EARLOUGHER ENGINEERING
PETROLEUM CONSULTANTS - CORE ANALYSES
3316 EAST 21ST STREET
TULSA, OKLAHOMA

May 1, 1954

Schermerhorn Oil Corporation
714 First National Building
Tulsa, Oklahoma

Attention - Mr. H. A. Sherman

Re - Core Analysis
North Unit Well No. 0-20
Sec. 4, T.21-S., R.21-E.
Anderson County, Kansas

Gentlemen:

Attached are results of analysis, together with profile and summary, covering core received from your above well.

Yours very truly

EARLOUGHER ENGINEERING

R. C. Earlougher, Engineer

JMR tw
Encl 1
cc - Garnett Office

EARLOUGHER ENGINEERING

CORE SUMMARY

Company Schermerhorn Oil Corporation Lease North Unit Well No. 0-20

Location 150 feet South of North Line, 800 feet East of West Line, NE/4

Section 4 Twp. 21-S Rge. 21-E County Anderson State Kansas

Formation Cored Bartlesville Sand Type Core No. 6 Cable Tool

Date Cored 4-26-54 Date Shot _____ Coring Fluid Water

Depths:

Started coring, sandy shale	731.0 Feet
Top of oil sand	733.0 "
Bottom of oil sand	739.5 "
Bottom of core, shale	740.6 "
Net feet of oil sand	4.2 "
Total feet cored	9.6 "
Feet analyzed	8.0 "

Shot Record: Set Packer _____ Feet

Depth, Feet From	Depth, Feet To	Feet	Shell Diameter	Quarts Per Foot	Quarts Total

Casing set and cemented at	733.0 Feet
Plug back to	739.0 "
Sand-Oil Treatment	

Completion Data:

Hrs. well stood after coring _____; Feet Fluid in Hole _____ (Oil _____ Water _____)

Clean-out time, hrs. _____; Initial production, bbls. day _____ (Oil _____ Water _____)

Remarks: The Bartlesville section was cored with cable tools from 731.0 to 740.6 feet and core sampled by Earlougher Engineering. Coring was commenced in sandy shale and completed in shale.

The core indicates 4.2 net feet of fair oil sand in a very broken section from 733.0 to 739.5 feet. The core was bleeding some oil when taken from the core barrel.

The oil sand has a good average permeability of 97 millidarcys and good average porosity of 22.3 per cent. The average oil saturation is 28 per cent and average

(Continued following page)

core water saturation 40 per cent.

Estimated oil recovery by water flooding from the area of which this core is representative is 500 barrels per acre.

JMR tw

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SUMMARY OF CORE ANALYSES DATA

COMPANY Schermerhorn Oil Corporation **LEASE** North Unit **WELL NO.** 0-20

Sec.	Formation	Depth, Ft.		Net Ft. of Sand	Avg. Por.	Avg. Core Saturation		Core Oil Content		Permeability		Flood Pot Residuals				Oil Recovery Bbl./Acre	
												Saturation		Oil Content			
		From	To			Oil	Water	Avg. B/A. Ft.	Total B/Ac.	Avg. Md.	Capacity Ft. x Md.	Oil	Water	B/A. Ft.	B/Ac.	Diff.	Flood Pot
	BARTLESVILLE	733.0	739.5	4.2	22.3	28.	40.	491.	2,060.	97.	406.	--	--	--	--	--	--

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RESULTS OF SATURATION TESTS

COMPANY Schermerhorn Oil Corporation WELL North Unit 0-20

Sat. No.	Depth Feet	Porosity Per Cent	Per Cent Saturation			Avg. Oil Content Bbl./A. Ft.	Feet of Sand		Total Oil Content Bbl./Acre
			Oil	Water	Total		Ft.	Cum.	
1	731.3	16.0	16.	56.	72.	200.	0.6	*	--
2	733.2	20.7	27.	41.	68.	430.	1.1	1.1	470.
3	734.5	10.8	18.	82.	100.	150.	0.5	*	--
4	735.7	18.4	23.	46.	69.	320.	0.3	1.4	100.
5	736.7	23.8	26.	43.	69.	490.	0.8	2.2	390.
6	737.3	22.3	42.	34.	75.	720.	0.7	2.9	500.
7	738.3	23.8	25.	38.	63.	460.	1.3	4.2	600.
8	739.2	11.0	18.	82.	100.	150.	0.2	*	--

* Not included in cumulative feet of sand.

