

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Jackson Brothers Lease Hendrickson Well No. 7

Location NE SE NE

Section 12 17 Twp. 25S Rge. 9E County Greenwood State Kansas

Name of Sand KGS/022 Bartlesville

Top of Core - - - - - 2374.0

Bottom of Core - - - - - 2491.0

Top of Sand - - - - - 2374.9

Bottom of Sand - - - - - 2480.8

Total Feet of Permeable Sand - - - - - 5.9

Total Feet of Floodable Sand - - - - - 5.9

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 25

2.9

2.9

25 & above

3.0

5.9

Average Permeability Millidarcys - - - - - 23.6

Average Percent Porosity - - - - - 16.3

Average Percent Oil Saturation - - - - - 26.5

Average Percent Water Saturation - - - - - 51.3

Average Oil Content, Bbls./A. Ft. - - - - - 323.

Total Oil Content, Bbls./Acre - - - - - 1,903.

Average Percent Oil Recovery by Laboratory Flooding Tests - - - - - 4.5

Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft. - - - - - 63.

Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre - - - - - 254.

Total Calculated Oil Recovery, Bbls./Acre - - - - - 1,487.

Packer Setting, Feet - - - - -

Viscosity, Centipoises @ - - - - -

A. P. I. Gravity, degrees @ 60 °F - - - - -

Elevation, Feet - - - - -

OILFIELD RESEARCH LABORATORIES

LOGCompany Jackson Brothers Lease Hendrickson Well No. 7

Depth Interval, <u>Feet</u>	Description
--------------------------------	-------------

2374.0 - 2374.9	- Dark gray shale.
-----------------	--------------------

2374.9 - 2480.8	- Light brown slightly shaly sandstone.
-----------------	---

2480.8 - 2491.0	- Dark shale.
-----------------	---------------

Oilfield Research Laboratories
SUMMARY OF LABORATORY FLOODING TESTS

TABLE V

Company Jackson Brothers Lease Hendrickson Well No. 7

Depth Interval, Feet	2374.9 - 2380.8
Feet of Core Analyzed	4.0
Average Percent Porosity	17.4
Average Percent Original Oil Saturation	27.0
Average Percent Oil Recovery	4.5
Average Percent Residual Oil Saturation	22.5
Average Percent Residual Water Saturation	68.0
Average Percent Total Residual Fluid Saturation	90.5
Average Original Oil Content, Bbls./A. Ft.	363.
Average Oil Recovery, Bbls./A. Ft.	63.
Average Residual Oil Content, Bbls./A. Ft.	300.
Total Original Oil Content, Bbls./Acre	1,455.
Total Oil Recovery, Bbls./Acre	254.
Total Residual Oil Content, Bbls./Acre	1,201.
Average Effective Permeability, Millidarcys	0.79
Average Initial Fluid Production Pressure, p.s.i.	21.2

NOTE: Only those samples which recovered oil were used in calculating the above averages.

Oilfield Research Laboratories
RESULTS OF WATER DIFFERENTIATION TESTS
TABLE VI

Company Jackson Brothers Lease Hendrickson Well No. 7

Sample No.	Depth, Feet	Chloride Content of Brine in Sand ppm	Percent Water Saturation	
			Connate	Drilling & Foreign
1	2375.2	72,800		
2	2376.2	77,600		
3	2377.2	53,100		
4	2378.2	17,650		
5	2379.2	15,260		
6	2380.2	55,625		
Note: Overall average chloride content = 47,976 ppm				

Note: ppm — parts per million

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Jackson Brothers Lease Hendrickson Well No. 7

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	2375.2	18.4	16	55	71	228	9.9?	0.8	0.8	182	7.92
2	2376.2	19.3	25	51	76	374	24.	1.0	1.8	374	24.00
3	2377.2	19.6	22	63	85	335	30.	1.0	2.8	335	30.00
4	2378.2	14.9	34	46	80	393	27.	1.0	3.8	393	27.00
5	2379.2	16.1	27	59	76	337	27.	1.0	4.8	337	27.00
6	2380.2	10.3	32	45	77	256	21.	1.1	5.9	282	23.10

RESULTS OF LABORATORY FLOODING TESTS

TABLE IV

Lease Hendrickson

Well No. 7

Jackson Brothers

Sample No.	Depth, Feet	Effective Porosity Percent	Original Oil Saturation		Oil Recovery		Residual Saturation			Volume of Water Recovered cc*	Effective Permeability Millidarcys**	Initial Fluid Production Pressure Lbs./Sq./In.
			%	Bbls./A. Ft.	%	Bbls./A. Ft.	% Oil	% Water	Bbls./A. Ft.			
1	2375.2	18.0	14	196	0	0	14	87	196	7	0.20	40
2	2376.2	19.1	25	385	5	89	20	71	296	27	0.50	30
3	2377.2	19.3	22	329	3	45	19	78	284	47	0.90	20
4	2378.2	15.3	34	404	8	95	26	58	309	38	0.67	20
5	2379.2	16.1	27	337	2	25	25	65	312	87	1.08	15
6	2380.2	9.7	29	218	0	0	29	64	218	17	0.40	30

Notes: cc—cubic centimeter.

