OXY USA, INC.
Varner "B" No. 2
1600' FNL, 990' FEL
Sec. 17-T28S-R4E
Butler Co., kansas
Augusta Field
API #15-015-23360

KCC

APR 28 1994

Open Hole Completion

Contractor: J.W. Gibson Well Service
Elevations: K.B. 1249', Gr. 1244'.
Arbuckle Top: 239 7' -1148
Production Casing: 5½" at 2399'.
Total Depth: 2400' -1151
Arbuckle Penetration: 3'.
Geologist: Herbert R. Johnson

December 27, 1993. Atlas Wireline Services ran SBT Bond Log with Gamma Ray. Drilled shoe and cement. Started drilling Arbuckle at 2:30 PM.

4' Pen. -1152 2400-2401' 3 min., 20 sec.
Top Dolomite, gray, brown, fine crystalline, sub-sucrosic, 40% poor porosity with light stain and fluorescence, good odor.
Mid Dolomite, grayish tan, fine crystalline, sub-sucrosic, 95% poor porosity, well stained, 5% fair porosity, well stained, 100% fluorescence, good odor.
Bot Dolomite, AA, 70% poor porosity, 5% fair porosity, well stained, good odor, 100% fluorescence.

5' Pen. -1153 2401-2402' 3 min., 30 sec.
Dolomite, grayish tan, fine crystalline, sub-sucrosic, poor porosity, trace fair porosity, well stained, good odor, 100% fluorescence; trace white chert.

6' Pen. -1154 2402-2403' 6 min.
Dolomite, grayish tan, fine crystalline, sub-sucrosic, 95% poor porosity with stain and fluorescence. Trace white chert.

7' Pen. -1155 2403-2404' 8 min., 30 sec.
Top Dolomite, gray, grayish tan, fine crystalline, sub-sucrosic, 95% poor porosity, 5% fair porosity, well stained, fluorescence, good odor.
Mid AA
Bot AA.

8' Pen. -1156 2404-2405' 9 min.
Top Dolomite, grayish tan, fine crystalline, poor porosity, well stained, trace black residual stain, 100% fluorescence.
Mid Dolomite, tan, fine crystalline, dense, 10% poor porosity with S & F.
Bot Dolomite, grayish tan, fine crystalline, dense, highly fractured, abundant fracture faces with black residual stain, 40% fluorescence.

Stopped at 2405' to pull tubing and casing swaB. Casing swabbed fluid down to 2380' Last pull had slight show oil in water. Shut down at 5:30 PM (dark) for overnight fill up.

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December 28, 1993. Overnight fill up 200' oil (15 hours, 13.3'/hour). Went in hole with bit and tubing, filled water pit and started drilling at 11:30 AM.

9' Pen. -1157 2405-2406' 4 min., 50 sec.
Top Dolomite, gray, grayish tan, fine crystalline, dense, abundant black stained frac faces, some with striations, 90% fluorescence; trace white, gray chert.
Mid AA.
Bot Dolomite, white, medium to coarse crystalline, 5% poor porosity with S & F.
10' Pen. -1158 2406-2407' 3 min., 35 sec.
Top 30% Chert, white; 70% Dolomite, white, fine, medium and coarse crystalline, trace fair rhombic-vugular porosity, well stained, 90% fluorescence.
Mid Dolomite, white, gray, very fine crystalline, dense; trace poor to fair porosity with S & F. Trace white, gray chert
Bot Dolomite, AA, 3% poor to fair porosity with S & F.
11' Pen. -1159 2407-2408' 5 min.
Dolomite, grayish tan, fine crystalline, 80% poor porosity well stained, 100% fluorescence.
12' Pen. -1160 2408-2409' 4 min., 30 sec.
Top Dolomite, gray, fine crystalline, dense, 5% fair vugular porosity with S & F; 20% Chert, white.
Mid Dolomite, AA, 30% poor to fair vugular porosity with S & F and frac faces with live oil stain.
Bot Dolomite, white, gray, tan, fine crystalline, dense; 30% poor porosity with S & F. Trace black residual stain and striations on frac faces.
13' Pen. -1161 2409-2410' 4 min.
Top Dolomite, white, gray, tan, fine crystalline, dense, 5% poor porosity with S & F. Trace white coarse crystalline lined vugs with stain, trace black residual flecks. Abundant oil stained frac faces. Trace white to tan chert.
Mid Dolomite, white, grayish tan, fine to m edium and coarse crystalline, 2% fair to good porosity with S & F.
Bot Dolomite, tan, coarse crystalline, rhombic-vugular, 80% poor to fair porosity,trace good porosity with S & F; 5% Chert, white, gray.
13.5' Pen. -1161.5 2410-2410.5' 1 min., 45 sec.
Top 30% Chert, white, tan, trace quartz lined and stained vugs. 70% Dolomite, grayish tan, medium crystalline, dense, trace poor to fair porosity with S & F.
Mid 10% Chert, AA; 90% Dolomite, grayish tan, fine crystalline, dense.
Bot AA.

