31-22

COMPANY Cities Service FARM Appleman WELL NO. A-1

SEC 31 TWP. 25 RGE. 5E LOC. COUNTY Butler STATE Kansas

CONTRACTOR WHITE & ELLIS DRLG., Inc. SIZE HOLE DRILL PIPE

DATE: RIG NO. SIZE PUMP LINERS LENGTH STROKE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
1300 01	11:52/53½	1½	
02	53	1½	
03	53½	1½	
04	53¾	¼	
05	11.54	¼	
06	54½	1½	
07	55	1½	
08	55½/1200	1½	Conn.
09	1	1	
10	12:02	1	
11	3	1	
12	4	1	
13	4½	1½	
14	5	1½	
15	12:06	1	
16	7	1	
17	8	1	
18	9	1	
19	10	1	
20	12	2	
21	14	2	
22	16	2	
23	17½	1½	
24	19½	2	
25	21	1½	
26	23	2	
27	24	1	
28	25½	1½	
29	29	1½	
30	28	1	
31	29½	1½	
32	30½	1	
33	32	1½	
34	33	1	
35	34	1	
36	35½	1½	
37	36½	1	
38	40/41½	1½	
39	42½	1	
40	43	1½	
41	44	1	
42	44½	1½	
43	45½	1	
44	46½	1	
45	47	1½	
46	48	1	
47	49	1	
48	50	1	
49	51	1	
50	12:52	1	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
51	53	1	
52	53½	1½	
53	54	1½	
54	55	1	
55	56	1	
56	57	1	
57	58	1	
58	1:00	2	
59	0½	1½	
60	1:01	1½	
61	2	1	
62	2½	1½	
63	3	1½	
64	3½	1½	
65	1:04	1½	
66	4½	1½	
67	5	1½	
68	9½/10	1½	
69	10½	1½	
70	11	1½	
71	11½	1½	
72	12	1½	
73	12½	1½	
74	13	1½	
75	14	1	
76	14½	1½	
77	15	1½	
78	16	1	
79	17	1	
80	17½	1½	
81	18½	1	
82	19	1½	
83	19½	1½	
84	20	1½	
85	20½	1½	
86	21	1½	
87	21½	1½	
88	22	1½	
89	22½	1½	
90	23½	1½	
91	24½	1½	
92	25½	1½	
93	26	1½	
94	26½	1½	
95	27	1½	
96	27½	1½	
97	28	1½	
98	28½	1½	
99	29	1½	
1400	33/33½	1½	

COMPANY C & O FARM Appleman "A" WELL NO. 1

SEC. TWP. RGE. LOC. COUNTY Bu. STATE Ky.

CONTRACTOR WHITE & ELLIS DRLG., Inc. SIZE HOLE 7 7/8 DRILL PIPE 4 1/2

DATE: RIG NO. 4 SIZE PUMP LINERS 7 LENGTH STROKE 12

DEPTH	TIME O'CLOCK	MIN.	REMARKS
14 01	~~33½~~ 33½	¼	
02	34	¼	
03	34½	½	
04	35	½	
05	36	1	
06	37½	1½	
07	38	½	
08	39	1	
09	40	1	
10	41½	1½	
11	42½	1	
12	43½	1	
13	44½	1	
14	46	1½	
15	47	1	
16	48	1	
17	49½	1½	
18	51	1½	
19	52	1	
14 20	54	2	
21	56	2	
22	58	2	
23	59½	1½	
24	2:01	1½	
25	2:03	2	
26	4½	1½	
27	6	1½	
28	7	1	
29	8	1	
30	~~17~~ 18½	1½	Conn Set
31	20	1½	
32	21	1	
33	22	1	
34	23	1	
35	24½	1½	
36	26	1½	
37	28	2	
38	30	2	
39	31	1	
14 40	33	2	
41	35	2	
42	36	1	
43	36½	1½	
44	37	1½	
45	38	1	
46	39	1	
47	42	3	
48	~~49~~ 52	3	
49	52½	1½	
50	53	1½	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
51	54	1	
52	55	1	
53	56	1	
54	57	1	
55	59	2	
56	2:01	2	
57	03	2	
58	04½	1½	
59	05½	1	
14 60	07	1½	
61	08	1	Conn
62	18/19	1	
63	20	1	
64	21	1	
65	22	1	
66	23	1	
67	24	1	
68	26	2	
69	28	2	
14 70	30	2	
71	30½	½	
72	31	½	
73	32	1	
74	33	1	
75	34	1	
76	35	1	
77	36	1	
78	37	1	
79	38	1	
14 80	39	1	
81	40	1	
82	41	1	
83	42	1	
84	43	1	
85	44	1	
86	44½	½	
87	45	½	
88	46	1	
89	47	1	
14 90	48	1	
91	48½	½	
92	49	½	Conn.
93	3:52/55	2	
94	57	2	
95	59	2	
96	4:02	3	
97	05	3	
98	06	1	
99	06½	½	
15 00	07	½	

COMPANY C & O. FARM Appleman "A" WELL NO. 1

SEC. TWP. RGE. LOC. COUNTY Ru. STATE Ky.

