

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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U.S.G.S.	
LAND OFFICE	
TRANSPORTER	<input type="checkbox"/> OIL
OPERATOR	<input type="checkbox"/> GAS
PROMOTION OFFICE	

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-104
Revised 10-01-78
Format 08-01-83
Page 1

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I. Operator
Southland Royalty Company

Address
PO Box 4289, Farmington, NM 87499

Reason(s) for filing (Check proper box)

<input type="checkbox"/> New Well	Change in Transporter of:	Other (Please explain)
<input type="checkbox"/> Recompletion	<input type="checkbox"/> Oil	
<input type="checkbox"/> Change in Ownership	<input type="checkbox"/> Casinghead Gas	
	<input checked="" type="checkbox"/> Dry Gas	
	<input type="checkbox"/> Condensate	

If change of ownership give name
and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name Vanderslice	Well No. 2Y	Pool Name, including Formation Blanco Mesa Verde	Kind of Lease State, Federal or Fee	Lease No. SF 078215A
Location Unit Letter <u>G</u> <u>1850</u> Feet From The <u>North</u> Line and <u>1600</u> Feet From The <u>East</u> Line of Section <u>18</u> Township <u>32N</u> Range <u>10W</u> NMPM, <u>San Juan</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS


Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> Meridian Oil Inc.	Address (Give address to which approved copy of this form is to be sent) PO Box 4289, Farmington, NM 87499
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/> Sunterra Gas Gathering Co.	Address (Give address to which approved copy of this form is to be sent) P. O. Box 1899, Bloomfield, NM 87413
If well produces oil or liquids, give location of tanks.	Unit <u>G</u> Sec. <u>18</u> Twp. <u>32N</u> Rng. <u>10W</u> Is gas actually connected? <u> </u> when <u> </u>

If this production is commingled with that from any other lease or pool, give commingling order number:

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.


Drilling Clerk (Signature)

May 15, 1987

(Title)

(Date)

OIL CONSERVATION DIVISION

JUN 22 1987

APPROVED _____, 19 _____

BY  _____

TITLE SUPERVISION DISTRICT # 3

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 1111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiple completed wells.

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well
GAS

2. Name of Operator
Southland Royalty

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M
1850' FNL, 1600' FE Sec. 18, T-32 -N, R-10 -W, NMPM

5. Lease Number
SF-078215A
6. If Indian, All. or
Tribe Name
7. Unit Agreement Name
8. Well Name & Number
Vanderslice #2Y
9. API Well No.
30-045-
10. Field and Pool
Blanco MV
11. County and State
San Juan Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

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 -	

13. Describe Proposed or Completed Operations

It is proposed to open additional MV pay intervals to production in this Mesa Verde gas well per the attached procedure.

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OIL CON. DIV
DIST. 3

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

Signed [Signature] (MP) Title Regulatory Affairs Date 12/7/92

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

CONDITION OF APPROVAL, if any:

APPROVED

DEC 15 1992

AREA MANAGER

VANDERSLICE #2-Y MV
Procedure To Open Additional MV
G 18 32 10

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/161 jts 1-1/2" tbg. Run 3-1/2" csg scraper on 1-1/2" tbg to 5300' & TOH. Run 3-1/2" top drillable BP on wireline & set @ 5300' & top w/1 sx sand. Load hole w/2% KCL water. Replace any bad csg valves w/rebuilt valves.
3. Run CBL & dual spaced neutron logs from 5300' to 4500' & correlate to 9-25-72 GRN log.
4. Using CBL perf 2 sq holes just above top of cement in 3-1/2" csg (about 5250') & 2 sq holes just below bottom of cement from liner top sq job (about 4750').
5. TIH w/3-1/2" cmt ret on 1-1/2" tbg & set 10' above lower sq holes @ 5290'. Pull into test position & pressure test tbg to 3500 psi. Establish rate & circ in lower holes & out upper holes. Preflush w/10 bbls Howco mud flush & cmt w/36 sx Class "B" w/2% CaCl₂. (This is 50% excess cmt). Under flush by 1/2 bbl water. TOH. Do not reverse. WOC at least 18 hours.
6. Install tree saver & pressure test csg to 2500 psi. Remove tree saver.
7. TIH w/2-7/8" bit on 1-1/2" tbg & drill cmt & CO w/water to 5300'. Roll hole w/2% KCL water. TOH. Run CBL from 5300' to 4500'.
8. Using the logs, the Prod Engr Dept will pick Cliffhouse & Menefee perfs at this time. Perf Menefee & Cliffhouse w/30-0.28" holes. Perf below liner lap w/2" GOWINDER 6.4 gr charges which have an average penetration in Berea of 8.39" & average perf diameter of 0.28". Perf in liner lap only w/2-1/8" DYNACAP 22 gr charges @ max standoff which have a 0.28" diameter hole & average penetration in Berea of 22.5".
9. 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 3496 bbls.
10. TIH w/3-1/2" pkr on 1-1/2" tbg & set @ 4600'. Pressure test tbg to 4500 psi. W/500# held & recorded on backside, breakdown & attempt to balloff Menefee & Cliffhouse perfs w/2500 gal 15% HCL acid & 60 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 5280' to knock off balls. TOH.
11. Install 5-1/2" tree saver & frac Cliffhouse & Menefee with 100,000# 20/40 Arizona sand in slick water @ 40 BPM or greater. All sand to be tagged with 0.40 mCi/1000# Ir-192 tracer. Max. pressure is 2500 psi and estimated treating pressure is 2200 psi. Treat per the following

VASALY FEDERAL #1MV - OPEN ADDITIONAL MV PAY
Page 2

schedule:

<u>Stage</u>	<u>Fluid</u> <u>(Gals.)</u>	<u>Sand Vol.</u> <u>(lbs.)</u>
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>1,845</u>	<u>----</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:

- * 1.0 gal. FR26 (Friction Reducer)
- * 2% KCL

12. Remove 5-1/2" tree saver. TIH w/2-7/8" bit on 1-1/2" tbg & C.O. w/air/mist to BP @ 5300'. Take pitot gauges when possible.
13. When wellbore is sufficiently clean, drill BP @ 5300' & C.O. to 5450'. Again take pitot gauges when possible.
14. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 5450'-4500'.
15. TIH with 1-1/2" tbg open ended with standard seating nipple one joint off bottom. Again C.O. to 5450' w/air/mist & land tbg @ 5200'. Take final pitot gauges, water & oil samples, and gas samples.
16. Replace bad valves on wellhead w/rebuilt valves. ND BOP and NU wellhead. Rig down & release rig.

Approved: _____
J. A. Howieson

VENDORS:

Wireline:	Blue Jet	325-5584
Frac & Cmt:	Howco	325-3575
RA Tagging:	Pro-Technics	326-7133
Tree Saver:	Smith	327-7281

PMP

VANDERSLICE #2-Y MV

UNIT G SECTION 18 T32N R10W
SAN JUAN COUNTY, NEW MEXICO

