



FIELD Cottonwood Gulch STATE Colorado COUNTY Moffat SEC. 16 T. 8N R. 91W

COMPANY Mountain Fuel Supply Company FARM Cottonwood Gulch Unit WELL NO. 1

LOCATION 660' FNL, 660' FWL ELEV. 7058' Gr., 7069.75' K.B.

DRILLING COMMENCED April 28, 1967 COMPLETED May 18, 1967

RIG RELEASED May 23, 1967 TOTAL DEPTH 6700'

CASING RECORD 13-3/8" landed at 514.08' with 515 sacks cement

TUBING RECORD \_\_\_\_\_

PERFORATIONS \_\_\_\_\_

RECEIVED

JUL - 7 1967

COLO. OIL & GAS CONS. COMM.

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	16		

I. P. GAS Plugged and Abandoned OIL

SANDS \_\_\_\_\_

SHUT-IN SURFACE PRESSURES \_\_\_\_\_

REMARKS Plugs: No. 1 - 6450'-6300' with 46 sacks cement  
No. 2 - 4520'-4370' with 46 sacks cement  
No. 3 - 534'-484' with 41 sacks cement  
No. 4 - 10' plug in surface

FROM TO

WASATCH - SURFACE

Sandstone, clear to frosted, medium- to coarse-grained, angular, unconsolidated, quartzitic; shale, grey to light green, silty, micaceous, some sandy in part, soft, slightly calcareous in part.	520	790
Shale, grey to light green, silty, micaceous, sandy and calcareous in part, soft; quartz sand grains, clear to frosted, medium- to coarse-grained.	790	1094
Ditto; trace of siltstone, green, sandy in part, firm.	1094	1290
Siltstone, as above; shale, as above; trace of shale, varicolored, calcareous in part, soft; trace of pyrite.	1290	1365
Quartz sand grains, unconsolidated, medium- to coarse-grained, angular; siltstone, as above; trace of shale, light green, as above.	1365	1431
Siltstone, as above; shale, as above; trace of shale, varicolored; trace of quartz sand grains.	1431	1470
Quartz sand grains, as above; siltstone, as above; trace of shale, as above.	1470	1545
Siltstone, as above; shale, as above; trace of quartz sand grains; trace of vein quartz with pyrite.	1545	1562
Shale, grey to green to olive, silty, soft; siltstone, as above; trace of quartz sand grains.	1562	2100
Ditto; trace of sandstone, light grey to tan, very fine-grained, calcareous, some green and black grain inclusions; trace of coal.	2100	2110

FORT UNION - 2155 FEET

Shale, grey to green to olive, silty, soft; siltstone, as above.	2110	2170
Ditto; trace of sandstone, as above.	2170	2188
Coal; trace of shale, as above (9 unit gas increase).	2188	2192
Shale, as above; sandstone, tan to white, very fine- to fine-grained, angular to subangular to subrounded, calcareous, black and green grain inclusions, friable in part, porous; siltstone, as above; trace of siltstone, light grey to green, slightly calcareous, soft.	2192	2250

*Handwritten signature*

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 FARM Cottonwood Gulch Unit WELL NO. 1  
 COMPANY Mountain Fuel Supply Company

