

Computer inventoried

API#15-015-23378

OXY USA, INC.  
Chesney "A" No. 229  
1320' FSL, 2000' FEL  
Sec. 21-T25S-R5E  
Butler Co., Kansas  
El Dorado Field

K.C.C.  
K.G.S.  
LIBRARY

Open Hole Completion

Contractor: J.W. Gibson Well Service  
Elevations: K.B. 1389', Gr. 1384'.  
Arbuckle Top: 2365' -976  
Total Depth: 2385' -996  
Production Casing: 5½" at 2383' with 375 sacks cement.  
Arbuckle Penetration: 20'.  
Geologist: Herbert R. Johnson

November 15, 1993. Drilled cement and shoe. Started drilling  
Arbuckle at 8:42 AM.

2385-2386' 3 min., 25 sec.

Top Dolomite, brownish gray, medium to coarse crystalline, 5%  
poor to fair porosity with stain and fluorescence.

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

Bot AA.

2386-2387' 4 min., 15 sec.

Top Dolomite, grayish tan, medium crystalline, dense.

Mid AA

Bot Dolomite, grayish tan, medium to coarse crystalline, trace  
poor to fair porosity with S & F.

2387-2388' 7 min., 20 sec.

Dolomite, grayish tan, medium to coarse crystalline, trace poor  
porosity with stain and fluorescence.

2388-2389' 4 min., 30 sec.

Top Dolomite, AA, trace light green shale.

Mid Dolomite, grayish tan, fine crystalline, dense, trace poor  
porosity with S & F; 5% Chert, white, gray.

Bot Dolomite, grayish brown, fine to medium crystalline, dense;  
trace light green shale and white chert.

2389-2390' 5 min.

Top Dolomite, tan, fine crystalline, dense.

Mid AA

Bot 15% Chert, white; 85% Dolomite, grayish tan, fine to medium  
to coarse crystalline, trace fair to good rhombic-vugular  
porosity with stain and fluorescence.

2390-2391' 6 min., 25 sec.

Dolomite, white, medium to coarse crystalline, dense.

2391-2392' 11 min., 15 sec.

Top Dolomite, gray, cream, fine crystalline, dense; trace light  
green shale and white chert.

Mid Dolomite, white, medium to coarse crystalline, slightly  
pyritic, dense; trace light green shale.

Bot AA, trace vugs lined with coarse crystals.

2392-2393' 7 min., 25 sec.

Top Dolomite, white, tan, fine to medium crystalline, dense.

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Mid AA  
Bot AA

2393-2394' 4 min., 25 sec.

Top Dolomite, light tan, buff, medium crystalline, dense.

Mid Dolomite, AA, 3% poor to fair porosity with S & F.

Bot AA, trace poor porosity with S & F.

30' Pen. -1006 2394-2395 7 min., 25 sec.

Top Dolomite, AA trace poor porosity with S & F.

Mid AA, fair stain and fluorescence on fracture faces of some cuttings.

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

2395-2396' 8 min., 50 sec.

Top Dolomite, grayish tan, fine to coarse crystalline, trace fair to good porosity with S & F.

Mid Dolomite, gray to grayish tan, fine crystalline, dense; trace medium to coarse crystalline dolomite with poor to fair porosity with S & F.

Bot Dolomite, gray, fine crystalline, dense, partly sandy.

2396-2397' 8 min., 30 sec.

Top Dolomite, light gray, fine crystalline, dense, few scattered rounded sand grains; trace light green shale.

Mid AA; 5% Chert, white, oolitic, trace poor to fair porosity with S & F.

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

5% Chert, white.

2397-2398' 7 min.

Top 30% Chert, white, trace poor porosity with stain; 70% Dolomite, grayish tan, fine crystalline, dense, trace poor to fair porosity with S & F.

Mid 30% Chert, AA; 70% Dolomite, AA.

Bot 20% Chert, AA; 80% Dolomite, AA, 5% poor to fair porosity with S & F.

2398-2399' 10 min., 30 sec.

Top 90% Chert, white, trace stain; 10% Dolomite, gray, dense.

Mid AA

Bot Dolomite, gray, fine crystalline, dense; trace light green shale.

35' Pen. -1011 2399-2400' 10 min., 25 sec.

Top Dolomite, gray, fine crystalline, dense, slightly pyritic and sandy; trace stain and fluorescence on frac faces.

Mid AA

Bot Dolomite, grayish tan, fine crystalline, dense; 5% poor to fair porosity with S & F.

2400-2401' 7 min., 45 sec.

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

Mid Dolomite, grayish brown, fine crystalline, dense; 2% coarse crystalline vugs with good porosity with stain and fluorescence.

Bot Dolomite, grayish brown, fine crystalline, dense.

2401-2402' 8 min., 40 sec.

Top Dolomite, grayish brown, fine to medium crystalline, dense.



Mid 70% Dolomite, AA; 30% Dolomite, tan, fine to medium crystalline, 10% poor to fair porosity with stain and fluorescence.  
Bot Dolomite, cream to gray, fine crystalline, 30% poor to fair porosity, trace good porosity with S & F.  
47' Pen. -1023            2411-2412'   8 min., 45 sec.  
Top Dolomite, off white, cream, gray, fine crystalline, 40% poor porosity, 10% fair porosity, trace good porosity with S & F.  
Mid Dolomite, light gray, fine crystalline, 30% good vugular porosity with stain and fluorescence; 40% poor to fair porosity with S & F (80% fluorescence).  
Bot Dolomite, off white, light gray, slightly sandy, fine crystalline, dense, 5% poor to fair porosity with S & F.

