentz Dng Co.SIZE HOLE 7 7/8DRILL PIPE 4 1/2 X 11

REMARKS:

SIZE PUMP LINERS 16" LENGTH STROKE 14"DATE 5-7-01

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2000 01	53 55	2	
2	57	2	
3	59	2	
4	9:01	2	
5	03	2	Vis 33 out 9.4. 10m p.
6	05	2	
7	7 1/2	2 1/2	
8	10	2 1/2	
9	13	3	
10	15 1/2	2 1/2	
11	18	2 1/2	
12	20 1/2	2 1/2	
13	23	2 1/2	
14	25	2	
15	27	2	
16	29	2	
17	31 1/2	2 1/2	
18	33 1/2	2	
19	35 1/2	2	
20	37	1 1/2	
21	39 1/2	2 1/2	
22	43	3 1/2	
23	46	3	
24	48 1/2	2 1/2	
25	50 1/2	2	
26	53	2 1/2	
27	55	2	
28	58	3	
29	10:00	2	
30	00 1/2	2	Conn
31	11	3	
32	13	2	
33	15	3	
34	18	2	
35	20	2	
36	22	2	
37	24	2 1/2	
38	26 1/2	2 1/2	
39	28 1/2	2	
40	31	2 1/2	
41	33	2	
42	35 1/2	2 1/2	
43	37 1/2	2	
44	39	1 1/2	
45	41	2	
46	43	2	
47	45	2	
48	47	2	
49	49	2	
2250	51 1/2	2 1/2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2250 51	51 1/2 53 1/2	2 1/2	start 10' sp's
52	56	2 1/2	Call Geo.
53	59	3	991-0891
54	11:01	2	
55	4	3	
56	06	2	
57	09	3	
58	13	4	35 Vis
59	16	3	9:50 WT
60	18	2	LEAK TR.
61	21 1/2	2	Conn
62	23 1/2	2 1/2	
63	27	1 1/2	
64	29	2	
65	31	2	
66	33	2	
67	35	2	
68	37 1/2	2 1/2	
69	40	2 1/2	
70	42	2	
71	44	2	
72	46	2	
73	48	2	
74	51	3	
75	53	2	
76	55	2	
77	57	2	
78	59	2	
79	12:01	2	
80	3	2	
81	06	3	
82	08	2	
83	10	2	
84	12	2	
85	14	2	
86	17	3	
87	19	2	
88	21	2	
89	23	2	
90	25 1/2	2	short
91	32	2	
92	34	2	
93	37	3	
94	39	2	
95	42	3	
96	44	2	
97	47	3	
98	49	2	
99	51	2	watch for loss.
2300	53	2	loss circ.

NOT DRILLING TIME SHEET # 503
KANSAS DIVISION OF GEOLOGY
RECORDED No. 09-281

COMPANY BELT RCTFARM ORCWELL NO. 8SEC. TWP. RGE. LOC.COUNTY CowleySTATE KANSASCONTRACTOR BerezvitzSIZE HOLE 7 1/8DRILL PIPE 4 1/2

REMARKS:

SIZE PUMP LINERS 6 - LENGTH STROKE 14DATE 5-4-2001

DEPTH	TIME O'CLOCK	MIN.	REMARKS
1	12:53	3	HOPPER OPEN
2		2	
3	1:00	2	
4	02	2	
5	04	2	
6	07	3	
7	10	3	
8	13	3	
9	16	3	
10	19	3	
11	22	3	
12	25	3	
13	27	2	
14	29 1/2	1 1/2	
15	30	1 1/2	
16	32	2	
17	34	2	
18	36	2	Closed
19	38	2	
20	40	2	
21	41 1/2	1	CONN
22	52	1	
23	54	2	
24	56	2	
25	57	3	
26	58	1	
27	2:00	2	
28	2	2	
29	5	3	
30	17	2	
31	9	1	
32	10	1	
33	12	2	
34	15	3	
35	16	3	
36	21	3	
37	25	4	
38	29 1/4	4	
39	30 1/4	4	
40	38	5	
41	43 1/2	5	
42	48	5	1/340 WT 9 1/2
43	52 1/4		
44	57	5	
45	3:03	6	
46	8	5	
47	12	4	
48	14	5	
49	21	4	
2350	26	5	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
50	26	4	- Tight -
51	30	4	
52	35 1/2	5	
53	44	4	
54	47	3	
55	52 1/2	5	
56	56	4	
57	49	4	
58	05	5	
59	09	4	
60	13	4	
61	19	6	
62	25	6	
63	30	5	
64	36	6	
65	42	5	
66	47	5	
67	53	6	
68	57	4	
69	5:02	5	
70	01	5	
71	13	6	
72	18	5	
73	23	5	
74	26	3	
75	31	5	
76	36	5	
77	42	6	
78	47	5	
79	51	4	
80	55	4	1/340 WT 9 1/2
81	6:09	5	
82	08	4	CONN Tight
83	13	4	
84	16	4	
85	19	3	
86	22	3	
87	25	3	
88	28	3	
89	31	3	
90	34	3	
91	37 1/2	3 1/2	
92	42	4 1/2	
93	45	3	
94	48	3	
95	52	4	1/5 34 WT 9 1/2
96	56 1/2	4 1/2	6CM 1"
97	7:01 1/2	5	
98	07 1/2	6	
99	13	5 1/2	
2400	17	4	