	<u>FROM</u>	<u>TO</u>
Shale, as above; trace of siltstone, as above.	2250	2270
Ditto; coal stringers.	2270	2290
Shale, as above; siltstone, as above; trace of shale, dark brown to black, carbonaceous, soft.	2290	2360
Shale, as above; siltstone, as above; sandstone, clear to white to tan, very fine- to fine-grained, poorly sorted, angular to subangular to subrounded, calcareous, friable, porous.	2360	2400
Shale, as above; siltstone, as above.	2400	2420
Shale, as above; siltstone, as above; sandstone, as above; trace of coal.	2420	2450
Shale, as above; siltstone, as above; sandstone, as above; coal.	2450	2460
Shale, as above; siltstone, as above; coal.	2460	2500
Shale, as above; siltstone, as above.	2500	2540
Shale, as above; siltstone, as above; sandstone, clear to white, fine- to medium-grained, subangular to angular, calcareous, friable; trace of shale, dark brown to black, carbonaceous, soft.	2540	2590
Shale, as above; siltstone, as above.	2590	2650
Sandstone, quartz sand grains, clear to frosted, unconsolidated, medium- to coarse-grained, subrounded to subangular to angular; some shale, as above.	2650	2690
Sandstone, as above.	2690	2740
Sandstone, as above; sandstone, red quartz grains, medium- to coarse-grained, subangular.	2740	2755
Sandstone, as above; shale, as above; siltstone, tan to buff, calcareous in part, soft.	2755	2770
Shale, as above; siltstone, as above; some shale, light to dark grey, soft, calcareous in part.	2770	2790
Shale, as above; siltstone, as above; sand quartz grains, as above.	2790	2800
Shale, as above; siltstone, as above; sandstone, as above; trace of siltstone, orange to red, sandy in part, soft; trace of shale, dark brown to black, carbonaceous, soft.	2800	2840
Shale, light to dark brown to dark grey, bentonitic, very sticky, soft, silty in part; shale, as above; siltstone, as above.	2840	2890
Shale, brown and grey, as above; shale, green, as above; sandstone, quartz grains, as above, some very fine- to fine-grained; white sandstone, micaceous, silty, very porous, friable; trace of coal; trace of siltstone, as above.	2890	2910
Shale, brown and grey and green, as above; siltstone, as above.	2910	2930
Sandstone, as above, unconsolidated quartz grains and sandstone, white, very fine- to fine-grained, micaceous and silty; shale, as above, brown, grey and green; siltstone, as above.	2930	2970
Sandstone, quartz grains, very fine- to fine-grained, unconsolidated, very friable, porous; siltstone, tan to buff, soft.	2970	3160
Sandstone, as above; siltstone, as above; shale, light brown to tan to grey, bentonitic, soft.	3160	3180
Ditto; shale, green, waxy, soft.	3180	3297
Shale, as above; siltstone, as above.	3297	3302
Sandstone, as above; shale, as above; siltstone, as above.	3302	3336
Coal (24 unit gas increase).	3336	3338
Sandstone, as above; shale, as above; siltstone, as above; trace of coal (15 unit gas increase).	3338	3420
 LANCE - 3405 FEET		
Ditto; sandstone; shale; siltstone, as above.	3420	3535
Sandstone, as above; shale, light to dark grey, bentonitic, soft; siltstone, as above.	3535	3600
Sandstone, as above; trace of sandstone, white to light grey, fine-grained, slightly calcareous, some glauconitic, silty in part, friable, porous; shale, as above; siltstone, as above.	3600	3608

