

2-335-3W

GEOLOGICAL SAMPLE LOG AND DRILLING DATA

F. A. GILLESPIE & SONS CO., ET AL
NO. 1 WOODBRIDGE
SE/4 SE/4 SW/4 SEC. 2, 33 S, 3 W
SUMNER COUNTY, KANSAS

OWLL

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GENERAL INFORMATION

Dig Celler	July 4, 1949
Rigging Up	July 5, 1949
Spud	July 6, 1949
Set Surface Casing - 173 feet of 10-5/4 pipe	
Cemented with 130 sacks	July 7, 1949
Drill Out of Surface Casing	July 8, 1949
Derrick Floor Elevation	1193 feet
K B Elevation	1196 feet
Reached Total Depth 4605 feet	July 31, 1949
Schlumberger Total Depth 4606 feet	
Plugged	August 1, 1949
Contractor and Partner in Well	Summit Drilling Corporation, Atlas Life Bldg., Tulsa, Oklahoma

ELECTRIC LOG TOPS

Topeka Lime	2370
Oread Lime	2630
Lansing Lime	2983
Stalnaker Sand	2998 - 3085
Kansas City Lime	3314 - 3635
Oswego Lime Series	3660 - 3850
Cherokee Shale	3850
Mississippi Lime	4022 - 4370
Kinderhook-Chattanooga Shales	4370 - 4436
Simpson Formation	4436
Wilcox Sand	4436 - 4458 and 4461 - 4482
Tyner Shales and Sand	4482 - 4564
Arbuckle Lime	4564
TOTAL DEPTH	4606

SAMPLE LOG

10 Foot Samples Start at 1000 Feet

1000 - 1020	Greenish gray shale, lime and anhydrite
1020 - 1050	Earthy to crystalline light colored lime
1050 - 1090	Shale, some lime
1090 - 1100	Lime
1100 - 1120	Shale
1120 - 1140	White lime
1140 - 1260	Shale, lime streaks, traces of chert in 1170, 1220 and 1230 samples
1260 - 1280	Shale
1280 - 1290	Dense white to buff lime
1290 - 1300	Shale
1300 - 1320	Lime
1320 - 1340	Shale
1340 - 1350	Granular and crystalline lime, rare spotted oil stain fluoresces
1350 - 1370	Lime and shale
1370 - 1400	Dense white and light gray lime
1400 - 1450	Shale
1450 - 1460	Lime
1460 - 1470	Shale
1470 - 1480	Lime
1480 - 1520	Shale with some silty sand in 1510 and 1520 samples
1520 - 1560	Lime and shale
1560 - 1890	Shale with thin streaks of lime, traces of sand
1890 - 1900	Medium brown lime with gray fossils and mottling
1900 - 1910	Shale
1910 - 1930	Medium and dark brown mottled, fossiliferous crystalline lime
1930 - 1980	Shale and a little lime
1980 - 2020	Brown fossiliferous lime and mottled gray lime, a few fragments in 2010 fluoresce under ultra-violet
2020 - 2030	Lime and fine limy micaceous sand
2030 - 2050	Lime and fine limy micaceous sand
2050 - 2100	Shale with streaks of lime and fine sand
2100 - 2110	Earthy white to gray lime, trace of micaceous sand
2110 - 2120	Buff lime with trace of chert
2120 - 2150	Shale, some lime, trace of chert
2150 - 2160	White granular, earthy lime
2160 - 2180	Shale
2180 - 2200	Buff, granular lime
2200 - 2290	Shale with traces of lime and sand
2290 - 2320	Light gray and buff fine grained lime
2320 - 2370	Shale and lime
2370 - 2400	Dense, white, buff, light gray lime
2400 - 2470	Shale
2470 - 2480	Earthy, buff lime
2480 - 2500	Sticky shale
2500 - 2510	Shale and silty micaceous sand, some lime
2510 - 2530	Fine white micaceous sand, black flecks
2530 - 2660	Shale with a streak of brown crystalline lime at 2650