CONTRACTOR WHITE & ELLIS DRLG., Inc. SIZE HOLE 7 7/8 DRILL PIPE 4 1/2

DATE: RIG NO. 4 SIZE PUMP LINERS 7 LENGTH STROKE 12

DEPTH	TIME O'CLOCK	MIN.	REMARKS
15 01	4:07/08	1	
02	08 1/2	1/2	
03	09 1/2	1	
04	10 1/2	1	
05	11 1/2	1	
06	12 1/2	1	
07	13 1/2	1	
08	14	1/2	
09	15	1	
15 10	16	1	
11	17	1	
12	18	1	
13	19	1	
14	20	1	
15	20 1/2	1/2	
16	21	1	
17	22	1	
18	22 1/2	1/2	
19	23	1/2	
15 20	23 1/2	1/2	
21	24	1/2	
22	24 1/2	1/2	
23	25	1/2	conn.
24	4:29/29 1/2	1/2	
25	30	1/2	
26	30 1/2	1/2	
27	31 1/2	1	
28	32	1/2	
29	32 1/2	1/2	
15 30	33	1/2	
31	34	1	
32	34 1/2	1/2	
33	35	1/2	
34	36	1	
35	36 1/2	1/2	
36	37	1/2	
37	37 1/2	1/2	
38	38	1/2	
39	39	1	
15 40	40	1	
41	40 1/2	1/2	
42	41	1/2	
43	41 1/2	1/2	
44	42	1/2	
45	42 1/2	1/2	
46	43	1/2	
47	44	1	
48	44 1/2	1/2	
49	45	1/2	
15 50	45 1/2	1/2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
15 51	46 1/2	1	
52	47	1/2	
53	47 1/2	1/2	
54	48	1/2	conn.
55	4:52/52 1/2	1/2	
56	53	1/2	
57	54	1	
58	55	1	
59	56	1	
15 60	57	1	
61	58	1	
62	59	1	
63	5:00	1	
64	02	2	
65	03	1	
66	04	1	
67	05	1	
68	07	2	
69	08	1	
15 70	09 1/2	1 1/2	
71	11	1 1/2	
72	12	1	
73	14	2	
74	15	1	
75	16	1	
76	17	1	
77	18	1	
78	19	1	
79	20	1	
15 80	21	1	
81	22	1	
82	23	1	
83	24	1	
84	25 1/2	1 1/2	
85	26 1/2	1	conn.
86	5:30/31	1	
87	32	1	
88	33	1	
89	34	1	
15 90	35	1	
91	35 1/2	1/2	
92	36 1/2	1	
93	37 1/2	1	
94	38	1/2	
95	39	1	
96	40	1	
97	41	1	
98	42	1	
99	43	1	
16 00	44	1	

COMPANY C.S.O. FARM Appleman "A" WELL NO. 1

SEC. TWP. RGE. LOC. COUNTY Bu. STATE Ka.

