

Recommended Shot, Qts./Ft.

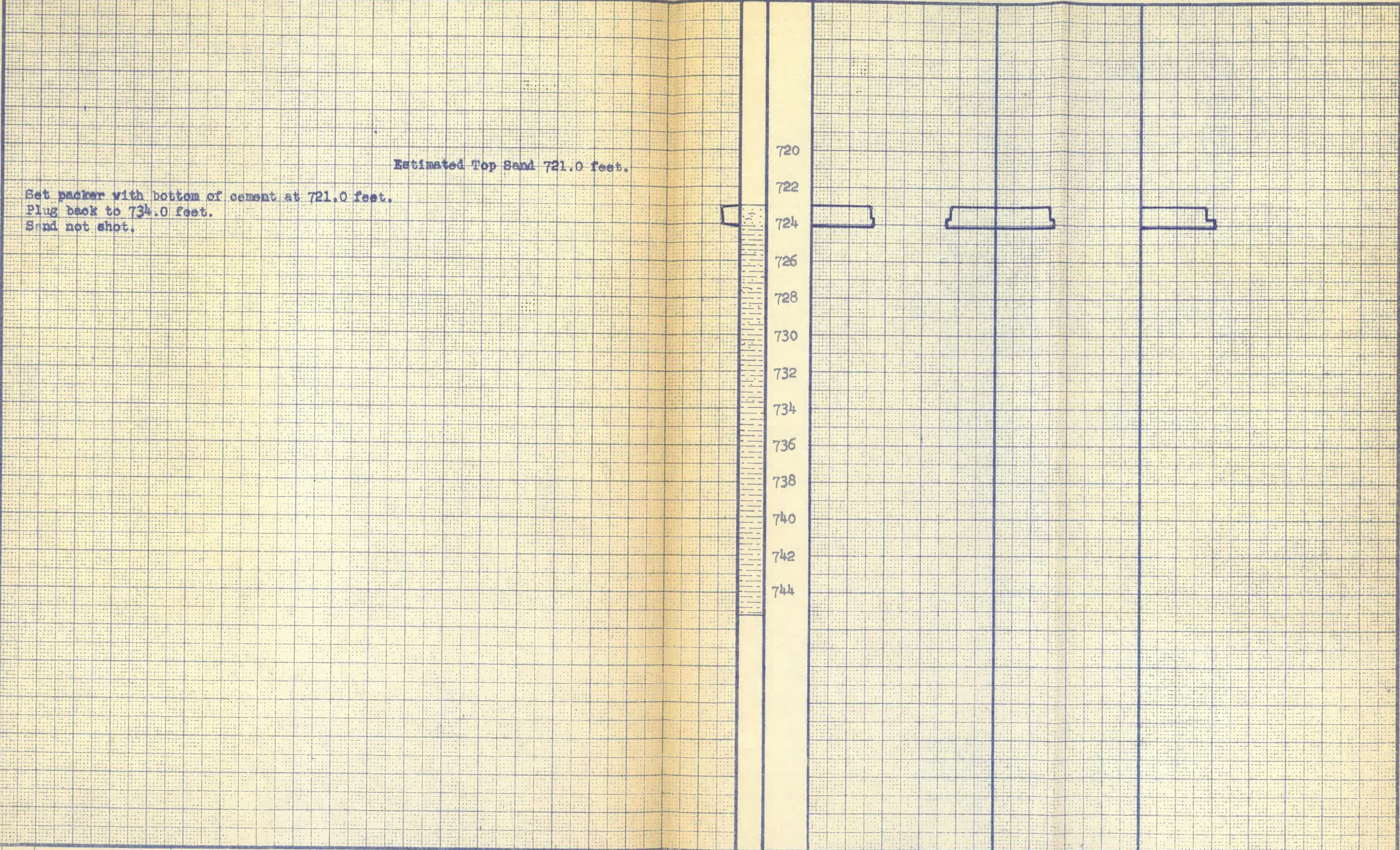
Permeability, Millidarcys

Percent Water Sat.

Percent Porosity

Oil Content, Bbls./A.Ft.

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



Estimated Top Sand 721.0 feet.

Set packer with bottom of cement at 721.0 feet.  
 Plug back to 734.0 feet.  
 Sand not shot.

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.	
	Bartlesville	721.0	724.1	3.1**	15.5	32.	26.	385.	1,190.	9.1						

\*\*Includes 2.0 feet of sand drilled.

COMPANY SCHERMERHORN OIL CORPORATION  
 LEASE NORTH UNIT WELL NO. W-20  
 LOCATION 880'S. of N.L., 1210'E. of W.L. NE/4  
 SEC 4 T 21S R 21E COUNTY Anderson  
 STATE Kansas DATE 2-20-53  
 EARLOUGHER ENGINEERING TULSA, OKLAHOMA

EARLOUGHER ENGINEERING

PETROLEUM CONSULTANTS - CORE ANALYSES

3316 EAST 21ST STREET

TULSA, OKLAHOMA

February 20, 1953

Schermerhorn Oil Corporation  
714 First National Building  
Tulsa, Oklahoma

Attention - Mr. H. A. Sherman

Re - Core Analysis  
North Unit Well No. W-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 1

Encl 1

cc - Garnett Office

EARLOUGHER ENGINEERING  
CORE SUMMARY

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

Location 880 feet South of North Line, 1210 feet East of West Line, NE/4

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

Formation Cored Bartlesville Type Core No. 6 Baker

Date Cored 2-10-53 Date Shot \_\_\_\_\_ Coring Fluid Water

Depths: Elevation, ground	985.0 feet
Estimated top of sand drilled	721.0 "
Started coring, dense oil sand	723.0 "
Bottom of oil sand	724.1 "
Net feet of oil sand, including 2.0 feet drilled	3.1 "
Bottom of core, shale	745.2 "
Total feet cored	22.2 "
Feet analyzed	1.1 "

Shot Record:

Set Packer \_\_\_\_\_ Feet

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

Set packer with bottom of cement at 721.0 feet.  
Plug back to 734.0 feet.  
Sand not shot.

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 723.0 to 745.2 feet and core sampled by Earlougher Engineering. Coring was commenced in dense oil sand the top of which was drilled at 721.0 feet. The section from 724.1 to 734.0 feet is sandy shale.

The 1.1 net feet of sand cored has a low average porosity of 15.5 per cent and low average permeability of 9.1 millidarcys. The average oil saturation is 32

(Continued following page)

per cent and average core water saturation 26 per cent. It is doubtful that appreciable oil recovery should be expected by water flooding from the area of which this core is representative.

Inasmuch as core from your input well W-21 one location to the west showed 16 feet of good oil sand it was recommended that this present core well be completed for water injection.

JMR 1

**EARLOUGHER ENGINEERING**  
RESULTS OF CORE ANALYSES

COMPANY Schermerhorn Oil Corporation WELL North Unit No. W-20

Sample No.	Depth Feet	Perm. Md.	Porosity Per Cent	Per Cent Saturation			Avg. Oil Content Bbl./A. Ft.	Remarks
				Oil	Water	Total		
1	723.1	9.1	14.9	32.	24.	56.	360.	
2	724.0	9.0	16.1	33.	27.	60.	410.	

**SUMMARY**

Depth, Feet		Feet of Sand	Average Permeability	Average Porosity	Avg. Oil Sat.	Avg. Water Sat.	Avg. Oil Content Bbl./A. Ft.
From	To						
<u>BARTLESVILLE</u>							
721.0	724.1	3.1**	9.1	15.5	32.	26.	385.

\*\* Includes 2.0 feet of sand drilled.

Q

NORTH UNIT W-20

