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This is CV: see pg 6  
per Robert V.  
1/18/89

*W. Quinn*

GEOLOGICAL WELL REPORT  
M&J OIL COMPANY  
# 13-28 PRICE  
NWSW SECTION 28-T3S-R59W  
ADAMS COUNTY, COLORADO

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# SYNOPSIS OF WELL HISTORY

Spud Date: 6-22-87

Completion Date: 6-29-87

Results: Plugged & Abandoned

Surface Casing: 3 Joints of 8 5/8"x24# Casing set  
at 138 ft. with 100 Sacks of Regular  
Cement and 3% Calcium Chloride

Total Depth: 6220ft. Driller  
6215ft. Log

Elevation: 4967 Ground  
4975 Kelly Bushing

Electric Logs Schlumberger DIL & FDC-GR

Drill Stem Tester Liberty Testers

Drilling Contractor Drake Drilling Company

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## CHRONOLOGICAL WELL HISTORY

- 6-22-87 Spudded well at 3:00 P.M. and drilled 155 ft. of 12 1/4 Surface Hole in 4 1/2 hours. Ran 3 Joints of 8 5/8"x 24# Surface Casing- Set at 138 ft. with 100 sacks Regular Cement and 3% Calcium Chloride Plug Down at 9:15 P.M..
- 6-23-87 Drilled out plug at 2:30 A.M.  
Drilling a 7 7/8 Main Hole  
Drilling at 426ft. at 7:00 A.M.  
Bit Weight 20,000#/ 30,000#, Rotary rpm 180, Pump Pressure 400/600 psi  
Bottom Hole Assembly- Bit Reed HP11-with 3 14/32 Jets  
Drill Collars 14-6 1/4"x 2 1/4"  
Drilling Fluid- Water Wt. 8.4- Vis 28-30
- 6-24-87 Drilling at 3,000 ft. at 7:00 A.M..  
Bit Weight 35,000#, Rotary rpm 180, Pump Pressure 800 psi  
Bottom Hole Assembly- Same  
Drilling Fluid- Water & Native Clays Wt. 8.5-Vis 30
- 6-25-87 Drilling at 4,520 ft. at 7:00 A.M.  
Bit Weight 35,000, Rotary rpm 180, Pump Pressure psi  
Bottom Hole Assembly- Same  
Drilling Fluid - Water & Native Clays wt. 8.6- vis 30/31
- 6-26-87 Drilling at 5,396 ft. at 7:00 A.M.  
Bit Weight 35,000, Rotary rpm 120/180, Pump Pressure 800 psi  
Bottom Hole Assembly- Bit Reed HP11- with 2- 15/32 & 1- 16/32 Jets  
Drill Collars 14-6 1/4"x 2 1/4"  
Drilling Fluid- Water & Native Clays Wt. 8.8- Vis. 32
- 6-27-87 Tripping for Bit at 7:00 A.M.  
Start out of Hole for Bit at 5:00 A.M. @ 6030 ft.  
On Bottom Drilling at 1:30 P.M. @6030 ft.  
Bit Weight 35,000, Rotary rpm 60/80, Pump Pressure 1000 psi  
Bottom Hole Assembly- Bit STC-F-3 - with 3 14/32 Jets  
Drill Collars 14- 6 1/4 x 2 1/4  
Drilling Fluid- Water & Native Clays & Drilling Detergent Wt. 8,9 Vis. 40

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6-28-87 Total Depth 6220 ft. at 7:30 A.M.  
Circulate and clean Hole for Logging to 8:30 A.M.  
Short Trip Pipe 1,000ft.  
Back on Bottom circulating for Logging at 10:30 A.M.  
Circulate 1 1/2 hrs.-Start out of Hole for Logging  
Start Logging at 3:30 P.M.  
Finished Logging at 7:00 P.M.  
Start in Hole with Test Tool at 7:30 P.M.  
On Bottom Testing at 11:00 P.M.

6-29-87 Pulled Test Tool starting at 1:00 A.M.  
Test out at 7:00 A.M.  
Got orders to Plug & Abandon at 9:00 A.M.

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## LITHOLOGY

"D" Sandstone- 6009-6029 (20ft.)