CONTRACTOR WHITE & ELLIS DRLG., Inc. SIZE HOLE 7 7/8 DRILL PIPE 4 1/2

DATE: RIG NO. 4 SIZE PUMP LINERS 7 LENGTH STROKE 12

DEPTH	TIME O'CLOCK	MIN.	REMARKS
16 01	5:44/45	1	
02	45 1/2	1/2	
03	46 1/2	1	
04	47 1/2	1	
05	48 1/2	1	
06	49	1/2	
07	50	1	
08	51	1	
09	52	1	
16 10	53	1	
11	54	1	
12	54 1/2	1/2	
13	55	1/2	
14	56	1	
15	58	1	
16	59	1	Conn.
17	6:01/02	1	
18	03	1	
19	04	1	
16 20	04 1/2	1/2	
21	05	1/2	
22	06	1	
23	07	1	
24	08	1	
25	08 1/2	1/2	
26	09	1/2	
27	10	1	
28	12	2	
29	15	3	
16 30	18	3	
31	22	4	
32	23	1	
33	24	1	
34	25	1	
35	25 1/2	1/2	
36	26	1/2	
37	27	1	
38	28	1	
39	29	1	
16 40	30	1	
41	31	1	
42	32	1	
43	33	1	
44	34	1	
45	35	1	
46	36	1	
47	38	2	Conn. + CT
48	6:45/46	1	
49	46 1/2	1/2	
16 50	47	1/2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
16 51	48	1	
52	49	1	
53	50	1	
54	51	1	
55	52	1	
56	53	1	
57	54	1	
58	55 1/2	1 1/2	
59	56	1/2	
16 60	57 1/2	1 1/2	
61	58 1/2	1	
62	7:00	1 1/2	
63	01	1	
64	02	1	
65	04	2	
66	06	2	
67	07	1	
68	09	2	
69	12	3	
16 70	15 1/2	3 1/2	
71	18	2 1/2	
72	20	2	
73	22	2	
74	24	2	
75	25	1	
76	27	2	
77	29	2	
78	30	1	Conn. Trip OIC
79	8:34/35	1	
16 80	37	2	
81	38	1	
82	39	1	
83	40	1	
84	41	1	
85	42	1	
86	43	1	
87	44	1	
88	45	1	
89	45 1/2	1/2	
16 90	46 1/2	1	
91	47 1/2	1	
92	48 1/2	1	
93	49	1/2	
94	50	1	
95	51	1	
96	52	1	
97	53	1	
98	54	1	
99	54 1/2	1/2	
17 00	55	1/2	

COMPANY CSO FARM Applemen "A" WELL NO. 1

SEC. TWP. RGE. LOC. COUNTY Ba. STATE Ka.

CONTRACTOR WHITE & ELLIS DRLG., Inc. SIZE HOLE 7 7/8 DRILL PIPE 4 1/2

DATE: RIG NO. 4 SIZE PUMP LINERS 7 LENGTH STROKE 12

DEPTH	TIME O'CLOCK	MIN.	REMARKS
17 01	8:55/56	1	
02	57	1	
03	58	1	
04	58 1/2	1/2	
05	59	1/2	
06	9:00	1	
07	1/2	1/2	
08	01	1/2	
09	01 1/2	1/2	Conn.
17 10	9:09/9 1/2	1/2	
11	10 1/2	1	
12	11	1/2	
13	12	1	
14	13	1	
15	14	1	
16	15	1	
17	15 1/2	1/2	
18	16	1/2	
19	17	1	
17 20	18	1	
21	19	1	
22	20	1	
23	20 1/2	1/2	
24	21	1/2	
25	22	1	
26	23	1	
27	23 1/2	1/2	
28	24	1/2	
29	25	1	
17 30	27	2	
31	29	2	
32	31	2	
33	34	3	
34	36	2	
35	38	2	
36	40	2	
37	42	2	
38	44 1/2	2 1/2	
39	47	2 1/2	
17 40	48	1	Conn.
41	9:52/53	1	
42	54 1/2	1 1/2	
43	56	1 1/2	
44	57 1/2	1 1/2	
45	59	1 1/2	
46	10:00	1	
47	01	1	
48	02	1	
49	04	2	
17 50	05	1	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
17 51	06	1	
52	08	2	
53	09	1	
54	11	2	
55	13	2	
56	14	1	
57	15	1	
58	16 1/2	1 1/2	
59	17	1/2	
17 60	17 1/2	1/2	
61	18 1/2	1	
62	19 1/2	1	
63	20 1/2	1	
64	21 1/2	1 1/2	
65	23	1 1/2	
66	24	1	
67	26	2	
68	27	1	
69	28	1	Conn
17 70	30/31	1	
71	31 1/2	1/2	
72	32	1/2	
73	33	1	
74	34	1	
75	34 1/2	1/2	
76	35	1/2	
77	36	1	
78	37	1	
79	38	1	
17 80	39	1	
81	39 1/2	1/2	
82	40	1/2	
83	41	1	
84	42	1	
85	42 1/2	1/2	
86	43	1/2	
87	43 1/2	1/2	
88	44 1/2	1	
89	45	1/2	
17 90	46	1	
91	47	1	
92	48	1	
93	49	1	
94	50 1/2	1 1/2	
95	52	1 1/2	
96	53 1/2	1 1/2	
97	55	1 1/2	
98	57	2	
99	59	2	
18 00	11:00	1	

