

H. DEANE JIRRELS
Petroleum Geologist
1015 CENTRAL BUILDING
WICHITA, KANSAS

RESIDENCE TE 8-6968

OFFICE AM 5-5086

PACK OIL CO., INC.

No. 1 MICKLEY-WATTS UNIT

SW SW SE, SECTION 14-33S-2W

SUMNER COUNTY, KANSAS

By

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WICHITA, KANSAS

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February 20, 1963

Pack Oil Co., Inc.
P. O. Box 1198
Wichita, Kansas

PACK OIL CO.
#1 Mickley-Watts Unit
SW SW SE, Sec. 14-33S-2W
Sumner County, Kansas

Dear Mr. Pack:

The captioned test was drilled to a rotary total depth of 4291 $\frac{1}{2}$, four and one-half feet into the Simpson and abandoned after finding all horizons barren of commercial quantities of oil.

The subject test was under the writer's geological supervision through the Kansas City, lower Mississippian and Simpson. Mr. Robert Brooks was present during the drilling of the upper Mississippian. All samples have been examined from 2800 to rotary total depth. A copy of the writer's strip log with sample descriptions is enclosed.

Following is a comparison of subsurface markers (as determined from samples, drilling time and electric log correlation) with the Adair #1 Thomas, NE NE NE Section 22-33S-2W (a dry hole 1/2 mile west).

	#1 Mickley-Watts Unit Elev: 1216 K.B. <u>Schlumberger</u>	#1 Thomas Elev: 1206 K.B. <u>Sample</u>
Stalnaker	2870 -1654	-1669
Kansas City	3248 -2032	-2049
Base Kansas City	3520 -2304	-2312
Mississippian	3910 -2694	-2738
Kinderhook	4219 -3003	-3046
Simpson Sand	4286 -3070	-3110
Rotary Total Depth	4290 -3074	-3124

Zones of porosity and shows of oil were observed, encountered and tested as follows:

STALNAKER 2870 (-1654)

2870-2948	Fine hard dense silty micaceous gray sand, poor porosity, No show.
2948-2990	Fine to medium sub-angular micaceous slightly glauconitic gray sand, fair porosity. No show.

KANSAS CITY 3248 (-2032)

- 3295-3300 Fine dense gray white tan limestone, trace fine vugular porosity. No show.
- 3308-3336 Dense lithographic matrix semiclastic vugular cream limestone. No show.
- 3386-3393 Fossiliferous mealy tan limestone with sphaleritic chert. Some poor vugular porosity and very slight trace spotted stain and spotted fluorescence. No free oil. No odor. 98% barren- non-commercial.
- Zone calculates 6% porosity & 90% water saturation.

MISSISSIPPIAN 3910 (-2694)

- 3910-3918 Light gray to tan slightly mealy cherty dolomitic limestone. Very slight weathered slight trace spotted stain and fluorescence. No odor. No free oil.
- Zone calculates 9% porosity & 100% water saturation.
- 3918-3940 Dense gray slightly weathered cherty limy dolomite, very poor porosity, possible increase in scattered streak stain and light fluorescence. Very slight trace scattered pinpoint of free oil, very faint odor. Non-commercial.
- Zone calculates 6-1/2-7-1/2% porosity and 100% water saturation.
- 3940-3958 Gray tan dense limy dolomite, cherty slight trace stain as above and spotted fluorescence. No odor, no free oil. Non-commercial.
- 3990-4004 Leached mealy hard dolomitic gray chert and dense cherty dolomite. Scattered pinpoint porosity and scattered spotted fluorescence.
- | Zone calculates: | <u>Porosity</u> | <u>Water Saturation</u> |
|------------------|-----------------|-------------------------|
| 3990-91 | 13% | 63% |
| 3996-4000 | 12% | 70% |
| 4000-4004 | 10% | 100% |
- 4083-4108 Medium crystalline glauconitic slightly leached partly dolomitic tan limestone with streaks sucrose glauconitic porous dolomite, light spotted fluorescence in dolomitic streaks.

Mississippian (Cont.)

Zone calculates 11-15% porosity and 100% water saturation.

4108-4128 Leached cherty glauconitic tan limy dolomite, slight trace scattered fluorescence and odor. No free oil.

