

Computer Inventory

OXY USA, INC.
 Hegberg "A" No. 199
 1780' FSL, 1745' FEL
 Sec. 28-T25S-R5E
 Butler Co., Kansas
 El Dorado Field
 API #15-015-23414

Re-entry and Deepening

Contractor: J.W. Gibson Well Service
 Elevations: K.B. 1376', G.L. 1371'
 Production Casing: 5½" at 2450' with 375 sacks cement.
 Total Depth 2459' -1083
 Top Simpson: 2450' -1074
 Penetration: 9'
 Production: September 14, 1994, Pumped 5 B.O., 23 B.W., 24 hours.
 Geologist: Herbert R. Johnson

October 4, 1994. Took off pump, pulled tubing and rods.
 October 5, 1994. Mixed KCL with water for drilling fluid. Circulated hole clean.

2459-60' 1 min., 30 sec.

95% Sandstone, light green, shaley, very fine to medium grain-
 edm friable, no show.

5% Sandstone, brown, fine to medium grained, fair to good
 porosity, well stained, fluorescence; trace white chert.

-1085 2460-2461' 1 min., 30 sec.

Top Sandstone, brown, very fine to medium grained, rounded,
 frosted, friable, with secondary overgrowths, good porosity,
 well stained with fluorescence; 5% Shale, bright green.

Bot 70% Shale, green; 30% Sandstone, AA.

Stopped at 2461' to tubing swab. Swabbed fluid down to 2400'.
 Took 30 minute test. Had 40' kick back, drilling fluid
 with trace oil.

-1086 2461-2462' 2 min., 25 sec.

Top 95% Sandstone, brown, fine to medium grained, friable,
 clustered, good porosity, well stained, yellow fluorescence;
 5% Shale, green.

Mid 80% Sandstone, AA; 20% Shale, green.

Bot 80% Sandstone, AA, 50% loose grains, partly pyritic; 20%
 Shale, green.

-1087 2462-2463' 4 min., 15 sec.

Top Poor sample, 98% large chunks cement. Balance sandstone,
 brown, fine to medium grain, loose, stained with fluorescence.

Mid 50% large chunks cement, balance Sandstone, brown, fine to
 medium grained, friable, good porosity, well stained, yellow
 fluorescence, pyritic, 70% clustered, 30% loose.

Bot 70% Sandstone, tan, fine to medium grained, friable, good
 porosity, well stained, fluorescence.
 30% Shale, light green, pyritic.

Stopped at 2463' to tubing swab. Swabbed fluid down to 2400'.
 30 minute test had 35' kick back, drilling fluid with scum

oil. Shut down at 4:30 PM for overnight fill up.

October 6, 1994. Overnight fill up 500' consisted of drilling fluid, saltwater and trace of oil. 30 minute test had 40' kick back, drilling fluid and saltwater.

-1088 2463-2464' 2 min.

Top Sandstone, brown, fine to medium grained, friable, fair to good porosity, well stained, fluorescence.

Mid 80% Sandstone, AA; 20% Shale, green, pyritic, sandy.

Bot 80% Sandstone, AA; 20% Shale, AA.

-1089 2464-65' 4 min., 15 sec.

Top Sandstone, white, fine to medium grained, poor to fair porosity, light stain and fluorescence. 20% Clay, soft, white.

Mid 30% Clay, soft; 70% Sandstone, AA.

Bot 80% Sandstone, white, tan, fine to medium grained, poor to fair porosity, light stain and fluorescence; 20% Clay, white, soft.

-1090 2465-2466' 2 min., 20 sec.

Top 80% Sandstone, tan, brown, fine to medium grained, friable, fair to good porosity with stain and fluorescence; 20% Clay, white, soft.

Mid AA

Bot AA

Stopped at 2466' to pull tubing and casing swab. Swabbed fluid down to 2440'. Took 30 minute test. Had 130' kick back, drilling fluid and saltwater, no show oil. 2nd. 30 minute test had 100' kick back, drilling fluid, saltwater and scum of oil. 3rd. 30 minute test had 100' kick back (2.44 bbls.) saltwater with scum oil. 4th. 30 minute test had 90' kick back, saltwater with scum oil. 5th. 30 minute test had 75' kick back (1.83 bbls.) saltwater with scum oil. 6th. and 7th. 30 minute tests same as the 5th.

