2-31S-4W

Drilling log to W.L. Harlman Wichita 10/55 D

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July 3, 1951

GEOLOGIC REPORT
Francis Oil & Gas Co. #1 Haytor
NE NE NE Sec 2 T31S R4W
Sumner County, Kansas

Elevation: 1452 KB

Total Depth: 4665 in Arbuckle

Commenced: June 14, 1951
Completed: July 3, 1951

Casing Record: 8 5/8" @ 159' /125 sax

I. P.: D & A

COPY

SUMMARY OF FORMATIONS

Brown Lansing	3141 (-1689)
Stalnaker Sand (Lansing)	3144 (-1692)
Kansas City	3441 (-1989)
Mississippi	4081 (-2629)
Kinderhook	4444 (-2992)
Chattanooga	4503 (-3051)
Simpson	4526 (-3074)
Arbuckle	4640 (-3188)
Total Depth	4665 (-3213)

OWLL

Cores: None

Drill Stem Tests: 3549-61 Open 1 hour. Recovered 210' salt water. BHSIP 1370# in 15".

Electric Logs: None.

Summary of Oil Shows:

Topeka: None. Composed principally of porous to tight fossiliferous limestone.

Stalnaker Sand: None. Well developed porous sand, with no show. Thick sand beds interbedded with shale were noted from 3144 to 3357.

Kansas City: 3556-65 Limestone, grey to brown finely crystalline oolicastic. Good porosity. Fair odor. Show free black oil. Spotty stain. Drill Stem Test condemned this zone.

Mississippi: Only a trace of residual staining was found in the Mississippi. This trace of staining was found 30 feet below the top. This formation is non-commercial. It was composed principally of tight to porous cherty dolomitic limestones.

Simpson: The Simpson was composed predominatly of a glassy medium sandstone. There was no show; although the sand drilled hard, it contained fair to good porosity. Basal few feet of Simpson had spotty residual staining.

No odor, taste, or flourescence. Not worthy of testing.

Arbuckle: Characterized by granular cherty dolomite with only few thin streaks of porosity. No show. This formation was not commercial.

Recommendations:

It is recommended that this well be plugged and abandoned.

Permission was received from Atlantic Ref. Co., and Midstates on July 3, 1951 to plug this well.

Respectfully submitted,

Joseph Teichman

JT:dt

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NE NE NE Sec 2 T31S R4W
Sumner County, Kansas

Elevation: 1452 KB

Total Depth: 4665 in Arb.

DESCRIPTION OF WELL CUTTINGS

Depth	Description	Remarks
3130-40	Shale, grey to black micaceous. Traces fine crystalline limestone.	
50	Same.	
60	Same. Traces shaley micaceous fine sandstone. Fragments buff to tan granular limestone.	
70	Limestone, buff to tan granular fusulinid. Abundant grey micaceous shale.	
80	Limestone, buff to tan granular fossiliferous.	
90	Limestone, buff to tan granular. Interbedded dark grey to black shale.	
2190-2200	Same. Increase shale.	
2201-10	Shale, green to black. Streaks dark limestone.	
20	Same. Increase limestone.	
30	Limestone, buff to tan granular crinoidal. Trace tan opaque chert. Interbedded grey shale.	
40	Same.	
50	Shale, grey to black micaceous. Flakes granular limestone.	
60	Limestone, grey to buff to tan granular.	
70	Same.	
80	Interbedded shale and limestone.	
90	Limestone, buff to tan fossiliferous, granular.	
2290-2300	Same.	
2301-10	Same.	
20	Same. Minor black micaceous shale.	
30	Same.	
40	Same.	
50	Same.	
60	Same. Increase grey to black micaceous shale.	
70	Interbedded grey shale and buff granular limestone.	
80	Same.	
90	Same.	
2390-2400	Limestone, buff granular to tan fine crystalline.	
2400-10	Same.	
20	Same. Abundant grey to black micaceous shale.	
30	Same. Fusulinid noted.	
40	Limestone, buff granular to tan dense.	
50	Same. Interbedded grey to black shale.	
60	Same.	
70	Same. Trace grey shaley micaceous calcareous fine sandstone.	
80	Interbedded limestone and shale.	
90	Same. Streaks calcareous tight micaceous fine sandstone.	
2490-2500	Same.	
2500-10	Same. Increase sandstone and shale.	
20	Same.	
30	Limestone, white to buff granular, minor dark grey micaceous shale.	

