

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Compton Industries Lease Heider Well No. 1

Location _____

Section 25 Twp. 23S Rge. 22E County Bourbon State Kansas

Name of Sand	Squirrel
Top of Core - - - - (Received)	524.0
Bottom of Core - - - - (Received)	544.0
Top of Sand - - - - (Analyzed)	527.4
Bottom of Sand	543.3
Total Feet of Permeable Sand	13.0
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 5	3.0	3.0
5 - 10	3.0	6.0
10 - 50	3.2	9.2
50 - 75	2.2	11.4
75 & above	1.6	13.0

Average Permeability Millidarcys	31.9
Average Percent Porosity	15.1
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	

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Compton Industries Lease Heider Well No. 1

Location _____

Section 25 Twp 23S Rge. 22E County Bourbon State Kansas

Name of Sand	-		Bartlesville
Top of Core	-	(Received)	610.0
Bottom of Core	-	(Received)	644.4
Top of Sand	-	(Received)	610.0
Bottom of Sand	-	(Analyzed)	640.0
Total Feet of Permeable Sand	-	(Analyzed)	29.0
Total Feet of Floodable Sand	-	-	

Distribution of Permeable Sand:

Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 5	7.3	7.3
5 - 10	4.0	11.3
10 - 50	9.0	20.3
50 - 100	5.7	26.0
100 & above	3.0	29.0

Average Permeability Millidarcys	-		36.7
Average Percent Porosity	-	-	18.7
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	-	-	

OILFIELD RESEARCH LABORATORIES

-- LOG --

Company Compton Industries Lease Heider Well No. 1

<u>Depth Interval</u> <u>Feet</u>	<u>Description</u>	<u>SQUIRREL SAND</u>
524.0 - 527.4	Gray finely laminated very shaly sandstone.	
527.4 - 529.3	Brown very shaly sandstone.	
529.3 - 530.2	Gray finely laminated very shaly sandstone.	
530.2 - 533.4	Brown slightly shaly sandstone.	
533.4 - 534.0	Gray sandy shale.	
534.0 - 534.2	Brown slightly shaly sandstone.	
534.2 - 534.5	Gray finely laminated very shaly sandstone.	
534.5 - 537.7	Brown shaly sandstone.	
537.7 - 539.2	Gray finely laminated very shaly sandstone.	
539.2 - 540.6	Brown sandstone.	
540.6 - 541.6	Brown finely laminated carbonaceous sandstone.	
541.6 - 541.9	Grayish brown very shaly sandstone.	
541.9 - 543.3	Brown slightly carbonaceous sandstone.	
543.3 - 544.0	Coal.	
544.0 - 610.0	Drilled.	
		<u>BARTLESVILLE SAND</u>
610.0 - 613.3	Gray laminated shaly sandstone.	
613.3 - 620.0	Gray slightly laminated shaly sandstone.	
620.0 - 625.0	Gray laminated shaly sandstone.	
625.0 - 633.0	Gray slightly laminated shaly sandstone.	
633.0 - 636.0	Gray laminated shaly sandstone.	
636.0 - 640.0	Gray slightly laminated shaly sandstone.	
640.0 - 644.0	Gray finely laminated very shaly sandstone.	