COMPANY CSO. FARM Apple Max WELL NO. 1

SEC. TWP. RGE. LOC. COUNTY Bu STATE KS

CONTRACTOR WHITE & ELLIS DRLG., Inc. SIZE HOLE 7 7/8 DRILL PIPE 4½

DATE: RIG NO. 4 SIZE PUMP LINERS 7 LENGTH STROKE 12

DEPTH	TIME O'CLOCK	MIN.	REMARKS
18 01	11:00 02	2	CONN
02	10 12	2	
03	14	2	
04	15½	1½	
05	17	1½	
06	19	2	
07	20	1	
08	22	2	
09	23	1	
18 10	24	1	
11	26	2	
12	27	1	
13	29	2	
14	30	1	
15	32	2	
16	34	2	
17	36	2	
18	37	1	
19	39	2	
18 20	41	2	
21	42½	1½	
22	44	1½	
23	46	2	
24	47	1	
25	48	1	
26	50	2	
27	51	1	
28	52	1	
29	53	1	
18 30	54	1	
31	55	1	CONN
32	59 12:00	1	
33	01	1	
34	03	2	
35	04½	1½	
36	06	1½	
37	08	2	
38	10	2	
39	11½	1½	
18 40	13	1½	
41	15	2	
42	17	2	
43	19	2	
44	20	1	
45	21½	1½	
46	23	1½	
47	24	1	
48	26	2	
49	27½	1½	
18 50	30	2½	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
18 51	30 32	2	
52	34	2	
53	37	3	
54	40	3	
55	42	2	
56	45	3	
57	47	2	
58	49½	2½	
59	52	2½	
18 60	54	2	
61	57	3	
62	59	2	CONN
63	1:02 04	2	
64	05	1	
65	07	2	
66	08	1	
67	09	1	
68	11	2	
69	13	2	
18 70	14½	1½	
71	16	1½	
72	18	2	
73	20	2	
74	22	2	
75	24	2	
76	26	2	
77	27	1	
78	29	2	
79	30	1	
18 80	32	2	
81	33	1	
82	35	2	
83	36	1	
84	38	2	
85	39	1	
86	41	2	
87	42	1	
88	44	2	
89	46	2	
18 90	47	1	
91	49	2	
92	50	1	
93	51	1	CONN
94	56 57	1	
95	58½	1½	
96	2:00	1½	
97	01½	1½	
98	03	1½	
99	04½	1½	
19 00	06	1½	

COMPANY C.S.O. FARM Appleman "A" WELL NO. 1

SEC. TWP. RGE. LOC. COUNTY Butler STATE KS

CONTRACTOR WHITE & ELLIS DRLG., Inc. SIZE HOLE 7 7/8 DRILL PIPE 4½

DATE: RIG NO. 4 SIZE PUMP LINERS 7 LENGTH STROKE 12

DEPTH	TIME O'CLOCK	MIN.	REMARKS
19 01	2:06 07	1	
02	09	2	
03	10½	1½	
04	12	1½	
05	13½	1½	
06	15	1½	
07	17	2	
08	18	1	
09	20	2	
19 10	21	1	
11	23	2	
12	24	1	
13	26	2	
14	27	1	
15	28	1	
16	30	2	
17	31	1	
18	32½	1½	
19	34	1½	
19 20	35	1	
21	37	2	
22	38	1	
23	39	1	
24	40	1	CONN Jet Pits
25	41	1	
26	42	1	
27	58 59	1	
28	3:00	1	
29	01	1	
19 30	03	2	
31	04	1	
32	05	1	
33	06	1	
34	07½	1½	
35	09	1½	
36	10	1	
37	11	1	
38	13	2	
39	14	1	
19 40	15	1	
41	17	2	
42	18	1	
43	19	1	
44	21	2	
45	22	1	
46	23	1	
47	24½	1½	
48	26	1½	
49	27	1	
19 50	28½	1½	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
19 51	3:25½ 30	1½	
52	31	1	
53	32½	1½	
54	34	1½	
55	35	1	CONN
56	40 41½	1½	
57	43	1½	
58	44½	1½	
59	46	1½	
19 60	47	1	
61	48	1	
62	50	2	
63	51	1	
64	52	1	
65	54	2	
66	55	1	
67	56	1	
68	57½	1½	
69	59	1½	
19 70	4:00	1	
71	01	1	
72	02½	1½	
73	04	1½	
74	05	1	
75	06	1	
76	08	2	
77	09	1	
78	10	1	
79	11	1	
19 80	12½	1½	
81	13½	1	
82	15	1½	
83	16	1	
84	17	1	
85	18	1	
86	19	1	CONN
87	25 27	2	
88	28½	1½	
89	30	1½	
19 90	31	1	
91	32	1	
92	33½	1½	
93	34½	1	
94	36	1½	
95	37	1	
96	38	1	
97	39	1	
98	40½	1½	
99	41½	1	
20 00	43	1½	