Stopped at 2412' to pull tubing and casing swab. Swabbing from 2370', swabbed fluid down to 2370'. Let stand 30 minutes, had 10' kick back (80% oil, balance drilling fluid).

November 16, 1993. Overnight fill up 200', all oil.

Put on new bit. Started drilling at 10 AM.

2412-2413'   4 min.

Top Dolomite, cream to gray, fine crystalline, dense, 2% poor to fair porosity with stain and fluorescence. Trace good vugular porosity with S & F.

Mid Dolomite, gray, fine crystalline, dense, 2% poor to fair porosity with S & F.

Bot AA, 5% poor to fair porosity, trace good porosity with S & F.

2413-2414'   4 min., 15 sec.

Top 20% Chert, white, gray; 80% Dolomite, fine to medium crystalline, 10% poor to fair porosity with S & F.

Mid 30% Dolomite, white, medium crystalline, rhombic-vugular, fair porosity with stain and fluorescence; 70% Dolomite, gray, fine crystalline, dense, trace vugular porosity with S & F.

Bot 80% Dolomite, white, light gray, fine to medium crystalline, 60% poor porosity with S & F; 20% Dolomite, cream to gray, fine crystalline, dense.

50' Pen. -1026            2414-2415'   6 min., 10 sec.

Top 95% Dolomite, gray, fine crystalline, dense, trace poor to fair porosity with S & F; 5% Dolomite, cream, gray, medium crystalline, trace poor to fair porosity with S & F.

Mid AA

Bot Dolomite, gray, fine crystalline, dense; trace vugular dolomite with good porosity, S & F.

2415-2416'   6 min.

Top Dolomite, gray, fine crystalline, dense, 20% poor to fair porosity with S & F.

Mid AA, Note stained frac faces.

Bot AA.

2416-2417'   10 min., 50 sec.

Top Dolomite, gray, fine crystalline, dense, trace poor porosity with S & F.

Mid AA Note stain on frac faces.

Bot 10% Chert, white, gray, amber, oolitic, dense.

90% Dolomite, AA, trace poor to fair porosity with S & F, noted frac faces with stain.

2417-2418'   8 min., 45 sec.

Top 70% Chert, white, trace poor porosity with S & F.

30% Dolomite, gray, fine crystalline, dense.  
 Mid Dolomite, white, medium crystalline, vugular, fair porosity with S & F., trace good porosity.  
 Bot Dolomite, gray, fine to medium crystalline, dense, 5% poor to fair porosity with stain and fluorescence.  
 54' Pen -1030 2418-2419' 6 min., 55 sec.  
 Top Dolomite, gray, fine to medium crystalline, dense, trace poor porosity with S & F.  
 Mid AA  
 Bot 90% Dolomite, gray, fine crystalline, dense; 10% Dolomite, cream, medium crystalline, poor to fair porosity with S & F.  
 55' Pen. -1031 2419-2420' 6 min., 30 sec.  
 Top 98% Dolomite, gray, fine crystalline, dense; 2% Dolomite, cream, medium crystalline, poor to fair porosity with S & F.  
 Mid Dolomite, gray, fine to medium crystalline, 5% poor to fair porosity with S & F.  
 Bot AA, 2% poor to fair porosity with S & F.  
 56' Pen. -1032 2420-2421' 10 min., 55 sec.  
 Top 95% Dolomite, gray, fine crystalline, dense; 5% Dolomite, cream, medium crystalline, poor to fair porosity, trace good porosity with S & F; trace light green shale.  
 Mid 40% Dolomite, off white, cream, medium crystalline, 5% poor to fair porosity with S & F; 60% Dolomite, gray, fine to medium crystalline, dense, trace slickensides on frac faces.  
 Bot 98% Dolomite, gray, fine crystalline, dense, trace vugular porosity and stain on frac faces; 2% Dolomite, cream, medium crystalline, poor to fair porosity with S & F.  
 57' Pen -1033 2421-2422' 3 min., 50 sec.  
 Top 30% Dolomite, cream, tan, medium crystalline, poor to fair porosity with S & F; 70% Dolomite, gray, fine crystalline, dense, partly vugular with S & F.  
 Mid 50% Dolomite, cream, medium crystalline, poor to fair porosity, trace good porosity with S & F; 50% Dolomite, gray, fine to medium crystalline, dense, trace poor to fair porosity with S & F.  
 Bot 15% Chert, white, gray, slightly vugular with S & F.  
 60% Dolomite, gray, fine crystalline, dense.  
 20% Dolomite, white, cream, medium crystalline, poor to fair porosity, trace good porosity with S & F.  
 5% Shale, light green, pyritic.

Stopped at 2422' to pull tubing and casing swab. Swabbed fluid down to 2370, swabbing from 2370'. Let stand 15 minutes, had 150' kick back (3.66 bbls.), 80% oil, balance drilling fluid.

November 17, 1993. Overnight fill up 2047' (375' from surface). Running tubing and rods to put on pump.

November 18, 1993. Pumped 30 barrels oil, 60 barrels water, 24 hours.