October 7, 1994. Overnight fill up 650' (5' oil, balance saltwater).

-1091 2466-67'

Top Sandstone, brown, fine to medium grained, well rounded, frosted, loose quartz grains, good porosity, stain and fluorescence.

Mid Sandstone, tan, fine to medium grained, friable, clustered, fair to good porosity with stain, fluorescence, poor saturation.

Bot 90% Sandstone, AA; 10% Clay, white, soft.

-1092 2467-2458' 4 min.

Top Sandstone, AA; 20% Clay, white, soft.

Bot 75% Sandstone, AA; 25% Clay, soft, white.

-1093 2468-2469' 3 min., 30 sec.

Top 95% Sand, brown, loose, fine to medium grained quartz, good porosity with stain and fluorescence, few clusters. 5% Clay, white.

Mid 98% Sandstone, AA; 2% Clay, AA

Bot AA.

-1094 2469-70' 3 min., 5 sec.
 Top Sandstone, tan, fine to medium grained, clustered quartz grains, fair to good porosity, stain and fluorescence, poor saturation, no free oil.
 Mid Sandstone, AA; trace white clay.
 Bot AA 5% Clay, white, soft.

-1095 2470-71' 2 min., 50 sec.
 Top Sandstone, white, tan, fine to medium grained, poor to fair porosity with stain and fluorescence, poor saturation, NFO 5% Clay, white, soft.
 Mid AA
 Bot AA

-1096 2471-72' 2 min., 15 sec.
 Top and Mid, AA
 Bot Sandstone, white, tan, fine to medium grained, friable, poor to fair porosity, 20% with stain and fluorescence; 5% Clay, AA.

-1097 2472-73' 3 min., 5 sec.
 Top Sandstone, brown, fine to medium grained, mostly loose, trace free oil, fair odor, S & F.
 Mid 80% Sandstone, white, tan, fine to medium grained, poor to fair porosity, 80% stain and fluorescence; 20% Clay, AA.
 Bot 70% Sandstone, AA; 30% Clay, AA.

-1098 2473-2474' 8 min., 15 sec.
 Top 80% Clay, white, soft.; 20% Sandstone, AA.
 Mid 60% Sandstone, brown, loose, S & F.; 40% Clay, white, soft.
 Bot 50% Sandstone, AA; 50% Clay, white, soft.

-1099 2474-2475' 9 min., 45 sec.
 Top 50% Sandstone, AA; 50% Clay, AA.
 Mid 80% Sandstone, brown, loose, S & F; 20% Clay, AA
 Bot AA.

-1100 2475-76' 14 min., 45 sec.
 Top 80% Sandstone, AA; 20% Clay, AA.
 Mid & Bot 90% Sandstone, AA; 10% Clay, white.

Losing about 3 barrels drilling fluid every 5 minutes, the last two feet. Stopped at 2476' to pull tubing and bit to check bit. Decided to casing swab test while out of the hole. Swabbed fluid down to 2440'. 1st. 15 minute test had 200' kick back (4.88 bbls.) saltwater. 2nd. 15 minute test had 150' kick back (3.66 bbls.) saltwater. 3rd. test had 160' kick back (3.9 bbls.) saltwater with trace of oil. 4th. test had 200' kick back saltwater with trace oil. 5th. 15 minute test had 150' kick back saltwater with trace oil. 6th. 15 minute test had 150' kick back saltwater with trace oil. Shut down for week end fill up at 4:45 PM.

October 10, 1994. Week end fill up 1000' fluid (15' oil, balance saltwater. Went in hole with new bit. Replace drilling fluid.

-1101 2476-77' 5 min.
 Top 90% Sandstone, tan, brown, fine to medium grained, friable, good porosity with S & F. 5% Shale, black, green. 5% Limestone, white, tan, fine crystalline, dense.