COMPANY C. S. O. FARM Appleman "A" WELL NO. 1

SEC. TWP. RGE. LOC. COUNTY Butler STATE KS

CONTRACTOR WHITE & ELLIS DRLG., Inc. SIZE HOLE 7 3/8 DRILL PIPE 4 1/2

DATE: RIG NO. 4 SIZE PUMP LINERS 7 LENGTH STROKE 12

DEPTH	TIME O'CLOCK	MIN.	REMARKS
20 01	~~43~~ 44	1	
02	45	1	
03	46	1	
04	47	1	
05	48½	1½	
06	50	1½	
07	51	1	
08	52	1	
09	53	1	
20 10	54	1	
11	55½	1½	
12	57	1½	
13	58	1	
14	59	1	
15	5:00	1	
16	01	1	
17	~~06~~ 07	1	
18	08	1	
19	09	1	
20 20	11	2	
21	12½	1½	
22	15	2½	
23	17½	2½	
24	20	2½	
25	21	1	
26	23	2	
27	26	3	
28	28	2	
29	30	2	
20 30	32	2	
31	35	3	
32	36	1	
33	37	1	
34	37½	½	
35	39	1½	
36	5:40½	1½	
37	~~37~~ 39	2	trip out
38	41	2	
39	43	2	Strap long by 3'
20 40	45	2	No Colr.
41	47	2	
42	51	4	
43	54	3	
44	58	4	
45	8:01	3	
46	4	3	
47	8	4	
48	~~30~~ 31	1	SHS=1° @2047
49	~~32½~~ 33½	1½	
20 50	~~33½~~ 34½	1	Call Geol.

DEPTH	TIME O'CLOCK	MIN.	REMARKS
20 51	35	1½	
52	36	1	
53	37	1	
54	38½	1½	
55	40	1½	
56	42	2	
57	43½	1½	
58	45	1½	
59	46	1	
20 60	48	2	
61	49	1	
62	51	2	
63	~~52~~	1	
64	54	2	
65	56	2	
66	59	3	
67	2	3	
68	4½	2½	
69	7	2½	
20 70	9½	2½	
71	12	2½	
72	15½	3½	
73	18	2½	
74	20	2	
75	22½	2½	
76	24½	2	
77	~~28~~ 29	1	
78	31	2	
79	33	1	
20 80	34	1	
81	35	1	
82	36	1	
83	37	1	
84	38	1	
85	39	1	
86	40½	1½	
87	42	1½	
88	43	1	
89	44½	1½	
20 90	46	1½	
91	48	2	
92	50½	2½	
93	53	2½	
94	55½	2½	
95	59	3½	
96	10:01	2	
97	4	3	
98	7	3	
99	9	2	Gut
21 00	~~13~~ 14½	1½	

