

# OILFIELD RESEARCH LABORATORIES

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

December 14, 1981

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

Gentlemen:

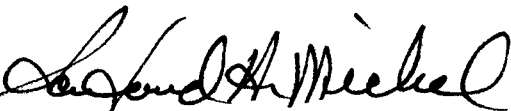
Enclosed herewith are the results of tests run on the rotary core taken from the Finney C Lease, Well No. 2-3-06, located in Allen County, Kansas.

The core was sampled and sealed in plastic bags by a representative of Oilfield Research Laboratories and was received in our laboratory on December 9, 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 C Well No. 2-3-06

Location \_\_\_\_\_

Section 21 Twp. 25S Rge. 18E County Allen State Kansas

Elevation, Feet .....

Name of Sand.....

BARTLESVILLE

Top of Core .....

842.0

Bottom of Core .....

860.2

Top of Sand .....

842.6

Bottom of Sand .....

858.1

Total Feet of Permeable Sand .....

11.3

Distribution of Permeable Sand:  
Permeability Range  
Millidarcys

Feet

Cum. Ft.

0 - 6

3.2

3.2

20 - 100

5.7

8.9

100 - 155

2.4

11.3

Average Permeability Millidarcys .....

60.5

Average Percent Porosity .....

15.8

Average Percent Oil Saturation .....

40.4

Average Percent Water Saturation.....

41.6

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

526.

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

8,159.

## OILFIELD RESEARCH LABORATORIES

LOGName Siddeg Production, Ltd. Lease Finney C Well No. 2-3-06

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
842.0 - 842.6	Gray shale.
842.6 - 843.8	Grayish brown very shaly sandstone.
843.8 - 845.0	Gray and brown laminated shale and sandstone.
845.0 - 850.0	Grayish brown very shaly sandstone.
850.0 - 850.9	Dark brown sandstone.
850.9 - 854.8	Brown sandstone with shale nodules and partings.
854.8 - 858.1	Brown sandstone with fine shale partings.
858.1 - 858.6	Coal.
858.6 - 860.2	Gray shale.

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Siddeg Production, Ltd.

Lease Finney C

Well No. 2-3-06

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	843.3	10.6	7	90	97	58	Imp.	1.2	1.2	70	0.00
2	844.6	15.1	35	50	85	410	5.6	1.2	2.4	492	6.72
3	845.9	11.2	26	67	93	226	Imp.	1.5	3.9	339	0.00
4	847.4	10.6	34	63	97	280	Imp.	1.5	5.4	420	0.00
5	848.3	11.3	44	48	92	386	0.26	1.0	6.7	386	0.26
6	849.5	11.8	38	55	93	348	2.4	1.0	7.4	348	2.40
7	850.5	21.9	50	18	68	850	153.	0.9	8.3	765	137.70
8	851.6	18.7	43	23	66	624	108.	1.5	9.8	936	162.00
9	853.6	21.3	51	21	72	843	82.	1.4	11.2	1180	114.80
10	854.6	19.7	62	14	76	948	97.	1.0	12.2	948	97.00
11	855.5	16.2	52	31	83	654	23.	1.3	13.5	850	29.90
12	856.6	20.8	41	25	66	662	63.	1.0	14.5	662	63.00
13	857.4	18.9	52	20	72	763	70.	1.0	15.5	763	70.00

