

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0135  
Expires July 31, 1996

5. Lease Serial No.

NM-03605

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

Marron # 42

9. API Well No.

30-045-06312

10. Field and Pool, or Exploratory Area

Blanco Mesaverde

11. County or Parish, State

San Juan, NM

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

M & G Drilling

OGRID 141852

3a. Address

P.O. Box 2406 Farmington, NM 87499

3b. Phone No. (include area code)

505-566-3725

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Unit Letter M, 990' FSL, 990' FWL, Sec. 22, T27N, R08W

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☒ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

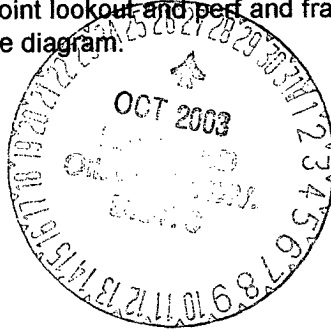
☐ Water Shut-Off

☐ Well Integrity

☒ Other Pay Add

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

We propose to refrac the existing point lookout and perf and frac the meneefee in this mesaverde gas well as per the attached procedure and wellbore diagram.



CONDITIONS OF APPROVAL  
Adhere to previously issued stipulations.

070 Farmington, NM

RECEIVED

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Thomas E. Mullins (EMP)

Title

Engineering Manager

Signature

Date

October 3, 2003

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

/s/ Jim Lovato

Title

Date

OCT 23 2003

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

NMOCD



**M & G DRILLING**  
**MARRON #42 MV**  
**M Sec. 22 – T27N – R8W, San Juan County, New Mexico**  
**990' FSL & 990' FWL**

**POINT LOOKOUT RE-STIM & MENELEE PAYADD**  
**Pertinent Data Sheet 9/30/03**

**\*WELL RECORDS ARE VERY POOR BELOW 4510'**

**Field:** Blanco Mesaverde      **Elevation:** 6005' GL      **TD:** 6610'  
**Spud Date:** 10/2/51      **PBTD:** 4510'  
**Completion Date:** 11/22/51      **API#:** 30-045-06312      **LEASE:** Fed. 03605  
**LAT:** 36.55429      **LONG:** -107.67587

**CASING PROGRAM:**

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>TOC</u>
e12-1/4"	10-3/4"	32# N/A	276'	175 sx	Surface Calc.75%
e8-3/4"	7"	17&26# N/A	4310'	225 sx	3280' Calc.75%
6-1/4"	4-1/2"	11.6# N/A	6610'	200 sx	4884' Calc.75%
			DV@ 4600'	150 sx	4000' – Survey?*

**Tubing Record:**

2-3/8"      4.7# J-55      4464'      **\*TOP OF FISH @ 4512'.**

**Formation Tops:**

Ojo Alamo	e1206'		
Kirtland	1390'	Cliffhouse	3685'
Fruitland	1880'	Point Lookout	4380'
Pictured Cliffs	2120'	Greenhorn	6350'
Lewis	2190'	Dakota	6518'

**Logging Record:** NONE

**Stimulation:** MV open hole 4310'-4545' (original TD). Shot (4545'-3370') w/825 qts nitro on 11/22/51.

**Workover History:** 4/59: Deepen through Dakota. Drill string stuck on bottom. Left fish in hole. Top of fish (below 4-1/2" shoe) @ 6011'. Perf DK @ 6518'-96' w/4 spf & fraced w/20,000# sand in water. Perfed MV @ 4408'-94' w/4 spf & fraced w/40,000# sand in water. Completed as dual w/pkr on 2-3/8" tbg @ 4558'. 7/1961\*: Original pkr @ 4596' was stuck. Cut hole in tbg @ 4460'. Killed well. Cut tbg @ 4512'. Ran new pkr & set @ 4510'. 8/74\*: Sq DK perfs 6518'-96' w/48 sx & left 2 sx in tbg. Plugback to 4510'. Ran 2-3/8" tbg to 4464'.

**Production History:** 1<sup>st</sup> delivery in 11/51. Cum gas = 1,822 MMCF. Current capacity is 70 MCF/D. ISICP (MV)=1140 PSIA, ISICP (DK) = 1425 PSIA

**DIRECTIONS TO WELL:** From Farmington, go west on US 64 through Bloomfield and Blanco. From the SJ River on the east side of Blanco go ½ mile to CR 4450 (Largo road) and turn right (south). Go across 5 mile bridge a total of 16 miles. Turn right just past Onofre Jaquez wash. Go 0.6 miles to location.