2660 - 2680 Shale with streak of brown fine grained lime
 2680 - 2690 Shale, streaks of lime
 2690 - 2720 Dense to fine grained light colored lime
 2720 - 2760 Shale
 2760 - 2790 White, light gray, some medium brown finely crystalline lime
 2790 - 2995 Shale with thin streaks of sand, siltstone and lime

5 Foot Samples 2900 Feet to Total Depth

2995 - 3000 Medium Brown lime, Lansing, top 2989, estimated from drilling time

Stalnaker Sand Top 2997, Drilling Time

3000 - 3015 Silty to fine sand, trace of dry asphalt
 3016 Circulated:
 20 Minutes, silty and fine sand
 40 minutes, fairly soft, slightly limy white sand; micaceous, some spots of dried asphalt
 3016 - 3030 Fine grained and some silty sand
 3031 Circulated
 20 Minutes, fine grained and a little silty sand and gray shale
 40 minutes, very fine sand
 60 minutes fine micaceous sand, some dry asphalt stain
 3031 - 3045 Very fine and fine sand
 3045 - 3088 Fine sand with some fine to medium grains
 3088 Base of Stalnaker Sand, drilling time
 3088 - 3320 Gray shale
 3320 - 3325 Gray and black carbonaceous shale

Top Kansas City Lime 3316 by drilling time

3329 Circulated
 20 minutes, light gray to white dense, and dark brown fossiliferous and crystalline lime, some carbonaceous shale
 40 minutes, tight granular buff lime
 60 minutes, light brown crystalline lime with some fractures; partly very soft
 3329 - 3440 White, buff and light brown lime; trace of chert 3375, amber translucent chert 3390-3405, and some chert 3420 - 3425
 3442 Circulated:
 20 minutes, dense finely crystalline brown lime
 40 minutes, medium brown oolitic lime open porosity
 60 minutes, oolitic lime
 3442 - 3450 Dense to granular light brown lime, some oolites
 3450 - 3495 White and light brown lime
 3495 - 3520 Siltstone, silty sand, and lime
 3520 - 3530 Dense, white and light gray lime
 3530 - 3535 Lime and granular carbonaceous shale
 3535 - 3860 Lime, some shale

Oswego Lime 3660 drilling time
 Cherokee Shale 3846, drilling time

3860 - 4025 Cherokee shale, thin streaks of lime

- 4022 Top Mississippi lime chat, 4022, drilling time
 4025 - 4029 White Translucent chert, rare fluorescence under ultra-violet
 4029 - 4160 Brown lime, some dolomitic lime, chert
 4160 - 4400 Mainly brown lime with chert, some matted lime and glauconite. Many of the samples poor due to lost circulation at 4185, 4250 and 4268. Top Kinderhook-Chattanooga shales 4380, drilling time
 4400 - 4440 Kinderhook-Chattanooga shales
 4440 Top of Simpson and Wilcox sand drilling time
 (Three feet of soft drilling 4437-4440 may have been sand)
 4440 - 4445 Fine angular, faceted sand, clean, trace of lime cement, breaks apart readily
 4445 - 4450 Same, with a few round grains, some clusters appear to show mud infiltration
 4450 - 4455 Same as above and some pyritic sand, some clusters with light oil stain and flakes of dry asphalt
 4455 - 4460 Fine sand, light oil stain which did not appear live, flakes of dry asphalt, slight odor and taste of oil. When clusters were dropped in CCl_4 , the liquid gave a good fluorescence under ultra-violet

4460 Circulated 2 Hours

Drill Stem Test 4442-4460, open 1 hour, very light blow of air at once, continuing 40 minutes; bottom hole pressure bomb failed. Recovered 15 feet of mud

- 4460 - 4480 Fine, snow white sand, some slightly pyritic
 4480 - 4485 Very fine white sand, mainly with included large grains and some shale or phosphatic material included, also pyrite
 4485 - 4500 Fine grained white sand
 4500 - 4510 Angular fine to medium grained sand with black inclusions
 4510 - 4515 Sand as above and green waxy pyritic shale
 4515 - 4519 Sand and green shale, pyrite and glauconite in the sand
 4519 - 4565 Sand and green shale, some brick red shale - sand mainly fine and very fine, varying in hardness