COMPANY Cities Service FARM Appleman WELL NO. A-1

SEC. TWP. RGE. LOC. COUNTY Butler STATE Kansas

CONTRACTOR WHITE & ELLIS DRLG., Inc. SIZE HOLE 7 7/8 DRILL PIPE 4½

DATE: RIG NO. 4 SIZE PUMP LINERS 7 LENGTH STROKE 12

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2100 01	10:14½	2	
02	18½	2	
03	20	1½	
04	21½	1½	
05	23	1½	
06	25	2	
07	27	2	
08	31 33	2	
09	35	2	
21 10	37	2	
11	39	2	
12	40	1	
13	42	2	
14	43	1	
15	45	2	
16	47	2	
17	49½	2½	
18	52	2½	
19	54½	2½	
21 20	57	2½	
21	59	2	
22	11:02	3	
23	4	2	
24	5	1	
25	5½	4½	
26	7	1½	
27	8	1	
28	9½	1½	
29	12	2½	
30	14	2	
31	16	2	
32	18	2	
33	20	2	
34	21	1	
35	22½	1½	
36	24	1½	
37	25½	1½	
38	27	1½	
39	32 34	2	Conn Jet
40	36	2	
41	37½	1½	
42	39½	2	
43	42	2½	
44	44	2	
45	47	3	
46	49	2	
47	52	3	
48	54	2	
49	55½	1½	
50	56½	1	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
51	59½	2½	
52	12:02	2½	
53	5	3	
54	7½	2½	
55	10	2½	
56	12	2	
57	14	2	
58	16½	2½	
59	19	2½	
21 60	21	2	
61	24	3	
62	27	3	
63	29	2	
64	31	2	
65	33	2	
66	34½	1½	
67	36	1½	
68	37½	1½	
69	39	1½	
21 70	45 47	1½	Conn Jet &
71	48	1	mud up
72	49½	1½	Hoppe open
73	51	1½	
74	54	3	
75	57	3	
76	1:00	3	
77	3½	3½	
78	7	3½	
79	11	4	
21 80	15	4	
81	19½	4½	
82	23	3½	
83	25½	2½	
84	28	2½	
85	30	2	
86	32	2	
87	35½	3½	
88	41½	6	
89	46½	5	
21 90	52	5½	
91	58	6	
92	2:03	5	
93	9	6	
94	15½	6½	
95	22½	7	trip
96	3:48/49	1	
97	50	1	
98	51½	1½	
99	53	1½	
2200	54	1	Conn.

COMPANY Cities Service oil Co. FARM Applaman "A" WELL NO. 1

SEC. TWP. RGE. LOC. COUNTY Butler STATE Kansas

CONTRACTOR WHITE & ELLIS DRLG., Inc. SIZE HOLE 7 7/8 DRILL PIPE 4½

DATE: RIG NO. 4 SIZE PUMP LINERS 7 LENGTH STROKE 12

DEPTH	TIME O'CLOCK	MIN.	REMARKS
22 01	3:59/4:00	1	
02	02	2	
03	03	1	
04	04	1	
05	05½	1½	
06	06½	1	
07	08	1½	
08	09	1	
09	10	1	
22 10	11	1	
11	12	1	
12	13	1	
13	14½	1½	
14	15½	1	
15	17	1½	
16	18	1	
17	19	1	
18	20	1	
19	21	1	
22 20	22	1	
21	23½	1½	Hopper open
22	24½	1	
23	25½	1	
24	27	1½	
25	28	1	
26	30	2	
27	31	1	
28	32½	1½	
29	34	1½	
22 30	35	1	
31	37	2	Conn.
32	4:40/41	1	
33	43	2	
34	44	1	
35	45	1	
36	46	1	
37	47	1	
38	48	1	
39	50	1	
22 40	51	1	
41	52	1	
42	53	1	
43	54½	1½	
44	56	1½	
45	57	1½	
46	59	2	
47	5:00	1	
48	01	1	
49	02	1	
22 50	04	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
22 51	06	2	
52	07½	1½	
53	09	1½	
54	11	2	
55	12	1	
56	13	1	
57	14	1	
58	16	2	
59	17	1	
22 60	19	2	
61	21	2	
62	24	3	Conn.
63	5:28/29	1	
64	31	2	
65	33	2	
66	36	3	Hopper closed
67	38	2	
68	40	2	
69	42	2	
22 70	44	2	
71	45	1	
72	47	2	
73	49	2	
74	50	1	
75	52	2	
76	53½	1½	
77	55	1½	
78	56	1	
79	58	2	
22 80	59	1	
81	6:01	2	
82	02	1	
83	04	2	
84	05	1	
85	07	2	
86	08	1	
87	10	2	
88	12	2	
89	13	1	
22 90	15	2	
91	17	2	
92	18	1	
93	20	2	Conn.
94	6:24/25	1	
95	26	1	
96	27	1	
97	28	1	
98	29	1	
99	30	1	
23 00	32	2	