DESCRIPTION OF WELL CUTTINGS

Depth	Description	Remarks
2531-40	Limestone, white granular chalky.	
50	Same. Interbedded grey shale.	
60	Same.	
70	Shale, grey micaceous. Streaks limestone.	
80	Limestone, white to buff granular.	
90	Same.	
2590-2600	Same.	
2601-10	Interbedded grey to black micaceous shale and granular limestone.	
20	Limestone, white granular chalky fossiliferous.	
30	Same. Streaks black shale.	
40	Same.	
50	Shale, grey to black micaceous. Streaks granular limestone.	
60	Interbedded fossiliferous limestone and grey to black shale.	
70	Limestone, white chalky to tan flakey.	
80	Same.	
90	Shale, grey to black. Streaks limestone and traces tight shaley fine sandstone.	
2690-2700	Same.	
2701-10	Same. Increase limestone.	
20	Same.	
30	Interbedded shale and limestone.	
40	Same.	
50	Same.	
60	Same.	
70	Limestone, white granular to medium crystalline, vugular, calcitic.	
80	Same.	
90	Same. Abundant grey to black micaceous shale.	
2790-2800	Interbedded shale and calcitic limestone.	
2801-10	Same.	
20	Same. Minor micaceous porous calcareous fine sandstone.	
30	Sandstone, grey calcareous micaceous porous to tight and interbedded dark grey micaceous shale.	
40	Same. Sand is fine to medium, subangular.	
50	Same, Increase shale.	
60	Shale, grey to black micaceous, streaks grey to brown dense limestone.	
70	Limestone, grey to brown dense. Interbedded grey to black shale.	
80	Limestone, grey to brown granular argillaceous leached. Trace dark grey opaque spicular chert.	
90	Same. Interbedded grey shale.	
2890-2900	Same. Traces grey quartzitic fine sandstone.	
2901-10	Interbedded brown limestone and grey shale. Traces quartzitic fine sandstone.	
20	Limestone, buff granular to grey to brown fine crystalline. Traces limey quartzitic fine sandstone.	

DESCRIPTION OF WELL CUTTINGS

Depth	Description	Remarks
2921-30	Limestone, buff granular to tan fine to medium crystalline fossiliferous to brown fine crystalline.	
40	Limestone, white to buff chalky.	
50	Same. To brown fine crystalline.	
60	Same. Minor grey shale.	
70	Shale, grey micaceous.	
80	Shale, grey micaceous. Abundant grey calcareous micaceous fine sandstone.	
90	Sand, grey calcareous, argillaceous. Traces stain, no odor. Poor to slight porosity.	
2990-3000	Same. Minor tan fine crystalline limestone.	
3001-10	Interbedded white crinoidal limestone and grey shale.	
20	Shale, grey micaceous streaks micaceous sandstone;	
30	Same.	
40	Shale, grey to black micaceous.	
50	Same. Streaks calcareous micaceous fine sandstone.	
60	Same.	
70	Shale, red to grey micaceous silty.	
80	Shale, grey micaceous. Traces light grey opaque fossiliferous chert.	
90	Same. No chert.	
3090-3100	Shale, red, brown, grey micaceous.	
3101-10	Shale, dark grey micaceous.	
20	Same.	
30	Same.	
40	Same.	
50	Same. Trace brown fine crystalline limestone.	
60	Limestone, brown fine crystalline.	Brown Lime 3141
70	Sand, grey, porous, glassy calcareous, sideritic, medium grained, subangluar. Trace stain.	Stalnaker Sand 3144
80	Same. Interbedded red and grey shale.	
90	Sand, grey porous glassy, interbedded grey shale.	
3190-3200	Sand, grey porous calcareous to limey.	
3201-10	Same, abundant grey micaceous shale.	
20	Interbedded shale and sideritic sandstone.	
30	Shale, green chunky, streaks sand.	
40	Sand, grey calcareous finely porous to tight. No show.	
50	Shale, grey to green. Streaks fine sandstone.	
60	Interbedded shale and sand.	
70	Sand, grey calcareous fine to medium.	
80	Same. Sand is sideritic.	
90	No sample	
3290-3300	Shale, grey micaceous.	
3301-10	Same. Streak tan crinoidal fusulinid limestone.	
20	Same.	
30	Same. Minor grey granular limestone.	
40	Much surface cave.	

