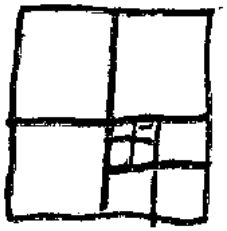
Caldwell

Skelly Oil C-604



18 55 28

1005 — drillers core

dry 9/39 981 — none

written log

00040

Sk001

CORE LABORATORIES, INC.
Petroleum Engineering Service
SANTA FE BUILDING
DALLAS

L COMPANY — Date Report 9-19-39 — File D-210
Location ANALYZED IN DALLAS — Analysts WPL
Formation — Reports to
State Missouri — Elevation — Coregraph None
Remarks SAMPLES WRAPPED IN CELLOPHANE ONLY.

Core Summary-Off Location Analyses

PERMEABILITY MILLIDARCYS	POROSITY PER CENT	RESIDUAL SATURATION PERCENT PORE SPACE OIL	WATER	REMARKS
2.5	14.1	17.0	21.3	
1.7	12.6	21.5	25.3	
.5	9.4	37.2	17.0	
.4	10.2	45.1	0.0	
1.3	14.6	22.6	21.9	

ore Hole C-604
NW SE Sec. 13-55N-25W
Caldwell County, Missouri

ore A 352'11" - 353'5"
B 353'10" - 354'2½"
C 355'11½" - 356'3½"
D 356'10" - 357'1"
E 357'8" - 358'5"

NO INTERPRETATION OF RESULTS—OFF LOCATION ANALYSES

CORE LABORATORIES, INC.

Petroleum Engineering Service

SANTA FE BUILDING

DALLAS

Company SKELLY OIL COMPANY — Date Report 9-19-39 — File D-248

Well — Location ANALYZED IN DALLAS — Analysts WTL

Field — Formation — Reports to

County — State Missouri — Elevation — Coregraph None

Cores — Remarks SAMPLES WRAPPED IN CELLOPHANE ONLY.

Core Summary-Off Location Analyses

NO.	DEPTH	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	RESIDUAL SATURATION PERCENT PORE SPACE OIL	WATER		REMARKS
A		2.5	14.1	17.0	21.3		
B		1.7	18.6	21.5	25.3		
C		.5	9.4	37.2	17.0		
D		.4	10.2	45.1	0.0		
E		1.3	14.6	22.6	21.9		

(2) [illegible]
13.4 - [illegible]

Core Hole C-604
NE NW SE Sec. 18-55N-28W
Caldwell County, Missouri

Core A 352'11" - 353'3"
B 353'10" - 354'2½"
C 355'11¼" - 356'3½"
D 356'10" - 357'1"
E 357'8" - 358'0"

NO INTERPRETATION OF RESULTS—OFF LOCATION ANALYSES

Core Analysis, Polo Sand

Skelly Oil Company. Core Hole C-604
NE¼ NW¼ SE¼ Sec. 18, T. 55 N., R. 28 W

Analyzed by Core Laboratories, Inc., Dallas, Texas, Sept. 19, 1939

No.	Depth	Permeability Millidarcys	Porosity Percent	Residual Saturation Percent Pore Space Oil	Water
A		2.5	14.1	17.0	21.3
B		1.7	18.6	21.5	25.3
C		.5	9.4	37.2	17.0
D		.4	10.2	45.1	0.0
E		1.3	14.6	22.6	21.9

Average porosity = 13.4

Core A	352'11"	-	353'3"
B	353'10"	-	354'2½"
C	355'11¼"	-	356'3½"
D	356'10"	-	357'1"
E	357'8"	-	358'0"

CONFIDENTIAL

27-F-30

MISSOURI GEOLOGICAL SURVEY AND WATER RESOURCES - ROLLA, MO.

COUNTY Caldwell LOG NUMBER

COMPANY OR OWNER Skelly Oil Company

FARM WELL NO. C-604

LOCATION SEC. 18 T. 55N R. 28W

CONTRACTOR Skelly Oil Company

DRILLER TOOL DR.

COMMENCED COMPLETED

PRODUCTION PLOTTED

CASING RECORD

WATER RECORD

SOURCE OF LOG

REMARKS 2610' f SL & 1650' f EL

Filed in Chemistry building warehouse.

Index Sh. #3

ELEV. 1005'

TOTAL DEPTH 981'

CHEM. ANAL. NO.

FORMATION		THICK	DEPTH	FORMATION	THICK	DEPTH
Samples	65 - 500		Box 851			
Samples	500 - 930		Box 869			
Core	352 - 361		Box M-28			
Core	361 - 372		Box M-29			
Core	930 - 949		Box M-29			
Core	949 - 981		Box M-30			

27-F-30

MISSOURI GEOLOGICAL SURVEY AND WATER RESOURCES - ROLLA, MO.

