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October 30, 1956

White-Ellis & Pack No. 1 Orrell
NW NW NE Section 3-30S-1E
Sumner County, Kansas

GENERAL:

Contractor: White-Ellis, Rig # 5
Rotary: Surface to 3825' T.D.
Spudded: October 17, 1956
Completed: October 28, 1956

CASING

8-5/8" Cemented at 188' with 170 sacks.

GEOLOGICAL DATA

Samples saved, drilling-time recorded from 2000' to the total depth.

Elevation: 1232 derrick floor, 1235' rotary bushing; rotary bushing elevation and measurements used.

Formation Tops

Heebner Shale	2098'	- 863	Samples
Stalnaker Sand	2365'	-1130	"
Kansas City	2718'	-1483	"
Base Kansas City	2964'	-1729	"
Mississippi Chert	3300	-2065	"
Mississippi Lime	3323'	-2088	"
Kinderhook Shale	3659'	-2424	"
Simpson Sand	3725'	-2490	"
Arbuckle	3772'	-2537	"
Total Depth	3825'	-2590	53' Penetration

Note: Schlumberger total depth 3824. All formation tops appear to be approximately 2 feet higher than sample tops.

DRILL STEM TESTS

None

PAY SECTION

None

CORES

None

SURVEYS MADE

Schlumberger Electric Log - Microlog

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IMPORTANT ZONES

Stalnaker Zone

2365-92' Sand, white, fine to medium grained, sub-angular to sub-round, shaley in part, porous, no show.

2392-2498 Sand as above, becomming more shaley.

Kansas City

2739-60 White, gray porous oolicastic limestone, no oil show.

2785-2818 Mostly white fine crystalline oolicastic limestone, porous, no oil show.

2831-38 Buff, fine crystalline limestone, porous, no show.

Mississippi

3300-30 White opaque partly weathered chert, spongy in part, no oil staining, no free oil, no odor in wet sample.

3330-50 Mostly cream-white dolomitic limestone,cherty.

3350-70 Buff, fine sucrossic dolomite,cherty,porous no oil show.

3370-3659 Typical Mississippian, cherty limestone and dolomite, no oil shows through this interval

Simpson

3725-30 Trace white,fine, grained poorly sorted sand, slightly calcareous, shaley, no porosity, no oil staining.

3730-42 Mostly shale, gray, some green waxy.

3745-52 White, medium to coarse grained soft sand. No staining, no fluorescence.

3752-72 Shale, slightly sandy at base.

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Arbuckle

3772-76' Dolomite buff dense, fine to medium crystalline. Probable intercrystalline porosity.

3776-85 Dolomite buff, coarse, crystalline, good vugular porosity.

3785-94 Dolomite, buff, fine to medium crystalline. Poor porosity.

3794-3824 Dolomite, mostly coarse, crystalline, buff, good vugular porosity, no oil shows.

SUMMARY

There was geological supervision on this well from 2300' to the total depth. Samples were carefully examined through this interval without finding any oil staining or any formation worth drill stem testing. The Simpson sand section, the primary objective in this well, was poorly developed. The upper sand section, which produces in the pool to the south, was missing in this well.

The dip on the formations appear to be normal for the area. The Simpson, for instance, was from 50 to 60 feet higher than in the Bellman pool to the south and 60 feet lower than the Shawver-Armour dry hole 1½ miles northeast.

The well was abandoned at a penetration of 53 feet in the Arbuckle dolomite.

