

OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650

November 2, 1981

Siddeg Production, Ltd.
219 S. Plummer
Chanute, Kansas 66720

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Finney Lease, Well No. 2-3-02, located in Allen County, Kansas.

The core was sampled and sealed in plastic bags by a representative of Oilfield Research Laboratories and received in our laboratory on October 27, 1981.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES



Sanford A. Michel

SAM/mkf

5 c to Chanute, Ks.

Oilfield Research Laboratories
GENERAL INFORMATION & SUMMARY

Company Siddeg Production, Ltd. Lease Finney Well No. 2-3-02
 Location 1150' WEL & 1222' NSL, SE $\frac{1}{4}$
 Section 21 Twp. 25S Rge. 18E County Allen State Kansas

Elevation, Feet

Name of Sand..... **BARTLESVILLE**

Top of Core 840.0

Bottom of Core 861.4

Top of Sand 840.0

Bottom of Sand 856.4

Total Feet of Permeable Sand 13.6

Distribution of Permeable Sand:
 Permeability Range
 Millidarcys

Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 10	8.0	8.0
10 - 26	2.6	10.6
60 - 70	0.6	11.2
105 - 155	2.4	13.6

Average Permeability Millidarcys 31.5

Average Percent Porosity 16.8

Average Percent Oil Saturation 46.5

Average Percent Water Saturation..... 36.2

Average Oil Content, Bbls./A. Ft. 630.

Total Oil Content, Bbls./Acre..... 9,702.

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LOGName Siddeg Production Ltd. Lease Finney Well No. 2-3-02

<u>Depth Interval, Feet</u>	<u>Description</u>
840.0 - 841.4	Grayish brown shaly sandstone.
841.4 - 842.7	Brown sandstone.
842.7 - 844.5	Gray and brown laminated shale and sandstone.
844.5 - 846.2	Dark brown sandstone.
846.2 - 848.0	Grayish brown shaly sandstone.
848.0 - 849.0	Dark brown sandstone.
849.0 - 850.6	Gray and brown laminated shale and sandstone.
850.6 - 856.4	Gray shaly sandstone.
856.4 - 857.0	Coal.
857.0 - 861.4	Gray shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Siddeg Production, Ltd. Lease Finney Well No. 2-3-02

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbbs. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	840.4	13.0	10	73	83	101	4.5	1.4	1.4	141	6.30
2	841.5	17.9	31	37	68	431	65.	0.6	2.0	259	39.00
3	842.6	20.4	41	46	87	649	153.	0.7	2.7	454	107.10
4	843.5	10.5	48	48	96	391	Imp.	1.8	4.5	704	0.00
5	844.6	19.4	48	27	75	722	113.	1.0	5.5	722	113.00
6	845.6	19.3	45	31	76	674	108.	0.7	6.2	472	75.60
7	846.7	13.6	30	57	87	317	1.1	0.8	7.0	254	0.88
8	848.6	19.9	59	22	81	911	25.	1.0	8.0	911	25.00
9	849.5	18.1	61	31	92	857	13.	1.0	9.0	857	13.00
10	850.4	19.3	58	20	78	868	15.	0.6	9.6	521	9.00
11	851.6	18.6	66	20	86	952	8.9	1.7	11.3	1618	15.13
12	852.4	18.5	73	15	88	1048	6.6	1.0	12.3	1048	6.60
13	853.6	19.7	64	29	93	978	8.0	1.0	13.3	978	8.00
14	854.4	18.2	33	39	72	466	6.0	1.1	14.4	513	6.60
15	855.6	13.4	24	35	59	250	2.6	1.0	15.4	250	2.60

