

ORIGINAL

OXY USA, INC.
Chesney "A" No. 230
1920' FSL, 1440' FEL
Sec. 21-T25S-R5E
Butler Co., Kansas
El Dorado Field

Open Hole Completion

K C C

JUL 12 1995

Contractor: J.W. Gibson Well Service
Elevations: K.B. 1388', Gr. 1383'.
R.T.D. 2375'.
Production Casing: 5½" at 2371'.
Arbuckle Top: 2359 -971.
Arbuckle Penetration: 16'.
Geologist: Herbert R. Johnson

June 1, 1994.

2375-2376' 5 min., 30 sec.

Dolomite, tan, buff, light gray, fine crystalline, dense.
trace fair porosity with stain and fluorescence at bottom.

2376-2377'

Top Dolomite, white, gray, fine to medium crystalline, slightly
sandy, 20% poor to fair porosity with stain and fluorescence;
2% Quartz, white, clear, coarse crystalline, vugular with
fair to good porosity and stain, fluorescence; 80% of sample
has fluorescence. Trace green shale.

Mid Dolomite, gray, fine crystalline, dense; trace sandstone,
tan, fine grained, friable, fair to good porosity with S & F.

Bot 80% Dolomite, white, gray, fine crystalline, sandy, dense;
15% Chert, white. 5% Shale, green.

19' Pen. 2377-2378' 8 Min.

Top Dolomite, gray, fine to medium crystalline, 30% poor porosity,
trace fair porosity with stain, 50% fluorescence. Trace
Quartz, white, vugular, fair porosity with S & F.

Mid Dolomite, buff, gray, medium crystalline, dense, 20% poor
porosity with S & F, good odor.

Bot Dolomite, buff, fine to medium to coarse crystalline, dense.

Stopped at 2378' to tubing swab. Swabbed fluid down to 2300'.
Let stand 30 minutes, no kick back, no recovery.

20' Pen. 2378-2379' 9 min., 50 sec.

Top Dolomite, buff, fine to medium crystalline, trace poor to
fair porosity, vugular with S & F. Trace white and gray Sh.

Mid Dolomite, gray, tan, buff, fine to medium crystalline, 1%
poor to fair vugular porosity with S & F. Trace white, coarse
secondary quartz crystals.

Bot AA 10% poor porosity, some bleeding oil and gas, 20% fluor-
escence.

21' Pen 2379-2380 9 min., 15 sec.

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

Mid AA

Bot Dolomite, cream, white, medium crystalline, dense, trace
poor porosity with S & F.

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- 22' Pen. 2380-2381 4 min., 45 sec.
 Top 80% Chert, white, gray, 10% fair vugular porosity, bleeding oil and gas, good odor; 20% Dolomite, tan, gray, fine to medium crystalline, dense, trace poor to fair porosity with S & F.
 Mid Dolomite, gray, fine to medium crystalline, dense, trace poor to fair porosity with S & F.
 Bot AA.
- 23' Pen. 2381-2382' 8 min., 50 sec.
 Top Dolomite, tan, gray, fine crystalline, dense, 5% slightly cherty, oolitic, good porosity, well stained, bleeding oil, good saturation. Trace green shale.
 Mid Dolomite, gray, cream, fine crystalline, slightly cherty, dense, 40% poor porosity with S & F.
 Bot Dolomite, gray, tan, mottled, fine crystalline, slightly cherty, 40% poor porosity with S & F; trace fair to good porosity with S & F, good odor, 80% fluorescence.
- 24' Pen. 2382-2383' 6 min., 15 sec.
 Top Dolomite, AA, 40% poor porosity with S & F; 2% Quartz, white, cleat, coarse crystalline, good porosity with S & F.
 Mid AA 5% Quartz, AA.
 Bot Dolomite, gray, tan, medium to coarse crystalline, 80% poor porosity with S & F, 5% fair porosity with S & F, 100% fluorescence.
- 25' Pen. 2383-2384 6 min., 55 sec.
 Top Dolomite, gray, tan, fine crystalline, 80% poor porosity with S & F; 5% Chert, white.
 Mid 70% Chert, white, partly oolitic, 30% fair to good porosity with S & F.
 30% Dolomite, gray, tan, fine crystalline, poor porosity with S & F
 Bot 90% Dolomite, gray, tan, siliceous, mottled, fine crystalline, poor porosity with S & F; 10% Chert, white, gray, dense.

Stopped at 2384' to tubing swab. Swabbed fluid down to 2325'. Had slight show of oil when fluid swabbed down to around 1500'. Let stand 30 minutes. 5' kick back. Recovered oily drilling fluid.

S.D. at 5 PM for overnight fill up and acid job.

June 2, 1994. 300' overnight fill up (100' oil, 200' drilling fluid). After swabbing down loaded hole with drilling fluid. Circulated out approximately 5 barrels oil from the annulus while loading hole.

Spotted 100 gallons 15% NE Fe acid. Let stand 2½ hours. formation took approximately 16 gallons. Pulled tubing and casing swabbed. Swabbed fluid down to 2360'. Had 15' kick back. Recovered oil with trace drilling fluid. The second 30 minute test had 15' kick back (oil with trace drilling fluid). 15' equivalent to approximately 1/3 barrel.