Robert C. Armstrong

Robert C. Armstrong, Geologist

Elevation 1235 Rotary Bushing

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NW NW NE Section 3-30S-1E
Summer County, Kansas

DRILLING-TIME

FROM	TO	
2000	2010	1-1-1-1-1-1-1-1-1-2
	2020	2-2-1-1-1-1-1-1-1-1
	2030	1-1-1-2-1-1-1-1-2-1
	2040	1-2-2-2-1-2-2-2-2-2
	2050	1-1-2-2-2-2-2-1-2-1
	2060	2-2-2-2-1-2-1-1-2-2
	2070	2-2-2-1-2-2-1-2-2-2
	2080	2-1-1-2-2-1-1-1-2-2
	2090	2-1-2-1-2-1-2-1-2-1
	2100	2-2-1-2-2-1-1-1-½-½
2100	2110	½-½-2-1-½-1-1-1-½-½
	2120	½-1-½-1-1-1-½-1-1½-1
	2130	1-1-1-1-1-1-2-2-2-2
	2140	2-1½-1½-1-1-1-2-1-1-1
	2150	1½-1-1-½-1-1-1-1-½-½
	2160	1-1-1-1-1-1-1-1-1-½
	2170	½-1-1-1-1-1-1-1-1-1
	2180	2-2-1½-1½-1½-1½-1½-1½-1-1
	2190	1-1-1-1-1-1-1-1-½-½
	2200	½-½-2-1-1-1-1-1-1-1
2200	2210	1-1-2-1-1-1-1-2-1-2
	2220	1-1-1-2-1-1-1-2-1-1
	2230	1-1-1-1-1-1-½-½-1-1-1
	2240	1-½-½-½-½-1-1-1-1-1
	2250	1-1-1-2-1-½-1½-1½-1-½-1
	2260	1-1-1-1-1-1-½-½-1-1-1
	2270	1-1-1-1-1-1-1-1-½-½-1
	2280	1-1-1-1-1-1-1-1-1-1-1
	2290	1-1-1-1-1-1-1-2-1-1
	2300	1-1-1-1-2-1-1-1-1-1
2300	2310	1-1-1-1-1-1-1-1-1-½
	2320	½-½-½-1-1-1-½-½-1-1
	2330	1-½-½-1-1-1-1-1-1-1
	2340	1-1-1-1-1-1-1-1-1-1
	2350	1-1-1-1-1-1-1-1-1-1
	2360	1-1-1-1-1-1-1-1-1-1
	2370	1-1-1-1-1-2-1-2-2-2
	2380	1-½-½-½-½-½-½-½-½-½
	2390	½-½-½-½-½-½-½-½-½-½
	2400	½-½-1-1-1-1-1-½-½-1

White-Ellis & Pack No. 1 Orrell
NW NW NE Section 3-30S-1E
Sumner County, Kansas

DRILLING-TIME

FROM	TO	
2400	2410	1-1-1-1-1-1-1-1-1-1
	2420	1-1-1-½-1-½-½-½-½-½
	2430	1-1-½-½-½-½-½-½-1-1
	2440	1-1-1-1-1-2-2-2-1-1
	2450	1-1-1-1-1-1-1-1-½-½
	2460	½-½-1-1-1-1-1-1-1-1
	2470	1-1-1-1-1-1-1-1-1-½
	2480	1-1-1-1-1-½-½-1-1-½
	2490	½-½-½-½-½-½-½-1-1-1
	2500	1-1-1-½-½-1-1-1-1-2
2500	2510	2-2-2-1-2-2-1-2-1-2
	2520	1-2-1-2-2-2-1-2-2-3
	2530	2-2-2-2-2-2-2-2-2-2
	2540	2-2-2-2-2-2-2-3-2-2
	2550	2-2-2-2-2-2-3-3-3-2
	2560	3-3-3-3-3-2-2-3-2-2
	2570	3-2-3-3-4-1-1-1-1-1
	2580	1-1-1-1-½-½-½-1-1-1
	2590	1-2-1-½-½-1-1-1-1-1
	2600	½-1½-1-1-1-1-1-1-1-½
2600	2610	½-½-½-½-½-1-1-1-1-1
	2620	½-½-1-1-½-½-1-1-1-½
	2630	½-1-1-½-½-1-1-1-1-1
	2640	1-1-½-½-1-1-½-½-1-½
	2650	½-1-1-1-½-½-1-1-1-1
	2660	½-½-1-1-1-1-1-1-1-1
	2670	1-½-1-1-½-1-1-1-½-½
	2680	1-½-½-1-½-½-1-1-1-1
	2690	1-1-1-½-½-1-½-½-1-1
	2700	1-1-½-½-½-½-1-½-½-1-1
2700	2710	1-1-1-1-1-1-½-½-1-1
	2720	1-1-1-1-1-1-1-1-2-2
	2730	2-2-2-1-1-2-1-2-2-2
	2740	2-2-2-2-1-2-2-2-1½-1½
	2750	1-1-1-1-1-1-1-1-2-1
	2760	2-2-2-1-1-2-2-1-1-1
	2770	2-2-2-1-2-3-4-3-3-2
	2780	2-2-3-4-3-3-2-1-3-2
	2790	2-3-2-2-2-1-1-2-2-1
	2800	1-1-1½-1½-1-1-1-1-1

