

ELLEGE & POWELL
PETROLEUM GEOLOGISTS
1201 UNION NATIONAL BANK BUILDING
WICHITA 2, KANSAS

September 22, 1952

Anschutz Drilling Company
Union National Bank Building
Wichita 2, Kansas

Subject: Anschutz Drilling Company, Inc.
No. 1 Sitts, SW SW SE
Sec. 4-20S-4W., McPherson
County, Kansas

Following is a report on your No. 1 Sitts, a wildcat test located in the S W SW SE of S section 4, T. 20 S., R. 4 W., McPherson County, Kansas. The test is approximately eight miles east of the Bornholdt pool which is producing from the Mississippian.

Elevation	1485 D.F.	1487 R.B.
Lansing-Kansas City	2593	-1106
Mississippian	3245	-1758
Kinderhook	3524	-2037
Maquoketa	3771	-2284
Viola	3780	-2294
Simpson Shale	3811	-2324
Simpson Sand	3816	-2329
Arbuckle	3885	-2398
Total depth	3905	

A Schlumberger electric log was run on this well and the following are the formation tops as picked from their record:

Mississippian	3235
Kinderhook	3531
Maquoketa	3772
Viola	3784
Simpson Shale	3814
Simpson Sand	3817
Arbuckle	3887
Total depth	3906

Samples were examined on the No. 1 Sitts from 2500 feet and drilling was watched from 3200 feet to total depth.

Porosity is developed in many zones through the Lansing-Kansas City section but sample examination shows no oil staining in any of the porous zones. The Marmaton, from approximately 3050 feet to about 3120 feet and the Cherokee from about 3120 to the top of the Mississippian carried no oil shows.

The Mississippian is a granular dolomitic lime in the upper part, grading into a cherty lime with depth. Abundant white chert is present from 3300 feet to 3500 feet, and no oil staining is present in the entire section.

The Kinderhook is very largely a shale section, with no shows of oil noted. No Misener sand is developed.

The Maquoketa in the No. 1 Sitts is a poorly developed shaley dolomite from 3771 to 3780, and carries no staining. The Viola, from 3780 to 3811, is a coarsely crystalline white lime and carries no staining.

The Simpson, from 3811 to 3885, has a well developed sand from 3816 to 3826 and from 3832 to 3835. Samples circulated in these zones carried no free oil and had no odor or staining. A trace of residual staining was noted. Additional sand zones from 3854 to 3857 and from 3771 to 3874, and from 3878 to 3885 had no oil staining.

The Arbuckle, penetrated 20 feet from 3885 to 3905, is a medium to coarsely crystalline dolomite with some fair porosity developed, and had no oil staining.

Structurally, the No. 1 Sitts is normal to slightly high as compared with dry holes in the general area. As compared with a test recently drilled by NCRA two and one-half miles north and three-quarters miles west in the NE NW SE of section 29, T. 19 S., R. 4 W., it is 31 feet higher on the Mississippian, four feet lower on the Viola, eight feet higher on the Simpson, and four feet higher on the Arbuckle. It is 66 feet higher on the Mississippian, 80 feet higher on the Viola, and 73 feet higher on the Simpson than a dry hole one-half mile south and one and one-half miles west in the SW/4 of Section 8. As compared with a dry hole two and one-half miles south and one and one-half miles east in the NW NW SW of section 23, the No. 1 Sitts is 12 feet lower on the Mississippian, 31 feet lower on the Viola, 27 feet lower on the Simpson, and 31 feet lower on the Arbuckle.

Since no shows of oil were present in the No. 1 Sitts in any formations, penetrated, it has been abandoned as a dry hole at a total depth of 3905 feet after penetrating the Arbuckle 20 feet.

A condensed copy of the drilling time record is attached to this report.

Yours very truly,

ELLEGE & POWELL

Emmett R. Elledge
by: Emmett R. Elledge

ELLEGE & POWELL

PETROLEUM GEOLOGISTS

1201 UNION NATIONAL BANK BUILDING

WICHITA 2, KANSAS

Anschutz Drilling Co., Inc. No. 1 Sitts, SW SW SE Sec. 4, T. 20 S., R. 4 W.,
McPherson County, Kansas. One foot intervals.

