

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company The Ohio Oil Company Lease Bryden A/C 1 Well No. W-2

Location _____

Section 36 Twp. 25S Rge. 8E County Greenwood State Kansas

Name of Sand Bartlesville

Top of Core 2340.00

Bottom of Core 2394.00

Top of Sand (Analyzed) 2340.15

Bottom of Sand (Analyzed) 2388.00

Total Feet of Permeable Sand (Analyzed) 41.25

Total Feet of Floodable Sand -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 12	5.65	5.65
12 - 16	5.35	11.00
16 - 32	6.70	17.70
32 - 40	6.15	23.85
40 - 56	8.20	32.05
56 - 64	5.45	37.50
64 & above	3.75	41.25

Average Permeability Millidarcys 34.85

Average Percent Porosity 15.97

Average Percent Oil Saturation

Average Percent Water Saturation

Average Oil Content, Bbls./A. Ft.

Total Oil Content, Bbls./Acre

Average Percent Oil Recovery by Laboratory Flooding Tests

Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft.

Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre

Total Calculated Oil Recovery, Bbls./Acre

Packer Setting, Feet

Viscosity, Centipoises @

A. P. I. Gravity, degrees @ 60 °F

Elevation, Feet

September 13, 1954

The Ohio Oil Company
Thompson Building
Tulsa 3, Oklahoma

Attention: Mr. Fred Kluck

Gentlemen:

Enclosed herewith are the results of permeability and porosity tests run on the 2½" Rotary core taken from the Bryden A/C 1 Lease, Well No. W-2, Greenwood County, Kansas, and submitted to our laboratory on August 27, 1954.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Herbert L. Brockey

HLB:bc

4 c.c.

THE OHIO OIL COMPANY

CORE ANALYSIS REPORT

BRYDEN A/C 1 LEASE WELL NO. W-2

GREENWOOD COUNTY, KANSAS

OILFIELD RESEARCH LABORATORIES

CHANUTE, KANSAS

SEPTEMBER 13, 1954

LOGCompany The Ohio Oil Company Lease Bryden A/C 1 Well No. W-2

<u>Depth Interval, Feet</u>	<u>Description</u>
2340.00 - 2340.15	- Grayish light brown fine grained micaceous sandstone.
2340.15 - 2351.00	- Light brown fine grained micaceous sandstone.
2351.00 - 2352.00	- Grayish brown fine grained micaceous shaley sandstone.
2352.00 - 2353.90	- Gray fine grained micaceous laminated carbonaceous sandstone.
2353.90 - 2356.00	- Brown fine grained micaceous sandstone.
2356.00 - 2358.00	- Loss.
2358.00 - 2365.20	- Brown fine grained micaceous sandstone.
2365.20 - 2368.60	- Grayish light brown fine grained micaceous finely laminated carbonaceous sandstone.
2368.60 - 2371.00	- Brown fine grained micaceous sandstone.
2371.00 - 2371.40	- Brown fine grained micaceous finely laminated carbonaceous sandstone.
2371.40 - 2379.00	- Light brown fine grained micaceous sandstone.
2379.00 - 2379.45	- Light brown fine grained laminated micaceous carbonaceous sandstone.
2379.45 - 2388.00	- Light brown fine grained slightly carbonaceous micaceous sandstone.
2388.00 - 2394.00	- Loss.

Oilfield Research Laboratories

SUMMARY OF PERMEABILITY & POROSITY TESTS

TABLE II A

Company	The Ohio Oil Company	Lease	Bryden A/C 1	Well No.	W-2
Depth Interval, Feet	Feet of Core Analyzed	Average Air Permeability, Millidarcys	Average Effective Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Average Percent Porosity
2340.15 - 2351.00	10.85	19.09	-	207.13	16.27
2353.90 - 2371.00	13.80	40.61	-	560.34	16.49
2371.40 - 2388.00	16.60	40.38	-	670.25	15.34
2340.15 - 2388.00	41.25	34.85	-	1,437.72	15.97