PUMP TIME SHEET * 505 *
PUMP CO. WICHITA, KAN.
09-281

COMPANY Bear Pet. FARM ORE WELL NO. 8
 SEC. TWP. RGE. LCC. COUNTY Cowley STATE KS.
 CONTRACTOR Berentz SIZE HOLE _____ DRILL PIPE _____
 REMARKS: _____ SIZE PUMP LINERS _____ LENGTH STROKE _____

DATE 5-4-2001

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2400	7:17		
01	28 1/2	5 1/2	
02	28	5 1/2	
03	34	6	
04	39	5	
05	43 1/2	4 1/2	
06	47 1/2	4	
07	53 1/2	6	
08	59	5 1/2	
09	8:05 1/2	6 1/2	
10	10	4 1/2	
11	14	4	
12	19	5	
13	23	4	
14	27 1/2	4 1/2	
15	9:14 1/2	4	Conn - V.R.P.
16	19	5	Run slope = 1 1/2
17	23	4	
18	27	4	
19	31	4	
20	36	5	
21	39 1/2	3 1/2	
22	44	4 1/2	
23	49 1/2	5 1/2	
24	53	3 1/2	
25	56 1/2	3 1/2	
26	10:00	3 1/2	
27	04	4	
28	08	4	
29	12	4	
30	16	4	
31	19 1/2	3 1/2	
32	23	3 1/2	
33	27	4	
34	30	3	
35	32	2	
36	34 1/2	2 1/2	
37	37 1/2	3	
38	40 1/2	3	
39	44 1/2	4	
40	48 1/2	4	
41	52	3 1/2	
42	55	3	
43	59 1/2	4 1/2	
44	11:02	2 1/2	
45	05	3	
46	11:15	3 1/2	Conn -
47	18 1/2	3 1/2	Hopper open
48	22 1/2	4	
49	26	3 1/2	
2500	29 1/2	3 1/2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2450	29 1/2	2 1/2	
51	32	4	
52	36	4	
53	39 1/2	3 1/2	
54	43 1/2	4	
55	48	4 1/2	
56	55	7	Hopper closed
57	57 1/2	2 1/2	
58	59	1 1/2	
59	12:00 1/2	1 1/2	
60	00	1 1/2	
61	04	2	
62	06	2	
63	08 1/2	2 1/2	
64	12 1/2	4	
65	16	3 1/2	35 VIS
66	21 1/2	5 1/2	9.6 WT
67	28	6 1/2	2nd LCM
68	33 1/2	5 1/2	
69	37 1/2	4	
70	41	3 1/2	
71	45 1/2	4 1/2	
72	50 1/2	5	
73	56	5 1/2	
74	1:01	5	
2475	04	3	
76	07	3	
77	12 1/4	2	Conn -
78	17 1/2	3 1/2	
79	21 1/2	4	
80	26	4 1/2	
81	30	4	
82	33	3	
83	37	4	
84	43	6	
85	47 1/2	4 1/2	
86	52	4 1/2	
87	58	6	
88	2:02	4	
89	6 1/2	4 1/2	
90	10 1/2	4	
91	14	3 1/2	
92	18	4	
93	22	4	
94	26 1/2	4 1/2	
95	32	5 1/2	
96	37 1/2	5 1/2	
97	40	2 1/2	
98	42	2	
99	45	3	
2500	47 1/2	2 1/2	

ROTARY DRILLING TIME SHEET - 809
 NAME _____ TIME OF WORK _____
 (9-23)

COMPANY Bear Pet FARM Ore WELL NO. 8
 SEC. TWP. RGE. LOC. COUNTY Cowley STATE Ks.
 CONTRACTOR Berentz SIZE HOLE 7 7/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS LENGTH STROKE

