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WELL COMPLETION REPORT

ROMAC EXPLORATION COMPANY, INC.

HOUSTON NO. 20-1

C SW SW Sec. 20-T9N-R59W

Logan County, Colorado

- 7/11/80: Ran G/R, Bond Log, Top cement 4770 ft.
7/22/80: Move in rig up J.W. Gibson Rig #25
- 7/23/80: Unloaded strapped & ran 203 jts. 6585.42 ft., new 2 3/8", 4.70 lb. J-55, EUE tbg. swabbed well down 1000 ft. start pulling tbg. shut down for high wind & rain.
- 7/24/80: Finish pulling tbg. Rig up O.W.P., perforate 6459'-63', 6375'-87', 6318'-24' W/2 per ft. Pick up RTTS, retrievable BP, equalizing sub & overshot. Set BP @ 6504 ft. packer @ 6277 ft., swab test all perfs, rec. wtr. @ 15 bbl. 1 hr. tr. tarry substance. Fluid level constant @ 1500 ft. Lowered packer to 6439 ft. isolate perfs 6459'-63'. Swabbed wtr., RW. 7 @ 80°, @ rate of 16 BBL/Hr. Fluid level constant @ 1400 ft. Move BP to 6407 ft. set packer @ 6342 ft. isolate perfs. 6375'-87' swabbed wtr. RW. 5 @ 86° @ rate of 19 bbl. hr. w/trace of Tarry substance. Fluid level stayed between 900' & 1000'. Shut down, left well open.
- 7/25/80: Fluid level @ 900 ft., swabbing from 3000 ft., wtr. w/occasional rainbow, fluid level staying @ 900 ft. Lower packer to 6400 ft. to test BP, tbg. swabbed down. BP holding. Set BP @ 6372 ft., set packer @ 6277 ft., isolate perfs 6318'-24'. Swab test rec. wtr. RW 1.1 @ 85° @ rate of 16 BPH, fluid level @ 1700 ft. Released packer, retrieved BP, pulled tbg.
- 7/26/80: Rig up O.W.P. set cast iron BP @ 4892 ft. perf 4750'-51' W/4, set Halliburton retainer @ 4740 ft. ran tbg. & stinger cemented W/150 sks. 50-50 poz, 10% salt, 2% Gel 6/10 of 1% Halad 9. Preceded cement w/10 bbl. wtr & 500 gal. mud flush. No mud was circulated, did circulate small amount of wtr. Job complete 2:15 PM. Pulled 10 stds. tbg.

7/27/80: Sunday, shut down, WOC

7/28/80: Pulled tbg. rig up O.W.P. ran, Bond log, top cement @ 4728 ft., perf. 4714'-15' W/4. set Halliburton retainer @ 4710 ft. ran tbg. & stinger, cemented w/100 sks. 50-50 Poz. 10% salt, 2% gel, 3/4 of 1% CFR-2, didn't circulate, job complete 5:45 PM, pulled 10 stds.

7/29/80: Finish pulling tbg. WOC until 1:00 PM. Rig up OWP, ran Bond log, Top cement @ 4602 ft. Perf. 4702'-06', Pick up RTTS, ran tbg. & Packer, set Packer @ 4673 ft. swab tbg. down 2400 ft. left well open.

7/30/80: Fluid level 2400 ft. swabbed sli G & OCW, RW. .28 @ 95⁰, fluid level constant & 2800 ft., swabbing 21 bbl. hr. Gas burn for 30 sec. ahead of swab for last 2 hrs. Tr. oil, brn, Tr. asphaltic material. Shut down, left well open.

7/31/80: Fluid level @ 2700 ft., pulled tbg. & packer, rig up O.W.P. set cast iron BP @ 4697 ft., Perf 4687-92 W/2 per ft. Ran tbg. & packer, set packer @ 4641 ft., swabbed water RW. .6 @ 80⁰ @ 17 BBL./Hr.

8/1/80: Fluid level @ 2200 ft., pull tbg. & packer, set cast iron BP @ 4650 ft. Perf 4622'-26' W/2 per ft. Ran tbg & packer, set packer @ 4584 ft. start swabbing, well kicked off flowing gas & water. Shut in prep to test. *36-40*

8/2/80: Open well 600 psi shut in tbg. press. well blew down & died, swabbed gas & water. Fluid level stayed @ \pm 1000 ft.

