

OXY USA, INC.
Chesney "A" No. 228
2520' FSL, 1660' FEL
Sec. 21-T25S-R5E
Butler Co., Kansas
El Dorado Field

API # 15-015-23350

Open Hole Completion

Contractor: J.W. Gibson Well Service
Elevations: K.B. 1378', Gr. 1373'
R.T.D. 2379'.
Arbuckle Top: 2359' -981
Production Casing: 5½" at 2378'.
Geologist: Herbert R. Johnson

WICK CORY
MAR 2 1994

Friday, September 17, 1993. Drilled shoe and cement. Started drilling at 8:30 AM.

2370-2380' 4min., 10 sec.

Top Dolomite, grayish brown, medium crystalline, slightly vugular, 15% poor to fair porosity with stain and fluorescence.

Mid Dolomite, grayish brown, medium crystalline, trace poor to fair porosity with S & F.

Bot Dolomite, AA, dense.

2380-2381' 3 min., 40 sec.

Top Dolomite, grayish brown, coarse crystalline, dense, 2% fair to good porosity with S & F, good odor.

Mid Dolomite, grayish brown, medium crystalline, trace poor to fair porosity with S & F.

Bot Dolomite, brownish gray, medium crystalline, dense.

2381-2382' 3 min., 5 sec.

Top Dolomite, grayish tan, fine to medium crystalline, dense, 5% poor porosity with S & F.

Mid Dolomite, AA; trace white chert and white to green shale.

Bot 30% Chert, white, brown.

70% Dolomite, brownish gray, fine crystalline, dense, trace poor to fair porosity with S & F.

2382-2383' 4 min., 10 sec.

Top Dolomite, AA, 5% Chert, AA.

Mid Dolomite, AA; trace poor to fair porosity with S & F.

Bot Dolomite, white, buff, fine crystalline, dense; trace poor porosity with S & F.; 5% Chert, white, brown.

2383-2384' 5 min., 5 sec.

Top Dolomite, AA, trace fair to good porosity with S & F.

Mid 80% Chert, white, gray, trace with good vugular porosity with S & F.; 20% Dolomite, AA.

Bot Dolomite, off white to grayish tan, fine crystalline, dense.

2384-2385' 3 min., 30 sec.

Top Dolomite, buff, medium crystalline, dense.

Mid 25% Chert, white, partly vugular with fair porosity, S & F.

75% Dolomite, buff, fine crystalline, dense; 10% poor porosity with S & F, 80% fluorescence..

Bot Dolomite, buff, grayish brown, fine crystalline, 20% poor porosity with S & F, 95% F (fluorescence).

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2385-2386' 1 min., 50 sec.

Top 50% Chert, white; 50% Dolomite, white, grayish brown, fine crystalline, 30% poor to fair porosity with S & F.

Mid 90% Dolomite, gray to brown, fine crystalline, 90% poor porosity, bleeding oil, well stained, 100% fluorescence.
10% Chert, AA.

Bot Dolomite, brown, fine crystalline, poor porosity, well stained, bleeding oil, 100% fluorescence, good odor.

2386-2387' 4 min., 10 sec.

Top Dolomite, AA; 10% Chert, white.

Mid 60% Chert, white; 40% Dolomite, AA.

Bot Dolomite, white, brown, fine crystalline, dense, 20% poor porosity, well stained, 100% fluorescence.

2387-2388' 3 min.

Top 10% Shale, light green.

90% Dolomite, off white to tan, 30% poor to fair porosity, well stained; 2% good porosity with S & F.

Mid Dolomite, light gray, fine crystalline, 40% poor to fair (mostly poor) porosity with S & F, 100% fluorescence.

Bot Dolomite, AA, 20% poor porosity with S & F, trace good porosity.

2388-2389' 3 min., 50 sec.

Top 95% Dolomite, white, fine crystalline, dense, trace poor porosity with S & F.; 5% Shale, green.

Mid Dolomite, off white, tan, 10% poor porosity with S & F.

Bot Dolomite, brown, fine crystalline, sucrosic, vugular, 30% poor to fair porosity with S & F, trace good porosity with S & F.

2389-2390' 2 min. 15 sec.

Top Dolomite, gray to grayish tan, fine crystalline, sucrosic, vugular, 70% poor porosity, 10% fair to good porosity with S & F, good odor, 100% fluorescence.

Mid Dolomite, gray, grayish tan, fine crystalline, 80% poor porosity, well stained; 10% fair porosity, trace good porosity with S & F.

Bot Dolomite, AA 80% poor porosity, 5% fair porosity with S & F, strong odor, 100% fluorescence.