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RESULTS OF PERMEABILITY AND POROSITY TESTS

TABLE I A

Company The Ohio Oil Company Lease Bryden A/C 1 Well No. W-2

Sample No.	Depth, Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.	Percent Porosity
			Ft.	Cum. Ft.		
1	2340.40	64. +	0.50	0.50	32.00	20.6
2	2340.90	33. +	0.55	1.05	18.15	20.2
3	2341.45	38. +	0.50	1.55	19.00	16.2
4	2341.90	30. +	0.45	2.00	13.50	15.4
5	2342.40	17. +	0.55	2.55	9.35	15.4
6	2342.95	16. +	0.50	3.05	8.00	16.0
7	2343.40	15. +	0.40	3.45	6.00	16.2
8	2343.80	17. +	0.50	3.95	8.50	15.9
9	2344.40	13. +	0.55	4.50	7.15	15.9
10	2344.90	16. +	0.50	5.00	8.00	16.0
11	2345.45	18. +	0.55	5.55	9.90	15.6
12	2345.90	15. +	0.45	6.00	6.75	15.5
13	2346.35	12. +	0.45	6.45	5.40	15.7
14	2346.80	15. +	0.45	6.90	6.75	15.7
15	2347.30	12. +	0.55	7.45	6.60	15.8
16	2347.80	13. +	0.55	8.00	7.15	15.8
17	2348.45	31. +	0.50	8.50	15.50	16.1
18	2348.80	12. +	0.45	8.95	5.40	16.0
19	2349.35	13. +	0.55	9.50	7.15	15.7
20	2349.93	7.0 +	0.55	10.05	3.85	16.1
21	2350.40	5.1 +	0.50	10.55	2.55	15.2
22	2350.95	1.6 +	0.30	10.85	0.48	15.6
23	2351.45	Imp. +	0.60	11.45	0.00	-
24	2351.85	Imp. +	0.40	11.85	0.00	-
25	2352.45	Imp. +	0.75	12.60	0.00	-
26	2353.05	Imp. +	0.50	13.10	0.00	-
27	2353.60	Imp. +	0.65	13.75	0.00	-
28	2354.00	61. +	0.30	14.05	18.30	16.4
29	2354.45	59. +	0.50	14.55	29.50	16.7
30	2354.90	57. +	0.50	15.05	28.50	16.3
31	2355.45	63. +	0.50	15.55	31.50	16.5
32	2355.95	57. +	0.30	15.85	17.10	15.9
33	2358.45	53. +	0.65	16.50	34.45	16.5
34	2358.85	52. +	0.45	16.95	23.40	15.5
35	2359.40	55. +	0.50	17.45	27.50	15.8
36	2359.80	52. +	0.55	18.00	28.60	16.4
37	2360.45	43. +	0.50	18.50	21.50	15.8
38	2360.85	34. +	0.45	18.95	15.30	15.2
39	2361.40	40. +	0.70	19.65	28.00	16.2
40	2362.25	57. +	0.60	20.25	34.20	15.9
41	2362.50	64. +	0.30	20.55	19.20	16.5
42	2362.90	64. +	0.45	21.00	28.80	16.8

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TABLE I A

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Sample No.	Depth, Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.	Percent Porosity
			Ft.	Cum. Ft.		
43	2363.40	70. +	0.50	21.50	35.00	17.9
44	2363.90	35. +	0.50	22.00	17.50	16.8
45	2364.44	12. +	0.50	22.50	6.00	16.4
46	2364.85	7.2 +	0.55	23.05	3.96	15.3
47	2366.90	2.1 +	1.00	24.05	2.10	13.9
48	2367.85	4.3 +	1.10	25.15	4.73	15.4
49	2369.00	4.3 +	0.65	25.80	2.80	15.0
50	2369.45	67. +	0.40	26.20	26.80	17.7
51	2369.95	60. +	0.50	26.70	30.00	21.6
52	2370.40	54. +	0.55	27.25	29.70	21.0
53	2370.90	53. +	0.30	27.55	15.90	20.2
54	2371.43	26. +	0.30	27.85	7.80	14.3
55	2371.88	43. +	0.45	28.30	19.35	16.1
56	2372.50	25. +	0.55	28.85	13.75	14.6
57	2372.95	33. +	0.50	29.35	16.50	15.6
58	2373.45	34. +	0.50	29.85	17.00	15.5
59	2373.90	52. +	0.50	30.35	26.00	17.6
60	2374.55	74. +	0.55	30.90	40.70	15.7
61	2374.95	26. +	0.45	31.35	11.70	15.8
62	2375.45	9.4 +	0.50	31.85	4.70	14.7
63	2375.90	14. +	0.45	32.30	6.30	15.2
64	2376.46	39. +	0.55	32.85	21.45	15.6
65	2376.95	60. +	0.45	33.30	27.00	15.1
66	2377.40	67. +	0.50	33.80	33.50	16.3
67	2377.96	32. +	0.55	34.35	17.60	15.8
68	2378.40	30. +	0.50	34.85	15.00	15.8
69	2378.90	17. +	0.30	35.15	5.10	15.0
70	2379.25	40. +	0.45	35.60	18.00	15.9
71	2379.75	41. +	0.65	36.25	26.65	16.3
72	2380.40	34. +	0.60	36.85	20.40	15.3
73	2380.92	24. +	0.50	37.35	12.00	15.0
74	2381.46	63. +	0.50	37.85	31.50	16.0
75	2381.95	8.3 +	0.50	38.35	4.15	14.2
76	2382.40	33. +	0.50	38.85	16.50	15.6
77	2382.90	47. +	0.50	39.35	23.50	13.5
78	2383.40	58. +	0.45	39.80	26.10	15.4
79	2383.90	51. +	0.45	40.25	22.95	15.6
80	2384.35	67. +	0.55	40.80	36.80	15.4
81	2384.90	36. +	0.50	41.30	18.00	14.2
82	2385.35	37. +	0.45	41.75	16.65	13.2
83	2385.90	46. +	0.50	42.25	23.00	15.2
84	2386.40	25. +	0.55	42.80	13.75	14.7
85	2386.90	55. +	0.50	43.30	27.50	15.2

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Sample No.	Depth, Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.	Percent Porosity
			Ft.	Cum. Ft.		
86	2387.35	56. +	0.50	43.80	28.00	14.8
87	2387.90	61. +	0.35	44.15	21.35	15.7