DESCRIPTION OF WELL CUTTINGS

Depth	Description	Remarks
3341-50	Shale, dark grey micaceous.	
60	Same.	
70	Same.	
80	Same.	
90	Same.	
3390-3400	Shale, black chunky micaceous.	
3400-10	Same.	
20	Same. Trace dark grey fine crystalline limestone.	
30	Same.	
35	Minor grey to tan granular to fine crystalline limestone.	
40	Shale, grey to black, streak tan to brown granular limestone.	
45	Shale, grey micaceous.	
50	Limestone, grey granular argillaceous.	Top Kansas City 3441
55	Same.	
60	Same. Interbedded grey and black shale.	
65	Limestone, brown fine crystalline. Interbedded grey shale.	
3467 Circ 30"	Limestone, grey flakey to platy suboolitic to oolicastic. Trace stain. No odor.	Break 3462-66
45"	Same.	
80	Limestone, grey fine crystalline fossiliferous oolitic to oolicastic.	
90	Limestone, buff granular chalky. Minor grey opaque to translucent chert. Little finely oolicastic limestone.	Break 3472-80
3490-3500	Same.	
3501-10	Same.	
20	Limestone, grey to buff granular to fine crystalline. Minor oolicastic limestone.	
30	Limestone, buff granular to brown dense.	
40	Same.	
50	Limestone, buff to grey granular platey. Trace white chert. Small grey shale break.	
60	Limestone, buff to tan granular with grey mottling.	
3561 Circ	Limestone, grey to brown fine crystalline oolicastic. Good porosity. Spotty stain. Bleeding. Fair odor.	Break 3556-65 DST 3549-61 Op 1 hr, Rec 210' Salt water, BHCIP 1370# in 15".
70	Limestone, grey ~~to brown~~ fine crystalline, abundant grey and black shale.	
80	Limestone, grey fine crystalline to dense. Abundant grey to brown shale.	
90	Same. Much grey fine crystalline oolicastic.	
3590-3600	Limestone, grey to brown fine crystalline, partly oolicastic. Abundant black, green and red silty to splintery shale.	
3600-10	Limestone, grey granular to fine crystalline.	
20	Limestone, grey to brown dense.	
3626 Circ 30"	Same. Minor grey oolicastic with no show.	Break 3621

3556
1452
2104

DESCRIPTION OF WELL CUTTINGS

Depth	Description	Remarks
3623 Circ 1 hr	Limestone, grey to brown oolicastic with grey chert. No show.	
3623-40	Limestone, grey to brown oolicastic.	
50	Limestone, grey to brown granular. Abundant grey shale.	
60	Limestone, tan granular to brown fine crystalline.	
70	Limestone, dark brown fine crystalline.	
80	Same.	
90	Shale, grey to black micaceous.	
3691-3700	Limestone, brown dense argillaceous.	
3701-10	Shale, black micaceous calcareous.	
20	Same.	
30	Limestone, tan granular to fine crystalline.	
40	Same. Interbedded grey shale.	
50	Same. Increase shale.	
60	Shale, variegated, streaks brown dense limestone.	
70	Limestone, grey to tan fine crystalline.	Big Lime 3765
80	Same.	
90	Shale, grey to black micaceous.	
3791-3800	Same. Streaks brown fine crystalline limestone.	
3801-3810	Limestone, grey granular to brown fine crystalline. Minor grey shale.	
20	Shale, grey and green micaceous. Minor black fine crystalline limestone.	
30	Same. Much red and brown shale.	
40	Shale, grey to green, streaks limestone.	
50	Same. Limestone is black.	
60	Limestone, grey to tan granular, calcitic in part.	
70	Same. Interbedded black shale. Trace limey silt stone.	
80	Same. Traces micaceous very fine sandstone.	Cherokee 3864
90	Interbedded grey fine crystalline limestone and grey to black shale.	
3891-3900	Limestone, grey white chalky to brown fine crystalline.	
3901-10	Shale, brown sideritic to black micaceous.	
20	Limestone, buff granular to brown fine crystalline.	
30	Same.	
40	Same. Interbedded black shale.	
50	Shale, grey, green, black, thin.	
60	Same.	
70	Same, thin streak brown fine crystalline limestone.	
80	Same. Much red hematitic shale.	
90	Limestone, buff granular chalky.	
3991-4000	Shale, black to green micaceous.	
4001-10	Same. Trace shaley micaceous fine sandstone.	
20	Same.	
30	Shale, grey brown, green micaceous.	
40	Same. Streak brown dense limestone.	
50	Shale, green to black micaceous chunky.	
60	Shale, green, leached.	
70	Same. Minor red and brown micaceous.	

