4-19-13W

KANSAS WELL LOG BUREAU --- KANSAS GEOLOGICAL SOCIETY

508 EAST MURDOCK - WICHITA, KANSAS

COMPANY ED ADAIR

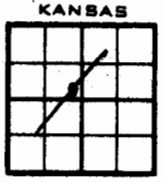
FARM Gordon Birzer NO. 1

SEC. 4 T. 19 R. 13W
LOC. SE SE NW

TOTAL DEPTH 3447
COMM. 12-21-50 COMP. 1-6-51
SHOT OR TREATED
CONTRACTOR
ISSUED 4-28-51

COUNTY Barton

KANSAS



CASING

8" 555' cem. w/275 sx

ELEVATION 1876 D.F.

PRODUCTION Dry

FIGURES INDICATE BOTTOM OF FORMATIONS

shale	30
sand	90
shale	280
sand	330
shale, shells	555
shale	780
anhydrite	795
shale	885
shale, sand	1335
shale	1545
lime	1720
lime, shale	1890
lime	1930
shale	1970
shale, shells	2000
lime	2117
shale, lime	2210
shale, lime	2742
shale, shells	2840
lime	3065
heebner shale	3069
lime	3122
shale	3155
lime	3394
conglomerate	3447
Total Depth	

Scout Tops:

Topeka	28
Heebner	3062
Brown Lime	3151
Lansing	3165
Chetty Congl.	3391
Arbuckle	3429

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SAMPLE LOG

E. H. Adair Oil Company: Gordon No. 1

SE SE NE Sec. 4, T. 19 S., R. 13 W., Barton County, Kansas.

Elevation: 1876' D.F. Total Depth with rotary 3[illegible]' D.F.

Comm. Drlg. Dec. 21, 1950 Comp. Drlg. with rotary, Jan. 6, 1951.

Casing: 8 5/8" - 555' cemented with 275 sacks.

Contractor: E. H. Adair Oil Company, Rig No. 2.

Drillers: A.M. James A. Shackelford
Day Harry Roberts
P.M. Doyle Stone

Note: Depths to formation tops and other zones mentioned in the following log have been corrected to the derrick floor which makes them three feet higher than driller's measurements, which were made from the top of the rotary drive-bushing which was three feet above derrick floor.

Derrick floor was two feet above ground level.

Abbreviations Used.

lime. = limestone orys. = crystalline tex. = textured

Depth	Description of Formation
2740 - 2750	Dark and gray shale.
2750 - 2760	Gray and light gray, fine orys. lime.
2760 - 2775	Dark and gray shale.

Checked Depth: 2772' drill-pipe =2771' S.L.M. (No correction).

2775 - 2809	Tan, dark gray and gray, fine orys. lime.
2809 - 2818	Very dark shale.
2818 (-942)	Top of Topeka limestone.
2818 - 2860	Light gray and gray, fine orys. lime., slightly cherty in lower part; contains few fusulinids.
2860 - 2870	Gray and dark shale.
2870 - 2915	Light gray and gray, slightly cherty lime., with some fusulinids in upper part.
2915 - 2928	White and light gray, fine orys. lime.
2928 - 2936	Gray and dark shale.

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2935 - 2955 Light gray and white fine cryst., slightly cherty lime.

2955 - 2965 Light gray, fine cryst. lime. with little dark shale.

2965 - 2970 Gray and dark shale.

Trip @ 2972'; set on 7 7/8" Rubber @ 2 @ 3 bit.

2970 - 2983 Light gray and white fine cryst. lime.

2983 - 2990 Tan and light gray, moderately soft, slightly porous oolitic lime. No oil.

Circulated 1 hour for samples @ 2991'

2990 - 3012 Light gray, fine cryst. slightly cherty lime.

3012 - 3020 Light gray, leached, porous, soft, oolitic lime. No oil.

Circulated 1 hour for samples @ 3018'

3020 - 3040 Light gray, fine cryst. lime.

3040 - 3062 Light gray and grey fine cryst. lime. with trace of chert.

3062 (-1186) Top of Heebner shale.

3062 - 3066 Black, carbonaceous, finely laminated, medium soft shale.

3066 - 3088 Light gray, fine cryptolime.

3088 - 3094 Red shale.

3094 - 3100 Light gray, fine cryst. lime.

3100 - 3110 Gray shale.

3110 - 3115 Light gray, fine cryst. lime.

3115 - 3151 Gray shale with trace of gray, fine cryst. lime.

3151 (-1275) Top of Brown Lime.

3151 - 3158 Brown, tan and dark gray, very fine cryst., hard lime.

3158 - 3161 Dark and grey shale.

3161 - 3165 Red, pale-green and gray shale.