Mid Sandstone, AA.
 Bot Sandstone, tan, fine to medium grained, poor to fair porosity with S & F.
 -1102 2477-78' 4 min., 5 sec.
 Top Sandstone, light tan, fine to medium grained, pyritie nodule inclusions, fair to good porosity with S & F.
 Mid Sandstone, AA; 5% Sandstone, white, medium grained with black residual stain, no fluorescence, abundant pyrite nodules.
 Bot Sandstone, white, light green, fine to medium grained, dense, trace stain and fluorescence.
 -1103 2478-2479' 2 min., 5 sec.
 Top Sandstone, white, tan, fine to medium grained, fair porosity, abundant pyrite nodules, S & F.
 Mid Sandstone, tan, fine to medium grained, 70% pyrite nodules and loose sand grains, S & F.
 Bot AA
 -1104 2479-80' 2 min., 10 sec.
 Top Sandstone, white, light tan, very fine to medium grained, friable to loose, abundant pyrite nodules, S & F.
 Mid AA
 Bot 90% Sandstone, AA; 10% Shale, bright green, sandy.
 -1105 2480-81' 4 min., 20 sec.
 Top 50% Clay, white, soft, sticky, sandy. 50% Sandstone, white, light green, fine grained, friable, poor porosity, 10% partly stained with fluorescence.
 Mid Sandstone, white, light green, fine grained, pyritic, poor porosity, trace S & F. 10% Clay, AA
 Bot Sandstone, AA.
 -1106 2481-82' 2 min., 45 sec.
 Top Sandstone, tan, fine to medium grained, friable, fair porosity with S & F.
 Mid 90% Sandstone, AA; 10% Shale, light green, sandy.
 Bot 90% Sandstone, tan, fine to medium to coarse grained, well rounded, frosted, fair to good porosity with S & F; 10% Shale, green sandy.
 -1107 2482-83' 4 min., 10 sec.
 Top Sandstone, tan, fine grained, friable clusters, poor to fair porosity with S & F.
 Mid & Bot AA.
 -1108 2483-84' 8 min., 20 sec.
 Top 90% Sandstone, tan, fine grained, friable, pyritic, fair to good porosity, S & F. 10% Shale, white, soft.
 Mid 80% Sandstone, AA; 20% Shale, white, soft.
 Bot 90% Sandstone, tan, fine grained, pyritic, poor porosity with S & F. 10% Shale, AA.
 -1109 2484-2485' 4 min., 25 sec.
 Top Sandstone, mottled, white, light green, tan, very fine grained, slightly glauconitic and pyritic, poor porosity, mottled stain and fluorescence (20%).
 Mid AA with increase (70%) of S & F.
 Bot AA, 90% S & F.
 -1110 2485-86' 4 min., 30 sec.
 Top Shale, green, silty.
 Mid Shale, AA.

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Bot 10% Shale, AA and soft and sticky green clay.
 90% Sandstone, white, tan, very fine to fine grained, pyritic, dense, 5% S & F.
 -1111 2486-87' 3 min., 20 sec.
 Top 90% Siltstone, gray, argillaceous, pyritic; 10% Clay, silty.
 Mid AA.
 Bot Siltstone, gray, argillaceous, glauconitic, dense.
 -1112 2487-88' 2 min.
 Siltstone, grayish brown, pyritic, slightly dolomitic, bleeding oil and gas, 95% dull fluorescence.
 -1113 2488-89' 1 min., 55 sec.
 Siltstone, AA
 -1114 2489-90' 1 min., 50 sec.
 Top Siltstone, AA, trace bleeding oil and gas.
 Mid Siltstone, gray, grayish brown, bleeding oil and gas, 40% S & F.
 Bot Siltstone, gray, minor grayish brown, pyritic, argillaceous 10% stain and fluorescence.
 -1115 2490-91' 4 min., 45 sec.
 Siltstone, gray, argillaceous, pyritic, dense.
 -1116 2491-92' 2 min., 10 sec.
 Siltstone, gray, argillaceous, pyritic with flecks of green and black shale inclusions, dense, NS.
 -1117 2492-93' 3 min., 5 sec.
 Siltstone, AA.
 -1118 2493-94' 4 min., 50 sec.
 Top 90% Siltstone, glauconitic; 10% Shale, gray and clay.
 Mid Siltstone, gray, very glauconitic, pyritic, dense with inclusions of hard black mineral.
 Bot AA
 -1119 2494-2495' 4 min., 20 sec.
 Clay, red, soft, sticky with inclusions of black shale.
 -1120 2495-96' 3 min.
 Top Limestone, dark gray, black, fine crystalline with red and black hematite disc inclusions.
 Mid AA
 Bot 90% Limestone, AA; 10% Clay, red, soft, sticky.
 -1121 2496-97' 2 min.
 Top Clay, red, soft, sticky.
 Mid & Bot Clay, dark gray, soft, sticky.
 -1122 2497-2498' 2 min., 15 sec.
 Top Clay, red, soft, sticky with inclusions very fine to fine loose quartz sand.
 Mid and Bot AA
 -1123 2498-99' 4 min., 10 sec.
 Top Clay, gray, with inclusions of very fine to fine quartz grains.
 Mid Clay, gray, sandy.
 Bot Sandstone, white, gray, fine to medium grained, very calcareous cement, dense.
 -1124 2499-2500' 3 min., 20 sec.
 Top Sandstone, AA; 10% Clay, white, soft, sticky, sandy.
 Mid & Bot Clay, gray, soft, sticky, sandy.