DATE 5-4-2001

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2500 01	47 1/4 53	4 1/2	
02	57	4	1/2 ss wt 100 tons
03	3:01	4	
04	06	5	
05	11 1/4	5 1/2	
06	17	5 1/2	
07	21	4	
08	22 1/4 26	4	conn - 100 tons
09	31	5	casing - 160
10	35	4	
11	39	4	
12	43	4	
13	47	4	
14	51	4	
15	55	4	
16	58 1/2	3 1/2	
17	3:03	4 1/2	
18	8	5	
19	11 1/4	3 1/2	
20	15	3 1/2	
21	18	3	
22	22	4	
23	26 1/4	4 1/2	
24	30	3 1/2	
2525 25	34	4	
26	37 1/4	3 1/2	
27	40 1/2	3	
28	45	4 1/2	
29	50	5	
30	54	4	
31	57	3	
32	60 1/2	3	
33	4	4	
34	7 1/2	3 1/2	
35	12	4 1/2	
36	16	4	
37	20 1/4	4 1/2	
38	25	4 1/2	
39	27 1/4	4	conn 1st hole
40	35	4	
41	38 1/2	3 1/2	
42	41	2 1/2	1/2 ss wt 90 tons
43	44	3	hopper 1st
44	47 1/2	3 1/2	lower treatment
45	51 1/4	4	
46	56	4 1/2	
47	17:00	4	
48	5	5	
49	11	6	closed
2580	16	5	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2550 51	16 21 1/2	5 1/2	
52	25 1/4	4	
53	30 1/2	5	
54	36	5 1/2	
55	41	5	
56	44 1/2	3 1/2	
57	48	3 1/2	
58	51	3	
59	54	3	
60	58	4	
61	8:00	2	
62	2	2	
63	3 1/2	1 1/2	
64	5 1/2	1	
65	8	2 1/2	
66	9 1/2	1 1/2	
67	11	1 1/2	
68	13	2	
69	15	2	
70	8 1/4 20 1/2	2	conn
71	31 1/2	5	
72	34 1/2	3	
73	37	2 1/2	
74	39	2	
2575 75	4 1/2 44 1/2	2 1/2	
76	43	1 1/2	
77	45 1/2	2 1/2	
78	49	3 1/2	
79	54	5	
80	58	4	
81	9:02	4	
82	5	3	
83	8	3	
84	11	3	
85	14 1/2	3 1/2	
86	17 1/2	3	
87	20	2 1/2	
88	22 1/2	2 1/2	
89	25	2 1/2	
90	29	4	
91	32	3	
92	35	3	
93	37 1/2	2 1/2	
94	40 1/2	3	
95	44	3 1/2	
96	47	3	
97	49 1/2	2 1/2	
98	52	2 1/2	
99	100 52	2	conn
2600	05	3	

RODUP DRILLING TIME SHEET * 50P
 KANSAS BUREAU OF GEOLOGICAL SURVEY
 09-231

COMPANY Bear PetFARM ORFWELL NO. 8SEC. TWP. RGE. LOC.COUNTY CowleySTATE KSCONTRACTOR Berentz DrlySIZE HOLE 7 7/8DRILL PIPE 4 1/2 XH

REMARKS:

SIZE PUMP LINERS 6" LENGTH STROKE 14"DATE 5-4-01

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2600 01	10:05	08	3
2 10	10	2	
3 13	13	3	
4 15 1/2	15 1/2	2 1/2	
5 18	18	2 1/2	Vis 32 wt. 98 1001 5
6 21	21	3	
7 24	24	3	
8 27	27	3	
9 31	31	4	
10 35	35	4	
11 38	38	3	
12 41	41	3	
13 45	45	4	
14 48	48	3	
15 52	52	4	
16 55	55	3	
17 58	58	3	
18 1:01	1:01	3	
19 1:05	1:05	4	
20 1:10	1:10	5	
21 1:14	1:14	4	
22 1:17	1:17	3	
23 2:00	2:00	3	
24 2:23	2:23	3	
25 2:25	2:25	4	
26 3:11	3:11	4	
27 3:34	3:34	3	
28 3:37	3:37	3	
29 4:11	4:11	4	
30 4:44	4:44	3	
31 5:16	5:16	3	com
32 5:44	5:44	4	
33 6:07	6:07	3	Water open
34 11	11	4	
35 14	14	3	
36 18	18	4	
37 24	24	6	
38 29	29	5	
39 30	30	1	
40 31	31	1	
41 36	36	5	
42 40	40	5	
43 47	47	5	
44 51	51	4	closed
45 54	54	4	
46 56	56	6	
47 57	57	7	
48 58	58	5	
49 59	59	5	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2650 51	1:16	22	6
52 39	39	7	1
53 46	46	7	
54 52	52	6	
55 58	58	6	
56 2:05	2:05	7	
57 14	14	9	
58 24	24	10	
59 30	30	6	
60 37	37	7	
61 44	44	7	
62 50	50	6	
63 57	57	6	can pump send
64 08	08	5	
65 14	14	6	
66 19	19	5	
67 24	24	5	
68 28	28	4	
69 31	31	3	
70 34	34	3	
71 36	36	2	
72 39	39	3	
73 44	44	5	
74 48	48	4	
75 51	51	3	
76 53	53	2	
77 55	55	2	
78 58	58	3	
79 4:00	4:00	2	
80 4:03	4:03	3	
81 05	05	2	
82 07	07	2	
83 9	9	2	
84 12	12	3	
85 14	14	2	
86 17	17	3	
87 18	18	1	
88 20	20	2	
89 23	23	3	
90 29	29	6	
91 33	33	4	
92 36	36	3	
93 39	39	3	
94 45	45	4	can
95 54	54	6	
96 58	58	4	
97 5:01	5:01	3	
98 04	04	3	
99 07	07	3	
2700 10	10	3	

COMPANY Bear Pet

FARM ORE

WELL NO. 8

SEC. TWP. RGE. LOC.