# Oilfield Research Laboratories

## SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

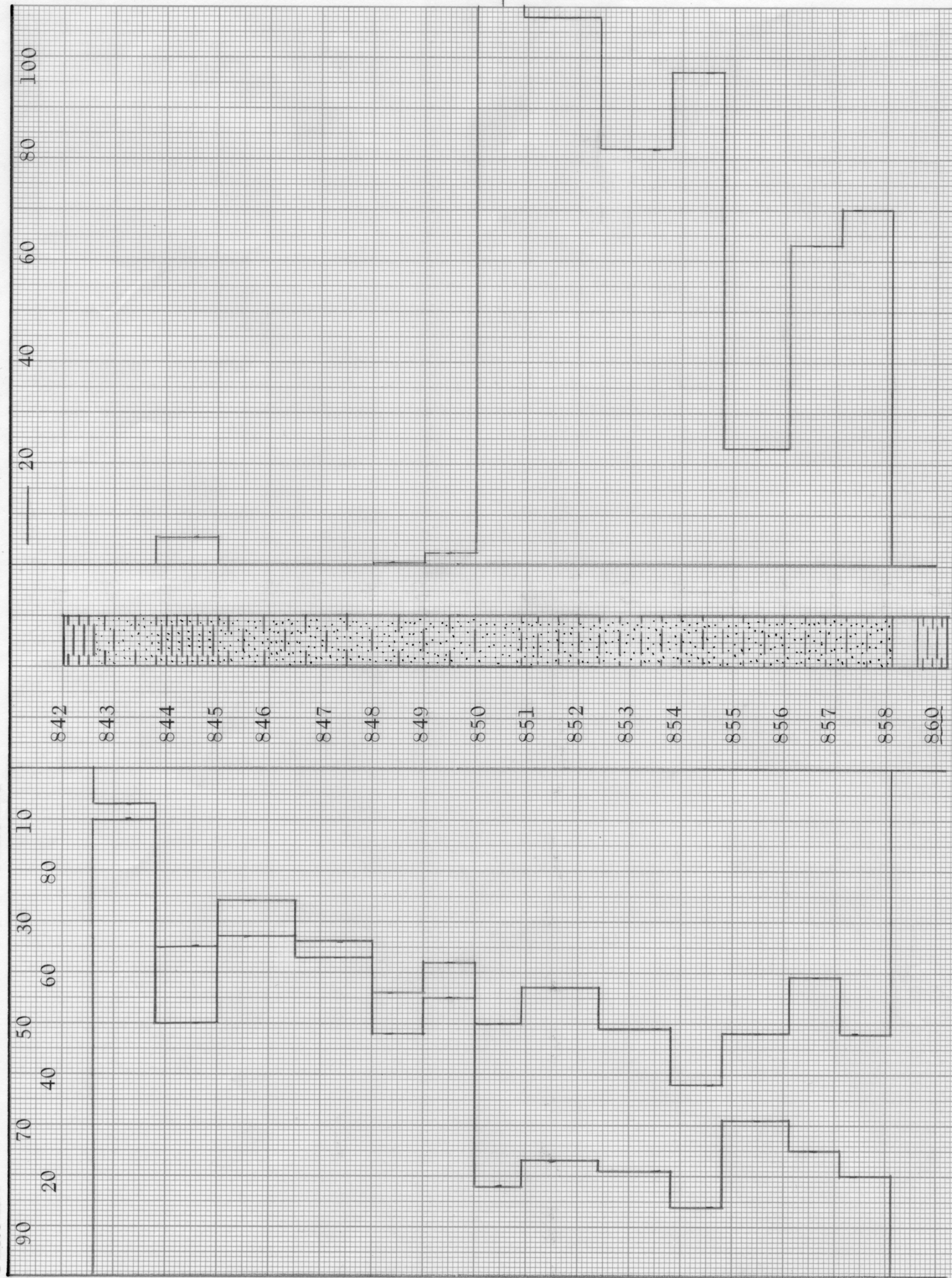
Company Siddeg Production, Ltd. Lease Finney C Well No. 2-3-06

Depth Interval, Feet	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
842.6 - 850.0	842.6 - 850.0	3.2	2.9	9.38	30.1	63.0	278	2,055
850.0 - 858.1	850.0 - 858.1	8.1	83.3	674.40	49.8	22.1	754	6,104
842.6 - 858.1	842.6 - 858.1	11.3	60.5	683.78	40.4	41.6	526	8,159

WATER SAT., PERCENT →

OIL SAT., PERCENT ←

PERMEABILITY, IN MILLIDARCYS



153

KEY:



COAL



SANDSTONE



SHALE



SHALY SANDSTONE



LAMINATED SANDSTONE AND SHALE



SANDSTONE WITH SHALE PARTINGS

# SIDDEG PRODUCTION, LTD.

FINNEY C LEASE

ALLEN COUNTY, KANSAS

WELL NO. 2-3-06

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL		AVG. WATER		AVERAGE PERMEABILITY, MILLIDARCS
			SATURATION PERCENT	PERCENT	SATURATION PERCENT	PERCENT	
842.6 - 850.0	7.4	11.7	30.1	63.0	2.9		
850.0 - 858.1	8.1	19.5	49.8	22.1	83.3		
842.6 - 858.1	15.5	15.8	40.4	41.6	60.5		

OILFIELD RESEARCH LABORATORIES  
 CHANUTE, KANSAS  
 DECEMBER, 1981

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