COUNTY Caldwell LOG NUMBER

COMPANY OR OWNER Shelly Oil Co

FARM WELL NO. C604

LOCATION SE SEC. 18 T. 55 R. 28

CONTRACTOR

DRILLER TOOL DR.

COMMENCED 9/8/39 COMPLETED

PRODUCTION PLOTTED

CASING RECORD

WATER RECORD

SOURCE OF LOG Shelly Oil Co

REMARKS 2610' f SL 1650' f EL

ELEV. 1005

TOTAL DEPTH

CHEM. ANAL. NO.

FORMATION	THICK	DEPTH	FORMATION	THICK	DEPTH
Clay yellow	0	41			
Sand & gravel	41	62			
Clay	62	64			
Lime hard	64		csg @ 65		

1005
60
65

RECORD OF DRILLING TIME

Well No. C-604

Depth From	Depth To	Drilling Time Began	Drilling Time Ended	Actual Drilling Time in Minutes	Remarks
0	1-6	1:22	1:23	1	
1-6	3	23	24	1	
3	4-6	24	25	1	
4-6	6	25	29	3	
6	7-6	29	30	1	
7-6	9	30	32	2	
9	10-6	32	33	1	Add rod
10-6	12	33	34½	1½	
12	13	34½	36	1½	
13	14-6	36	38	2	
14-6	16	38	39	1	
16	17-6	39	40	1	
17-6	19	40	42	2	
19	20-6	42	44	2	
20-6	22	44	45	1	
22	23	45	46½	1½	Add rod
23	24-6	46½	48	1½	
24-6	26	48	50	2	
26	27-6	50	51	1	
27-6	29	51	52½	1½	
29	30-6	52½	54	1½	
30-6	32	54	56	2	
32	33	56	57	1	Add rod
33-6	34-6	57	59	2	
34-6	36	59	2:00	1	
36	37-6	2:00	01½	1½	
37-6	39	01½	03	1½	
39	40-6	03	04½	1½	
40-6	42	04½	05½	1	
42	43	05½	07	1½	Add rod
43	44-6	07	09	2	
44-6	46	09	10	1	
46	47-6	10	11	1	
47-6	49	11	13	2	
49	50-6	13	14	1	
50-6	52	14	16	2	
52	53	16	17	1	Add rod
53	54-6	17	18	1	
54-6	56	18	19	1	
56	57-6	19	21	2	
57-6	59	21	23	2	
59	60-6	23	25	2	
60-6	62	25	26	1	
62	63	26	28	2	Add rod
63	64-6	28	30	2	Pull out and run casing 3:22
64-6	66	30	7:25	1 hr. 29 min.	to 6:48
66	67-6	7:42	49	7	Cleaned pit 7:25 to
67-6	69	49	56	7	
69	70-6	56	8:23	7	Changed bit, worked on pump.
70-6	72	8:23	24	1	
72	73	24	25	1	Added rod
73	74-6	25	26	1	

RECORD OF DRILLING TIME

Well No. C-604

Depth From	Depth To	Drilling Time Began	Drilling Time Ended	Actual Drilling Time in Minutes	Remarks
74-6	76	8:26	8:27	1	
76	77-6	27	28	1	
77-6	79	29	29	1	
79	80-6	29	52	13	Changed bits, 8:35 to 8:45
80-6	82	52	9:05	7	
82	83	9:05	08	3	Added rod
83	84-6	08	17	9	
84-6	86	17	27	10	
86	87-6	27	32	5	
87-6	89	32	40	8	
89	90-6	40	48	8	
90-6	92	48	53	5	
92	93	53	58	5	Add rod
93	94-6	58	10:05	8	
94-6	96	10:05	12	7	
96	97-6	12	16	4	
97-6	99	16	22	6	
99	100-6	22	27	5	
100-6	02	27	32	5	
02	03	32	36	4	Add rod
03	04-6	36	41	5	
04-6	06	41	55	9	
06	07-6	55	11:36	41	
07-6	09	12:15	12:29	14	Run in rock bit, 12:15
09	10-6	29	51	22	
10-6	12	51	1:06	15	
12	13	1:06	12	6	Add rod
13	14-6	12	19	7	
14-6	16	19	30	11	
16	17-6	30	55	25	
17-6	19	55	58	3	
19	20-6	58	2:04	6	
20-6	22	2:04	10	6	
22	23	10	14	4	Add rod
23	24-6	14	22	8	
24-6	26	22	46	24	
26	27-6	46	53	7	
27-6	29	53	3:02	9	
29	30-6	3:02	20	18	
30-6	32	20	40	20	
32	33	40	45	5	Add rod
33	34-6	45	49	4	
34-6	36	49	59	10	
36	37-6	59	4:14	15	
37-6	39	4:14	20	6	
39	40-6	20	26	6	
40-6	42	26	32	6	
42	43	32	40	8	Add rod
43	44-6	40	48	8	
44-6	46	48	5:02	4	
46	47-6	5:02	11	9	
47-6	49	11	25	14	