Sandstone very grain to fine grain gray, dense gray clay, matrix, trace to some mica and glauconite, tight, no show, no fluorescence interbedded with dark gray shales.

"J" Sandstone 6066-6093 (27ft.)

Sandstone fine grain trace medium grain, gray, dense clay matrix, no porosity and permeability, scattered trace of fluorescence, no show.

6093-6100 (7ft.)

Sandstone fine grain, light gray, quartaceous good porosity and permeability, greasy appearance in part, scattered fluorescence, no show.

6100-06 (6ft.)

Shale dark gray with siltstone inclusions, tight, no show.

6106-10 (4ft.)

Sandstone fine grain, light gray, quartaceous fine porosity and permeability, scattered fluorescence, no show.

6110-50 (40 ft.)

Sandstone fine grain, light gray, dense clay, matrix, poor porosity and permeability, no show, no fluorescence.

6150-6215 (65ft.)

Sandstone fine grain, light gray, interbedded with dark gray shale, tight to very slight porosity and permeability, no show, no fluorescence.

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DRILL STEM TEST NO. 1  
TD 6215

Test Interval

6088-6108 (Straddle Test)

Open Flow Period

- 90 minutes

Tool opened with a very weak 1/4" blow  
and slowly increased to a 3" blow  
in 60 minutes and remained steady  
throughout the test.

Flow Pressure

- 76 psi to 120 psi

Shut-In Period

- 30 minutes

Shut-In Pressure

- 1256 psi

Hydrostatic Pressure

- 3201 psi

Bottom Hole Temperature - 162° F

Recovered- Drill Pipe - 45 ft. Water cut mud  
185 ft. Mud

Recovered-Sampler

- 1000 cc Water  
1000 cc Mud

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BIT RECORD

Bit No.	Size-	Make-	Type-	Footage	Hours
1 -	12 1/4" -	STC -	DT -	Surface-155 ft. -	4 1/2 hrs.
2 -	7 7/8" -	Reed -	HP-11 -	155-4802 -	51 hrs.
3 -	7 7/8" -	Reed -	HP-11 -	4802-6030 -	30 3/4 hrs.
4 -	7 7/8" -	STC -	F-3 -	6030-6220 -	17 hrs.

MUD DATA

For rapid penetration fresh water and native clays made-up the basic drilling fluid. Weight and solids were controlled with water and frequent jetting of pits. Soap-detergent was used to give the mud a little thixotrophy and lubricity. At 6000 ft. a drilling detergent was used to bring the viscosity, up to 40 seconds; also, prior to reaching total depth, hydrated lime was added to increase the viscosity to 80 seconds and above for logging and testing.

PLUGGING DATA

Plug Number	Interval	Number of Sacks
1	160 ft. to 100 ft. (In & out Base Surface Casing) (@ Surface)	20 Sacks
2	30 ft. to Surface (@ Surface)	10 Sacks

Frank Piro of the Colorado Oil and Gas Commission approved the above plugging procedure.

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# FORMATION TOPS

Niobrara	5182
Ft.Hays	5570
Codell	5602
Carlile	5612
Greenhorn	5682
Brownline	5919
"D" Sand	6009
Total Depth	6220 Driller 6215 Logger
Elevation	4967 Ground 4975 KB

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DRILLING CONTRACTOR DATA

Contractor	Drake Drilling Company
Drawworks	Unit - 15 A
Power	2 Sets Twin 6-71 GMC
Mud Pump	Ellis-Williams Co. (EWCO 15 W 600) 5 1/2"x15"
Mast	Lee C. Moore 126 ft. 280,000# Capacity
Substructure	8'x46'x20'
Drill Collars	6 1/4"xH
Drill Pipe	4 1/2"xH

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# SUMMARY

This test was drilled three locations east and 30 ft. updip from a well that produce over 110,000 barrels of fluid. It was also two locations south and 15 ft. updip from a plugged and abandoned test that log analysis experts have indicated to be productive. The #13-28 Price had show in sand zones, that appear to correlate to the critical zones in the nearby tests; nonetheless, these zones with shows, in the #13-28 Price were not an exact correlation. A prospect or prospects still remain in the area but are smaller than the one M & J drilled.

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