DESCRIPTION OF WELL CUTTINGS

Depth	Description	Remarks
4071-80	Same.	
85	Chert, blue to grey translucent. Minor silicious limestone.	Mississippi 4081
90	Same.	
4091-4100	Limestone, grey silicious cherty and minor grey chert.	
4101-10	Same.	
20	Limestone, buff to tan medium crystalline platey. Traces white to grey chert.	
30	Same. Trace stain, in dry samples. No odor or taste.	
40	Limestone, grey white to tan granular with grey mottling.	
50	Same.	
60	Same.	
4166 Circ	Limestone, grey white granular soft. Abundant light grey opaque leached chert.	
80	Same.	
90	Same. Increase grey to white opaque speckled chert.	
4191-4200	Chert, grey to white opaque speckled. Minor grey to tan sucrose dolomitic limestone.	
4201-10	Same. Increase dolomite.	
20	Same chert, with grey medium crystalline faintly glauconitic limestone.	
30	Same. Trace green dense limestone.	
4233 Circ	Limestone, white togrey chalky to grey medium crystalline partly dolomitic. Abundant grey opaque chert.	
40	Same.	
50	Limestone, grey white chalky. Much grey white opaque chert.	
60	Limestone, white leached cherty dolomitic.	
70	Same. Much green to brown waxy shale.	
80	Limestone, white granular chalky cherty dolomitic. Minor brown sucrose dolomite.	
90	Same. Much grey white opaque chert.	
4291-4300	Same.	
4301-10	Same.	
20	Limestone, grey white granular partly dolomitic. Abundant grey to white opaque chert.	
30	Same. Minor brown sucrose dolomite.	
40	Same.	
50	Chert, white and blue grey opaque. White leached limestone and brown sucrose dolomite.	
60	Same.	
70	Same.	
80	Same. Decrease chert.	
90	Limestone, white leached partly dolomitic. Much blue translucent chert.	
4391-4400	Same limestone. Much grey white opaque speckled chert.	
4401-10	Same.	
20	Same. Trace green fine crystalline limestone.	
4428 Circ	Limestone, white granular leached partly dolomitic.	
40	Same. Traces white speckled chert.	
50	Same. Traces brown to green dense limestone. Traces green waxy shale.	Kinderhook 4444

DESCRIPTION OF WELL CUTTINGS

Depth	Description	Remarks
4451-60	Junk, after trip.	
70	Shale, brown, red, waxy to silty micaceous.	
80	Shale, green to grey to brown to red micaceous. Traces grey argillaceous dolomite.	
90	Shale, grey, green, black micaceous to black blistery. Streaks argillaceous dolomite and micaceous shaley fine sandstone.	
4490-4500	Same.	
4501-10	Shale, black chunky micaceous to blistery.	
15	Same. Trace brown spore bearing shale.	Chattanooga 4503
20	Shale, grey to black micaceous to blistery. Few Sproangites huronensis, minor grey argillaceous dolomite.	
30	Shale, black, spore bearing.	
34	Same.	
4534 Circ 30"	Sand, hard grey dolomitic glassy medium, slightly green shaley, to grey to white glassy porous rounded medium. No show. Traces hard pyritic sandstone.	Simpson Sand 4526
Circ 1 hr.	Sand, glassy porous, phosphatic rounded medium to tan dolomitic phosphatic fine to medium subangular to subrounded. No show. Poor porosity.	Porosity 4529
40	Same. Grey shale splits.	
50	Sand, porous glassy calcareous fine to medium.	
60	Sand, glassy, hard white quartzitic.	
70	Same. Sand is very hard, but porous.	
80	Same.	
90	Junk, after trip.	
4591-4600	Grey shale. (cave?) Minor grey argillaceous calcareous fine sandstone with coarse round sand grains inclusions.	Oil Creek?
4601-10	Sand, grey calcareous shaley partly glauconitic, fine with inclusions coarse round sand grains. Abundant glauconitic porous clear quartz sand. Minor white chalky glauconitic limestone, slightly sandy.	
20	Sand, clear to green coarse glauconitic, grey micaceous shale.	
25	Sand, grey to white calcareous phosphatic, fine.	
30	Same.	
35	Sand, white calcareous subangular fine. Fair porosity. No show.	
40	Shale, dull green to soapy. Brown fossiliferous limestone.	Simpson Shale 4630
45	Sand, glassy porous. Green shale. Poor porosity.	Arbuckle 4640
50	Trace dolomite, tan granular to sucrose. Traces white to tan smooth partly oolitic translucent chert. Abundant glassy porous medium sandstone. Light residual spotty stain with no odor, taste, or fluorescence.	
55	Dolomite, tan to brown granular slightly sandy. Poor porosity, No show. Minor tan to brown oolitic chert. Traces porous	

DESCRIPTION OF WELL CUTTINGS

Depth	Description	Remarks
4655 Cont'd	fractured granular dolomite. No show.	
60	Same.	
65	Same.	4665 Total Depth

Respectfully submitted,

Joseph Teichman

JT:dt