RECORD OF DRILLING TIME

Well No. C-604

Depth From	Depth To	Drilling Time Began	Drilling Time Ended	Actual Drilling Time in Minutes	Remarks
149	150-6	5:25	5:35	10	
50-6	52	35	45	10	
52	53	45	57	12	Add rod
53	54-6	57	6:12	15	
54-6	56	6:12	35	23	
56	57-6	35	49	14	
57-6	59	49	7:02	13	
59	60-6	7:02	14	12	
60-6	62	14	24	10	
62	63	38	41	3	Stopped 14 min.
63	64-6	41	46	5	
64-6	66	46	8:00	14	
66	67-6	8:00	04	4	
67-6	69	04	12	8	
69	70-6	12	16	4	
70-6	72	16	18	2	
72	73	18	20	2	
73	74-6	20	23	3	
74-6	76	23	33	10	
76	77-6	33	47	14	
77-6	79	47	59	12	
79	80-6	59	9:14	15	
80-6	82	9:14	22	8	
82	83	22	30	8	
83	84-6	30	45	15	
84-6	86	45	10:00	15	
86	87-6	10:00	13	13	
87-6	89	13	21	8	
89	90-6	21	29	8	
90-6	92	29	35	6	
92	93	35	48	13	
93	94-6	48	11:00	12	
94-6	96	11:00	18	18	
96	97-6	12:30	12:40	10	In hole 12:
97-6	99	1:00	1:14	14	Rock bit
99	200-6	14	29	15	Stopped 20 min.
200-6	02	29	52	23	
02	03	52	58	6	
03	04-6	58	2:07	9	
04-6	06	2:07	21	14	
06	07-6	21	37	16	
07-6	09	37	48	11	
09	10-6	48	56	8	
10-6	12	56	3:12	16	
12	13	3:12	27	15	
13	14-6	27	50	23	
14-6	16	50	58	8	
16	17-6	58	4:03	5	
17-6	19	4:03	15	12	
19	20-6	15	32	17	
20-6	22	32	40	8	

RECORD OF DRILLING TIME

Well No. C-604

Depth From	Depth To	Drilling Time Began	Drilling Time Ended	Actual Drilling Time in Minutes	Remarks
222	223	4:40	4:53	13	
23	24-6	53	5:04	12	
24-6	26	5:04	10	6	
26	27-6	10	22	11	Pull rock bit - fishtain in 5:22
27-6	29	6:00	6:01	1	to 6:00
29	30-6	01	02	1	
30-6	32	02	03	1	
32	33	03	04	1	Add rod
33	34-6	04	04½	½	
34-6	36	04½	05	½	
36	37-6	05	05½	½	
37-6	39	05½	06	½	
39	40-6	06	06½	½	
40-6	42	06½	07	½	
42	43	07	07½	½	Add rod
43	44-6	07½	08	½	
44-6	46	08	08½	½	
46	47-6	08½	09	½	
47-6	49	09	09½	½	
49	50-6	09½	10	½	
50-6	52	10	11	1	
52	53	11	11½	½	Add rod
53	54-6	11½	12	½	
54-6	56	12	12½	½	
56	57-6	12½	13	½	
57-6	59	13	13½	½	
59	60-6	13½	14	½	
60-6	62	14	14½	½	
62	63	14½	15½	1	Add rod
63	64-6	15½	16	½	
64-6	66	16	16½	½	
66	67-6	16½	17	½	
67-6	69	17	17½	½	
69	70-6	17½	18	½	
70-6	72	18	18½	½	
72	73	18½	19½	1	Add rod
73	74-6	19½	20	½	
74-6	76	20	20½	½	
76	77-6	20½	21	½	
77-6	79	21½	22	½	
79	80-6	22	22½	½	
80-6	82	22½	23	½	
82	83	23	23½	½	Add rod
83	84-6	23½	24	½	
84-6	86	24	24½	½	
86	87-6	24½	25	½	
87-6	89	25	25½	½	
89	90-6	25½	26	½	
90-6	92	26	26½	½	
92	93	26½	27½	1	Add rod
93	94-6	27½	28	½	
94-6	96	28	29	½	