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SUMMARY OF PERMEABILITY & SATURATION TESTS

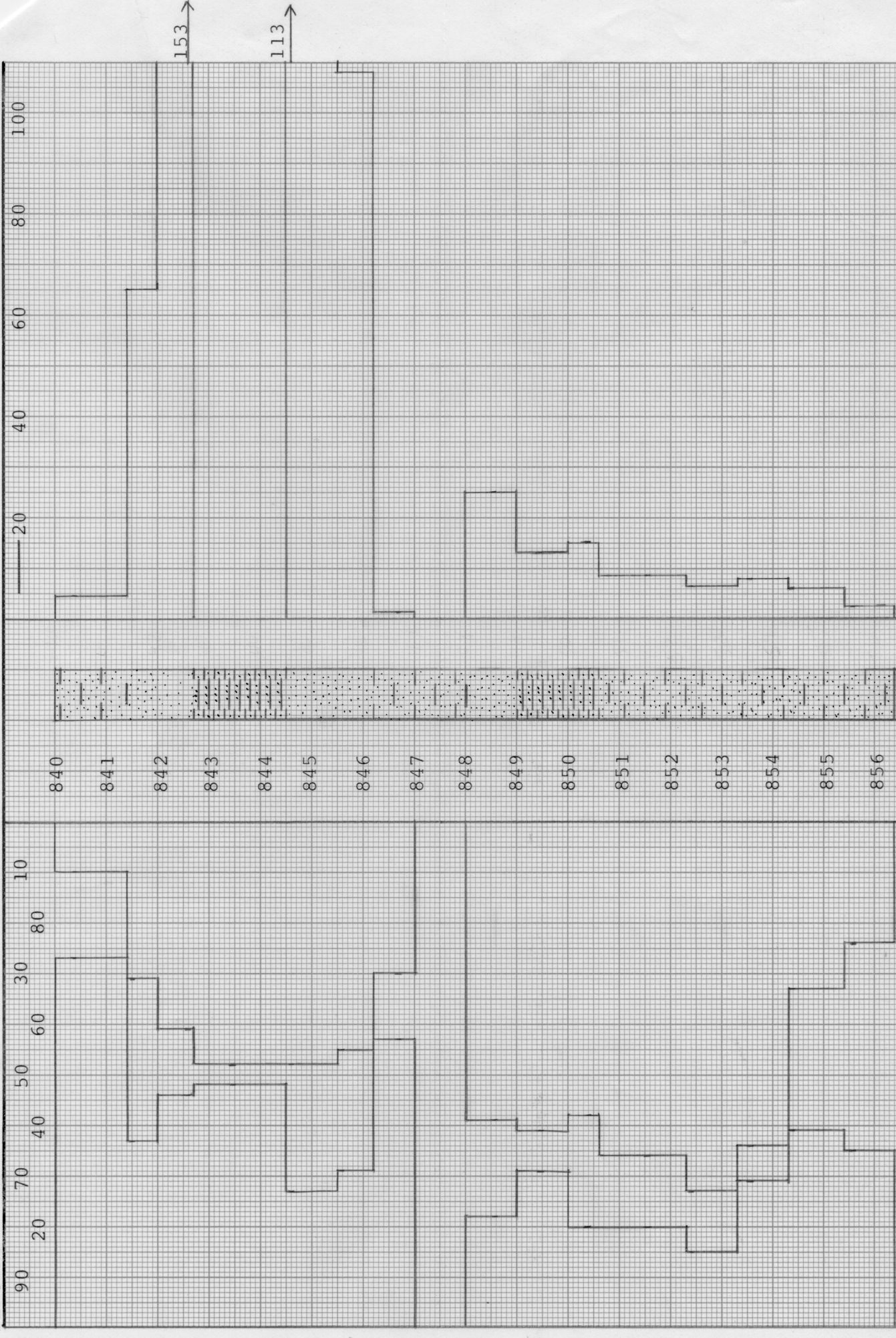
TABLE III

Company	Lease	Well No.							
Siddeg Production, Ltd.	Finney	2-3-02							
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre		
840.0 - 856.4	13.6	31.5	427.81	46.5	36.2	630	9,702		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre			
840.0 - 856.4	15.4	16.8	46.5	36.2	630	9,702			

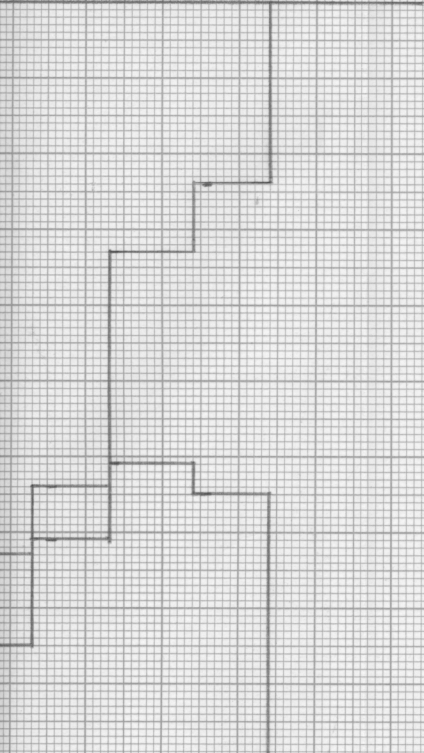
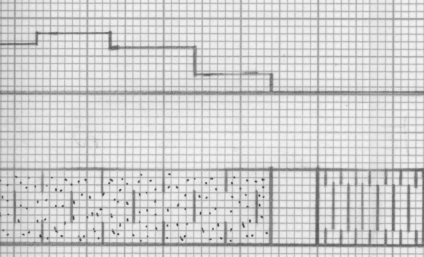
PERMEABILITY, IN MILLIDARCYS

WATER SAT., PERCENT

OIL SAT., PERCENT



853
854
855
856
857
861



KEY:

COAL

SANDSTONE

SHALE

SHALY SANDSTONE

LAMINATED SANDSTONE AND SHALE

SIDDEG PRODUCTION, LTD

FINNEY LEASE

ALLEN COUNTY, KANSAS

WELL NO. 2-3-02

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCYS
840.0 - 856.4	15.4	16.8	46.5	36.2	31.5

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CHANUTE, KANSAS
NOVEMBER, 1981