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	FROM	TO
Coal (12 unit gas increase).	3608	3610
Sandstone, as above; shale, as above; siltstone, as above.	3610	3756
Coal (50 unit gas increase).	3756	3757
Sandstone, as above; shale, as above; siltstone, as above.	3757	3798
Coal (140 unit gas increase).	3798	3800
Sandstone, as above; shale, as above; siltstone, as above.	3800	3836
Coal (140 unit gas increase).	3836	3840
Sandstone, as above; shale, as above; siltstone, as above.	3840	3884
Coal (150 unit gas increase).	3884	3890
Sandstone, as above; shale, as above; siltstone, as above.	3890	3980
Shale, grey to green, soft, waxy, slightly bentonitic; siltstone, tan to buff, soft to firm; trace of sandstone, as above.	3980	4070
Shale, as above; siltstone, as above; siltstone, brick red, sandy in part, medium hard.	4070	4080
Shale, as above; siltstone, as above; trace of coal.	4080	4090
Sandstone, tan to white, fine-grained, subangular, friable, porous, calcareous, carbonaceous in part, medium hard; shale, as above; siltstone, as above.	4090	4100
Sandstone, as above; shale, as above; siltstone, brick red, as above.	4100	4107
Coal.	4107	4108
Sandstone, as above; shale, as above; siltstone, as above; trace of coal.	4108	4140
Sandstone, as above; shale, as above; siltstone, as above.	4140	4160
Sandstone, as above; trace of sandstone, grey, fine-grained, silty, porous, friable, medium hard; shale, as above; siltstone, as above.	4160	4175
Coal.	4175	4176
Sandstone, as above, white and grey; shale, as above; siltstone, as above.	4176	4260
Coal.	4260	4262
Sandstone, as above; shale, light to dark grey to black, carbonaceous in part, silty, soft to firm; siltstone, grey to light brown, sandy, firm.	4262	4386
LEWIS - 4320 FEET		
Shale, as above; sandstone, as above; siltstone, as above.	4386	4596
Sandstone, light grey to white, fine-grained, calcareous, rounded, silty in part, friable, porous, carbonaceous in part.	4596	4602
Shale, as above; siltstone, as above.	4602	4606
Sandstone, as above.	4606	4611
Shale, as above; siltstone, as above.	4611	4617
Sandstone, as above.	4617	4622
Shale, as above; siltstone, as above.	4622	4635
Sandstone, as above.	4635	4638
Shale, as above; siltstone, as above.	4638	4642
Sandstone, as above.	4642	4649
Shale, as above; siltstone, as above.	4649	4698
Sandstone, light grey, white, very fine- to fine-grained, well rounded, calcareous, friable, porous, some black grains.	4698	4719
Sandstone, as above; with some shale, as above; trace of siltstone.	4719	4740
Shale, light to medium to dark grey, silty in part, firm; trace of sandstone, as above; trace of coal; trace of siltstone, medium grey, firm.	4740	4790
Shale, as above.	4790	4808
Sandstone, light grey, very fine-grained, subangular, hard to tight.	4808	4817
Shale, as above; trace of siltstone, as above; trace of sandstone, as above.	4817	4970
Shale, medium to dark grey, silty in part, firm.	4970	4980

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	<u>FROM</u>	<u>TO</u>
Shale, as above.	4980	5140
Shale, dark grey, silty in part, firm to soft.	5140	5670
Shale, as above; trace of sandstone, white to light grey, very fine-grained, hard to tight, abundant cavings.	5670	5710
Shale, as above; sandstone, white, fine-grained, subangular, hard to tight.	5710	5730
 MESAVERDE - 6256 FEET		
Shale, as above.	5730	6260
Sandstone, grey to green, very fine-grained, calcareous, hard, tight.	6260	6265
Shale, as above; some sandstone, as above.	6265	6376
Corrected Depth - Top of Mesaverde		
Sandstone, white, fine-grained, calcareous, some dark grains, no fluorescence, subangular.	6376	6387
Shale, as above.	6387	6460
Shale, as above; coal.	6460	6470
Shale, as above.	6470	6506
Coal; some sandstone, white, very fine-grained, calcareous, friable.	6506	6512
Shale, as above; trace of sandstone, as above.	6512	6519
Shale, as above; some sandstone, as above.	6519	6528
Shale, as above; trace of sandstone, as above.	6528	6540
Shale, medium to dark grey, silty in part, firm to soft.	6540	6562
Coal (80 unit gas increase)	6562	6565
Shale, as above.	6565	6587
Sandstone, light grey, very fine- to fine-grained, calcareous, rounded, silty, friable, porous.	6587	6594
Coal (50 unit gas increase).	6594	6596
Sandstone, as above.	6596	6602
Shale, as above; trace of sandstone, as above.	6602	6639
Coal (45 unit gas increase)	6639	6641
Shale, as above.	6641	6667
Coal (80 unit gas increase)	6667	6670
Shale, as above.	6670	

EFW/SSL:kjc  
 6/22/67