TOP ARBUCKLE 4564 drilling time

- 4565 - 4605 Total Depth Mainly fine grained light brown dolomite

DRILLING TIME LOG

5 Foot Time

1900 - 1950 15, 12, 14, 13, 17, 15, 15, 15, 14, 15
1950 - 2000 19, 16, 18, 17, 17, 16, 14, 17, 15, 17
2000 - 2050 17, 20, 4, 7, 10, 14, 17, 16, 17, 19
2050 - 2100 22, 17, 8, 3, 5, 4, 5, 4, 5, 8
2100 - 2150 26, 35, 34, 36, 32, 37, 24, 8, 5, 25
2150 - 2200 40, 35, 55 T, 15, 23, 27, 20, 15, 15, 15
T - Trip at 2165
2200 - 2250 10, 10, 15, 10, 15, 15, 15, 13, 12, 16
2250 - 2300 16, 17, 23, 21, 20, 18, 11, 11, 17, 24
2300 - 2350 19, 20, 19, 21, 23, 22, 20, 21, 20, 22
2350 - 2400 22, 26, 27, 28, 29, 33, 27, 28, 9, 11
2400 - 2450 13, 7, 11, 16, 15, 18, 16, 18, 19, 16
2450 - 2500 17, 16, 22, 32, 30, 25, 30, 30, 30, 25
2500 - 2550 19, 12, 11, 33, 25 T, 14, 15, 15, 15, 20
T - Trip at 2525
2550 - 2600 15, 15, 16, 14, 15, 15, 17, 19, 18, 19
2600 - 2650 20, 19, 20, 22, 21, 22, 21, 21, 23, 20
2650 - 2700 18, 24, 25, 19, 23, 31, 30, 33, 32, 33
2700 - 2750 19, 18, 18, 32, 30, 30, 30, 32, 48, 35
2750 - 2800 14, 21, 15, 10, 14, 31, 27, 32, 30, 32
2800 - 2850 28, 30, 30, 36, 30, 31, 32, 30, 29, 33
2850 - 2900 30, 29, 32, 36, 31, 30, 33, 27, 36 T, 10
T - Trip at 2895

1 Foot Time 2900 to 3095; shown as
5 Foot Time Except at Critical Intervals

2900 - 2950 36, 36, 38, 34, 41, 32, 34, 34, 39, 37
2950 - 2970 31, 33, 33, 31
2970 - 2980 6, 5, 6, 6, 6 (29) 7, 7, 6, 6, 7 (33)
2980 - 2990 5, 6, 8, 6, 7 (32) 7, 7, 8, 7, 9 (38)
2990 - 3000 9, 9, 6, 6, 6 (36) 7, 7, 5, 4, 5 (28)
3000 - 3010 5, 5, 4, 4, 5 (23) 2, 4, 4, 4, 5 (19)
3010 - 3020 4, 2, 2, 2, 2 (12) 2 C, 2, 3, 4, 3 (14)

C - Circulated at 3016 1 Hour

3020 - 3030 3, 4, 4, 5, 5 (21) 3, 4, 2, 2, 1 (12)
3030 - 3040 2 C, 1, 2, 2, 2 (9) 3, 2, 1, 1, 2 (9)

C - Circulated at 3031 1 Hour

3040 - 3050 2, 2, 1, 2, 2 (9) 2, 2, 2, 2, 2 (10)
3050 - 3060 1, 2, 2, 2, 1 (8) 1, 2, 2, 2, 2 (9)
3060 - 3070 2, 2, 2, 2, 2 (10) 2, 2, 2, 3, 2 (11)
3070 - 3080 1, 2, 3, 2, 2 (10) 1, 2, 2, 2, 2 (9)
3080 - 3090 2, 2, 2, 3, 2 (11) 3, 4, 3, 9, 9 (28)
3090 - 3095 9, 9, 9, 8, 8 (43)