COUNTY Cowley

STATE KANSAS

CONTRACTOR BERNTZ

SIZE HOLE 7 1/4

DRILL PIPE 4 1/2

REMARKS: Rain

SIZE PUMP LINERS 6" LENGTH STROKE 14

DATE 5-5-2001

DEPTH	TIME O'CLOCK	MIN.	REMARKS
01	5:10	13	3
02	16	3	
03	20	4	
04	24	4	
05	28	4	
06	32	4	
07	34	2	
08	36	2	
09	40	4	
10	45	5	
11	51	6	
12	56	5	
13	6:01	5	
14	06	5	35-1/2 WT
15	11	6	
16	17	6	
17	22	5	
18	26	4	
19	31	5	
20	36	5	
21	44	8	
22	48	4	
23	53	5	
24	57	4	
25	01	4	
26	05	2 1/2	Conn - 1/2 8
27	08	8 1/2	32 WT
28	09	4	9 WT
29	13	7 1/2	2 Conn
30	12	5 1/2	
31	16 1/2	4 1/2	
32	52	5 1/2	
33	57	5	
34	8:02	5	
35	07	5	
36	11 1/2	4 1/2	
37	15	3 1/2	
38	20 1/2	5 1/2	
39	25 1/2	5	
40	31	5 1/2	
41	36	5	
42	41	5	
43	46 1/2	5 1/2	
44	51	4 1/2	
45	53 1/2	2 1/2	
46	58	4 1/2	
47	9:03	5	
48	07 1/2	4 1/2	
49	12	4 1/2	
50	16 1/2	4 1/2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
51	9:10	20	3 1/2
52	24	4	
53	27 1/2	3 1/2	
54	34 1/2	7	
55	40 1/2	6	
56	56 1/2	4	Conn - 1/2 8
57	05 1/2	5 1/2	Volume
58	11 1/2	6	
59	17 1/2	6	
60	22	4 1/2	
61	26 1/2	4 1/2	
62	31	4 1/2	
63	36	5	
64	40 1/2	4 1/2	
65	45 1/2	4	
66	52 1/2	8	
67	57 1/2	5	
68	11:03 1/2	6	Hopper open
69	08 1/2	5	
70	13	4 1/2	
71	18 1/2	5 1/2	
72	25	6 1/2	
73	29 1/2	4 1/2	
74	31 1/2	2	
75	33	1 1/2	
76	37	4	
77	43	6	
78	51	8	
79	58	7	Hopper closed
80	12:56 1/2	4 1/2	
81	08 1/2	6	
82	13	4 1/2	
83	16 1/2	3 1/2	
84	20 1/2	4	
85	23 1/2	3	
86	27	3 1/2	
87	30 1/2	3 1/2	
88	36 1/2	4	Conn -
89	43	3	
90	46	3	
91	48 1/2	2 1/2	
92	51	2 1/2	
93	54 1/2	3 1/2	
94	58	3 1/2	
95	1:01 1/2	3 1/2	
96	07 1/2	6	
97	12 1/2	5	
98	17	4 1/2	
99	21	4	
2800	24	3	

ROTARY DRILLING TIME-SHEETS
KANSAS BLUE PRINT CO. WICHITA, KAN.
9-281

COMPANY Bear PotFARM OREWELL NO. 8

SEC. TWP. RGE. LOC.

COUNTY Cowley STATE Ks.

CONTRACTOR

SIZE HOLE 7 7/8 DRILL PIPE 4 1/2

REMARKS:

SIZE PUMP LINERS 6 LENGTH STROKE 14DATE 5-5-2001

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2800 01	1:24 1:27	3	
02	31 1/2	4 1/2	
03	35 1/2	1	
04	39	3 1/2	
05	43 1/2	4 1/2	
06	46 1/2	3	
07	50 1/2	4	
08	55	4 1/2	
09	59	4	
10	2:01 1/2	2 1/2	
11	04	2 1/2	
12	07	3	
13	10 1/2	3 1/2	
14	14	3 1/2	
15	16 1/2	2 1/2	
16	19	2 1/2	
17	21 1/2	2	conn
18	30	2 1/2	
19	33	3	
20	37	4	
21	40	3	
22	43 1/2	3 1/2	V-336 wt 9.9 10m3
23	46 1/2	3	
24	49 1/2	3	
25	53	3 1/2	
26	57	4	
27	3:01	4	
28	5	4	
29	8	3	
30	10	2	
31	12	2	
32	15	3	
33	17 1/2	3 1/2	
34	19 1/2	2	
35	22	2 1/2	
36	24	2	
37	26	2	
38	29 1/2	3 1/2	
39	32	2 1/2	
40	34 1/2	2 1/2	
41	37	2 1/2	
42	40	3	
43	43 1/2	2 1/2	
44	45	2 1/2	
45	47	2	
46	49 1/2	2 1/2	
47	53	3 1/2	
48	57 1/2	4 1/2	
49	34 1/2	2	conn shape 1/4" V-Arg
2850	38 1/2	2 1/2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2850 51	38 1/2 42	3 1/2	
52	44	2	
53	46	2	
54	48	2	
55	51 1/2	3 1/2	
56	56	4 1/2	
57	5:00	4	
58	5	5	
59	8	3	
60	12	4	
61	15 1/2	3 1/2	
62	20	4 1/2	
63	24 1/2	4 1/2	
64	29	4 1/2	
65	33 1/2	3 1/2	
66	36	3 1/2	
67	42	6	
68	46	4	
69	50 1/2	4 1/2	
70	53	2 1/2	
71	58 1/2	3 1/2	
72	58	2 1/2	
73	6:00	2	
74	2	2	
75	52	3 1/2	
76	56	3	
77	1:14	3	
78	15	3 1/2	
79	23 1/2	3	conn? (Hypocenter?)
80	30	4	
81	33	3	
82	36	3	
83	39	3	
84	42	3	
85	44 1/2	2 1/2	
86	47	2 1/2	
87	49	2	
88	52	3	
89	55	3	
90	7:00	5	
91	4	4	
92	8	4	
93	13	5	
94	18	5	
95	22	4	
96	25	3	
97	28	3	
98	30	2	
99	32 1/2	2 1/2	
2900	35 1/2	3	

ROTARY DRILLING TIME SHEET # 503
NAME AND COMPANY OF DRILLER
DATE

COMPANY Bear Yet

FARM 086

WELL NO. 8

SEC. TWP. RGE. LOC.

COUNTY Cowley

STATE Kan.

CONTRACTOR Berentz Dols

SIZE HOLE 7 7/8"

DRILL PIPE 4 1/2" x 11'

REMARKS:

SIZE PUMP LINERS 6" LENGTH STROKE 74"

DATE 5-5-01

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2900 1	13 40	4 1/2	
2	43	3	
3	45	2	
4	50	5	
5	54	4	
6	58	4	
7	59 1/2	16	
8	501	18	
9	4	3	
10	17	3	
11	15	3	conn
12	18 1/2	3 1/2	
13	22 1/2	4	
14	25	2 1/2	
15	27	2	13.39 at 10.0 10m 4
16	29 1/2	2 1/2	
17	32	2 1/2	
18	34	2	
19	36 1/2	2 1/2	
20	39	2 1/2	
21	42	3	
22	46	4	
23	49 1/2	3 1/2	
24	53	3 1/2	
25	57	4	
26	9 1/2	3 1/2	
27	04 1/2	4	
28	7 1/2	3	
29	10	2 1/2	
30	13 1/2	2 1/2	
31	15	2 1/2	
32	18 1/2	3 1/2	
33	21 1/2	3	
34	24	2 1/2	
35	26 1/2	2 1/2	
36	29	2 1/2	
37	32 1/2	3 1/2	
38	36	3 1/2	
39	39	3	
40	41 1/2	2 1/2	
41	44	2 1/2	
42	53	2	conn
43	56 1/2	3 1/2	
44	1000	3 1/2	
45	02	2	
46	04 1/2	2 1/2	
47	7 1/2	3	
48	10	2 1/2	
49	12 1/2	2 1/2	
2950	16	3 1/2	Call Geo if Not here

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2950 51	16 19	3	
52	23	4	
53	26 1/2	3 1/2	
54	30	3 1/2	
55	33	3	
56	39 1/2	4 1/2	
57	41	3 1/2	
58	44	3	
59	47	3	
60	51 1/2	4	
61	54	3	
62	57	3	
63	1 1/2	4	
64	1 5/8	3	WT 9.9 - Vis 40-
65	10 1/2	3	
66	10	3	
67	14	4	
68	18	4	
69	21	3	
70	24	3	
71	26	2	
72	30 1/2	4	conn
73	45	5	
74	49	4	
75	52	3	
76	57	5	
77	10 02	5	
78	07	5	
79	18	12	
80	26	8	Brakes -
81	32	6	
82	34	2	
83	43	9	
84	48	5	
85	53	5	
86	58	5	
87	1:02	4	
88	06	4	
89	10	4	
90	14	4	
91	17	3	
92	20	3	
93	23	3	
94	28	5	
95	32	4	
96	35	3	
97	38	3 1/2	
98	42	4	
99	46	4	
3000	50	4	

NOTARY DOLLING TIME 1:00 PM 5-5-01
KANSAS BLIND PRINT CO. MINISTERS, KANSAS
09-281

COMPANY *Bear Pet*FARM *orc*WELL NO. *8*

SEC. TWP. RGE. LOC.