Stopped at 2390' (31' penetration) to tubing swab. Swabbed from 2375'. Slight show of oil with fluid level at 1600'. Swabbed oil cut drilling fluid down to 2275'. Let stand 30 minutes to test. Had approximately 10' kick back, all oil. Considerable oil pumped from annulus when circulation resumed.

2390-2391' 3 min., 30 sec.

Top Dolomite, AA, 80% poor porosity, 10% fair porosity, trace good porosity with S & F, strong odor.

Mid Dolomite, AA, 70% poor porosity, 20% fair porosity, trace good porosity with S & F.

Bot Dolomite, grayish tan, fine crystalline, dense, 40% porosity, trace fair porosity with S & F.

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2391-2392' 4 min., 20 sec.

Top Dolomite, grayish brown, fine to medium crystalline, 40% poor porosity, 10% fair porosity with S & F.

Mid Dolomite, AA.

Bot Dolomite, grayish tan, fine to medium crystalline, partly oolitic, 30% fair to good porosity, well stained, 60% poor porosity with S & F; trace white chert.

2392-2393' 4 min., 45 sec.

Top Dolomite, grayish tan, fine crystalline, dense; 5% fair to good vugular and oolitic porosity with S & F.

Mid Dolomite, AA, 10% poor to fair porosity, trace good porosity with S & F.

Bot Dolomite, grayish tan, fine crystalline, dense; trace poor to fair porosity with S & F.

Stopped at 2393' (34' penetration, -1015) to pull tubing and swab through casing. Swabbed fluid down to 2365' swabbing from 2365'. Let stand 30 minutes for test. Had 15' kick back (.36 bbls. fluid) 70% oil, balance drilling fluid. Shut down for week-end fill up.

September 20, 1993. Week end fill up 1500' (all oil).

30 minute test got 25' kick back, all oil.

30 minutes test got 25' kick back (.61 barrels) all oil.

Went in hole with bit and tubing to drill ahead.

2393-2394' 4 min., 25 sec.

Top Dolomite, gray to grayish brown, fine crystalline, dense, very poor porosity but saturated, 100% fluorescence.

Mid AA.

Bot AA, trace gray chert.

2394-2395 4 min., 30 sec.

Top 40% Chert, white, tan, partly oolitic, dense.

60% Dolomite, gray to grayish brown, fine crystalline, dense, 10% poor to fair porosity with stain and fluorescence.

Mid Dolomite, gray to grayish tan, white, fine crystalline, trace very fine sandy, trace oolitic, 10% fair porosity with stain and fluorescence.

10% Chert, white, vugular with stain and fluorescence.

Bot Dolomite, white, fine crystalline, dense, trace very fine sandy, trace poor porosity with stain and fluorescence.

Trace Shale, green to gray.

2395-2396' 6 min.

Top Dolomite, AA; 20% Shale, green to gray, trace sandy.

Mid Dolomite, AA, trace poor porosity with stain and fluorescence.

Bot 10% Chert, white.

90% Dolomite, white, gray, fine to medium crystalline, partly sandy, trace poor to fair porosity with S & F.

2396-2397' 5 min.

Big Change. 38' Penetration (-1019)

Top Dolomite, white, medium to coarse crystalline, rhombic-vugular, 80% poor intercrystalline porosity, 10% fair porosity, trace good porosity, well stained, 100% fluorescence.

Mid AA.

Bot Dolomite, AA 70% poor porosity, 10% fair porosity, trace good porosity with stain and fluorescence.

2397-2398' 5 min., 10 sec.

Top Dolomite, white, medium to coarse crystalline, rhombic-vugular, 60% fair porosity, 10% poor porosity with S & F.

Mid Dolomite, AA, 30% fair porosity, 40% poor porosity with S & F.

Bot Dolomite, AA 50% poor porosity, 10% fair porosity with S & F.

2398-2399' 6 min., 25 sec.

Top Dolomite, white to gray, medium to coarse crystalline, dense, 10% poor porosity, trace fair porosity with S & F.

Mid Dolomite, white to buff, fine to medium to coarse crystalline, dense, 20% poor porosity with S & F (100% fluorescence).

Bot Dolomite, gray, fine crystalline, dense., trace poor porosity with S & F. trace white, oolitic chert.

40' Penetration (-1021)

Quit drilling at 12:30 PM. Pulled tubing to casing swab. Swabbed fluid level down to 2365' swabbing from 2365'. Let stand 30 minutes, 150' kick back, all oil (3.66 barrels). Let stand 30 minutes, 115' kick back, all oil (2.8 bbls.). Shut down at 3:20 PM for overnight fill up.

September 21, 1993. 2034' fill up overnight. Will put on pump.

September 22, 1993. Pumped 80 barrels oil, no water, 24 hours.