Zone calculates 13% porosity & 100% water saturation.

4150-4164 Fine to medium crystalline slightly mealy cherty tan dolomitic limestone, trace spotted fluorescence and trace gilsonite.

Zone calculates 8-11% porosity and 95% water saturation.

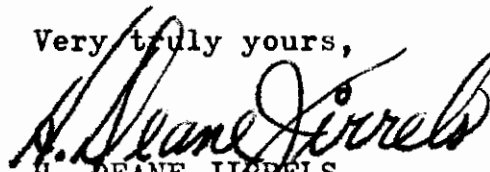
SIMPSON SAND 4287 (-3071)

4287-91½ RTD Fine to medium subangular partly dolomitic gray sand, no show, and medium subangular clear friable porous sand. No odor, very slight trace scattered pinpoints of free oil and pinpoints of fluorescence. 95% barren. Non-commercial.

DRILL STEM TEST #1, 4280½-91½, R.T.D., open 1-1/2 hours, weak blow increasing to strong blow. Recovered 157' muddy salt water. No show. I.B.H.P. 1395#/20 minutes. F.P. 31# to 100#. F.B.H.P. 1395#/30 minutes.

Due to the barren nature of all horizons, the subject test was abandoned on the morning of February 16, 1963, after receiving verbal permission from all interested parties.

Very truly yours,


H. DEANE JIRRELS
Petroleum Geologist

PACK OIL CO., INC.
 No. 1 Mickley-Watts Unit
 SW SW SE, Sec. 14-33S-2W
 Sumner County, Kansas

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TIME LOG

<u>DEPTH</u>	<u>ONE FOOT DRILLING TIME</u>	<u>REMARKS</u>
2800-2810	3-3-3-3-3-3-3-3-3	
2810-2820	3-4-3-3-3-2-2-2-3-3	
2820-2830	3-3-2-2-3-2-3-2-3-3	
2830-2840	3-3-3-3-3-3-3-2-2-2	
2840-2850	3-2-3-2-2-2-2-2-2-2	
2850-2860	3-2-3-2-2-2-3-2-3-2	
2860-2870	3-2-3-2-2-3-2-3-4-4	
2870-2880	4-3-3-4-3-3-3-3-2-3	
2880-2890	3-4-3-2-2-3-4-3-3-3	
2890-2900	4-3-3-3-3-3-4-4-4-3	
2900-2910	4-3-4-3-3-3-3-3-2-3	
2910-2920	3-2-3-3-3-3-3-2-3-2	
2920-2930	3-2-2-2-3-2-2-3-2-2	
2930-2940	2-3-2-2-2-2-2-3-2-2	
2940-2950	2-1-2-1-2-2-2-3-2-2	
2950-2960	2-2-1-2-1-2-1-1-1-1	
2960-2970	2-1-1-2-2-1-1-1-1-2	
2970-2980	1-1-1-2-1-2-3-2-3-2	
2980-2990	2-3-2-3-2-3-2-2-3-3	
2990-3000	4-5-6-5-4-5-5-5-5-4	
3000-3010	4-5-3-4-3-4-4-5-5-4	
3010-3020	5-5-4-5-4-4-4-5-4-4	
3020-3030	5-4-5-4-5-5-5-4-5-4	
3030-3040	5-6-5-6-4-5-6-5-5-4	
3040-3050	7-5-4-5-4-5-5-4-4-4	
3050-3060	4-5-5-4-5-4-4-4-5-5	
3060-3070	5-5-6-6-7-7-7-7-7-7	
3070-3080	7-7-6-6-7-6-7-6-6-5	
3080-3090	6-6-6-6-6-6-5-5-6-5	
3090-3100	5-4-5-5-6-7-5-3-3-4	
3100-3110	4-3-3-2-2-4-3-3-4-3	
3110-3120	4-4-3-4-4-4-3-4-3-3	
3120-3130	3-3-3-3-4-4-3-4-4-4	
3130-3140	3-2-3-4-3-3-3-4-3-4	
3140-3150	3-4-3-4-5-4-4-3-4-4	
3150-3160	4-4-4-5-4-4-4-4-4-5	
3160-3170	4-4-5-4-4-4-4-4-5-4	
3170-3180	4-5-4-4-4-4-4-5-3-4	
3180-3190	4-5-4-4-5-5-5-4-4-4	
3190-3200	5-5-4-4-5-4-5-4-5-4	

Trip @ 2925

Pack Oil Co., Inc.
No. 1 Mickley-Watts Unit (Cont.)

