



UNITED CORE INC.
PETROLEUM RESERVOIR ENGINEERING
HOUSTON, TEXAS — STERLING, COLORADO

WELL Sparks No. 1 COUNTY Logan STATE Colorado
COMPANY Anschutz Drilling Co. DATE August 31, 1952 FILE NO. PR-196
FIELD Wildcat TYPE CORES Diamond ANALYST DH-RW

ANALYSIS DATA AND INTERPRETATIONS

SAMPLE NO.	DEPTH	PERMEABILITY MILLIDARCYS		POROSITY %	SATURATION WATER % PORE SPACE	SATURATION OIL % PORE SPACE	PROBABLE PRODUCTION	REMARKS
		HORIZONTAL	VERTICAL					
1.	4048	1.62	0.7	21.1	86.2	2.4	Low Perm.	Dark gray, fine grained, silty, very shaley sand. No show.
2.	4049	0.0	0.0	18.4	80.0	2.7	None	Gray, fine grained, very silty, shaley sand. No show.
3.	4050	0.0	0.0	15.4	79.2	3.2	None	Gray, fine grained, very silty, shaley sand. No show.
4.	4051			SHALE--NO ANALYSIS				Black, brittle, slightly sandy shale. No show.
5.	4052	0.0	0.0	15.5	85.2	1.3	None	Gray, fine grained, silty, very shaley sand. No show.
6.	4053	0.5	0.0	17.2	76.8	1.2	Low Perm.	Gray, fine grained, silty, very shaley sand. No show.
7.	4054	2.9	2.6	21.9	88.0	1.1	Low Perm.	Gray, fine grained, silty, very shaley sand. No show.
8.	4055	0.7	0.0	15.5	74.8	0.0	Low Perm.	Gray, fine grained, silty, very shaley sand. No show.
9.	4056	1.2	0.3	15.9	76.1	0.0	Low Perm.	Gray, fine grained, silty, very shaley sand. No show.
10.	4057	0.9	1.2	16.1	76.4	0.0	Low Perm.	Gray, fine grained, silty, very shaley sand. No show.



05-075-07250

UNITED
PETROLEUM RESERVE
HOUSTON, TEXAS — STERLING, COLORADO

WELL Sparks No. 1 COUNTY Logan STATE Colorado
 COMPANY Anschutz Drilling Co. DATE September 1, 1952 FILE NO. PR-196
 FIELD Wilcoat TYPE CORES Diamond ANALYST DH-RW

ANALYSIS DATA AND INTERPRETATIONS

SAMPLE NO.	DEPTH	PERMEABILITY MILLIDARCYS		POROSITY %	SATURATION WATER % PORE SPACE	SATURATION OIL % PORE SPACE	PROBABLE PRODUCTION	REMARKS
		HORIZONTAL	VERTICAL					
11.	4148	2.3	2.1	16.8	86.3	0.0	Low Perm.	Hard, dark, gray, fine grained, silty sand W/streaks of shale. No show.
12.	4150	84.0	72.0	18.8	91.0	0.0	Water	Hard, dark, gray, fine grained, silty sand W/thin shale laminations. No show.
13.	4152	7.2	5.6	16.9	86.4	0.0	Low Perm.	Hard, dark, gray, fine grained, silty sand W/occasional streaks of shale. No show.
14.	4154	14.2	9.5	19.2	88.5	0.0	Water	Hard, dark, gray, fine grained, silty sand W/thin shale laminations. No show.
15.	4156	41.2	27.3	17.4	76.0	0.0	Water	Hard, dark, gray, fine grained, silty sand W/thin shale streaks. No show.
16.	4158	72.0	53.0	20.0	81.5	0.0	Water	Hard, dark, gray, fine grained, silty sand W/thin shale streaks. No show.
17.	4160	91.2	72.3	13.1	80.3	0.0	Water	Hard, dark, gray, fine grained, silty sand W/thin shale streaks. No show.
18.	4162	35.7	21.6	17.6	77.2	0.0	Water	Light gray, silty, shaley, fine grained sand. No show.
19.	4164	58.1	46.3	20.1	82.2	0.0	Water	Light gray, silty, fine grained sand W/streaks of shale. No show.

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PETROLEUM
HOUSTON, TEXAS — STERLING, COLORADO

WELL Wells No. 1 COUNTY Logan STATE Colorado
 COMPANY Anschutz Drilling Co. DATE September 1, 1952 FILE NO. PR-196
 FIELD Wildcat TYPE CORES Diamond ANALYST DH-RW

ANALYSIS DATA AND INTERPRETATIONS

SAMPLE NO.	DEPTH	PERMEABILITY MILLIDARCYS		POROSITY %	SATURATION WATER % PORE SPACE	SATURATION OIL % PORE SPACE	PROBABLE PRODUCTION	REMARKS
		HORIZONTAL	VERTICAL					
20.	4166	89.0	72.6	19.5	83.0	0.0	Water	Light gray, silty, fine grained sand w/str- eaks of shale. No show.
21.	4168	0.0	0.0	3.9	79.1	0.0	None	Hard, tight, dense, light gray, shaley silt stone. No show.
22.	4170	14.2	16.3	15.5	85.0	0.0	Water	Dark gray, silty, shaley, fine grained sand. No show.
23.	4172	31.2	23.7	19.5	73.4	0.0	Water	Dark gray, silty, shaley, fine grained sand. No show.