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RESULTS OF PERMEABILITY TESTS

COMPANY Schermerhorn Oil Corporation **WELL** North Unit No. 0-20

Sample No.	Depth Feet	Permeability Millidarcys	Feet of Sand		Capacity Ft. X Md.	Sample No.	Depth Feet	Permeability Millidarcys	Feet of Sand		Capacity Ft. X Md.
			Ft.	Cum. Ft.					Ft.	Cum. Ft.	
1	731.1	2.6	0.6	*	--	6	737.5	109.	0.7	2.9	76.
2	733.2	28.	0.8	0.8	22.	7	738.5	131.	0.8	3.7	105.
3	734.2	15.	0.3	1.1	4.5	9	739.0	65.	0.5	4.2	33.
4	735.7	55.	0.3	1.4	17.	8	739.2	Imp.	0.2	*	--
5	736.7	185.	0.8	2.2	148.						

* Not included in cumulative feet of sand.

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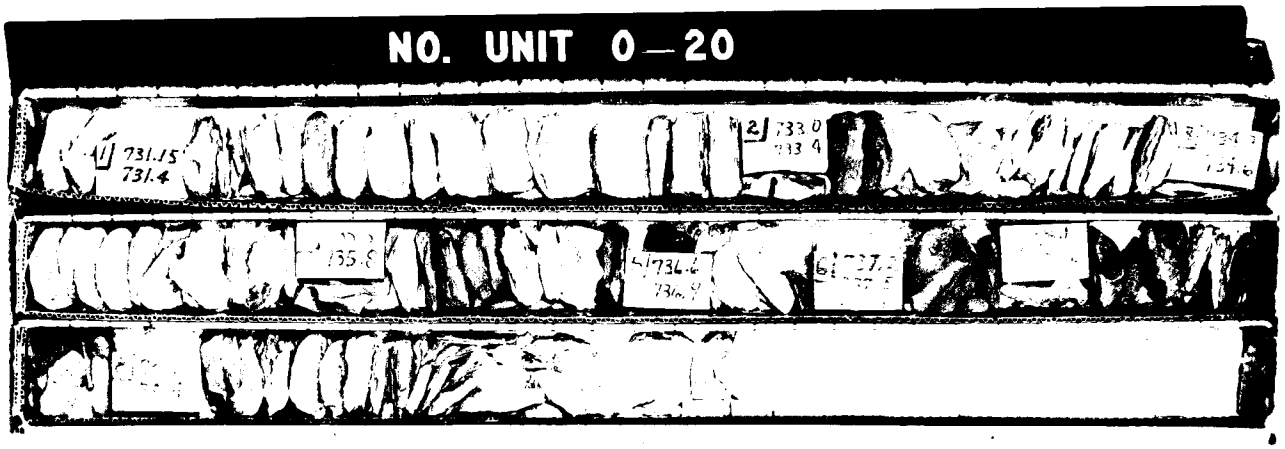
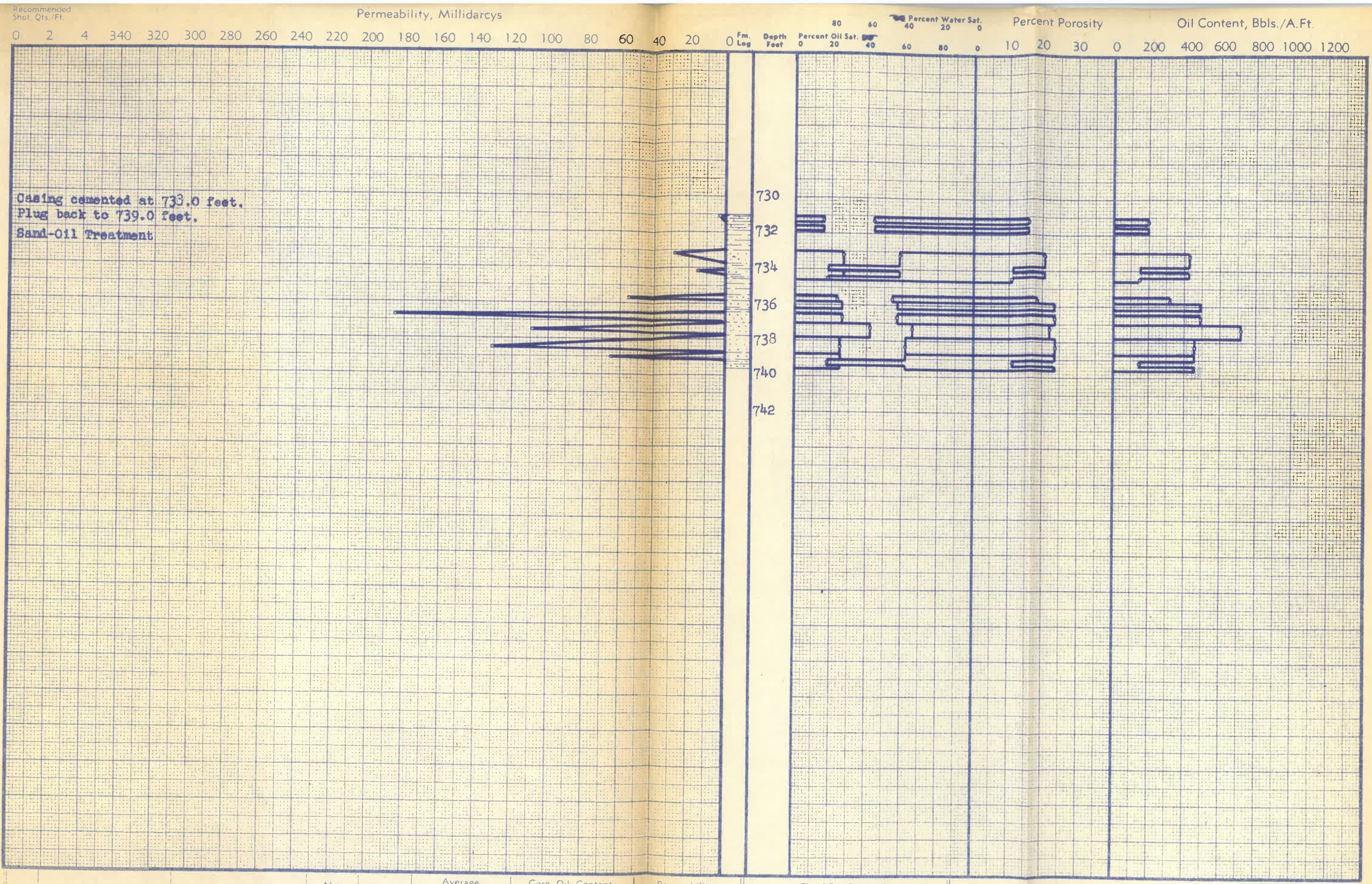

NO. UNIT 0—20

Recommended Shot Qts./Ft.



Sec	Sand	Depth, Feet From	Depth, Feet To	Net Ft of Sand	Avg. Por	Average Core Sat. Oil	Average Core Sat. Water	Core Oil Content Avg. B. A.Ft	Core Oil Content Total Bbl./Ac	Permeability Avg. Mds	Permeability Capacity Ft x Md	Flood Pot Residuals Saturation Oil	Flood Pot Residuals Saturation Water	Flood Pot Residuals Oil Content B./A Ft.	Flood Pot Residuals Oil Content Bbl./Ac.
1	Bartlesville	733.0	739.5	4.2	22.3	28.	40.	491.	2,060.	97.	406.				

COMPANY SCHERMERHORN OIL CORPORATION
LEASE NORTH UNIT WELL NO. 0-20
LOCATION 150'S. of N.L., 800'E. of W.L., NE/4
SEC 4 T 21-S R. 21-E COUNTY Anderson
STATE Kansas DATE 5-1-54

EARLOUGHER ENGINEERING TULSA, OKLAHOMA