Stopped at 2410.5' to tubing swab. Swabbed fluid down to 2380'. Took 30 min. test. 5' kick back, oily drilling fluid. Resumed drilling at 3:55 PM.

14' Pen. -1162 2410.5-2411 2 min., 30 sec.
Top Dolomite, grayish tan, fine to medium crystalline, vugular 30% poor to fair porosity,trace good porosity with S &

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Mid AA, 20% poor to fair porosity with S & F.
Bot AA, trace Chert, white.
15' Pen. -1163 2411-2412' 6 min., 30 sec.
Top Dolomite, grayish tan, fine crystalline, 5% good vugular porosity, 30% poor to fair porosity with S & F. Some clear coarse quartz crystals lining vugs, well stained with fluorescence.
Mid Dolomite, grayish tan, fine crystalline, 40% poor to fair porosity with S & F.
Bot Dolomite, grayish tan, fine crystalline, dense, 20% poor porosity, trace fair to good porosity with S & F; 3% Chert, white.
16' Pen. -1164 2412-2413' 6 min., 30 sec.
Top Dolomite, grayish tan, fine crystalline, dense, slightly vugular, trace clear, coarse crystalline quartz cluster with stain, 40% fluorescence.
Mid Dolomite, AA, 10% poor to fair porosity with S & F; 20% Chert, white, 90% fluorescence.
Bot Dolomite, AA, 20% poor to fair porosity with S & F.

Stopped at 2413' to tubing swab. Swabbed fluid down to 1200', swabbing from 2380'. Shut down at 5:35 PM due to darkness. Show of oil on last pull.

December 29, 1993. 75' oil fill up on 1200' of fluid left in hole. Swabbed fluid down to 2300'. Took 30 minute test. Had 5' kick back, recovered oily drilling fluid.

17' Pen. -1165 2413-2414' 8 min., 30 sec.
Top Dolomite, grayish tan, fine crystalline, dense, trace poor porosity with stain and fluorescence.
Mid 10% Chert, white, grayish tan, frac faces with stain.
90% Dolomite, AA, 10% poor to fair porosity with stain and fluorescence.
Bot Dolomite, AA, 5% poor porosity with S & F. 10% Chert, AA.
18' Pen. -1166' 2414-2415' 8 min., 30 sec.
Top Dolomite, gray, grayish brown, fine crystalline, sandy, dense, 10% poor porosity with S & F.Trace white oolitic chert.
Mid Dolomite, AA, 10% poor to fair porosity with S & F. 10% Chert white, partly oolitic.
Bot Dolomite, grayish tan, fine crystalline, vugular, 10% fair to good porosity, well stained, 60% fluorescence. 15% Chert, white, partly vugular with S & F.
Very Bot Dolomite, grayish brown, fine to coarse crystalline, excellent porosity with clusters of clear quartz crystals, well stained, trace black residual specks adhering to surface of vugs.60% Chert, white, amber, partly vugular with S & F.
19' Pen. -1167 2415-2416' 6 min.
Top Dolomite, gray, fine crystalline, dense, 30% fair to good to excellent vugular porosity with S & F. Clusters of quartz crystals with S & F. 10% Chert, AA.
Mid Dolomite, gray, fine crystalline, dense, 5% poor to fair porosity with S & F. Frac faces stained.

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Bot Dolomite, gray, fine crystalline, dense, numerous frac faces with stain and fluorescence.

Stopped at 2416' to pull tubing and casing swab. Swabbed fluid down to 2380', swabbing from 2380'. Let stand 30 minutes. Had 150' kick back, saltwater with trace of oil. 2nd. 30 minute test-175' kick back,91% saltwater, 9% oil. 4.27 bbls. fluid, .03843 bbls. oil equates to 18.44 BOPD. 3rd. 30 minute test-200' kik back 4.88 bbls. fluid, 94% saltwater, 6% oil (.2928 bbls. oil equates to 14 BOPD). 4th. 30 minute test- 200' kick back, 4.88 bbls. fluid, 95% saltwater, 5% oil (approximately ½ bbls. oil per hour).

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