

BENSON-MONTIN-GREER DRILLING CORP.

WELL HISTORY - GINTHER #1

790' FNL, 790' FEL, Sec. 13, Twp. 27N, Rge. 13W, San Juan County. Elevation 5828' DF.

- 4- 7-59 Moved in and rigged up rotary. Spudded.
- 4- 8-59 TD 206' RKB. Set 6 joints 189' of 8-5/8" OD 24# J-55 casing at 201' RKB with 150 sacks cement.
- 4- 9-59 Pressured up on casing to 500#. No pressure decrease in 30 minutes.
- 4-20-59 Pulled Core #1 from 5914' to 5945'. Recovered 20'. Core description attached.
- 4-21-59 Pulled Core #2 from 5935' to 5949'. Recovered 14'. Core description attached.
- 4-22-59 Pulled Core #3 from 5986' to 6018'. Recovered 32'. Core description attached.
- 4-23-59 Ran logs. TD 6018'. Set 189 joints 6020' of 5-1/2" OD 17# N-80 casing at 6017' with 350 sacks neat cement, 1/2# flocele per sack.
- 4-24-59 Temperature survey showed top of cement at 4400'.
- 4-28-59 Moved in cable tools. Pressured up on casing to 1000#. No pressure decrease in one hour.
- 4-30-59 TD 6018'. Cleaned out to 6010'. Perforated 5992-6002' with 4 shots per foot. Sandfraced with 78,708 gallons water and 60,000# sand, flushed with 7,308 gallons water. Breakdown pressure with one truck 2600#, broke to 2000#. Maximum treating pressure 4100#, minimum 3800#, average injection rate 58 barrels per minute. Checked total depth and found 1' sand on bottom. Lubricated in Guiberson bridge plug set at 5960'. Could not release setting tool from bridge plug. Pulled line out of top of setting tool. Went in with overshot and jars on 2-3/8" tubing. Found 160' of sand on top of setting tool. Washed to top of setting tool, took hold of setting tool, jarred for 15 minutes. Released from tool and started out of hole.
- 5- 1-59 Ran 4 1/2" OD x 3-7.8" ID wash pipe and circulated to shoulder on setting tool, at which point wash pipe sealed against setting tool, preventing further circulation. Wash pipe took friction hold on setting tool. Pulled 30,000# over weight of tubing to break loose. Pulled wash pipe, went back in with overshot.

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- 5- 2-59 Pulled mast in while jarring on fish.
- 5- 3-59 Moved cable tool rig off location. Moved in rotary. Rigged up. Pulled tubing. Recovered 190 joints, 128 badly bent. Went in hole with impression block, found top of fish at 5941'. Went in hole with washover pipe.
- 5- 4-59 Washed over from 5941' to 5956'. Came out of hole with fish. Pressured up to 5200#. No pressure decrease in 10 minutes.
- 5- 5-59 Perforated 5915-35' with 4 shots per foot. Sandfraced with 94,080 gallons water and 96,500# sand, flushed with 10,908 gallons water. Maximum pressure 4500#, minimum 3800#, average treating pressure 4000#, average injection rate 58 barrels per minute.
- 5- 6-59 Set bridge plug at 5908'. Perforated 5895-5904' with 4 shots per foot. Established communication with lower zone. Ran Guiberson Type WME magnesium plug set at 5880'. Perforated 5862-72' with 4 shots per foot. Sandfraced with 78,750 gallons water and 60,000# sand, flushed with 6,270 gallons water. Maximum pressure 4900#, minimum 3700#, average injection rate 51 barrels per minute. Final pressure on casing 2000#, decreasing in 3 minutes to 1680#.
- 5- 7-59 CP 275#. Ran 2-3/8" EUE tubing. Found top of sand at 5548'. Reverse circulated and cleaned out sand to 5769'. Commenced flowing back frac water.
- 5-10-59 Drilled out Guiberson bridge plugs. Ran 189 joints 5931' of 2-3/8" OD EUE tubing landed at 6002'.

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GINTHER #1

CORE #1 Cored 5914' to 5945'. Cored 21', recovered 20'.

5914 - 5944' Very hard medium fine grey sandstone, fair odor of gas distillate, vertical fractures 5919-20' and 5926-31'.

CORE #2 Cored 5935' to 5949'. Cored 14', recovered 14'.

5935 - 5937½' Fine light grey very hard sandstone with scattered vertical fractures.

5937½ - 5938' Hard black shale, slightly carbonaceous.

5938 - 5943-3/4' Hard grey very fine compact sandstone, very fine carbonaceous laminations, a few vertical fractures.

5943-3/4 - 5949' Hard black sandy shale.

Entire core slight gas bleed.

CORE #3 Cored 5986' to 6018'. Cored 32', recovered 32'.

5986 - 5998½' Grey medium quartz sand, bleeding gas. Good odor throughout.

5998½ - 5999' Hard black pokerchip shale.

5999 - 6000' Coal.

6000 - 6010½' Hard black sandy carbonaceous shale.

6010½ - 6016' Coal, bleeding gas.

6016 - 6018' Black sandy pokerchip shale, carbonaceous, slight bleed of gas.

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