RECORD OF DRILLING TIME

Well No. C-604

Depth From	Depth To	Drilling Time Began	Drilling Time Ended	Actual Drilling Time in Minutes	Remarks
296	297-6	6:29	6:29½	½	
97-6	99	29½	30	½	
99	300-6	30	30½	½	
300-6	02	30½	31	½	
02	03	31	32	1	Add rod
03	04-6	32	33	1	
04-6	06	33	36	3	
06	07-6	36	36½	½	
07-6	09	36½	37	½	
09	10-6	37	38½	1½	
10-6	12	38½	40	1½	
12	13	40	41½	1½	Add rod
13	14-6	41½	43½	2	
14-6	16	43½	44	½	
16	17-6	44	44½	½	
17-6	19	44½	46	1½	
19	20-6	46	47½	1½	
20-6	22	47½	49½	2	
22	23	49½	50½	1	Add rod
23	24-6	50½	52	1½	
24-6	26	52	53	1	
26	27-6	53	54	1	
27-6	29	54	55	1	
29	30-6	55	7:00	5	Hard
30-6	32	7:00	12	12	"
32	33	12	13	1	Add rod
33	34-6	13	14	1	
34-6	36	14	15	1	
36	37-6	15	16	1	
37-6	39	16	33	17	Hard
39	40-6	33	8:28	25	Pulled bit Hard
40-6	42	8:28	30	2	
42	43	30	31	1	Add rod
43	44-6	31	34	3	
44-6	46	35	36	1	
46	47-6	36	37	1	
47-6	49	37	38	1	
49	50-6	38	40	2	
50-6	52	40	43	3	
52	53	43	50	7	Run core barrel, add rod,
53	54-6	9:15	9:17	2	pulled fishtail, 25 min.
54-6	56	17	20	3	
56	57-6	20	23	3	
57-6	59	23	26	3	
59	60-6	26	30	4	
60-6	62	30	33	3	
62	63	33	35	2	Add rodd, pulled core barrel.
63	64-6	10:06	10:09	3	
64-6	66	09	12	3	
66	67-6	12	15	3	
67-6	69	15	21	6	Hard
69	70-6	21	31	10	"

RECORD OF DRILLING TIME

Well No. C-604

Depth From	Depth To	Drilling Time Began	Drilling Time Ended	Actual Drilling Time in Minutes	Remarks
370-6	372	10:31	10:47	16	Hard
72	73	47	52	5	Pulled core barrel, run fishtail
73	74-6	11:50	11:51	1	reamed.
74-6	76	51	52	1	
76	77-6	52	53	1	
77-6	79	53	59	6	
79	80-6	59	12:19	20	
80-6	82	12:19	22	3	
82	83	22	24	2	
83	84-6	24	25	1	
84-6	86	25	27	2	
86	87-6	27	32	5	
87-6	89	32	34	2	
89	90-6	34	36	2	
90-6	92	36	39	3	
92	93	39	41	2	
93	94-6	41	43	4	
94-6	96	45	50	5	
96	97-6	50	52	2	
97-6	99	52	54	2	
99	400-6	54	55	1	
400-6	02	55	56	1	
02	03	56	57	1	
03	04-6	57	59	2	
04-6	06	59	1:00	1	
06	07-6	1:00	01	1	
07-6	09	01	02	1	
09	10-6	02	04	2	
10-6	12	04	06	2	
12	13	06	07	1	
13	14-6	07	12	5	
14-6	16	12	13	1	
16	17-6	13	14	1	
17-6	19	14	15	1	
19	20-6	15	18	3	
20-6	22	18	28	10	
22	23	28	2:06	38	Hard
23	24-6	2:06	3:00	54	"
24-6	26	3:00	19	19	
26	27-6	19	21	2	
27-6	29	21	5:04	46	Pulled fishtail 3:43, back in
29	30-6	5:04	5:07	3	hole 4:40
30-6	32	07	09	2	
32	33	09	12	3	Add rod
33	34-6	12	14	2	
34-6	36	14	15	1	
36	37-6	15	17	2	
37-6	39	17	18	1	
39	40-6	18	19	1	
40-6	42	19	20	1	
42	43	20	21	1	Add rod
43	44-6	21	22	1	