**M & G DRILLING  
MARRON #42 MV  
M Sec. 22 – T27N – R8W, San Juan County, New Mexico  
990' FSL & 990' FWL**

**POINT LOOKOUT RE-STIM & MENELEE PAYADD**

**GENERAL**

Notify BLM (Farmington) and NMOCD of the commencement of workover activities. Comply to all company and regulatory safety and environmental requirements. Designate a smoking area on location. L&R Oilfield Services should perform NM One Call, set anchors, and move production facilities, if necessary.

Well facilities in place, include: a 210 bbl oil production tank, a steel small volume pit, a separator, and a 4" EPNG meter run. The well is producing with a wellhead compressor with a suction pressure of 13 psi. Line pressure is about 180 psi.

1. MOL & RU, set pump, blow pit, 4 frac tanks & equipment. Record tbg, csg, & bradenhead pressures.
2. Blow well down. If necessary, kill well w/ water. **All water to be 2% KCL (Key Energy).**
3. ND WH, NU BOP. Repair wellhead & valves as necessary.
4. TOOH w/ 2-3/8" tbg & lay down.
5. Pick-Up 3-7/8" bit, 4-1/2" 11.6" casing scraper, on new 2-3/8" tbg. TIH to 4310'. TOH.
6. Set 4-1/2" composite BP @ 4300'. Use rig pump to load hole.
7. MI wireline & run CBL log to TOC behind 4-1/2" csg & an advanced integrated data processing GSL neutron log 4300'-3000' & 2300'-1800'.
8. Install tree saver & pressure test 4-1/2" csg to 3500 psi. TIH w/3-7/8" bit on 2-3/8" tbg & drill & CO BP @ 4300' w/air/mist & CO to PBTD4510'. TOH.
9. Fill 4-400 bbl frac tanks with 2% KCL water. If necessary, filter all water to 25 microns. Three tanks are for frac & one tank for breakdown water. Usable water required for frac is 925 bbls.

**POINT LOOKOUT:**

10. Bullhead 1500 gal 15% HCL acid ahead of pad. Frac Point Lookout down 4-1/2" csg w/ 77,000 gals of 60Q 20# linear gel N2 foam & 110,000# 20/40 Brady sand. Pump @ 50 BPM. Sand to be tagged w/ 3 RA tracers. Max pressure is 3500 psi. Treat per the following schedule and flush to top perf w/gel water.

<b><u>STAGE</u></b>	<b><u>Foam Vol. (Gals.)</u></b>	<b><u>Gel Vol. (Gals.)</u></b>	<b><u>Sand Vol. (lbs.)</u></b>
PAD	20,000	8,000	0#
0.5 ppg	5,000	2,000	2,500#



**M & G DRILLING**  
**MARRON #42 MV**  
**M Sec. 22 – T27N – R8W, San Juan County, New Mexico**  
**990' FSL & 990' FWL**

1.0 ppg	15,000	6.000	15,000#
1.5 ppg	20,000	8,000	30,000#
2.0 ppg	20,000	8,000	40,000#
2.25 ppg	10,000	4,000	22,500#
Flush (estimated)	<u>(0)</u>	<u>(2,877)</u>	<u>0#</u>
	90,000 gals	36,000 gals	110,000#

11. Rig down tree saver. Using wireline, set 4-1/2" composite BP @ 4380'. Install tree saver & pressure test BP & 4-1/2" csg to 3500 psi.

**MENEFEE:**

- 12.. Fill 4-400 bbl frac tanks with 2% KCL water. If necessary, filter all water to 25 microns. Three tanks are for frac and one tank for breakdown water. Usable water required for frac is 881 bbls.
13. TIH w/ 3-1/8" HSC select fire gun, using GSL log perf Menefee from about 4364'-4060' w/ 20-0.31" holes. Perf w/10 gr SCS 302 jets w/120 degree phasing that should give 0.29" holes & 25" of penetration through both strings of csg.
14. TIH w/ 4-1/2" fullbore pkr on 2-3/8" tbg & set below TOC behind 4-1/2" csg @ about 4050'.
15. RU pump truck. Breakdown & attempt to balloff Menefee w/ 1,000 gallons of 15 % HCl and 50 – 1.3 sp gr 7/8" perf balls. Max. pressure = 4000 psi. TIH to 4370' to knock off balls. TOH w/pkr & 2-3/8" tbg. Install tree saver & prepare to frac.
16. Frac Menefee down 4-1/2" csg w/ 77,000 gals of 60Q 20# linear gel N2 foam & 87,500# 20/40 Brady sand & tail w/ 22,500# 20/40 super LC sand w/activator. Pump @ 50 BPM. Sand to be tagged w/ 3 RA tracers. Max pressure is 3500 psi. Treat per the following schedule and flush to 200' above top perf w/foam.