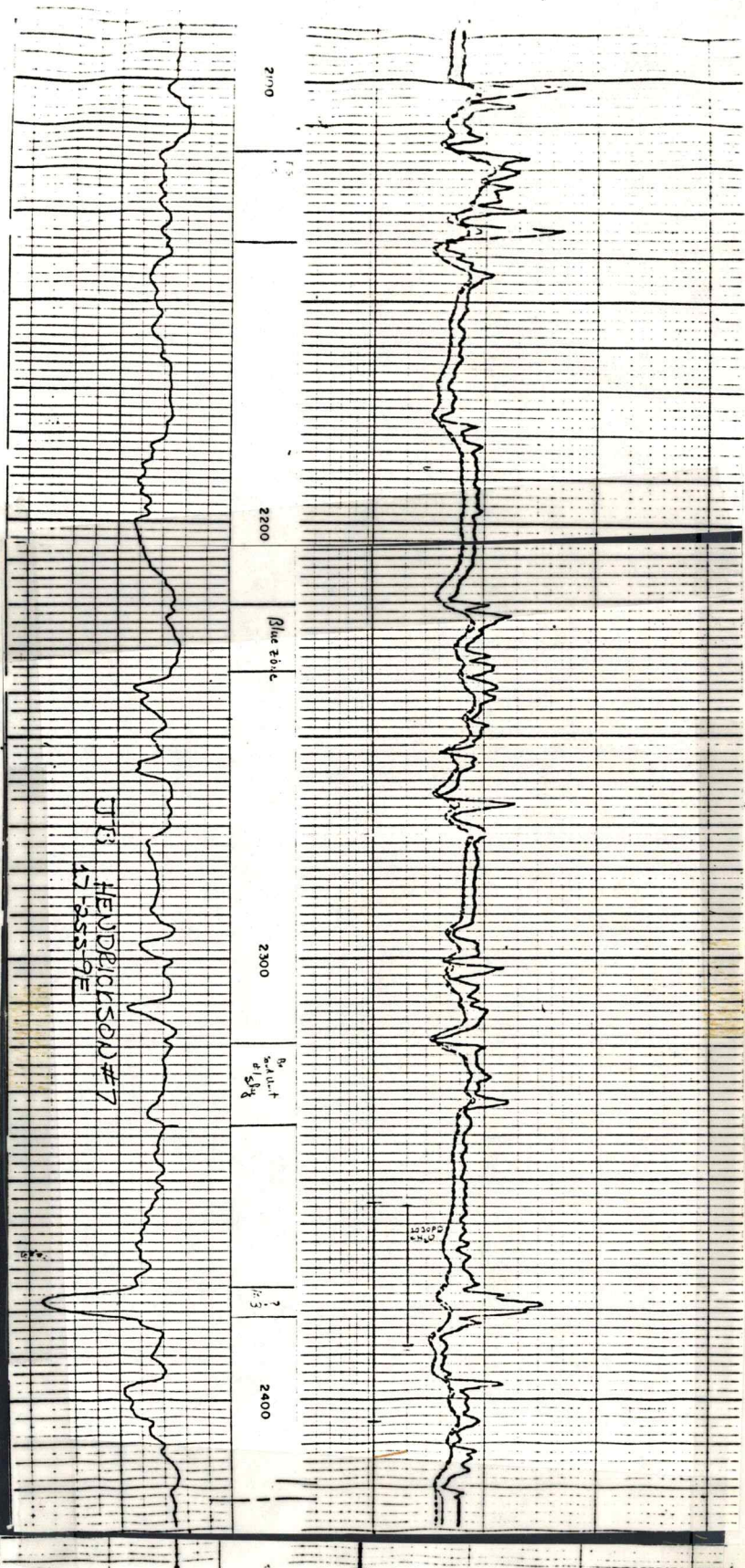
*—Volume of water recovered at the time of maximum oil recovery.

**—Determined by passing water through sample which still contains residual oil.

Schlumberger

DUAL INDUCTION LATEROLOG

COUNTY GREENWOOD FIELD or LADD LOCATION SEC 17-25S-9E WELL HENDRICKSON NO. 7 COMPANY JACKSON BROTHERS	COMPANY JACKSON BROTHERS	
	WELL HENDRICKSON NO. 7	
	FIELD LADD	
	COUNTY GREENWOOD	STATE KANSAS
LOCATION NE SE NE		Other Services: FDC-GR
Sec. 17 Twp. 25S Rge. 9E		
Permanent Datum: GROUND LEVEL, Elev. 1318		Elev.: K.B. 1324
Log Measured From K.B. 6 Ft. Above Perm. Datum		D.F. --
Drilling Measured From K.B.		G.I. 1318
Date	12/14/71	
Run No.	ONE	
Depth—Driller	2428	
Depth—Logger	2429	
Btm. Log Interval	2423	
Top Log Interval	290	
Casing—Driller	-- @ --	@ @ @
Casing—Logger	----	
Bit Size	6 3/4	
Type Fluid in Hole	FRESH MUD	
Dens.	Visc.	10.3 40
pH	Fluid Loss	-- -- ml ml ml ml
Source of Sample	MUD PIT	
R _m @ Meas. Temp.	2.22 @ 64 °F	@ °F @ °F @ °F
R _{mf} @ Meas. Temp.	1.33 @ 66 °F	@ °F @ °F @ °F
R _{mc} @ Meas. Temp.	-- @ -- °F	@ °F @ °F @ °F
Source: R _{mf} R _{mc}	M --	
R _m @ BHT	1.51 @ 96 °F	@ °F @ °F @ °F
Time Since Circ.	3 HOURS	
Max. Rec. Temp.	96 °F	°F °F °F
Equip. Location	3018 WICHITA	
Recorded By	HUNT	
Witnessed By	GRORGE JACKSON	



UTS HENDRICKSON #7
47-855-9E