RECORD OF DRILLING TIME

Well No. C-604

Depth From	Depth To	Drilling Time Began	Drilling Time Ended	Actual Drilling Time in Minutes	Remarks
444-6	446	5:22	5:23	1	
46	47-6	23	24	1	
47-6	49	24	26	2	
49	50-6	26	28	2	
50-6	52	28	32	4	
52	53	32	40	8	Add rod
53	54-6	40	6:10	30	
54-6	56	6:10	12	2	
56	57-6	12	13	1	
57-6	59	13	14	1	
59	60-6	14	14½	½	
60-6	62	14½	17	2½	
62	63	17	19	2	Add rod
63	64-6	19	20	1	
64-6	66	20	21	1	
66	67-6	21	22	1	
67-6	69	22	23	1	
69	70-6	23	24	1	
70-6	72	24	25	1	
72	73	25	27	2	Add rod
73	74-6	27	28	1	
74-6	76	28	29	1	
76	77-6	29	30	1	
77-6	79	30	31	1	
79	80-6	31	32	1	
80-6	82	32	33	1	
82	83	33	37	4	Add rod
83	84-6	37	38	1	
84-6	86	38	39	1	
86	87-6	39	40	1	
87-6	89	40	41	1	
89	90-6	41	42	1	
90-6	92	42	44	2	
92	93	44	46	2	Add rod
93	94-6	46	47½	1½	
94-6	96	47½	48½	1	
96	97-6	48½	50	1½	
97-6	99	50	51	1	
99	500-6	51	52	1	
500-6	02	52	53	1	
02	03	53	54	1	Add rod
03	04-6	54	55	1	
04-6	06	55	56½	1½	
06	07-6	56½	57½	1	
07-6	09	57½	59	1½	
09	10-6	59	7:00	1	
10-6	12	7:00	01	1	
12	13	01	03	2	Add rod
13	14-6	03	05	2	
14-6	16	05	08	3	
16	17-6	08	12	4	

RECORD OF DRILLING TIME

Well No. C-604

Depth From	Depth To	Drilling Time Began	Drilling Time Ended	Actual Drilling Time in Minutes	Remarks
517-6	519	7:12	7:21	9	
19	20-6	21	36	15	
20-6	22	36	51	15	
22	23	51	8:05	14	Add rod, pulled fishtail,
23	24-6	8:42	46	4	back in hole 8:42
24-6	26	46	47½	1½	
26	27-6	47½	49	1½	
27-6	29	49	53	4	
29	30-6	53	9:00	7	
30-6	32	9:00	16	16	
32	33	16	18	2	Add rod
33	34-6	18	19	1	
34-6	36	19	20	1	
36	37-6	20	22	2	
37-6	39	22	25	3	
39	40-6	25	28	3	
40-6	42	28	30	2	
42	43	30	32	2	Add rod
43	44-6	32	33	1	
44-6	46	33	34	1	
46	47-6	34	35	1	
47-6	49	35	37	2	
49	50-6	37	38	1	
50-6	52	38	39	1	
52	53	39	40½	1½	Add rod
53	54-6	40½	41½	1	
54-6	56	41½	42½	1	
56	57-6	42½	45	2½	
57-6	59	45	47	2	
59	60-6	47	50	3	
60-6	62	50	51	1	
62	63	51	54	3	Add rod
63	64-6	54	58½	4½	
64-6	66	58½	10:01½	3	
66	67-6	10:01½	04	2½	
67-6	69	04	06½	1	
69	70-6	06½	07½	1	
70-6	72	07½	10	2½	
72	73	10	12	2	Add rod
73	74-6	12	13½	1½	
74-6	76	13½	11:27	1 hr. 13½	Pulled fishtail, 11:27 to
76	77-6	12:24	12:37	13	11:50 Sharp bit 12 to 8 tour.
77-6	79	37	39	2	
79	80-6	39	40	1	
80-6	82	40	42	2	
82	83	42	43	1	Add rod
83	84-6	43	1:15	33	
84-6	86	1:15	18	3	
86	87-6	18	20	2	
87-6	89	20	22	2	
89	90-6	22	44	22	