COMPANY Cities Service oil Co. FARM Appleman "A" WELL NO. 1

SEC. TWP. RGE. LOC. COUNTY Butler STATE Kansas

CONTRACTOR WHITE & ELLIS DRLG., Inc. SIZE HOLE 7 7/8 DRILL PIPE 4 1/2

DATE: RIG NO. 4 SIZE PUMP LINERS 7 LENGTH STROKE 12

DEPTH	TIME O'CLOCK	MIN.	REMARKS
23 01	6:32/33	1	
02	34	1	
03	36	2	
04	37	1	
05	38	1	
06	40	2	
07	41	1	
08	43	2	
09	44	1	R
23 10	46	2	R
11	48	2	
12	50	2	
13	52	2	
14	53	1	
15	55	2	
16	57	2	Vis 46 WT 9.2
17	59	2	
18	7:00	1	
19	02	2	
23 20	04	2	
21	05	1	
22	07	2	
23	08	1	Conn.
24	7:12/13	1	
25	14	1	
26	15	1	
27	16 1/2	1 1/2	
28	18	1 1/2	
29	19	1	
23 30	20	1	
31	22	2	
32	23	1	
33	24 1/2	1 1/2	
34	26	1 1/2	
35	27	1	
36	28	1	
37	30	2	
38	31	1	
39	32	1	
23 40	34	2	
41	35 1/2	1 1/2	
42	37	1 1/2	
43	38	1	
44	39	1	
45	41	2	
46	42 1/2	1 1/2	
47	44 1/2	2	
48	47	2 1/2	Vis 38 WT 9.3
49	49 1/2	2 1/2	
23 50	52	2 1/2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
23 51	54	2	
52	56	2	
53	58	2	Conn.
54	8:02/03	1	Hopper open
55	06	3	
56	09	3	
57	11	2	
58	13	2	
59	16	3	
23 60	18	2	
61	20	2	
62	22	3	
63	25	3	
64	28	3	
65	30	2	
66	32	2	
67	35	3	
68	38	3	
69	41	3	
23 70	43	2	
71	46	3	
72	48	2	
73	49	1	
74	51	2	
75	53	2	
76	54	2	
77	56	2	
78	58	2	Hopper closed
79	9:00	2	
23 80	02	2	
81	04	2	
82	05	1	
83	07	2	
84	09	2	Conn.
85	9:13/15	2	
86	18	3	
87	21	3	
88	24	3	
89	28	4	
23 90	31	3	
91	33	2	
92	36	3	
93	38	2	
94	40	2	
95	41	1	
96	42	1	
97	46	4	R
98	49	3	
99	53	4	
24 00	57	4	Vis 38 WT 9.5

COMPANY Cities Service oil Co. FARM Appleman ("a") WELL NO. 1

SEC. TWP. RGE. LOC. COUNTY Butler STATE Kansas

CONTRACTOR WHITE & ELLIS DRLG., Inc. SIZE HOLE 7 7/8 DRILL PIPE 4 1/2

DATE: RIG NO. 4 SIZE PUMP LINERS 7 LENGTH STROKE 12

(307 11-10-81) 03

DEPTH	TIME O'CLOCK	MIN.	REMARKS
24 01	9:57/58	1	
02	10:00	2	
03	02	2	
04	05	3	
05	07	2	
06	09	2	
07	11	2	
08	13	2	
09	15	2	
24 10	17	2	
11	19	2	vis 39 wt 9.5
12	21	2	
13	23	2	
14	25	2	
15	26	1	
16	28	2	Conn.
17	10:32/33	1	Hopper open
18	35	2	
19	38	3	
24 20	42	4	
21	45	3	
22	49	4	Hopper closed
23	52	3	
24	55	3	
25	57	2	
26	11:00	3	
27	02	2	
28	04	2	
29	06	2	
24 30	08	2	
31	10	2	
32	12	2	
33	14	2	
34	16	2	
35	18	2	
36	20	2	
37	22	2	
38	25	3	
39	26	1	
24 40	27½	1½	
41	29	1½	
42	30	1	
43	32	2	
44	33	1	
45	34½	1½	CALL OS IN
46	36	1½	TRAILER
47	37	1	CONN
48	46 47	1	
49	49	2	
24 50	50	1	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
24 51	12:50 31½	1½	
52	53	1½	
53	54	1	
54	56	2	
55	57	1	STOP WE NOT
56	59	2	IN DOG HOUSE
57	12:00	1	
58	02	2	Wis
59	03	1	52 wt 9.6
24 60	05	2	Circulate for samples
61	28 29	1	
62	31½	2½	
63	37	5½	
64	45	8	
65	54	9	
66	59	5	
67	1:03	4	
68	07	4	
69	14	7	
24 70	18	4	START NOT HOL
71	22	4	
72	26	4	
73	29½	3½	
74	33	3½	
75	37	4	
76	41	4	
77	44½	3½	
78	48	3½	
79	53 56	3	
24 80	59	3	Stop + take
81	2:03	4	
82	06	3	
83	10	4	
84	13	3	
85	16	3	Call at 85
86	20	4	
87	24½	4½	Vis 40 wt 9.6
88	3:05 09	4	Pick up + circ.
89	13	4	
24 90	18	5	
91	24	6	
92	30	6	
93	34	4	
94	38	4	
95	43	5	
96	48	5	Circ. for Spls.
97	4:26 29	3½	
98	33½	4½	
99	38	4½	
25 00	43	5	

COMPANY C.S.O. FARM Appleman WELL NO. 1

SEC. TWP. RGE. LOC. COUNTY Butler STATE Ks.