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NW NW NE Section 3-30S-1E
Sumner County, Kansas

DRILLING-TIME

FROM	TO	
2800	2810	1-1-1½-2½-3-3-3-2-2-1
	2820	2-1-1-1-3-2-1-2-2-4
	2830	5-4-5-5-4-4-5-5-4-6
	2840	5-3-2-2-4-2-3-2-3-5
	2850	5-5-2-3-4-5-5-2-1-1
	2860	1-1-1-3-3-2-3-2-3-4
	2870	3-2-2-3-2-3-2-2-1-3
	2880	2-3-4-3-4-4-4-4-4-4
	2890	5-4-2-4-5-5-5-5-5-6
	2900	5-6-4-3-2-2-2-2-1-3
2900	2910	5-5-5-4-4-5-5-5-4-5
	2920	5-5-5-5-3-6-6-5-5-5
	2930	5-6-5-6-6-4-6-6-5-7
	2940	5-4-4-3-5-4-4-4-4-3
	2950	5-6-5-6-5-5-6-7-7-6
	2960	5-4-3-5-2-2-3-2-2-2
	2970	3-3-5-4-2-3-3-2-2-3
	2980	3-2-3-3-3-2-2-2-3-4
	2990	3-2-3-3-4-7-5-7-7-5
	3000	2-4-3-2-2-2-2-2-3-4
3000	3010	3-3-3-2-2-2-2-2-1-2
	3020	2-3-3-2-2-2-2-2-3-2
	3030	3-2-3-2-3-6-5-4-2-4
	3040	3-5-4-5-3-5-5-3-3-2
	3050	2-3-3-4-3-3-3-3-3-4
	3060	3-4-3-2-3-2-2-2-3-2
	3070	3-3-3-2-3-3-4-3-4-4
	3080	4-4-4-5-5-4-4-5-6-4
	3090	6-2-5-4-4-4-4-3-3-4
	3100	3-3-3-2-3-4-3-4-4-5
3100	3110	8-6-3-3-3-2-1-1-2-2
	3120	1-1-1-1-3-3-3-2-2-3
	3130	2-2-3-2-3-3-3-3-3-3
	3140	3-2-2-1-2-2-2-3-2-2
	3150	2-3-3-4-4-3-3-3-3-4
	3160	4-3-4-3-3-2-3-3-4-4
	3170	3-3-3-2-3-3-3-3-4-3
	3180	3-3-4-3-2-3-2-3-2-3
	3190	3-2-2-2-3-2-4-3-4-4
	3200	4-3-4-3-4-4-4-4-6-6

