

EARLOUGHER ENGINEERING

PETROLEUM CONSULTANTS - CORE ANALYSES

3316 EAST 21ST STREET

TULSA, OKLAHOMA

December 10, 1953

**Schermerhorn Oil Corporation
714 First National Building
Tulsa, Oklahoma**

Attention - Mr. H. A. Sherman

**Re - Core Analysis
North Unit Well No. O-12
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 1

Encl 1

cc - Garnett Office

EARLOUGHER ENGINEERING
CORE SUMMARY

Company Schermerhorn Oil Corporation Lease North Unit Well No. O-12
 Location 2720 feet North; 850 East of Center
 Section 4 Twp. 21-S Rge. 21-E County Anderson State Kansas
 Formation Cored Bartlesville Type Core No. 6 Baker Barrel
 Date Cored 12-1-53 Date Shot _____ Coring Fluid Water

Depths:	Elevation, ground	985.0 feet
	Started coring, S. L. M.	720.6 "
	Top of core recovered, oil sand	724.7 "
	Bottom of oil sand	726.6 "
	Net feet of oil sand recovered	1.6 "
	Coal	727.3 - 727.7 "
	Bottom of core, shale	729.7 "
	Total cored	9.1 "
	Per cent core recovery	55.0 "
	Feet analyzed	1.6 "

Shot Record: Set Packer _____ Feet

<u>Depth, Feet</u>		<u>Feet</u>	<u>Shell Diameter</u>	<u>Quarts Per Foot</u>	<u>Quarts Total</u>
<u>From</u>	<u>To</u>				

Plugged and abandoned.

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 No. 6 Baker barrel and sampled at the well by Earlougher Engineering. Coring was commenced at 720.6 feet; however, due to mechanical difficulty only 0.6 foot of the first core run from 720.6 to 725.3 feet was recovered. Actual location of the core recovered is not known and it has arbitrarily been placed at the bottom of the cored interval. Coring was stopped in shale at 729.7 feet.

(Continued following page)

Results of analyses indicate 1.6 net feet of depleted oil sand from 724.7 to 726.6 feet. This figure includes no core loss from 720.6 to 725.3 feet. Average permeability is 100 millidarcys and average porosity 23.6 per cent. Average oil saturation is a relatively low 26 per cent and average core water saturation a high 60 per cent. Average oil content is 469 barrels per acre-foot. It is probable that this immediate area has been materially affected by water encroachment. In view of the thin and depleted nature of the sand section as indicated by this core, this well was plugged and abandoned.

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SUMMARY OF CORE ANALYSES DATA

COMPANY Schermerhorn Oil Corporation

LEASE North Unit

WELL NO. 0-12

Sec.	Formation	Depth, Ft.		Net Ft. of Sand	Avg. Por.	Avg. Core Saturation		Core Oil Content		Permeability		Flood Pot Residuals				Oil Recovery Bbl./Acre	
		From	To			Oil	Water	Avg. B/A. Ft.	Total B/Ac.	Avg. Md.	Capacity Ft. x Md.	Saturation		Oil Content		Diff.	Flood Pot
												Oil	Water	B/A. Ft.	B/Ac.		
1	Bartlesville	724.7	726.6	1.6**	23.6	26.	60.	469.	750.	100.	160.						
		**Includes no core loss 720.6 - 725.3 feet.															

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RESULTS OF SATURATION TESTS

COMPANY Schermerhorn Oil Corporation

WELL North Unit No. 0-12

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	725.8	24.2	24.	55.	79.	450.	1.1	1.1	500.
2	726.4	22.4	28.	64.	92.	490.	0.5	1.6	250.

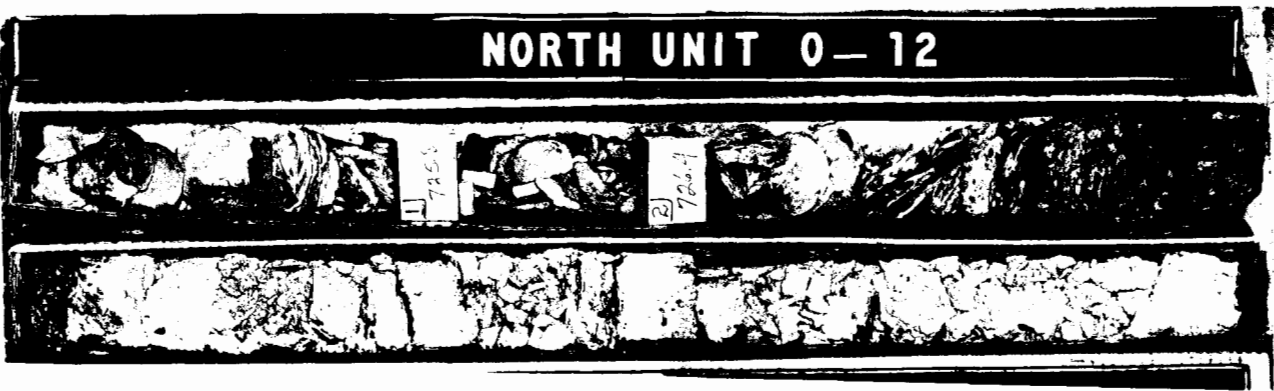
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RESULTS OF PERMEABILITY TESTS

COMPANY Schermerhorn Oil Corporation

WELL North Unit No. 0-12

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	724.8	135.	0.6	0.6	81.						
2	725.7	96.	0.5	1.1	48.						
3	726.5	62.	0.5	1.6	31.						

NORTH UNIT 0-12



Recommended
Shor. Qts. Ft.

Permeability, Millidarcys

0 2 4 340 320 300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 Fm. Log Depth Feet 0 20 40 60 80 0 10 20 30 0 200 400 600 800 1000 1200

Percent Water Sat.

Percent Porosity

Oil Content, Bbls./A.Ft.

Plugged and Abandoned

Gored from 720.6 to 725.3 feet
Recovered 0.6 feet from this interval

Coal

720
722
724
726
728
730

Sec.	Sand	Depth, Feet		Net Ft. of Sand	Avg. Por.	Average Core Sat.		Core Oil Content		Permeability		Flood Pot Residuals			
		From	To			Oil	Water	Avg. B./A.Ft.	Total Bbl./Ac.	Avg Mds	Capacity Ft. x Md.	Saturation		Oil Content	
												Oil	Water	B./A.Ft.	Bbl./Ac.
1	Bartlesville	724.7	726.6	1.6**	23.6	26.	60.	469.	750.	100.	160.				

COMPANY **SCHERMERHORN OIL CORPORATION**
 LEASE **NORTH UNIT** WELL NO. **0-12**
 LOCATION **2720 ft. N., 850 ft. E. of Center**
 SEC. **4** T. **21-S** R. **21-E** COUNTY **Anderson**