RECORD OF DRILLING TIME

Well No. C-604

Depth From	Depth To	Drilling Time Began	Drilling Time Ended	Actual Drilling Time in Minutes	Remarks
590-6	592	1:49	1:47	3	
92	93	47	49	2	Add rod
93	94-6	47	53	5	
94-6	96	53	55	2	
96	97-6	55	2:01	6	
97-6	99	2:01	06	5	
99	600-6	06	10	4	
600-6	02	10	15	5	
02	03	15	17	2	Add rod
03	04-6	17	19	2	
04-6	06	19	21	2	
06	07-6	21	22	1	
07-6	09	22	24	2	
09	10-6	24	26	2	
10-6	12	26	27	1	
12	13	27	28	1	Add rod
13	14-6	28	37	14	
14-6	16	37	38	1	
16	17-6	38	40	2	
17-6	19	40	42	2	
19	20-6	42	44	2	
20-6	22	44	45	1	
22	23	45	47	2	Add rod
23	24-6	47	51	4	
24-6	26	51	54	3	
26	27-6	54	56	2	
27-6	29	56	57	1	
29	30-6	57	59	2	
30-6	32	59	3:01	2	
32	33	3:01	03	2	Add rod
33	34-6	03	06	3	
34-6	36	06	08	2	
36	37-6	53	57	4	
37-6	39	57	59	2	
39	40-6	59	4:00	1	
40-6	42	4:00	02	2	
42	43	02	03	1	Add rod
43	44-6	03	06	3	
44-6	46	06	07	1	
46	47-6	07	09	2	
47-6	49	09	10	1	
49	50-6	10	12	2	
50-6	52	12	13	1	
52	53	13	14	1	Add rod
53	54-6	14	16	2	
54-6	56	16	18	2	
56	57-6	18	19	1	
57-6	59	19	20	1	

RECORD OF DRILLING TIME

Well No. C-604

Depth From	Depth To	Drilling Time Began	Drilling Time Ended	Actual Drilling Time in Minutes	Remarks
659	660-6	4:20	4:22	2	
60-6	62	22	24	2	
62	63	24	27	3	Add rod
63	64-6	27	28	1	
64-6	66	28	30	2	
66	67-6	30	38	8	
67-6	69	38	39	1	
69	70-6	39	41	2	
70-6	72	41	42	1	
72	73	42	44	2	Add rod
73	74-6	44	45	1	
74-6	76	45	47	2	
76	77-6	47	49	2	
77-6	79	49	50	1	
79	80-6	50	51	1	
80-6	82	51	52	1	
82	83	52	44	2	Add rod
83	84-6	54	55	1	
84-6	86	55	56	1	
86	87-6	56	58	2	
87-6	89	58	5:00	2	
89	90-6	5:00	02	2	
90-6	92	02	03	1	
92	93	03	05	2	Add rod
93	94-6	05	07	2	
94-6	96	07	10	3	
96	97-6	10	11	1	
97-6	99	11	13	2	
99	700-6	13	23	10	
700-6	02	23	24	1	
02	03	24	27	3	Add rod
03	04-6	27	28	1	
04-6	06	28	30	2	
06	07-6	30	31	1	
07-6	09	31	33	2	
09	10-6	33	34	1	
10-6	12	34	36	2	
12	13	36	37	1	Add rod
13	14-6	37	41	4	
14-6	16	41	44	3	
16	17-6	57	59	2	
17-6	19	59	6:02	3	
19	20-6	6:02	04	2	
20-6	22	04	06	2	
22	23	06	08	2	Rod
23	24-6	08	10	2	
24-6	26	10	14	4	
26	27-6	14	16	2	
27-6	29	16	19	3	
29	30-6	19	21	2	
30-6	32	21	24	3	
32	33	24	25	1	Rod

RECORD OF DRILLING TIME

Well No. C-604

Depth From	Depth To	Drilling Time Began	Drilling Time Ended	Actual Drilling Time in Minutes	Remarks
733	734-6	6:25	6:27	2	
34-6	36	27	30	3	
36	37-6	30	32	2	
37-6	39	32	35	3	
39	40-6	35	37	2	
40-6	42	37	39	2	
42	43	39	40	1	Rod
43	44-6	40	42	2	
44-6	46	42	44	2	
46	47-6	44	45	1	
47-6	49	45	47	2	
49	50-6	47	50	3	
50-6	52	50	54	4	
52	53	54	55	1	Rod
53	54-6	55	58	3	
54-6	56	58	7:00	2	
56	57-6	7:00	03	3	
57-6	59	03	05	2	
59	60-6	05	07	2	
60-6	62	07	11	4	
62	63	11	14	3	Rod
63	64-6	14	19	5	
64-6	66	19	22	3	Pulled dull bit
66	67-6	8:31	8:33	2	Run new fishtail 8:00-4:00
67-6	69	33	35	2	
69	70-6	35	38	3	
70-6	72	38	41	3	
72	73	41	43	2	Add rod
73	74-6	44	47	3	
74-6	76	47	49	2	
76	77-6	49	52	3	
77-6	79	52	55	3	
79	80-6	55	9:00	5	
80-6	82	9:00	03	3	
82	83	03	05	2	Add rod
83	84-6	06	11	5	
84-6	86	11	14	3	
86	87-6	14	18	4	
87-6	89	18	21	3	
89	90-6	21	24	3	
90-6	92	24	26	2	
92	93	26	29	3	Add rod
93	94-6	29	32	3	
94-6	96	32	34	2	
96	97-6	34	36	2	
97-6	99	36	39	3	
99	800-6	39	43	4	
800-6	02	43	47	4	
02	03	47	52	5	Add rod
03	04-6	52	56	4	
04-6	06	56	10:00	4	