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Summer County, Kansas

DRILLING-TIME

FROM	TO	
3200-	3210	2-4-4-5-3-2-3-2-3-2
	3220	2-3-2-3-2-3-3-2-5-2
	3230	4-3-3-4-2-4-3-2-3-3
	3240	3-3-3-2-1-2-2-2-2-3
	3250	5-4-5-3-2-2-2-3-2-3
	3260	3-3-3-3-4-3-4-4-3-7
	3270	6-4-5-4-3-5-5-7-6-6
	3280	5-5-5-5-4-7-5-4-4-6
	3290	4-6-4-4-7-4-5-6-4-5
	3300	6-4-6-5-5-5-5-7-5-4
3300-	3310	2-1½-1½-1½-1-1-3-3-2-2
	3320	3-2-2-2-5-4-3-4-4-4
	3330	4-2-3-10-6-12-5-6-6-8
	3340	3-6-7-5-9-10-12-10-8-8
	3350	7-4-6-10-7-8-8-8-10-8
	3360	7-6-6-7-6-5-6-6-5-6
	3370	6-4-4-4-4-4-5-5-4-5
	3380	4-5-7-6-8-9-8-12-10-10
	3390	10-11-11-11-12-9-20-10-8-10
	3400	9-10-11-15-12-5-20-11-13-15
3400-	3410	9-9-12-10-14-10-8-11-9-11
	3420	13-10-12-13-11-12-12-12-13-12
	3430	12-12-11-13-11-12-12-12-11-11
	3440	12-13-14-11-12-12-13-13-12-14
	3450	13-15-12-11-12-10-11-11-10-10
	3460	13-12-11-10-13-6-5-6-6-5
	3470	7-7-6-8-6-8-9-8-8-7
	3480	8-8-8-7-7-7-11-10-8-9
	3490	11-12-12-12-11-11-13-9-12-11
	3500	10-12-12-13-10-13-15-14-15-15
3500-	3510	12-14-11-15-16-17-16-16-17-15
	3520	14-12-12-13-12-16-15-17-17-16
	3530	18-18-17-18-9-9-11-11-11-11
	3540	11-12-10-13-10-9-9-10-10-10
	3550	10-10-11-10-9-9-10-10-9-9
	3560	10-10-12-11-10-11-10-12-11-12
	3570	12-11-12-10-12-12-13-12-13-12
	3580	13-12-13-12-11-11-11-12-11-11
	3590	12-10-12-9-7-7-7-8-10-9
	3600	7-7-9-16-16-11-11-13-28-15

White-Ellis & Pack No. 1 Orrell
NW NW NE Section 3-30S-1E
Summer County, Kansas

DRILLING-TIME

FROM	TO	
3600	3610	7-9-9-13-11-8-13-8-14-20
	3620	16-10-12-13-15-15-15-15-11
	3630	12-15-12-13-14-10-9-10-18-12
	3640	11-10-10-11-9-10-10-7-13-12
	3650	14-9-14-8-8-13-11-12-19-20
	3660	18-17-19-20-10-8-9-8-9-6
	3670	6-5-6-6-6-5-7-8-6-6
	3680	6-7-5-5-5-6-6-5-6-7
	3690	7-7-8-7-6-5-6-6-6-7
	3700	10-7-8-7-8-8-7-10-5-5
3700	3710	4-6-5-5-6-6-6-6-6-5
	3720	5-5-6-5-7-5-6-6-5-5
	3730	6-5-4-4-4-3-3-4-3½-2½
	3740	6-6-7-5-7-5-7-4-2-10
	3750	6-6-7-8-9-5-6-10-9-8
	3760	7-6-18-9-13-10-13-5-4-9
	3770	6-6-9-10-11-4-3-4-4-6
	3780	7-6-14-10-8-8-6-5-4-4
	3790	4-4-5-5-5-9-8-7-7-8
	3800	7-6-8-7-3-4-5-8-5-7
3800	3810	6-6-10-6-7-10-7-10-10-9
	3820	11-6-6-9-6-9-11-8-8-11
	3825	9-11-9-8-7

TRIP	CIRC.
2222	3305
2565	3370
2830	3717
3102	3730
3325	3741
3387	3751
3456	3757
3524	3825
3595	
3654	
3758	