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<u>DEPTH</u>	<u>ONE FOOT DRILLING TIME</u>	<u>REMARKS</u>
3200-3210	5-4-5-4-4-5-5-5-4-5	
3210-3220	5-5-4-4-5-5-5-5-5-4	
3220-3230	4-5-4-5-4-4-4-4-3-4	
3230-3240	5-4-4-3-4-5-4-4-4-3	
3240-3250	4-3-3-3-3-3-3-4-4-4	
3250-3260	4-5-6-7-9-7-8-8-6-9	
3260-3270	13-9-5-5-6-9-9-10-10-12	Trip @ 3269
3270-3280	10-13-15-6-8-8-7-7-7-6	
3280-3290	6-5-5-6-6-6-5-6-6-6	
3290-3300	6-7-7-6-7-7-5-6-5-5	
3300-3310	4-6-7-6-7-5-6-7-3-2	
3310-3320	3-2-2-2-3-2-1-1-1-2	
3320-3330	2-1-3-2-2-2-2-3-2-2	
3330-3340	2-3-3-2-3-2-4-4-5-6	
3340-3350	5-5-6-5-6-7-6-6-5-7	
3350-3360	8-7-8-7-9-9-10-8-9-7	
3360-3370	7-8-9-9-8-8-8-9-10-10	
3370-3380	10-11-10-9-10-9-12-10-10-10	
3380-3390	9-11-10-11-7-7-6-5-5-6	
3390-3400	6-4-4-6-12-9-12-12-14-13	
3400-3410	11-10-9-7-5-7-7-5-5-7	
3410-3420	7-7-7-7-5-5-6-7-7-6	
3420-3430	6-8-8-6-6-7-5-6-5-7	
3430-3440	7-6-8-10-12-11-13-13-12-13	
3440-3450	12-12-9-8-8-10-9-9-11-9	Trip @ 3442
3450-3460	12-8-8-8-5-6-4-5-4-4	
3460-3470	4-3-2-2-2-6-4-7-6-8	
3470-3480	7-5-5-5-5-3-5-4-5-5	
3480-3490	5-4-5-4-4-5-4-5-6-6	
3490-3500	7-9-10-7-8-8-8-8-8-8	
3500-3510	8-7-7-7-6-7-9-9-9-9	
3510-3520	9-9-7-8-9-8-7-6-6-5	
3520-3530	4-4-3-2-5-5-5-5-4-3	
3530-3540	4-5-5-2-4-4-4-4-4-4	
3540-3550	3-5-4-4-3-4-4-5-5-5	
3550-3560	5-4-2-4-4-4-4-4-4-4	
3560-3570	5-3-4-5-4-4-4-4-3-5	
3570-3580	6-6-10-7-10-10-9-9-8-10	
3580-3590	10-6-6-4-4-7-7-8-6-4	
3590-3600	4-9-11-7-7-5-6-5-5-5	
3600-3610	7-5-6-5-4-6-6-8-9-7	
3610-3620	8-7-7-5-6-6-8-6-7-7	
3620-3630	8-9-5-8-8-8-8-10-8-9	Trip @ 3623
3630-3640	7-6-7-6-7-6-8-7-8-7	
3640-3650	6-10-5-4-7-7-7-5-5-6	