COUNTY *Conley*STATE *MS*CONTRACTOR *Boren 2 Drig*SIZE HOLE *7 1/8*DRILL PIPE *4 1/2*

REMARKS:

SIZE PUMP LINERS *6* LENGTH STROKE *14*DATE *5-6-01*

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3000 1	2550 53	3	
2	56	3	
3	59	3	
4	08	4	
5	10	2	Vis 35
6	14	4	WT 9.9
7	17	3	
8	21	4	
9	25	4	
10	30	5	
11	39	9	Brakes
12	50	11	
13	54	4	
14	58	4	
15	3:03	5	
16	07	4	
17	12	5	
18	18	6	
19	23	5	
20	27	4	
21	31	4	
22	37	6	
23	43	3	
24	48	3	
25	54	3	
26	59	3	
27	02	3	
28	05	3	
29	09	4	
30	4:03	4	
31	06	3	
32	09	3	
33	12	3	
34	15	4	conn
35	20	3	
36	31	3	Happened
37	34	3	
38	37	3	
39	41	4	
40	47	6	
41	51	4	
42	54	3	
43	58	4	
44	5:03	5	closed
45	07	4	
46	12	5	
47	17	5	
48	22	5	
49	25	3	
50	29	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3050 51	5:18 32	4	
52	36	4	
53	39	3	
54	41	2	
55	43	2 1/2	
56	48	4 1/2	Vis 35
57	52	4	WT 9.9
58	55	3	
59	57	2	
60	6:01	4	
61	03	2	
62	06	3	
63	09	3	
64	12	3	
65	15	5	conn
66	30	6	
67	35	5	
68	39 1/2	4 1/2	
69	44 1/2	4 1/2	
70	48 1/2	4 1/2	
71	52 1/2	4	
72	57 1/2	5	
73	7:02	4 1/2	
74	10	8	Brakes
3075	14	4	
76	18	4	
77	22	4	
78	25 1/2	3 1/2	
79	30	4 1/2	
80	34	6	31 Vis
81	42	6	96 WT
82	47	5	2# Lcm
83	51	4	
84	55	4	
85	8:40 1/2	5 1/2	
86	06 1/2	6	
87	10	3 1/2	
88	14 1/2	4 1/2	
89	21	6 1/2	
90	25 1/2	4 1/2	
91	32	6 1/2	
92	37 1/2	5 1/2	
93	42	4 1/2	
94	46	4	
95	49	3	
96	53	4	
97	9:08 1/2	6 1/2	Conn - V.R. 9
98	20 1/2	6	Jet volume
99	27	6 1/2	
3100	32 1/2	5 1/2	

ROTARY DRILLING TIME SHEET - 503
NAME AND PHONE OF DRILLERRecorder No.
09-281

CALL N. J. HICKS

COMPANY Bear FARM ORE WELL NO. 8
 SEC. TWP. RGE. LOC. COUNTY Cowley STATE KS.
 CONTRACTOR Bear SIZE HOLE 7 7/8 DRILL PIPE 4 1/2
 REMARKS: SIZE PUMP LINERS 6" LENGTH STROKE 17

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
300	36	6	Bit Trip
01	41	6	Call Geo when on
02	47	6	Bo Hem
03	50	3	
04	56	6	
05	58	6	
06	97		
07	16	7	
08	22	6	
09	29	7	
10	30	9	
11	42	6	
12	52	10	
13	57	5	
14	3:04	7	
15	09	5	
16	13	4	
17	18	5	34 Vis
18	24	5	9.7 WT
19	30	6	
20	37	7	
21	42	5	
22	46	4	
23	52	6	
24	54	6	
25	58	6	
26	09	5	
27	12	5	
28	15	4	
29	28	4	
30	38	4	
31	35	3	
32	39	4	
33	42	4	
34	42	4	
35	42	4	
36	51	6	
37	50	4	
38	05	3	
39	08	3	
40	12	4	
41	18	6	
42	22	4	
43	26	4	
44	30	4	
45	34	4	
46	29	5	
47	44	5	
48	48	4	
49	52	4	
50	56	4	34 Vis 9.7

DEPTH	TIME O'CLOCK	MIN.	REMARKS
51	56	4	
52	06	6	
53	09	3	
54	12	3	
55	24	3	CONN
56	27	3	
57	31	4	
58	36	5	
59	41	6	
60	46	5	
61	51	5	
62	54	5	
63	7:01	6	
64	05 1/2	4 1/2	
65	11 1/2	6	
66	17	5 1/2	
67	22	5	
68	27	5	
69	31 1/2	4 1/2	
70	35	3 1/2	
71	38 1/2	3 1/2	
72	42 1/2	4	
73	47 1/2	5	
74	51	3 1/2	
3175	56	5	
76	59 1/2	3 1/2	
77	8:04	3 1/2	
78	09 1/2	5 1/2	
79	14 1/2	5	
80	19	4 1/2	
81	23	4	
82	28 1/2	5 1/2	
83	33 1/2	5	
84	38 1/2	5	
85	43	4 1/2	
86	47	4	
87	51 1/2	4 1/2	
88	56	4 1/2	
89	59	3 1/2	conn - ✓ Rig
90	14 1/2	4 1/2	
91	20	5 1/2	
92	26 1/2	6 1/2	
93	33 1/2	7	34 Vis
94	37 1/2	4	9.7 WT
95	42 1/2	5	2nd com
96	48	5 1/2	
97	53	5	
98	58 1/2	5 1/2	
99	10:04 1/2	6	
3200	08 1/2	4	