RECORD OF DRILLING TIME

Well No. C-604

Depth From	Depth To	Drilling Time Began	Drilling Time Ended	Actual Drilling Time in Minutes	Remarks
806	807-6	10:00	10:06	6	
07-6	09	06	14	8	
09	10-6	14	18	4	
10-6	12	18	23	5	
12	13	23	25	2	Add rod
13	14-6	26	30	5	
14-6	16	30	35	5	
16	17-6	35	39	4	
17-6	19	39	43	4	
19	20-6	43	49	6	
20-6	22	49	52	3	
22	23	52	54	2	Add rod
23	24-6	55	59	4	
24-6	26	11:00	11:05	5	
26	27-6	05	11	6	
27-6	29	11	15	4	
29	30-6	15	17	2	
30-6	32	17	19	2	
32	33	19	20	1	Add rod
33	34-6	21	22	1	
34-6	36	22	24	2	
36	37-6	24	25	1	
37-6	39	25	28	3	
39	40-6	28	30	2	
40-6	42	30	32	2	
42	43	32	33	1	Add rod
43	44-6	34	37	3	
44-6	46	37	39	2	
46	47-6	39	42	3	
47-6	49	42	47	5	
49	50-6	47	55	8	
50-6	52	55	59	4	
52	53	59	12:02	3	Add rod
53	54-6	12:03	05	3	
54-6	56	05	13	8	
56	57-6	13	15	2	
57-6	59	15	16	1	
59	60-6	16	19	3	
60-6	62	19	21	2	
62	63	21	23	2	Add rod
63	64-6	24	25½	1½	
64-6	66	26	27	1	
66	67-6	27	29	2	
67-6	69	29	30	1	
69	70-6	30	32	2	
70-6	72	32	34	2	
72	73	34	35	1	Add rod
73	74-6	35	37	2	
74-6	76	37	39	2	
76	77-6	39	40	1	
77-6	79	40	42	1	
79	80-6	42	45	3	Pulled fishtail 12:45-1:33, 48 min.

RECORD OF DRILLING TIME

Well No. C-604

Depth From	Depth To	Drilling Time Began	Drilling Time Ended	Actual Drilling Time in Minutes	Remarks
880-6	882	1:33	1:34	1	
82	83	34	37	3	Add rod
83	84-6	37	40	3	
84-6	86	40	43	3	
86	87-6	43	52	9	
87-6	89	52	58	6	
89	90-6	58	2:04	6	
90-6	92	2:04	09	5	
92	93	09	16	7	Add rod
93	94-6	16	25	9	
94-6	96	25	29	4	
96	97-6	29	35	6	
97-6	99	35	42	7	
99	900-6	42	50	8	
900-6	02	50	56	6	
02	03	56	59	3	Add rod
03	04-6	3:00	3:03	3	
04-6	06	03	08	5	
06	07-6	08	11	3	
07-6	09	11	15	4	
09	10-6	15	22	7	
10-6	12	22	32	10	
12	13	32	40	8	Add rod, pulled fishtail 3:40
13	14-6	4:48	5:06	18	Back in hole, 4:48
14-6	16	5:06	21	15	
16	17-6	21	33	12	
17-6	19	33	50	17	
19	20-6	50	6:05	15	
20-6	22	6:05	25	20	
22	23	25	34	9	Add rod
23	24-6	34	48	14	
24-6	26	48	7:15	27	Pulled fishtail 7:15, back in
26	27-6	8:10	8:13	3	hole at 8:10
27-6	29	13	20	7	
29	30	20	9:15	55	Pulled fishtail 9:15, got back
30	31-6	10:37	10:56	19	in hole with core bbl. 10:37
31-6	33	56	11:14	18	Add rod
33	34-6	11:14	11:33	19	
34-6	36	33	48	15	
36	37-6	48	12:05	17	
37-6	39	12:05	20	15	
39	40-6	20	35	15	
40-6	42	35	59	24	
42	43	59	1:18	19	Add rod
43	44-6	1:18	40	22	
44-6	46	40	2:05	25	
46	47-6	2:05	24	19	
47-6	49	24	48	24	Pulled core.
49	50-6	3:58	4:24	26	
50-6	52	4:24	42	18	
52	53	42	48	6	