<u>DEPTH</u>	<u>ONE FOOT DRILLING TIME</u>	<u>REMARKS</u>
3650-3660	6-4-4-7-5-5-4-2-4-5	
3660-3670	4-4-3-4-4-4-4-5-5-4	
3670-3680	5-9-8-8-6-6-6-6-6-6	
3680-3690	6-7-8-6-8-8-7-8-10-8	
3690-3700	7-7-8-6-3-2-3-5-5-5	
3700-3710	5-5-4-4-9-9-8-9-7-7	
3710-3720	6-5-6-6-6-5-3-3-5-5	
3720-3730	5-5-5-5-5-5-5-5-4-5	
3730-3740	4-3-4-4-4-4-5-4-5-5	
3740-3750	8-7-6-6-5-3-4-5-6-7	
3750-3760	7-9-8-7-7-8-8-9-8-7	
3760-3770	7-6-5-6-4-4-7-7-4-3	
3770-3780	3-4-3-3-4-4-4-4-4-4	
3780-3790	4-6-6-5-4-4-4-6-4-5	
3790-3800	4-4-5-4-3-4-6-4-5-5	
3800-3810	5-4-5-3-4-4-4-2-2-2	
3810-3820	5-5-5-4-4-3-2-3-4-6	
3820-3830	5-7-5-5-4-5-4-4-4-4	
3830-3840	5-3-3-3-3-4-4-5-3-3	
3840-3850	4-5-6-4-4-4-3-5-5-6	
3850-3860	6-5-5-5-4-5-6-6-5-4	
3860-3870	4-3-4-4-4-5-6-5-5-5	
3870-3880	6-7-7-7-8-8-7-7-8-7	
3880-3890	8-8-7-7-8-7-7-8-5-7	
3890-3900	7-4-6-7-4-7-6-7-8-8	
3900-3910	7-7-6-6-7-6-7-6-6-7	
3910-3920	5-10-11-9-8-8-10-8-10-12	
3920-3930	12-12-10-11-12-10-12-12-14-12	
3930-3940	13-14-13-9-13-13-10-12-9-12	
3940-3950	11-13-11-11-13-11-12-11-12-11	
3950-3960	12-14-12-12-14-14-14-13-15-18	
3960-3970	18-20-18-16-19-21-18-21-21-20	Trip @ 3967
3970-3980	20-16-12-15-14-21-21-21-24-24	
3980-3990	24-19-16-19-11-16-16-12-14-13	
3990-4000	8-9-8-8-9-6-8-8-8-8	
4000-4010	9-9-11-11-12-12-15-15-15-14	
4010-4020	13-16-19-23-22-24-25-15-10-12	Trip @ 4018
4020-4030	11-10-12-10-11-10-9-8-10-10	
4030-4040	15-14-12-11-13-16-12-13-13-13	
4040-4050	15-14-13-16-15-15-14-16-15-18	
4050-4060	17-15-15-13-13-9-10-10-11-10	Trip @ 4055
4060-4070	12-12-11-8-12-13-13-14-12-11	
4070-4080	9-14-11-9-10-8-13-15-9-11	
4080-4090	14-12-12-10-7-10-9-9-9-8	
4090-4100	7-8-9-9-8-6-6-6-8-9	

Pack Oil Co., Inc.
No. 1 Mickley-Watts Unit (Cont.)

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<u>DEPTH</u>	<u>ONE FOOT DRILLING TIME</u>	<u>REMARKS</u>
4100-4110	6-9-9-8-8-8-9-9-7-6	
4110-4120	5-5-4-4-4-4-4-4-4-4	
4120-4130	4-4-5-4-5-5-6-6-10-12	
4130-4140	12-12-12-11-10-17-12-16-15-17	Trip @ 4131
4140-4150	18-18-14-14-19-21-28-18-19-18	
4150-4160	16-15-15-13-12-12-10-10-11-10	
4160-4170	10-11-10-12-13-14-15-15-16-18	
4170-4180	15-17-18-19-20-21-13-10-9-10	Trip @ 4177
4180-4190	8-7-11-11-11-11-8-9-8-8	
4190-4200	10-8-8-11-11-11-10-8-9-9	
4200-4210	9-9-9-8-12-16-20-24-22-24	
4210-4220	23-18-18-17-14-12-15-15-16-11	Trip @ 4213
4220-4230	7-8-7-7-8-7-8-6-8-6	
4230-4240	7-7-8-8-10-10-8-8-10-7	
4240-4250	9-7-8-7-8-7-8-8-7-6	
4250-4260	8-7-7-7-8-8-8-7-5-6	
4260-4270	7-5-7-6-6-6-6-6-6-10	
4270-4280	9-9-7-6-12-14-11-6-8-11	
4280-4290	13-6-4-11-15-5-6-10-18-19	
4290-4291	70	