COMPANY Beor Pet. FARM ORE WELL NO. 8
 SEC. TWP. AGE. LOC. COUNTY Cowley STATE KS.
 CONTRACTOR Berentz SIZE HOLE 7 7/8" DRILL PIPE 4 1/2"
 REMARKS: SIZE PUMP LINERS LENGTH STROKE

DATE 5-7-2001

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3200 01	10:08 11	3	
02	16	4 1/2	
03	21	5	
04	27	6	
05	32 1/2	5 1/2	
06	37 1/2	5	
07	42	4 1/2	
08	48 1/2	6 1/2	
09	54 1/2	6	
10	11:00	5 1/2	
11	03 1/2	3 1/2	
12	7 1/2	4	
13	12		
14	17 1/2		
15	22 1/2		
16	27		
17	31		
18	35		
19	40		
20	44		
21	48 1/2	2 1/2	Conn-
22	56	4 1/2	
23	10:01 1/2	5 1/2	
24	07	5 1/2	
3225 25	13	6	
26	18	5	
27	22 1/2	4 1/2	
28	27	4 1/2	
29	32 1/2	4 1/2	
30	37 1/2	5	Hopper open
31	42	4 1/2	
32	48 1/2	6 1/2	
33	56	7 1/2	
34	1:00 1/2	4 1/2	
35	04 1/2	4	
36	09	4 1/2	
37	15 1/2	6 1/2	Hopper closed
38	24	8 1/2	
39	26 1/2	2 1/2	
40	30	3 1/2	
41	33 1/2	3 1/2	
42	37 1/2	4	
43	42	4 1/2	
44	45	3	
45	48 1/2	3 1/2	
46	51	2 1/2	
47	55	4	
48	59 1/2	4 1/2	
49	2:03 1/2	4	
3250 50	07 1/2	2	Conn-

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3250 51	2:11 1/2 15 1/2	4	
52	18 1/2	3	
53	21 1/2	3	
54	25	3 1/2	
55	29	4	
56	33 1/2	4 1/2	
57	36 1/2	3	
58	41	4 1/2	
59	45	4	
60	49	4	
61	54	5	
62	57 1/2	3 1/2	
63	3:02	4 1/2	
64	06	4	
65	11	5	
66	14 1/2	3 1/2	
67	19	3 1/2	
68	22	4	
69	26	4	
70	30 1/2	6 1/2	
71	36	3 1/2	
72	39 1/2	3 1/2	
73	43 1/2	4	
74	48 1/2	5	
3275 75	54 1/2	6	
76	58	3 1/2	
77	40 1/2	3 1/2	
78	5	4 1/2	
79	9	4	
80	14	5	
81	19 31	2	Conn-
82	34 1/2	1 1/2	Hopper open
83	35 1/2	3	
84	38	2 1/2	
85	41	3	
86	43 1/2	2 1/2	
87	45 1/2	2	
88	48 1/2	3	
89	52	3 1/2	
90	55 1/2	3 1/2	
91	500	4 1/2	
92	34	3 1/2	
93	7	3 1/2	
94	11	4	
95	12 1/2	6 1/2	
96	23	5 1/2	
97	26	3	
98	30	4	
99	35	5	Closed
3300	40	5	

COMPANY Bentley FARM Ore WELL NO. 8
 SEC. TWP. RGE. LOC. COUNTY Cowley STATE Ks
 CONTRACTOR Berent 2 Drig SIZE HOLE 7 7/8 DRILL PIPE 4 1/2 x 1 1/2
 REMARKS: SIZE PUMP LINERS 6" LENGTH STROKE 1 1/2"

DATE 5-9-01

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3300			
01	8:04	7 1/2	
02	55	7 1/2	
03	6:01	6	
04	1	5	
05	12	6	
06	18	6	
07	24	6	
08	28	4	
09	3:14	3 1/2	
10	37 1/2	6	
11	45	6 1/2	
12	53 1/2	3	Conn
13	57	4	
14	7:04	5	
15	2	4	
16	14	6	
17	19	5	
18	24	5	
19	28	4	
20	33	5	
21	38	5	
22	43	5	
23	47 1/2	4 1/2	
24	53 1/2	6	
3325	8:00	6 1/2	
26	5	5	
27	11	6	
28	16 1/2	5 1/2	
29	23	6 1/2	
30	29	6	
31	34	5	
32	38	4	
33	42	4	
34	47 1/2	5 1/2	
35	54	6 1/2	
36	58	4	Kinderhook shale
37	9:04	3 1/2	
38	04	3	
39	8	3 1/2	
40	12	4	
41	15	3	
42	18	3	
43	21	3	
44	29	1 1/2	Conn
45	34	4	
46	38 1/2	4	Vis 35 wt 98 Lcm 4
47	43	4 1/2	
48	47 1/2	4 1/2	
49	52	4 1/2	
3350	57	5	Call Red