CONTRACTOR WHITE & ELLIS DRLG., Inc. SIZE HOLE 7 7/8 DRILL PIPE 4½

DATE: RIG NO. 4 SIZE PUMP LINERS 7 LENGTH STROKE 12

DEPTH	TIME O'CLOCK	MIN.	REMARKS
25 01	5:43 47	4	
02	51½	4½	SR
03	55½	4	SR
04	5:00	4½	
05	03	3	CIRC. FOR SPLS
06	46 48	2	CONN
07	51	3	
08	54	3	Vis 36 – Wt 9.5
09	57	3	Hopper open
25 10	6:01	4	
11	06	5	
12	10	4	
13	13½	3½	
14	17	3½	
15	21	4	
16	25	4	Hopper close
17	28	3	
18	30½	2½	
19	33	2½	
25 20	35	2	
21	37	2	
22	39	2	
23	41	2	CIRC FOR SPLS
24	44	3	
25	34 46	2	Circ for Samp Vis = 43
26	48	2	
27	30	2	
28	32	2	
29	34	2	
25 30	36	2	
31	38	2	DST 2539-44
32	40	2	(5' ANCHOR) JARS
33	42	2	OP 30 SI 30 OP 60 SI 60"
34	43½	1½	GO TO BOTTOM AFTER
35	45½	2	TEST, CIRC, 30" & WOD.
36	47	1½	SAVE WATER SAMPLE
37	49	2	
38	51½	2½	LAST QTR. RI
39	55	3½	
25 40	8:00 2	2	
41	4	2	
42	5½	1½	
43	7½	2	43° 9.5 Wt.
44	10½	3	CFS. 5 MIN
45	40 44	4	
46	47½	3½	Circ 15 & 30 DST
47	10:22/25	3	
48	30	5	DST 2539-46
49	34	4	
25 50	37	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
25 51	37 41	4	
52	44	3	DRLG TO 2570
53	48½	4½	CIRC. 45", make
54	52	3½	short TRIP
55	55	3	CIRC. 45' &
56	58	3	WAIT FOR LOGGER
57	11:03	5	
58	08	5	INFO. IN
59	13	5	TRAILER
25 60	16	3	
61	22	6	
62	25	3	
63	27	2	
64	31	4	
65	35	4	
66	39	4	
67	44	5	
68	48	4	
69	56	8	JIS 43 WT 9.5
25 70	12:00	4	Stop
71			
72			
73			
74			
75			
76			
77			
78			
79			
25 80			
81			
82			
83			
84			
85			
86			
87			
88			
89			
25 90			
91			
92			
93			
94			
95			
96			
97			
98			
99			
26 00			

COMPANY _____ FARM _____ WELL NO. _____

SEC. ____ TWP. ____ RGE. ____ LOC. _____ COUNTY _____ STATE _____

CONTRACTOR WHITE & ELLIS DRLG., Inc. SIZE HOLE _____ DRILL PIPE _____

DATE: RIG NO. _____ SIZE PUMP LINERS _____ LENGTH STROKE _____

DEPTH	TIME O'CLOCK	MIN.	REMARKS
01			
02			
03			~~60-64~~
04			~~59-55~~
05			~~62-03~~
06			~~65-05~~
07			~~61-25~~
08			
09			
10			
11			
12			59-55 61:77
13			62-06 62:30
14			59-65 61:55
15			61-25 61:43
16			61-55 62:45
17			304.06 60-68
18			370.18
19			
20			
21			61.40
22			62.20
23			62.08
24			61.40
25			59.96
26			62.75
27			369.79
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			

DEPTH	TIME O'CLOCK	MIN.	REMARKS
51			Copy of run #A-1
52			
53			
54			
55			
56			
57			
58			
59			
60			
61			
62	359	94	61.80
63	58	47	61.77
64	60	36	62.50
65	60	72	61.33
66	59	14	61.35
67	61	79	61.35
68	360	42	370.10
69			
70			
71			342.59
72			304.06
73			370.18
74			360.42
75			370.10
76			369.79
77			30.93
78			2048.07
79			Strap 2047.73
80			34
81			
82			
83			
84			
85			
86			
87			
88			
89			
90			
91			
92			
93			
94			
95			
96			
97			
98			
99			
00			