-1125 2500-2501' 4 min., 35 sec.
 Sandstone, gray, very fine to fine grained, calcareous
 cement, dense, very pyritic, NS.

-1126 2501-02' 5 min.
 Sandstone, AA.

-1127 2502-03' 9 min., 20 sec.
 Sandstone, gray, very fine to medium grained, calcareous
 cement, pyritic, dense.

-1128 2503-04' 8 min., 35 sec.
 Sandstone, gray, silty, very fine to fine grained, calcareous
 cement, dense, NS grading to dandy siltstone.

-1129 2504-05' 8 min., 55 sec.
 Top Sandstone, AA
 Mid Clay, gray, soft, sticky.
 Bot AA

-1130 2505-06' 9 min., 5 sec.
 Top & Mid AA
 Bot 70% Siltstone, gray; 30% Clay, AA.

-1131 2506-07' 5 min., 35 sec.
 Top 90% Siltstone, gray, calcareous, pyritic; 10% Clay, gray,
 soft..
 Mid Siltstone, AA; 5% Clay, AA.
 Bot 70% Siltstone, AA; 30% Clay, AA

-1132 2507-08' 8 min., 55 sec.
 Sandstone, white, light gray, very fine to fine grained,
 glauconitic, pyritic, calcareous cement, dense, NS.

-1133 2508-09' 5 min., 30 sec.
 Top Sandstone, AA.
 Mid Clay, greenish gray, soft, sticky, silty, sandy.
 Bot Clay, gray, soft, sticky.

-1134 2509-2510' 5 min., 30 sec.
 Top Clay, gray, soft, sticky, silty, very slightly sandy.
 Mid AA
 Bot AA.

Shut down at 5:40 PM.

October 11, 1994.

-1135 2510-11' 10 min.
 Top Clay, AA, greenish gray, soft, sticky.
 Mid & Bot AA.

-1136 2511-12' 10 min., 5 sec.
 Clay, AA.

-1137 2512-13' 7 min., 40 sec.
 Top Clay, AA
 Mid AA
 Bot Clay, green; 20% Shale, green.

-1138 2513-14' 5 min., 35 sec.
 Top Clay, green, soft, sticky, very fine to fine sandy.
 Mid AA
 Bot Shale, black, sandy; Sandstone, tan, fine grained, poor
 porosity, trace bleeding oil.

-1139 2514-15' 5 min., 30 sec.
 Clay, green, soft, sticky, sandy.

-1140 2515-16' 8 min., 35 sec.
 Top Clay, green, soft, sandy, pyritic.
 Mid AA
 Bot AA.

-1141 2516-2517' 10 min., 50 sec.
 Clay, green & Shale, sandy.

-1142 2517-18' 7 min., 55 sec.
 Clay, AA.

-1143 2518-19' 10 min., 15 sec.
 Clay, AA

-1144 2519-20' 25 min., 30 sec.
 Top AA.
 Mid Sandstone, white, grayish brown, very fine grained, siliceous cement, dense, pyritic, trace bleeding dark brown oil.
 Bot Sandstone, AA.
 Very Bot Sandstone, white, very fine grained, pyritic, dense, NS.

-1145 2520-21' 7 min., 30 sec.
 Sandstone, white, grayish tan, tan, very fine grained, siliceous cement, pyritic, bleeding oil, dull fluorescence; 5% green shale.