5 Foot Time

3095 - 3150 47, 52 T, 30, 30, 27, 25, 31, 29, 26, 27, 26

T - Trip at 3105

3150 - 3200 26, 28, 28, 27, 30, 30, 30, 30, 29, 30

3200 - 3250 29, 28, 22, 37, 28, 32, 30, 30, 25, 35

3250 - 3280 31, 30, 28, 29, 28, 24

1 Foot Time 3280 to Total Depth shown as
5 Foot Time Except at Critical Intervals

3280 - 3290 5, 4, 5, 6, 6 (26) 6, 6, 5, 6, 6 (29)

3290 - 3300 5, 7, 7, 6, 7 (32) 7, 6, 6, 7, 6 (32)

3300 - 3310 6, 7, 7, 6, 6 (32) 6, 6, 6, 6, 6 (30)

3310 - 3320 5, 6, 6, 5, 3 (25) 4, 5, 7, 5, 7 (28)

3320 - 3330 7, 6, 7, 5, 3 (29) 3, 2, 2, 2 C, 2, (11)

C - Circulated at 3329 1 Hour

3330 - 3340 1, 3, 2, 3, 3 (12) 3, 4, 3, 3, 3 (16)

3340 - 3350 3, 4, 7, 7, 7 (28) 6, 5, 3, 3, 3 (20)

3350 - 3400 36, 40, 25, 20, 23, 22, 27, 41, 20, 40

3400 - 3430 32 T, 30, 25, 21, 66, 64

T - Trip at 3401

3430 - 3440 13, 13, 13, 13, 8 (50) 10, 1, 1, 1, 1 (14)

3440 - 3450 1, 6 C, 5, 4, 4 (20) 3, 3, 8, 10, 7 (31)

C - Circulated at 3442 1 Hour

3450 - 3500 35, 49, 50, 60, 44, 58, 63, 43, 48, 29

3500 - 3550 35, 74, 71, 53, 72 T, 42, 54, 40, 43, 55

T - Trip at 3525

3550 - 3600 45, 41, 46, 51, 45, 42, 40, 43, 43, 46

3600 - 3650 51, 53, 54, 42, 52, 55, 57, 54, 53, 45

3650 - 3700 43, 47, 57, 54, 50, 47, 47, 46, 50, 49

3700 - 3750 56, 55, 54, 60, 63, 66, 68 T, 46, 41, 32

T - Trip at 3732

3750 - 3800 44, 55, 53, 53, 51, 53, 36, 32, 48, 38

3800 - 3850 43, 31, 39, 42, 51, 46, 53, 47, 51, 34

3850 - 3900 38, 46, 43, 40, 39, 35, 49 T, 21, 32, 34

T - Trip at 3883

3900 - 3950 33, 27, 27, 27, 31, 33, 30, 31, 27, 33

3950 - 4000 37, 34, 36, 35, 26, 29, 31, 37, 38, 36

4000 - 4010 8, 7, 8, 9, 9 (41) 8, 8, 8, 7, 8 (39)
 4010 - 4020 7, 8, 12, 10, 9 (46) 7, 5, 6, 6, 7 (31)
 4020 - 4030 7, 9, 4, 4, 6 (30) 7, 8, 5, 15 T, 18 (53)

T - Trip 4029

4030 - 4040 20, 27, 23, 22, 22 (114) 26, 28, 22, 25, 27 (128)
 4040 - 4050 153 T, 66

T - 4045

4050 - 4100 74, 81, 88, 86, 98, 103, 117, 101 T, 73, 77

T - 4087

4100 - 4150 77, 79, 77, 83, 76, 82, 88 T, 69, 61, 82

T - 4135

4150 - 4200 100, 92, 83, 78, 81, 78 T, 57 L, 46, 45, 47

T - Trip 4178 L - Lost Returns 4185

4200 - 4250 37, 52, 63, 69, 75, 80, 81, 79, 80, 65 T L

T - Trip 4246 L - Lost Returns 4250

4250 - 4300 67, 59, 60, 64 L, 69, 81, 94, 76 T, 68, 69

L - Lost Returns 4268 T - Trip 4287

4300 - 4350 92, 95, 109, 70, 46, 85, 80 T, 41, 53, 66

T - Trip 4332

4350 - 4400 75, 88, 71, 71, 82, 77 T, 51, 54, 55, 53

T - Trip 4380

4400 - 4430 43, 37, 42, 55, 76, 82

4430 - 4440 18, 15, 14, 14, 13 (74) 11, 10, 8, 5, 5 T (39)

