

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division

Sundry Notices and Reports on Wells

<p>1. Type of Well GAS</p> <hr/> <p>2. Name of Operator Southland Royalty</p> <hr/> <p>3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700</p> <hr/> <p>4. Location of Well, Footage, Sec., T, R, M 1650'FNL, 990'FEL Sec.15, T-32-N, R-11-W, NMPM, San Juan County</p>	<p>API # (assigned by OCD) 30-045-</p> <p>5. Lease Number Fee</p> <p>6. State Oil&Gas Lease Fee</p> <p>7. Lease Name/Unit Name Mark Maddox</p> <p>8. Well No. 1</p> <p>9. Pool Name or Wildcat Blanco Mesa Verde</p> <p>10. Elevation: 6343'</p>
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Type of Submission	Type of Action	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other - add additional Mesa Verde	

13. Describe Proposed or Completed Operations

We propose to open additional Mesa Verde pay per the attached procedure and wellbore diagram.

RECEIVED
DEC-2, 1992
OIL CON. DIV.
DIST. 3

SIGNATURE *Ernie Busch* (MP) _____ Regulatory Affairs _____ December 1, 1992 _____

(This space for State Use)

Approved by ORIGINAL SIGNED BY ERNIE BUSCH Title DEPUTY OIL & GAS INSPECTOR, DIST. #3 Date DEC 03 1992

MARK MADDOX #1 MV
Procedure To Open Additional MV
H 15 32 11

1. Comply to all NMOCD, BLM, & MOI, rules & regulations. MOL and RU completion rig. Blow well down. NU 6" 900 series BOP with flow tee and stripping head. Test operation of rams. NU blooie line and 2-7/8" relief line.
2. TOH w/168 jts 1-1/2" tbg. Run 4-1/2" csg scraper on 2-3/8" tbg work string to 5310' & TOH. Run 4-1/2" ret BP on wireline & set @ 5310' & top w/2 sx sand.
3. Run CBL from 5310' to top of cmt in 4-1/2" csg & coorelate to 7-4-73 GRN Log.
4. Perf w/3-1/8" HCG w/10 gr Owen 316 charges which have an average penetration in Berea of 14.7" & average perf diameter of 0.28". Perf Menefee & Cliffhouse w/1 spf @ 5297', 92', 81', 47', 34', 18', 5197', 80', 44', 02', 5017', 4970', 64', 54', 44', 34', 22', 06', 4900'. Total of 19 holes.
5. Fill 11 - 400 bbl. frac tanks with 2% KCL water. Filter all water to 25 microns. Ten tanks for frac and one for breakdown. Usable water required for frac is 3482 bbls.
6. TIH w/4-1/2" pkr on 2-3/8" tbg & set @ 4700'. Pressure test tbg to 4500 psi. Breakdown & attempt to balloff Menefee & Cliffhouse perfs w/2500 gal 15% HCL acid & 40 perf balls. Max pressure = 4500 psi. Acid to contain 1 gal/1000 F75N, 10#/1000 L58 (Fe control), and 2 gal/1000 A260 (corrosion inhibitor). Lower pkr to 5300' to knock off balls. TOH.
7. Run 4-1/2" pkr on 2-7/8" NU N-80 rental frac string & set @ 4800'. W/500 psi on back side & recorded, frac Cliffhouse & Menefee with 100,000# 20/40 Arizona sand in 2% KCL 30# gel water @ 30 BPM or greater. All sand to be tagged with 0.40 mCi/1000# Ir-192 tracer. Max. pressure is 5000 psi and estimated treating pressure is 3600 psi. Treat per the following schedule:

<u>Stage</u>	Fluid (Gals.)	Sand Vol. (lbs.)
Pad	45,000	----
0.5 ppg	20,000	10,000
1.0 ppg	60,000	60,000
1.5 ppg	20,000	30,000
<u>Flush</u>	<u>1,234</u>	----
Totals	145,000	100,000#

If well is on a vacuum, underflush by about 25%. TOH.
Treat frac fluid with the following additives per 1000 gallons:

- * 6.8 GAL/1000 J877 (Guar Gell)
- * 1.0 gal. F75 (Surfactant)
- * 2% KCL

MARK MADDOX #1 MV - OPEN ADDITIONAL MV PAY
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8. TOH w/frac string and pkr.
9. TIH w/retrieving tool on 2-3/8" tbg & C.O. w/air/mist to ret BP @ 5310'. Take pitot gauges when possible.
10. When wellbore is sufficiently clean, ret BP @ 5310' & TOH.
11. TIH w/notched collar on 2-3/8" tbg & C.O. w/air/mist to 5450'.
12. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 5450'-4500'.
13. TIH with tested 1-1/2" tbg with standard seating nipple one joint off bottom. Again C.O. to 5450' w/air/mist & land tbg @ 5400'. Take final pitot gauges, water & oil samples, and gas samples.
14. Replace bad valves on wellhead w/rebuilt valves. ND BOP and NU wellhead. Rig down & release rig.

Approved: _____

J. A. Howieson
J. A. Howieson

VENDORS:

Wireline:	Blue Jet	325-5584
Frac & Cmt:	Dowell	325-5096
RA Tagging:	Pro-Technics	326-7133

PMP

Pertinent Data Sheet - MARK MADDOX #1 MV

Location: 1650' FNL 990' FEL SEC. 15 T32N R11W, SAN JUAN COUNTY, N.M.

Field: Blanco Mesaverde

Elevation: 6343' TD: 5490'

10' KB PBTD: 5465'

DP#: 46182

GWI: 11.25% (50% SRC Trust)

NRI: 9.84%

Completed: 11-1-53

Recomplete: 10-15-56

Recomplete: 7-7-73

Initial Potential:

1953: IPF=6,310 MCF/D 1046 psi

1956: AOF=16,790 MCF/D, Q=6102 MCF/D, SIP=810 PSI

1973: AOF=1479 MCF/D, Q=813 MCF/D, SICP=460 PSI

Casing Record:

<u>Hole Size</u>	<u>Csg. Size</u>	<u>Wt. & Grade</u>		<u>Depth Set</u>	<u>Cement</u>	<u>Top/Cmt</u>
13-3/8"	10-3/4"	32.75#	H-40	150'	100 sx	N/A
9"	7"	23 & 20.0#	J-55	4829'	300 sx	3380' @ 75% EFF.
6-1/4"	*4-1/2"	10.5#		5490'	101 sx	<4700' CBL

* Sidetracked out of 7" csg.

Tubing Record: 1-1/2"

5363' 168 jts

Wellfile says pkr @ 4506'??

Formation Tops:

Ojo Alamo	927'
Kirtland	1065'
Fruitland	2600'
Pictured Cliffs	3052'
Cliffhouse (Mass.)	4896'
Menefee	4977'
Point Lookout	5324'

Logging Record: Electric Log, GRN Log '53, CBL & GRN Logs '73.

Stimulation: SOH 4829'-5630' w/2088 qts.

Workover History: 10-15-56: Set 5" 18# N-80 @ 4733'-5462' & cmted w/450 sx cmt. TOC @ 5200'. Shot 6 holes @ 5175'-73' & sq w/250 sx cmt. TOC @ 4733'. Perf Point Lookout @ 5430'-26', 5418'-12', 5396'-92', 5387'-83', 5374'-38', & fraced w/20,000# sand in water -sanded off! Refraced w/20,000# sand in water. Perfed Menefee @ 5308'-81', 5260'-50', 5242'-32', 5227'-12', 5196'-80', 5150'-44', 5107'-03', 5086'-84', 5056'-54', 5025'-09' & fraced w/30,000# sand in water. Perfed Massive Cliffhouse @ 4976'-34', 4926'-20', 4909'-4899' & fraced w/30,000# sand in water.
7-7-73: Set whipstock @ 4655'. Window wet. Sq w/125 sx cmt. Resq w/150 sx cmt. Ran 4-1/2" @ 5490'. Ran CBL & GRN. Perfed Massive Point Lookout @ 5334'-60', 5376'-5430' w/2 spf & fraced w/60,000# sand in water.

Production History: MV 1st Delivery= 5-1-54. Cumulative=3740 MCF & 2427 BO. Capacity =45 MCF/D. Csg pressure = ??? psi. Tbg pressure = ??? psi. Bradenhead = ? psi. Line pressure = ??? psi.

Pipeline: EPNG

PMP

MARK MADDOX #1 MV

UNIT H SECTION 15 T32N R11W
SAN JUAN COUNTY, NEW MEXICO