Anschutz Drilling Company

709 UNION NATIONAL BANK BUILDING

Wichita, Kansas

September 9, 1952

CORES AND DRILL STEM TESTS on #1 Sparks
C SW SW SW 28-12N-48W
Logan County, Colorado

Core #1

"D" sand 4037-4057 recovered 20 ft. 10 ft. of
grey shale and 10 ft. of grey to white shaley
sand.

Core #2

4148-4173' cored 25 ft. and recovered 25 ft.
grey to white sand with scattered streaks of
shale.

Drilled down to total depth of 4365 ft. and ran a drill
stem test at 4353-65, open 45 minutes, shut in 15 minutes,
recovered 120 ft. of water cut mud containing no shows
or stains, ran Schlumberger. Initial flowing pressure 0
final flowing pressure 0. Shut in pressure 775#. H T 2350.

COMPANY: Anschutz Drilling Company, Inc. FARM: Sparks WELL NO: 1

SEC: 28 TWP: 12N RGE. 48W COUNTY: Logan STATE: Colorado

CONTRACTOR: Anschutz SIZE HOLE: 7 7/8 DRILL PIPE: 4 1/2
SIZE PUMP LINERS: 6 3/4 LENGTH STROKE: 12

DATE: 8-26-52

DEPTH	MINUTES	REMARKS
1500		
1510	6	
20	6	
30	5	
40	6	
50	7	
60	7	
70	6	
80	7	
90	7	
1600	6	
10	7	
20	10	
30	7	
40	8	
50	7	
60	8	
70	6	
80	5	
90	7	
1700	6	
10	6	
20	5	
30	5	
40	6	
50	5	
60	5	
70	6	
80	6	
90	5	
1800	5	
10	5	
20	5	
30	6	
40	6	
50	7	
60	7	
70	6	
80	6	
90	5	
1900	8	
10	7	
20	6	
30	5	
40	6	
50	6	
60	5	
70	7	
80	7	
90	8	
2000	8	
10	7	
20	9	
30	9	
40	7	
50	10	
60	10	
70	9	
80	10	
90	9	
2100	7	

DEPTH	MINUTES	REMARKS
2110	10	
20	12	
30	11	
40	9	
50	10	
60	12	
70	11	
80	10	
90	11	
2200	12	
10	11	
20	11	
30	12	
40	15	
50	16	
60	15	
70	11	
80	11	
90	8	
2300	9	
10	9	
20	10	
30	10	
40	9	
50	10	
60	11	
70	12	
80	10	
90	9	
2400	9	
10	8	
20	8	
30	8	
40	8	
50	10	
60	11	
70	9	
80	10	
90	11	
2500		
10	12	
20	12	
30	10	
40	8	
50	9	
60	15	
70	9	
80	9	
90	8	
2600	7	
10	8	
20	10	
30	9	
40	11	
50	10	
60	8	
70	10	
80		
90	14	
2700	15	
10	9	
203		

8-27-52

DEPTH MINUTES REMARKS

2720 15
 30 10
 40 15
 50 15
 60 15
 70 20
 80 15
 90 15
 2800 15
 10 15
 20 17
 30 18
 40 15
 50 10
 60 15
 70 15
 80 15
 90 14
 2900 12
 10 14
 20 16
 30 16
 40 17
 50 18
 60 13
 70 20
 80 16
 90 17
 3000 23
 10 22
 20 23
 30 16
 40 14
 50 11
 60 12
 70 18
 80 21
 90 18
 3100 21
 10 14
 20 21
 30 19
 40 20
 50 19
 60 19
 70 13
 80 17
 90 17
 3200 18
 10 17
 20 17
 30 17
 40 15
 50 23
 60 18
 70 20
 80 15
 90 12
 3300 12
 10 16
 20 21
 30 18
 40 15
 50 16
 60 11
 70 11
 80 14



Vis 38 W.T. 9-6 W.L. 12-8

Mud-40 Vis 9-7 W.T.

DEPTH MINUTES REMARKS

8-29-52

3390 13
 3400 16
 10 17
 20 18
 30 16
 40 17
 50 14
 60 16
 70 12
 80 12
 90 17
 3500 18
 10 15
 20 17
 30 16
 40 15
 50 16
 60 17
 70 17
 80 36
 90 42
 3600 40
 10 36
 20 35
 30 23
 40 14
 50 19
 60 22
 70 24
 80 29
 90 22
 3700 27
 10 23
 20 12
 30 20
 40 29
 50 18
 55 9
 60 9
 65 8
 70 9
 75 8
 80 10
 85 10
 90 11
 95 13
 3800 13
 05 11
 10 12
 15 11
 20 14
 25 15
 30 20
 35 17
 40 11
 45 11
 50 12
 55 13
 60 13
 65 12
 70 11
 75 9
 80 11
 85 11