T - Trip 4440

4440 - 4450 19, 20, 16, 22, 18 (95) 18, 20, 17, 19, 14 (88)

4450 - 4460 15, 17, 18, 17, 15 (82) 10, 12, 20, 18, 34 C T (94)

C - Circulated 2 hours at 4460

T - Trip 4460 DST 4442-4460

4460 - 4470 21, 22, 25, 57 T, 23 (149) 43, 27, 61 T, 20, 18 (169)

T - Trips 4464 and 4468

4470 - 4480 20, 28, 30, 25, 17 (120) 10, 6, 7, 13, 9 (45)

4480 - 4490 20, 21, 22, 30, 23 (116) 24, 28, 27, 34 T, 13 (126)

T - Trip 4489

4490 - 4500 10, 10, 10, 12, 12 (54) 10, 10, 12, 10, 10 (52)
4500 - 4510 9, 11, 18, 23, 25 (86) 23, 17, 16, 17, 19 (92)
4510 - 4520 21, 18, 18, 14, 14 (85) 16, 18, 24, 21 T, 10 (89)

T - Trip 4519

4520 - 4530 8, 11, 11, 9, 20 (59) 19, 19, 11, 12, 15 (76)
4530 - 4540 24, 24, 22, 18, 25 (113) 24, 19, 15, 20, 22, (100)
4540 - 4550 23, 22, 19, 14, 13 (91) 15, 15, 23, 12, 8 (73)
4550 - 4560 8, 7, 6, 14 T, 9 (44) 8, 7, 8, 8, 8 (39)

T - Trip 4554

4560 - 4570 9, 9, 9, 9, 8 (44) 10, 9, 10, 12, 13 (54)
4570 - 4580 12, 14, 13, 12, 14 (65) 10, 10, 8, 7, 7, (42)
4580 - 4590 8, 10, 10, 10, 10 (48) 10, 12, 10, 10, 12 (54)
4590 - 4600 12, 15, 14, 11, 10 (62) 10, 11, 12, 12, 11 (56)
4600 - 4605 T D 10, 12, 7, 7, 8 (44)

BIT RECORD (9 INCH BITS)

Run	Make	Type	From	To	Footage	Hours
1	Hughes	OSC	0	875	875	15
2	"	OWS	875	1265	390	20
3	"	"	1265	1875	610	30
4	"	"	1875	2165	290	18
5	"	"	2165	2525	360	24
6	"	"	2525	2895	370	32
7	"	"	2895	3105	210	20 ¹ / ₂
8	"	"	3105	3401	296	30 ¹ / ₂
9	"	"	3401	3525	124	20 ¹ / ₂
10	CP	EM	3525	3732	207	34 ¹ / ₂
11	"	"	3732	3883	151	23 ¹ / ₂
12	"	"	3883	4029	146	18
13	Hughes	W 7 R	4029	4045	16	7
14	"	W 7	4045	4087	42	13 ¹ / ₂
15	"	"	4087	4135	48	13
16	"	"	4135	4178	43	12
17	"	"	4178	4246	68	14
18	"	"	4246	4287	41	12
19	"	W 7	4287	4332	45	12
20	"	"	4332	4380	48	12
21	C P	E M	4380	4440	60	11
22	Hughes	W 7 R	4440	4460	20	6
23	"	W 7	4460	4464	4	2
24	"	W 7 R	4464	4468	4	2 ¹ / ₂
25	"	W 7	4468	4489	21	10
26	"	W 7	4489	4519	30	8
27	"	"	4519	4554	35	10 ¹ / ₂
28	"	"	4554	4605	51	8 ¹ / ₂