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3350			
51	58	5	
52	7 1/2	5 1/2	
53	11	3 1/2	
54	15 1/2	4	
55	19 1/2	4	
56	24	4 1/2	
57	29	5	
58	34	3 1/2	
59	38	3 1/2	
60	40	4	
61	45	5	
62	49	4	
63	53	4	
64	56	3	
65	1:00	4	Valve Cap.
66	1:04	3	
67	23	5	
68	27	4	
69	33	6	
70	36	3	
71	40	4	
72	46	4	
73	51	5	
74	1:04	4	Conn
3375	08	4	
76	12	6	
77	14	6	
78	24	6	37 Vis 98 wt -
79	30	6	
80	36	6	
81	41	5	
82	46	5	
83	52	6	
84	54	6	
85	1:07	8	
86	12	5	
87	17	5	
88	22	5	
89	29	7	Hopper open
90	36	7	
91	43	7	Hopper closed
92	49	6	
93	55	6	
94	2:00	5	
95	06	6	
96	13	7	
97	18	5	
98	22	4	
99	26	4	
3400	31	5	

ROTARY DRILLING TIME SHEET - 509
 FORM NO. 1
 BUREAU OF MINES
 U.S. DEPARTMENT OF THE INTERIOR

620-0891

COMPANY Bur R FARM OR WELL NO. 8
 SEC. TWP. ROE CO. CO COUNTY Cowley STATE KANSAS
 CONTRACTOR Bur R SIZE HOLE 7 1/4 DRILL PIPE 4 1/2
 REMARKS: 1400 ft SIZE PUMP LINERS 6" LENGTH STROKE 14
321-1397

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3400	23	5	
01	41	5	
02	45	4	
03	50	5	
04	55	4	conn
05	3:02	3	
06	07	5	
07	12	5	
08	16	4	
09	21	5	
3410	25	4	
11	30	5	
12	34	5	
13	38	4	
14	42	4	
15	45	4	
16	49	4	
17	53	4	
18	57	4	
19	01	4	
20	05	4	
21	09	4	
22	13	4	
23	17	4	
24	21	4	
25	25	4	
26	29	4	
27	33	4	
28	37	4	
29	41	4	
30	45	4	
31	49	4	
32	53	4	
33	57	4	
34	01	4	
35	05	4	
36	09	4	
37	13	4	
38	17	4	
39	21	4	
40	25	4	
41	29	4	
42	33	4	
43	37	4	
44	41	4	
45	45	4	
46	49	4	
47	53	4	
48	57	4	
49	01	4	
50	05	4	
51	09	4	
52	13	4	
53	17	4	
54	21	4	
55	25	4	
56	29	4	
57	33	4	
58	37	4	
59	41	4	
60	45	4	
61	49	4	
62	53	4	
63	57	4	
64	01	4	
65	05	4	
66	09	4	
67	13	4	
68	17	4	
69	21	4	
70	25	4	
71	29	4	
72	33	4	
73	37	4	
74	41	4	
75	45	4	
76	49	4	
77	53	4	
78	57	4	
79	01	4	
80	05	4	
81	09	4	
82	13	4	
83	17	4	
84	21	4	
85	25	4	
86	29	4	
87	33	4	
88	37	4	
89	41	4	
90	45	4	
91	49	4	
92	53	4	
93	57	4	
94	01	4	
95	05	4	
96	09	4	
97	13	4	
98	17	4	
99	21	4	
100	25	4	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3450	11	3	
51	15	3	
52	19	3	
53	23	3	
54	27	3	
55	31	3	
56	35	3	
57	39	3	
58	43	3	
59	47	3	
60	51	3	
61	55	3	
62	59	3	
63	03	3	
64	07	3	
65	11	3	
66	15	3	
67	19	3	
68	23	3	
69	27	3	
70	31	3	
71	35	3	
72	39	3	
73	43	3	
74	47	3	
75	51	3	
76	55	3	
77	59	3	
78	03	3	
79	07	3	
80	11	3	
81	15	3	
82	19	3	
83	23	3	
84	27	3	
85	31	3	
86	35	3	
87	39	3	
88	43	3	
89	47	3	
90	51	3	
91	55	3	
92	59	3	
93	03	3	
94	07	3	
95	11	3	
96	15	3	
97	19	3	
98	23	3	
99	27	3	
100	31	3	