Vis 41

Water loss 8.8

v
 vis 41-9-8
 v

vis 41

mud vis 40-9-6 WT

DEPTH	MINUTES	REMARKS	DEPTH	MINUTES	REMARKS
3890	9		4035	33	
95	15		36	7	
3900	15	vis 41 WL 9.2	37	6	drilled 7:30 to 9:00A.M.
05	16				circ 9 to 11:30A.M.
10	16				11:30 to 1:40 coming out of
15	16				hole
20	14				1:40 dressing core barrel
25	13				10# caustic 25# carbon nox
30	17				17# tannex 25# soda ash
35			38	35	
8-30-52			39	35	vis 80 WL7.2
3931	4		40	31	
32	3		41	19	
33	3	vis 39 WT 9.6 W.L 9.6	42	21	
34	4		43	20	vis 87 WT 9.7
35	3		44	27	vis 78 WT 9.8
36	4		45	21	vis 83 WT 9.7
37	3		46	28	vis 77 WT 9.7
38	4		47	31	
39	3		48	18	
40	3		49	9	
41	3		50	12	vis 70 WT 9-6
42	2		51	12	
43	2		52	16	
44	3		53	9	
45	2		54	7	
46	3		55	9	vis 71 WT 9.7
47	2		56	15	
48	2		57	15	
49	3		58	4	vis 68 WT 9-8
50	2		59	8	
51	2		60	3	
52	3		61	3	
53	3		62	4	
54	4		63	8	
55	3	Bentonite in sample	64	4	
56	2		65	7	
57	3		66	7	
58	3		67	6	
59	3		68	7	
60	3		69	2	
61	2		70	2	
62	2		71	2	
63	3		72	5	
64	3		73	3	
65	3		74	3	
66	3		75	2	
67	4		76	2	
68	4		77	3	
69	7		78	3	
70	6		79	2	
75	14		80	2	
80	15		81	4	
85	11		82	6	
90	12	WT 9.8 W.L.8.8	83	6	
4095	15		84	8	
4000	19		85	4	
05	18	vis 42 WT 9.8 WL8.8	85	3	vis 80
10	15		87	5	
15	17	vis 46 WT 9.8WL 8.8	88	5	
20	17	vis 44 9-8	89	5	
25	30		90	2	
30	29	vis 47	91	4	vis 48

DEPTH	MINUTES	REMARKS	DEPTH	MINUTES	REMARKS
4092	3		4159		
93	3		60		
94	5		61		
95	3		62		
96	5		63		
97	3		64		
98	5		65		
99	4		66		
4100	3		67		
1	3		68		
2	3		69		
3	2		70		
4	5		71		
5	3		72		
6	4		73		
7	3		74	7	
8	3		75	6	
9	3		76	8	
10	4		77	7	
11	3		78	7	
12	4		79	9	
13	4		80	10	vise 60
14	3		81	9	
15	4		82	9	
16	4	mud-vise 47-WT 9-7	83	19	
17	5		84	5	
18	4		85	5	
19	3		90	34	
20	5		95	31	
20	4		4200	22	
22	3		05	42	vise 61 WT9.9
23	3		10	36	WL 4.6
24	4		15	35	vise 63 WT9-8
25	4		20	25	
26	4		25	26	
27	4		30	28	mud vise 62 WT 98
28	4		35	39	vise 60 WT 99WL 6
29	3		40	49	vise 50 WT 9.7
30	4		45	47	vise 55 WT 9.5
31	4		50	44	vise 64 WL 5.2
32	4		55	34	
33	6		60	38	
34	6		65	53	
35	5		70	46	vise 57 WT 9.7 WL 5.4
36	6		75	30	
37	3		80	22	
38	5		85	36	
39	6		90	24	
40	5		91	5	
41	7		92	4	
42	5		93	5	
43	6	mud-vise62 WL 4.4 WT 9-9	94	7	
44	6		95	7	vise 69
45	8		96	7	
46	9		97	8	
47	6		98	8	
48	5		99	6	
49		mud-vise 60 9-9	4300	5	
50			1	6	
51			2	7	
52			3	6	
53			4	6	
54			5	4	
55			6	5	
56			7	4	
57			8	5	
58			9	4	

DEPTH	MINUTES	REMARKS
\$#L		
4310	5	
11	2	
12	3	
13	5	
14	5	
15	6	
16	5	
17	5	
18	3	vise 63
19	3	
20	4	
21	6	
22	7	
23	5	
24	6	
25	7	
26	6	
27	7	
28	6	
29	6	
30	5	
31	5	
32	6	
33	5	
34	5	
35	4	
36	3	
37	5	
38	4	vise 60
39	5	
40	6	
41	5	
42	4	
43	4	
44	5	
45	4	
46	5	
47	3	
48	2	
49	5	
50	7	
51	5	
52	5	
53	22	vise 57 WT 9.9
54	20	
55	10	
56	8	
57	7	
58	8	
59	9	
60	7	
61	6	vise 75 WT 9.9 W L 52
62	10	vise 60
63	10	
64	18	
65	7	mud vise 64 WT9.8 TD