DEPTH		DRILLING TIME	REMARKS
From	To		
2490	2500	1-1-1-2-1-1-2-1-1-1	
2500	2510	1-2-2-2-3-3-3-3-4-3	
	2520	3-3-3-8-7-3-4-4-3-3	
	2530	4-4-3-4-3-4-3-4-3-4	
	2540	3-4-3-4-4-3-4-4-3-3	
	2550	4-3-3-5-2-5-7-6-5-5	
	2560	4-5-4-5-4-4-5-6-5-5	
	2570	5-6-7-8-8-7-6-5-6-7	
	2580	5-5-4-4-4-4-5-4-3-5	
	2590	4-4-3-5-4-4-4-5-4-4	
	2600	4-4-4-7-7-10-9-12-9-9	
2600	2610	10-10-10-9-9-8-7-7-7-9	
	2620	10-8-9-9-6-15-10-12-12-11	
	2630	10-11-12-12-13-8-6-7-9-7	
	2640	8-11-12-10-12-12-10-10-10-8	
	2650	5-3-3-4-4-4-9-9-7-13	
	2660	15-14-14-13-13-15-15-15-15-10	
	2670	10-10-8-7-18-6-6-8-8-7	Trip @ 2665
	2680	7-7-9-7-7-6-7-4-2-2	
	2690	3-4-4-6-5-3-6-5-5-4	
	2700	2-2-2-2-2-2-3-2-4-5	
2700	2710	4-3-2-5-4-1-1-1-2-1	
	2720	1-1-1-1-1-1-1-1-1-3	
	2730	2-2-2-2-4-3-1-2-3-3	
	2740	2-4-6-3-4-3-5-3-3-4	
	2750	4-6-6-6-6-7-7-7-7-7	
	2760	7-8-8-9-9-7-7-8-6-6	
	2770	14-9-10-9-9-7-5-5-6-5	
	2780	4-3-3-4-3-6-4-9-8-8	
	2790	8-8-8-8-6-7-6-6-7-9	
	2800	9-8-8-4-6-9-7-5-11-10	
2800	2810	9-9-10-10-11-10-9-8-11-11	
	2820	11-11-11-11-10-11-10-10-10-9	
	2830	10-10-10-10-11-11-10-10-10-8	
	2840	10-10-9-9-7-8-9-10-7-6	
	2850	5-5-6-5-7-6-7-9-8-8	
	2860	6-5-4-4-3-2-3-2-3-3	
	2870	3-3-3-4-2-3-5-6-6-6	
	2880	7-6-7-6-6-6-6-6-5-5	
	2890	5-4-6-5-8-9-9-9-9-8	
	2900	8-7-8-8-8-14-10-10-10-9	Trip @ 2896
2900	2910	10-10-10-10-7-8-9-10-8-10	
	2920	13-10-9-10-11-10-12-13-5-5	
	2930	8-3-7-9-8-7-8-6-6-12	
	2940	11-12-12-10-10-12-11-11-10-10	

From	To	
2940	2950	10-9-10-10-3-7-12-11-10-11
	2960	9-9-7-7-7-7-3-4-6-7
	2970	5-1-10-11-9-12-11-9-8-10
	2980	7-5-6-9-11-11-10-11-9-11
	2990	10-10-11-10-12-11-13-13-7-8
	3000	8-4-3-4-6-9-7-11-12-11
3000	3010	12-10-10-9-9-12-11-10-7-11
	3020	7-6-10-15-15-15-5-12-12-9
	3030	9-6-5-4-3-7-9-9-7-6
	3040	4-4-6-6-5-5-5-5-9-7
	3050	7-9-8-9-8-10-9-8-7-10
	3060	8-10-9-9-9-7-7-8-7-7
	3070	7-7-6-4-4-5-5-5-7-3
	3080	7-12-12-12-12-8-9-11-12-11
	3090	13-14-10-7-8-11-11-9-8-8
	3100	7-7-9-9-6-5-10-10-8-8
3100	3110	8-10-9-10-12-6-9-9-8-8
	3120	5-5-5-6-4-9-10-10-10-10
	3130	7-7-8-9-10-8-9-9-10-9
	3140	8-9-9-10-10-10-9-6-10-7
	3150	10-7-5-4-4-5-6-8-10-6
	3160	6-7-7-8-8-7-8-7-7-4
	3170	3-4-4-5-6-3-3-3-5-4
	3180	4-6-8-8-5-5-5-6-5-4
	3190	3-3-4-3-4-3-2-3-2-4
	3200	5-5-7-8-5-7-4-5-5-4
3200	3210	3-6-7-4-3-3-3-3-3-3
	3220	4-3-4-5-6-7-10-8-8-7
	3230	7-7-5-5-4-5-5-6-6-6
	3240	6-7-6-6-6-7-7-7-7-5
	3250	5-5-4-2-5-2-2-3-1-2
	3260	3-2-1-5-11-2-3-13-15-11
	3270	9-2-3-3-8-11-14-15-15-15
	3280	15-15-15-12-4-6-15-16-13-4
	3290	4-6-6-6-7-9-9-3-3-7
	3300	6-5-5-5-10-10-17-18-15-5
3300	3310	15-25-9-15-7-8-6-6-6-6
	3320	9-14-13-8-10-8-10-5-7-11
	3330	15-20-3-2-2-3-3-3-2-2
	3340	1-3-18-19-16-23-10-14-9-9
	3350	6-7-6-4-6-8-5-6-5-6
	3360	4-4-4-10-4-5-4-7-5-2
	3370	4-3-5-3-4-5-5-6-5-3
	3380	3-6-5-3-2-3-4-3-2-3
	3390	4-3-4-4-3-4-8-12-10-11
	3400	12-10-18-19-20-19-17-15-24-20
3400	3410	20-23-22-25-20-20-23-11-8-8
	3420	6-5-5-5-5-5-10-13-13-7
	3430	5-4-4-4-9-15-12-12-10-7
	3440	13-9-5-4-5-4-3-3-6-10