June 3, 1994. Overnight fill up 470' oil (11.19 bbls.) Very gassy oil returned to surface when annulus fluid replaced by drilling fluid. Started drilling at 9:05 AM.

26' Pen. 2384-2385' 10 min., 20 sec.
 Top Dolomite, white, gray, medium to coarse crystalline, dense, 5% poor porosity with S & F; trace chert, gray, white; trace green shale.
 Mid AA
 Bot Dolomite, cream, gray, medium to coarse crystalline, dense, trace poor to fair porosity with S & F; trace green shale; trace gray chert, slightly vugular with S & F.

27' Pen. 2385-2386' 20 min., 20 sec.
 Top AA
 Mid AA
 Bot Dolomite, medium to coarse crystalline, dense; trace poor porosity with S & F.

28' Pen. 2386-2387' 9 min., 15 sec.
 Top Dolomite, white, gray, medium crystalline, dense; 10% poor to fair porosity with S & F. Trace gray chert.
 Mid Dolomite, gray, medium crystalline, dense, trace poor porosity with S & F.
 Bot AA, trace vugular quartz.

29' Pen. 2387-2388' 6 min., 5 sec.
 Top Dolomite, gray, medium crystalline, dense; 10% cherty and clear quartz crystals, vugular, poor to fair porosity with stain and fluorescence.
 Mid Dolomite, white, medium crystalline, dense, trace poor to fair porosity with S & F.

BIG CHANGE

Bot Dolomite, white, coarse crystalline, rhombic-vugular, 80% poor to fair porosity, 20% fair to good porosity with S & F.

30' Pen. 2388-2389' 9 min., 15 sec.
 Top Dolomite, white, coarse crystalline, rhombic-vugular, 30% poor porosity, 20% fair to good porosity with S & F.
 Mid Dolomite, white, medium crystalline, dense.
 Bot Dolomite, white, medium to coarse crystalline, 30% poor porosity, 10% fair to good porosity with S & F.

31' Pen. 2389-2390' 8 min., 0 sec.
 Top Dolomite, white, gray, coarse crystalline, rhombic-vugular, 60% poor porosity, 10% fair porosity with S & F.
 Mid Dolomite, white, coarse crystalline, rhombic-vugular, 40% poor porosity, 5% fair porosity with S & F.
 Bot Dolomite, white, gray, medium crystalline, 40% poor porosity with S & F.

Stopped at 2390' (-1002). Pulled tubing to casing swab. Swabbed fluid down to 2360'. Took 30 minute test. Had 15' kick back, oil with 15% drilling fluid. Ran tubing in hole with bit to drill ahead.

32' Pen 2390-2391' 3 min., 30 sec.
 Top Dolomite, gray, medium to coarse crystalline, rhombic-vugular, 80% poor porosity, 10% fair to good porosity with S & F.
 Mid Dolomite, AA,
 Bot AA, trace green shale.

33' Pen. 2391-2392' 5 min., 5 sec.
 Top Dolomite, white, medium to coarse crystalline, dense, 5% poor to fair porosity with S & F.

Mid Dolomite, AA, trace coarse crystalline with good vugular porosity with S & F.

Bot* Dolomite, white, coarse crystalline, rhombic-vugular, 70% fair to good porosity with S & F; 30% poor porosity with S & F.
 34' Pen. 2392-2393' 4 min., 25 sec.

Top Dolomite, white, coarse crystalline, rhombic-vugular, 60% fair to good porosity with S & F; 40% poor porosity with S & F.

Mid Dolomite, AA, 80% Poor porosity, 10% fair porosity with S & F.

Bot Dolomite, AA, 90% poor porosity with S & F.
 35' Pen. (-1006) 2393-2394' 4 min., 50 sec.

Top Dolomite, white, coarse crystalline, rhombic-vugular, 80% poor porosity, 10% fair porosity, trace good porosity with S & F.

Mid Dolomite, white, fine to medium crystalline, dense, 10% poor porosity with S & F.

Bot Dolomite, white, gray, fine to medium crystalline, 20% poor to fair porosity with S & F

Pulled tubing. Casing swabbed fluid down to 2360'. 30 minute test had 15' kick back, 100% oil. Shut down at 6:30 PM for week-end fill up.

June 6, 1994. 1260' fill up, all oil. Spotted 100 gallons 15% NE Fe, followed by 12 barrels KCL water. Vacuum on tubing in 2 minutes. Vacuum on annulus in 30 minutes. From 11AM to 2:30 PM all fluid displaced. Pulled tubing to casing swab. Swabbed fluid down to 2360'. 1st. 30 minute test had 50' kick back, 45% oil, balance drilling fluid. 2nd 30 minute test had 50' kick back, 85% oil, balance drilling fluid. 3rd. 30 minute test had 50' kick back, 95% oil, balance drilling fluid. 50' equal to 1.22 bbls. Shut down at 4:40 PM. To run tubing and rods.

June 7, 1994. Overnight fill up 880' (15 Hours). Approximately 1.3 bbls./hour. Running tubing and rods to put on pump.

June 8, 1994. Pumped 55 BOPD, NW.

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