3165 (-1289) Top of Lansing - Kansas City Limestone.

3165 - 3167 Light gray and grey, fine cryst. lime.

3167 - 3173 Light gray, fine cryst. lime. with some very lightspotted oil staining. porosity very low; not visible; fresh wet samples had no oil odor. (Non-commercial).

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3173 - 3190 Light gray, fine crys. lime.

3190 - 3195 Dark and gray shale.

3195 - 3211 Light gray and gray, fine crys. lime. with little gray and dark shale and few solid oolites and little chert near base.

3211 - 3213 Light gray, slightly porous, oolitic lime., with slight spotted oil stains. No oil odor. (Non-commercial).

3213 - 3236 Gray, partly mottled, fine crys. lime.

3236 - 3237 Light gray, fine crys. slightly porous, oolitic lime with spotted trace of oil stain. (Non-commercial).

3237 - 3255 Light grey, fine crys. lime.

Trip @ 3250'; put on 7 7/8" O P - B K bit.

3255 - 3267 Light gray, leached, partly porous and porous, moderately soft, oolitic lime. No oil odorer stain.

Circulated ½ hour for samples at 3262'

3267 - 2369 Light grey, fine crys. lime.

3269 - 3276 Light gray, partly porous, moderately soft, oolitic lime; - No oil odor or stain.

3276 - 3310 Light grey and grey, fine crys. lime, with few oolites in lower part.

3310 - 3329 Light grey and grey, fine crys. lime. with few solid oolites near base.

3329 - 3332 Light gray, partly porous, oolitic lime. with slight spotted, dark and dead oil stain. (Non-commercial).

3332 - 3354 Light grey, fine crys. lime.

3354 - 3359 Dark shale.

Circulated 1 hr. @ 3360' for samples.

3359 - 3391 Light gray, fine crys. lime. with little dark and gray shale.

3391 (-1515) Top of Cherty Conglomerate.

3391 - 3405 Red with little pale-green and grey shale with little red, (jasper) pink and gray chert.

Circulated 1 hr. for samples @ 3407'

3405 - 3419 Red, with little pale-green shale, with considerable red, pink, purple, yellow, gray and white variecolored chert.

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3419 - 3426 Red, with little pale-green shale and some light gray and white fine to medium tex. finely nodular lime. and detrital (?) lime.

3426 - 3429 Red shale (very sticky when wet.)

3429 (-1553) Top of Arbuckle dolomite.

3429 - 3435 Light gray and white fine with little low to medium crys. generally tight dolomite; - few fragments slightly porous dolomite with black petroleum residue.

3435 - 3444 Light gray and white fine, with little medium crys., slightly porous dolomite, with little dark, dead oil stain and black petroleum residue; more medium crys. dolomite near base. Some coarser crys., partly porous fragments of dolomite have white decomposition material between crystals, which suggests the presence of water.

3444 (-1568) Total Depth with rotary.

Note: Dry Hole; to plug and abandon.

Observations at well completed, 8 P.M., Saturday, January 6, 1951.

Delmer L. Powers
Petroleum Geologist

4-19-13W

DRILLING TIME RECORD

E. N. Adair Oil Company: **Gordon No. 1**

SE SE NE Sec. 4, T. 19 S., R. 13 W., Barton County, Kansas.

Elevation: 1875' D.F. Total depth with rotary 3447'

Comm. Drlg. Dec. 21, 1950 Comp. Drlg. with rotary, Jan. 6, 1951.

Casing: 8 5/8" - 555' cemented with 275 sacks.

Contractor: E. N. Adair Oil Company, Rig No. 2.

Drillers: A. M. James Shackelford
Day Harry Roberts
P.M. Doyle Stone

Note: Driller's measurements were made from the top of the rotary drive-bushing which was approximately one foot above rotary table and three feet above derrick floor.

Derrick floor was two feet above ground level.