-1146 2521-22' 9 min., 35 sec.
 Clay, green, soft, sticky.

-1147 2522-23'
 Clay, AA.

-1148 2523-24' 10 min. 45 sec.
 Clay, AA.

-1149 2524-25' 9 min., 30 sec.
 Clay, greenish gray, soft, sticky.

-1150 2525-26' 8 min., 25 sec.
 Clay, AA.

-1151 2526-27' 11 min., 5 sec.
 Clay, greenish gray, sticky.

-1152 2527-28' 12 min., 20 sec.
 Clay, AA

-1153 2528-29' 6 min., 25 sec.
 Top Clay, AA but very fin to fine sandy.
 Mid Sandstone, tan, fine to medium grained, friable, siliceous cement, poor to fair porosity, light stain, fluorescence, trace oil released when sample crushed..
 Bot Sandstone, AA.

-1154 2529-30' 4 min., 10 sec.
 Top Sandstone, AA; 50% Shale, green.
 Mid Clay, gray, sandy; 10% Sandstone, AA.
 Bot AA.

-1155 2530-31' 3 min., 45 sec.
 Top 40% Sandstone, AA; 40% Clay, AA; 20% Shale, green.
 Mid 60% Clay, AA; 30% Shale, AA; 10% Sandstone, AA.
 Bot Sandstone, tan, very fine grained, siliceous cement, poor porosity with S & F; 30% Shale, green.

-1156 2531-32' 2 min., 45 sec.
 Top 60% Sandstone, AA; 40% Shale, green.
 Mid 90% Sandstone, AA; 10% Shale, AA.
 Bot 80% Sandstone, AA, 20% Chert, white.

Arbuckle 2532 -1156

-1157 2532-33' 10 min., 5 sec.
Top 70% Shale, green; 30% Clay, gray, soft, sticky.
Mid 40% Clay, AA; 40% Shale, AA.; 20% Limestone, dolomitic, gray,
fine crystalline, dense. Bot 80% Limestone, gray dolo, dense.
1.5 Pen. -1157.5 2533-33.5' 11 min., 50 sec.
Dolomite, calcareous, gray, slightly pyritic, fine crystalline,
10% good to excellent vugular porosity with stain and
fluorescence. Vugs lined with pyramidally terminated clear
coarse quartz crystals and calcite rhombs.

Stopped at 2533.5' to pull tubing and casing swab. Swabbed
fluid down to 2440'. Took 15 minute test. Had 300' kick
back, drilling fluid. 2nd. 15 minute test had same result.
Shut down at 5:25 PM.

October 12, 1994. 1000' fill up overnight, fresh water.
Ran in hole with tubing and packer. Set packer at 2529.5'
Swabbed fluid down to 2521'. Took 30 minute test. No kick back,
no recovery. Pulled tubing and packer and ran back in hole
with tubing and bit to drill.

2' Pen. -1158 2533.5-2534' 1 min., 20 sec.
Dolomite, limey, gray, fine crystalline, dense, trace poor
porosity with stain and fluorescence.
3' Pen. -1159 2534-2535' 6 min., 35 sec.
Top AA, NS.
Mid, AA, NS.
Bot Dolomite, gray, fine crystalline, slightly pyritic, 5% poor
to fair porosity with stain and fluorescence.
4' Pen. -1160 2535-36' 5 min., 35 sec.
Top Dolomite, gray, buff, fine crystalline, dense, trace poor
porosity with stain and fluorescence.
Mid Dolomite, tan, fine to medium crystalline, partly rhombic-
vugular, 20% fair porosity, 5% good porosity, trace stain,
mostly barren, 10% fluorescence.
Bot Dolomite, brown, fine to medium crystalline, pyritic, 10%
good rhombic-vugular porosity, mostly barren, 10% fluores-
cence. Note few coarse calcite crystals in vugs.

Stopped at 2536' to pull tubing and bit in order to run back
in hole with tubing and packer to test. Set packer at 2529.5'.
Swabbed fluid down to 2523'. Took 30 minute test. Had 700'
kick back (4 bbls.) of saltwater with no show oil. Shut
down at 5:30 PM.

October 13, 1994. 2100' fill up overnight, saltwater with no
show of oil. Will plug back and test zone up hole.