<b>STAGE</b>	<b>Foam Vol. (Gals.)</b>	<b>Gel Vol. (Gals.)</b>	<b>Sand Vol. (lbs.)</b>
PAD	20,000	8,000	0#
0.5 ppg	5,000	2,000	2,500#
1.0 ppg	15,000	6,000	15,000#
1.5 ppg	20,000	8,000	30,000#
2.0 ppg	20,000	8,000	40,000#
2.25 ppg (Super LC)	10,000	4,000	22,500#
Flush (estimated)	<u>(2,519)</u>	<u>(1008)</u>	<u>0#</u>
	90,000 gals	36,000 gals	110,000#

17. Shut-in well for 2 hours for gel to break. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr. or less, if sand is observed.
18. Rig down isolation tool. TIH w/3-7/8" bit on 2-3/8" tbg & CO Menefee frac w/air/mist to BP @ 4380'.



**M & G DRILLING**  
**MARRON #42 MV**  
**M Sec. 22 – T27N – R8W, San Juan County, New Mexico**  
**990' FSL & 990' FWL**

19. When wellbore is sufficiently clean, drill BP @ 4380' & CO Point Lookout frac w/air/mist to PBTD 4510'.
20. When wellbore is sufficiently clean, TOH and run after frac GR log (4510'-3600').

**SQUEEZE CASING:**

21. Using wireline, set 4-1/2" composite BP @ 1300' & pressure test BP & 4-1/2" csg to 1500 psi.
22. Perf 3-0.45" holes @ 1256' (Top of Ojo Alamo @ 1206'). TIH w/4-1/2" fullbore pkr on 2-3/8" tbg & set @ 1000'. With intermediate valve and bradenhead valve open, establish rate through sq holes & out surface valves. With intermediate valve and bradenhead valve open, pump 250 sx Econolite cmt w/2% ME mixed @ 12.2#/gal (2.06 cf/sx) & tail w/50 sx cl. "B" w/2% CaCl<sub>2</sub>. When cmt is observed at either intermediate valve or bradenhead valve, close that valve & continue pumping. If necessary, hesitate when cmt is below pkr. Release pkr & reverse out at low rate & low pressure. Reset pkr & re-pressure. WOC.
23. TIH w/3-7/8" bit on 2-3/8" tbg & drill cmt, BP @ 1300', & CO to PBTD4510' w/air/mist. TOH.
24. Rabbit in hole w/2-3/8" 4.7# J-55 EUE tbg w/standard seating nipple one joint off bottom and again cleanout to PBTD 4510'. When wellbore is sufficiently clean, land tbg @ 4430'. If necessary, place pump-out plug in SN.
25. NDBOP & NUWH. If necessary, pump out plug & blow well around. Complete as a single MV.

**EQUIPMENT & VENDORS LIST**

ITEM:	VENDOR	PHONE #
RIG:	A-PLUS WELL SERVICES	505-325-2627
PETR. ENGR.:	MIKE PIPPIN	505-327-4573 505-330-0495
M & G ENGR	ROGER ALINGER	505-478-3952
RIG SUPERVISOR:	SYNERGY OPERATING	505-325-5449
FRAC & CMT COMPANY :	AMERICAN ENERGY	505-325-4192
RA SERVICE	PROTECHNICS	505-326-7133
CASED WIRELINE:	BLUE JET	505-325-5584



# MARRON #42 MV

Current  
Mesaverde

(M), Section 22, T-27-N, R-8-W, San Juan County, NM

Today's Date: 10/1/03 PMP  
Spud: 10/2/51  
Comp: 1/22/51  
Elevation: 6005' GL

Ojo Alamo @ e1206'  
Kirtland @ 1390'

Fruitland @ 1880'  
Pictured Cliffs @ 2120'

Cliffhouse @ 3685'

e8-3/4" Hole to 4310'  
Point Lookout @ 4380'

**WELL RECORDS ARE  
VERY POOR BELOW  
4510'!!**

Greenhorn @ 6350'

Dakota @ 6518'

6-1/4" Hole to TD