Depth	Drilling Time per Foot in Minutes.	Remarks
		7 7/8" Hughes O.W.C. bit in hole; put on at
2750-60	3-4-6-5-4-5-4-4-5-3	
2760-70	3-4-3-4-4-4-5-5-4-5	
2770-80	5-4-4-5-5-4-4-3-4-7-5	Checked depth: 2774' drill-pipe = 2774' S.L.M. No corr.
2780-90	5-5-3-3-3-5-4-4-5-5	
2790-2800	5-5-5-5-6-5-5-5-6-5	
2800-10	4-6-5-4-5-5-5-4-4-4	
2810-20	5-7-3-5-4-5-5-5-5-3	
2820-30	3-7-4-6-5-5-3-11-9-5	
2830-40	6-5-3-4-4-3-3-3-5-3	
2840-50	5-6-6-5-5-6-6-7-6-5	
2850-60	5-5-5-3-4-4-3-4-3-2	
2860-70	3-3-5-6-6-5-5-4-5-4	
2870-80	5-5-5-5-4-5-5-5-5-4	
2880-90	4-5-7-8-7-7-7-7-7-5	
2890-2900	5-6-3-4-4-4-4-4-3-3-3	
2900-10	3-3-4-5-6-5-7-3-3-7	
2910-20	5-10-6-4-7-5-5-6-5-6	
2920-30	8-8-9-9-9-8-7-9-6-7	
2930-40	8-5-4-3-4-4-4-8-5-8	
2940-50	5-5-5-6-6-6-7-8-6-6	
2950-60	5-5-5-8-10-9-9-9-10-9	
2960-70	8-9-11-10-5-5-7-8-8-9	
2970-80	10-9-10-8-8-9-12-10-6-4	
2980-90	8-14-6-5-4-4-3-3-1-2	Trip @ 2982; put on 7 7/8" Hughes O.W.S. bit.
2990-3000	2-2-3-4-4-5-3-4-4-6	Circ. 1 hr. 9 min. @ 2995'

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E. E. Adair Oil Company: — Gordon No. 1

3000-10	7-6-5-4-4-7-8-8-8	
3010-20	8-8-9-7-6-3-1-1-2-1½	Rough @ 3019'
3020-30	3½-2-2-5-5-6-4-5-5-5	Circ. 1 hr. 11 min. @ 3021'
3030-40	8-5-5-7-6-6-6-7-7-8	
3040-50	7-7-8-7-7-6-6-7-7-5	
3050-60	6-7-6-6-6-6-5-5-5-6	
3060-70	6-7-7-7-7-6-6-6-7	
3070-80	6-4-3-3-3-3-2-3-5-4	
3080-90	4-4-4-5-4-5-5-5-7-7	
3090-3100	8-5-5-5-5-5-5-6-5-4	
3100-10	5-5-6-4-5-5-5-4-5-5	
3110-20	5-5-4-4-4-3-3-3-4-4	
3120-30	3-4-4-4-3-4-4-4-4-4	
3130-40	4-4-4-5-5-5-5-5-5-5	
3140-50	4-5-5-5-5-5-5-5-6-5	
3150-60	5-4-5-5-6-11-7-7-8-8	
3160-70	5-3-4-5-6-6-6-6-8-3	
3170-80	7-7-7-7-8-7-7-5-6	
3180-90	6-7-8-7-6-8-8-9-8	
3190-3200	8-7-8-6-5-6-6-8-9-10	
3200-10	7-10-10-10-18-7-8-5-5-8	
3210-20	10-7-5-8-4-3-5-10-7-8	
3220-30	7-9-8-5-8-10-9-12-10-6	
3230-40	8-7-10-9-6-6-7-6-6-5	
3240-50	6-8-8-8-9-10-12-10-12-10	Trip @ 3250; put on 7 7/8" O P - R W bit.
3250-60	5-3-4-4-4-4-3-3-3-3	
3260-70	2-2-2-3-2-3-3-2-2-2	Circ. for samples 35 min. @ 3265'
3270-80	4-4-3-3-3-3-3-2-2-5	
3280-90	5-5-6-6-6-5-5-6-6-6	
3290-3300	7-6-8-6-7-7-5-5-4-4	
3300-10	4-5-5-4-4-5-5-7-6-5	
3310-20	8-7-5-5-6-5-5-5-6-4	
3320-30	6-5-6-5-6-5-6-5-4-4	
3330-40	4-4-3-4-3-5-5-3-5-5	
3340-50	6-6-5-5-4-5-5-5-6-5	
3350-60	5-3-3-3-3-10-3-3-3-3	
3360-70	4-4-6-4-6-8-7-8-7-6	Circ. for samples 1 hr. 5 min. @ 3363'
3370-80	8-8-8-6-8-7-8-12-8-7	
3380-90	7-8-6-6-7-7-8-9-7-6	
3390-3400	10-8-9-6-8-9-10-9-10-9	
3400-10	9-10-12-8-8-8-7-8-5-6	Circ. 1 hr. 9 min. @ 3410'
3410-20	5-6-9-6-7-8-10-10-7-10	

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3430-30	10-12-9-11-9-10-11-10-9-11
3430-40	18-18-12-15-21-21-27-30-17-15
3440-47	14-13-15-21-20-12-16

Clrs. ½ hr. for samples 3440-47'

3447' Total Depth.

Drilling and circulating completed 8 P.M., Saturday, January 6, 1951.

Delmer L. Powers

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Petroleum Geologist.