Trip @ 3016

Trip @ 3083

Trip @ 3258

Circ. @ 3267

Trip @ 3502

Circ. @ 3330

Trip @ 3392

From	To		
3440	3450	5-5-12-12-9-10-9-15-12-20	
	3460	15-15-8-14-17-17-18-16-19-21	
	3470	22-20-21-8-10-12-8-11-11-11	Trip @ 3463
	3480	11-11-11-13-16-15-13-13-18-12	
	3490	20-14-16-20-15-15-15-10-11-14	
	3500	16-17-15-14-15-14-15-15-14-15	
3500	3510	15-12-19-11-11-11-11-10-9-10	Trip @ 3503
	3520	7-11-10-9-7-10-10-10-9-9	
	3530	9-10-8-7-7-7-6-6-8-3	
	3540	3-4-5-6-5-6-6-6-6-6	
	3550	9-8-5-5-9-5-7-7-6-7	
	3560	9-8-7-8-8-8-9-8-8-8	
	3570	7-7-9-9-8-8-8-8-8-9	
	3580	10-10-11-10-10-9-8-9-7-8	
	3590	8-8-7-9-9-8-8-8-8-8	
	3600	8-9-9-9-8-8-8-9-8-9	
3600	3610	8-8-7-8-6-7-7-6-8-6	
	3620	6-7-6-8-6-6-7-7-6-8	
	3630	10-8-7-9-10-9-8-9-8-8	
	3640	9-6-11-10-8-12-16-5-5-5	Trip @ 3637
	3650	5-5-5-5-5-5-5-5-5-5	
	3660	5-5-5-5-6-4-5-5-5-5	
	3670	4-4-4-4-4-4-4-5-5-5	
	3680	5-5-5-5-5-5-5-5-5-5	
	3690	3-5-4-4-4-4-4-4-4-5	
	3700	4-4-4-4-4-3-4-5-5-5	
3700	3710	4-4-5-5-5-5-4-4-4-4	
	3720	4-5-4-5-4-4-4-4-4-4	
	3730	4-4-4-4-4-4-5-6-5-5	
	3740	5-4-5-5-5-5-6-5-5-6	
	3750	6-5-6-5-5-5-4-5-4-6	
	3760	5-4-3-3-4-6-6-5-5-5	Circ. @ 3760
	3770	4-5-6-5-5-5-5-5-5-5	
	3780	5-8-8-6-8-6-7-6-6-6	
	3790	7-7-6-7-7-5-7-7-7-10	
	3800	11-9-8-8-10-10-10-12-10-10	
3800	3810	10-9-9-9-7-9-10-10-11-11	
	3820	13-11-11-11-10-11-5-9-9-8	
	3830	7-5-5-6-6-5-8-12-16-16	Circ. @ 3830
	3840	15-10-5-5-7-10-13-13-13-9	
	3850	8-5-2-x-4-2-2-8-14-20	1 ft Kelly correction, Circ. @ 3847
	3860	27-21-20-11-9-20-10-24-43-42	Trip @ 3849
	3870	50-39-35-20-30-40-30-25-40-15	
	3880	14-9-9-7-14-12-11-4-7-8	
	3890	3-4-5-5-5-12-7-8-11-9	
	3900	11-9-14-15-13-13-16-24-23-14	
3900	3905	15-15-14-11-14	Circulated at 3905
Total Depth 3905			