8/3/80: Sunday shut down.

8/4/80: Open well 250 psi shut in tbg. press. well blew down & died, ran swab fluid level @ 2900 ft. well kicked off, flowed to pit as follows:

<u>TIME</u>	<u>CHOKE</u>	<u>Flowing TBC. PRESS</u>	<u>REMARKS</u>
9:00 AM	3/4"	100 PSIG	Gas & Water
9:30 AM	3/4"	150 PSIG	a/a RW .28 @ 90 ⁰
10:00 AM	3/4"	190 PSIG	Gas & Water Tr. condensate
11:00 AM	3/4"	205 PSIG	Gas & Water RW .42 @ 86 ⁰
12:00 AM	3/4"	205 PSIG	Gas & Water
1:00 PM	3/4"	200 PSIG	a/a RW .54 @ 86 ⁰
2:00 PM	3/4"	200 PSIG	a/a RW .56 @ 90 ⁰ shut in

8/5/80: Rig up Cable Inc., open well 525 psi shut in tbg. press. well blew down & died, tbg. swabbed, well kicked off @ 2:30 PM, started test at 3:00 PM

8/6/80: Completed 24 hr. test @ 3:00 PM, well stabilized @ 557 MCFD W/27 BWPH against 60 psi. back press. Released rig & water tank.

SAMPLE DESCRIPTIONS

- 6820-6835 Shale, marly lime, as above; Limestone, brown, very finely crystalline, hard, no visible P&P, some slightly argillaceous; Limestone, cream, very fine grained, slightly fossiliferous, slightly argillaceous, very earthy.
- 6835-6850 Sample as above; Marl, very soft, chalky, "dirty" appearance; Limestone, cream, very finely crystalline, slightly fossiliferous, some pieces slightly silty and chalky, no visible P&P; Shale, black, carbonaceous, firm, some pieces siliceous or cherty, hard.
- 6850-6870 Limestone, cream-tan, microcrystalline-cryptocrystalline, massive, some subchalky; Shale, as above; Chert, tan translucent.
- 6870-6880 Limestone, as above, slightly "dirty", argillaceous; Shale, as above; Trace shale, grey-green, silty, soft.
- 6880-6890 Limestone, black shale, as above; Chert, as above.
- 6890-6900 Limestone, as above; Shale, black, grey-green, as above; Chert, as above.
- 6900-6905 Limestone, cream, very fine grained-very finely crystalline, some subchalky, no visible P&P, no show.
- 6905-6910 Limestone, as above, some tan, lithographic; Trace shale, pink, grey-green, varicolored, very soft, calcareous, gummy.
- 6910-6920 Limestone, tan-grey, microcrystalline, hard, dense; Shale, varicolored, soft, as above.
- 6920-6925 Limestone, as above; Shale, as above, predominantly dark red.
- 6925-6935 Limestone, as above; Shale, maroon, grey, grey-green, very soft, calcareous.
- 6935-6950 Predominantly shale, varicolored as above.
- 6950-7000 Shale, varicolored, predominantly grey-green and pink, marly, soft; Limestone, cream-tan-light grey, microcrystalline, silty, slightly fossiliferous, argillaceous, chalky in part.
- 7000-7020 Sample as above.
- 7020-7025 Limestone, as above; Shale, as above, some maroon, fissil, Chalk, cream, earthy, very soft; Abundant chert.
- 7025-7030 Limestone, cream, microcrystalline, subchalky, no visible P&P; Shale, varicolored, as above; Chert, as above.

SAMPLE DESCRIPTIONS

- 7030-7035 Limestone, cream, as above; Limestone, light tan, cryptocrystalline, hard, dense; Shale, as above.
- 7035-7045 Predominantly chalky, marl, as above; Chert, cream-tan, translucent.
- 7045-7060 Chalky, limestone, chert, as above; Shale, varicolored, predominantly dark grey-green, subwaxy, firm.
- 7060-7080 Predominantly limestone, subchalky, as above; Shale, as above.
- 7080-7100 Limestone, as above; Varicolored shale, as above; Limestone, dark brown, cryptocrystalline, very hard, dense, slightly carbonaceous.