RECORD OF DRILLING TIME

Well No. C-604

Depth From	Depth To	Drilling Time Began	Drilling Time Ended	Actual Drilling Time in Minutes	Remarks
953	954-6	4:48	5:07	19	
54-6	56	5:07	27	20	
56	57-6	27	40	13	
57-6	59	40	57	17	
59	60-6	57	6:14	17	
60-6	62	6:14	42	28	
62	63	42	50	8	Add rod, pulled core
63	64-6	8:~~1~~59	9:10	11	
64-6	66	9:10	26	16	
66	67-6	26	43	17	
67-6	69	43	10:00	17	
69	70-6	10:00	16	16	
70-6	72	16	31	15	
72	73	31	41	10	Add rod
73	74-6	41	55	14	
74-6	76	55	11:09	14	
76	77-6	11:09	22	13	
77-6	79	22	35	13	
79	80-6	35	55	20	
80-6	81	56	12:15	19	

T. D. 981'

Cored 352-62; recov. 10'
" 362-72; " 10'

362-0"-352-10" f. sand and sh in thin lenses. 2 thin streaks of dk oil sat.
353-8" f. ang. sd, very little sh in thin lenses dk. oil sat 362-10"-363-4"
353-9" sh
354-5" f. sd, little sh in thin lenses, rich dk oil sat, bleeding core.
355-9½ f. sd & sh in thin lenses
358-8" f. ang. thin, few very thin sh streaks, rich dk oil sat., sl. bleeding 355-9½-356-5", very rick blk oil sat, much bleeding 356-11"-357-1" streaked oil sat. 357-1"-357-8" rich dk oil sat, bleeding 357-8"-358-4½" streaked oil sat. 358-4½"-358-7"
360-7" sdy gr. sh, thin lenses of sd 359-9½"-10½", thin lenses of sd. 360-0"-360-2"
366-8" gr. clay sh
367-0½" blk sh
367-2" cong. gr. sh.
371-10" buff dense ls. fractured in top
372-0" buff shaley ls.

Cored 930-49; recov. 18/2

930-31-9" dk. buff xln foss ls, sl. shaley; large nodules of wh trip cht and a little gr foss cht. Trace of disseminated pink cht in bottom 2".
32-0" Green sh, great many bryozoa (branching).
33-6" Green sh., many large and small pebbles of ls.

RECORD OF DRILLING TIME

Well No. C-604

Depth From	Depth To	Drilling Time Began	Drilling Time Ended	Actual Drilling Time in Minutes	Remarks
	33'-9				dk buff c. xln foss. ls, sl. shaley, f. dissem. pink cht.
	34'-0				grn sh
	37-7"				dk buff c. xln ls, few thin s breaks (up to ¼"), very little cht, tr. f. dissem. pink cht 93689", some pyrite at top.
	38'-9"				lt. gr. marley ls., large nodule of gr. foss cht. at top; tr. f. dissem. pink cht in base. 1" grn sh. 938'-2"-3"
	39'-10"				Grn sh, great many ls pebbles & some marley ls.
	941'-2"				Lt. gr. marly ls. & dk buff xln. sl. shaley ls., broken, considerable grn sh. Little f. dissem. pink cht.
	41'-10"				dk. buff c xln foss ls. Little f. dissem pyrite
	42'-2"				wh. trip. cht, included buttons of crinoid stems
	47'-9"				Lt. brn-buff c xln ls. trace F. dissem. pink cht to 944'3" (thin streaks of grn sh at 944'3") Wh. trip cht 945'-3"-4½"
	947-9"-50-9"				buff. f. xln. ls.
	51'0"				lt. gr. oc gr. wh opaque cht, foss. markings, some crinoid stems
	54-6½"				buff xln. ls.
	60-6"				lt. buff c xln crinoidal ls; 2" nodule of gr. wh. cht in bottom 1'
	960-6-963-0"				Lost
Cored 963-81'					T. D., recov. 18'
	963-66'-4"				buff very c. xln crinoidal ls. several nodules of trip. wh. cht containing crinoid buttons.
	69'-4½"				dk buff xln, sl. shaley ls, considerable pyrite. Few small nodules of wh. trip. cht.
	69'-6½"				grn. sh, little pyrite.
	981-0"				T.D. Dk. buff c. xln. foss ls.; several thin sh streaks and pryitic in top. Lt. gr. or gr. wh opaque cht containing crinoidal stems and other spines in bottom 1 foot.