Oilfield Research Laboratories
RESULTS OF PERMEABILITY AND POROSITY TESTS

TABLE I A

Company Compton Industries Lease Heider Well No. 1

Sample No.	Depth Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.	Percent Porosity
			Ft.	Cum. Ft.		
			<u>SQUIRREL SAND</u>			
				<u>BURBAUK ?</u>		
1	527.5	0.63	0.6	0.6	0.38	11.4
2	528.5	9.4	1.3	1.9	12.20	14.0
3	529.5	0.27	0.9	2.8	0.24	9.4
4	530.5	29.	0.8	3.6	23.20	18.3
5	531.5	20.	1.0	4.6	20.00	19.1
6	532.5	33.	1.0	5.6	33.00	18.0
7	533.3	31.	0.4	6.0	12.40	18.0
8	534.6	0.28	0.5	6.5	0.14	9.8
9	535.5	5.7	1.0	7.5	5.70	15.0
10	536.4	4.5	1.0	8.5	4.50	15.4
11	537.6	6.3	0.7	9.2	4.41	15.4
12	538.5	Imp.	1.5	10.7	0.00	9.6
13	539.5	61.	0.8	11.5	48.80	16.3
14	540.5	113.	0.6	12.1	67.80	17.6
15	541.5	82.	1.0	13.1	82.00	17.2
16	542.5	71.	1.4	14.5	99.40	18.1
			<u>BARTLESVILLE SAND</u>			
17	610.5	1.2	1.0	1.0	1.20	15.5
18	611.5	11.	1.0	2.0	11.00	16.4
19	612.5	4.8	1.3	3.3	6.24	16.7
20	613.5	60.	0.7	4.0	42.00	21.1
21	614.5	71.	1.0	5.0	71.00	23.0
22	615.5	143.	1.0	6.0	143.00	22.8
23	616.5	156.	1.0	7.0	156.00	21.7
24	617.5	113.	1.0	8.0	113.00	22.3
25	618.5	53.	1.0	9.0	53.00	21.1
26	619.5	69.	1.0	10.0	69.00	22.9
27	620.5	23.	1.0	11.0	23.00	17.4
28	621.5	8.2	1.0	12.0	8.20	17.7
29	622.5	1.2	1.0	13.0	1.20	14.3
30	623.5	Imp.	1.0	14.0	0.00	9.7
31	624.5	2.0	1.0	15.0	2.00	16.1
32	625.5	61.	1.0	16.0	61.00	20.5
33	626.5	60.	1.0	17.0	60.00	20.0
34	627.5	44.	1.0	18.0	44.00	20.3
35	628.5	47.	1.0	19.0	47.00	20.5
36	629.5	6.7	1.0	20.0	6.70	17.6
37	630.5	5.8	1.0	21.0	5.80	18.3
38	631.5	4.6	1.0	22.0	4.60	16.6
39	632.5	10.	1.0	23.0	10.00	19.4
40	633.5	1.5	1.0	24.0	1.50	15.2
41	634.5	0.30	1.0	25.0	0.30	13.8

Oilfield Research Laboratories
RESULTS OF PERMEABILITY AND POROSITY TESTS
TABLE I A

Company Compton Industries Lease Heider Well No. 1

Sample No.	Depth Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.	Percent Porosity
			Ft.	Cum. Ft.		
42	635.5	6.7	1.0	26.0	6.70	18.0
43	636.5	36.	1.0	27.0	36.00	20.9
44	637.5	16.	1.0	28.0	16.00	19.4
45	638.5	16.	1.0	29.0	16.00	20.1
46	639.5	49.	1.0	30.0	49.00	21.8

Oilfield Research Laboratories

SUMMARY OF PERMEABILITY & POROSITY TESTS

TABLE II A

Company Compton Industries Lease Heider Well No. 1

Depth Interval, Feet	Feet of Core Analyzed	Average Air Permeability, Millidarcys	Average Effective Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Average Percent Porosity
<u>SQUIRREL SAND</u>					
527.4 - 533.4	6.0	16.9		101.42	15.4
534.5 - 539.2	3.2	4.6		14.75	12.9
539.2 - 543.3	3.8	78.4		298.00	17.4
527.4 - 543.3	13.0	31.9		414.17	15.1
<u>BARTLESVILLE SAND</u>					
610.0 - 621.0	11.0	62.6		688.44	20.0
621.0 - 625.0	3.0	3.8		11.40	14.5
625.0 - 640.0	15.0	24.3		364.60	18.8
610.0 - 640.0	29.0	36.7		1,064.44	18.7