

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178

OIL CONSERVATION DIVISION
BOX 2088 SANTA FE, NEW MEXICO 87501
RE: Proposed MC Proposed DHC Proposed NSL Proposed SWD Proposed WFX Proposed PMX
Gentlemen: I have examined the application dated January 73 1984
for the South Rylty Rid #19 18-18-28-W 9W Operator Lease and Well No. Unit, S-T-R
and my recommendations are as follows:
yepin
Yours truly,
$\frac{1}{2}$

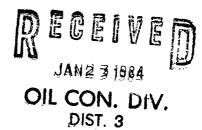


January 18, 1984

Mr. Joe Ramey
New Mexico Dept. of Energy &
Minerals, Oil & Gas Division
P.O. Box 2088
Santa Fe, New Mexico

Re: SRC-Reid #19

Dear Mr. Ramey,



Southland Royalty Co. hereby requests administrative approval of downhole commingling of the Basin Dakota and Blanco Mesaverde zones in the subject well which is located in the NW/NE of Section 18, T28N, R9W, San Juan County, New Mexico.

A workover to correct a packer leak after the well failed the 1983 packer leakage test found a casing leak. The lower zone is currently logged off with drilling mud and will not produce. In a separate sundry, we have proposed remedial work to return the two zones to production.

The necessary costs of the required repairs will make the Mesaverde uneconomical to produce based on Southland's economic parameters. Although the casing leak is above the Mesaverde and separated from the Dakota by a permanent packer, a liberal allocation of only fifty percent of the workover cost was used in the economic evaluation of the Mesaverde. This estimated \$24,000 would payout in 2.1 years with full-time production, but the income is \$8,000 below our return goal and does not meet the corporate rate of return objective. Without commingling, the Mesaverde will be uneconomical to produce and would have to be plugged. The projected recovery of 14500 MCF and 700 BO would be lost.

A proposed allocation formula is shown in Exhibit No. 4. Additional supporting data (production decline curves and production histories) are also attached.

The calcualted BHP's for each zone are shown in Exhibit No. 5 and indicate the lower pressured Mesaverde to be eighty-four per cent of the Dakota. Therefore, there should be no cross flow between zones and the zones should produce together. As mentioned earlier, it is anticipated the additional pressure and volume from the Dakota should assist in maintaining increased production from the Mesaverde by removing the Mesaverde oil.

Southland's land department has verified that all ownership and royalty interests are equal in the Dakota and Mesaverde intervals.

The BLM and all offset operators have been notified by copy of this letter.

Sincerely,

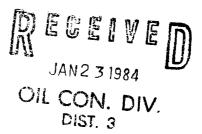
Terry Hobbs

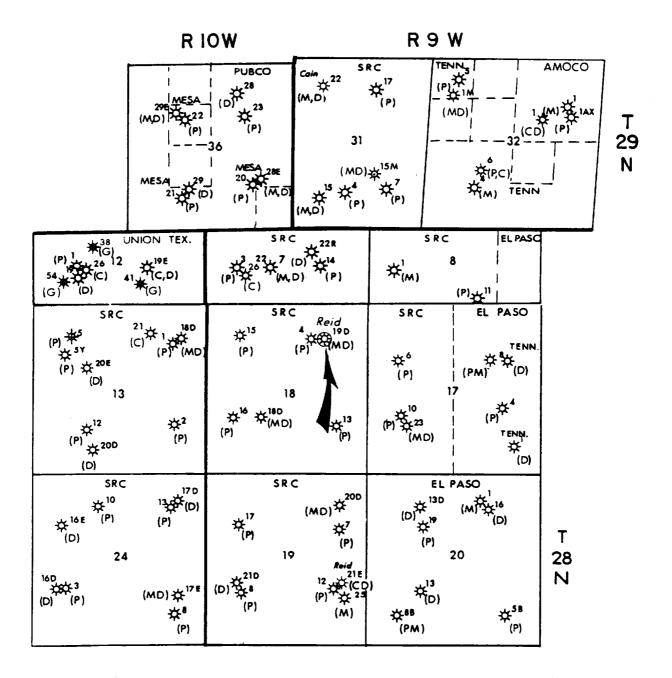
XC: Frank Chavez

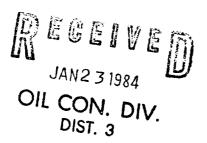
BLM

Offset Opr.

CTH:bgw









Southland Royalty Company FARMINGTON DISTRICT

REQUEST FOR COMMINGLING DOWNHOLE

S.R.C. Reid 19 1030' FNL & 1470' FEL SEC. 18 -T28N - R 9 W SAN JUAN COUNTY NEW MEXICO

BY Terry Hobbs

1"= 3000"

Jan. 15, 1984

NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Dedication Plat

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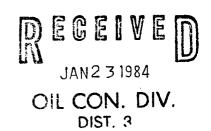
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NITROGEN	0.257	0.0000
METHANE	76.060	0.0000
ETHANE	12.500	3.3450
PROPANE	6.519	1.7940
	0.955	
N-BUTANE	1.521	0.4730
ISUPENTANE	0.491	9.1790
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HEXANE +	0.763	0.3360

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OIL CON. DIV.

(ECETU/074)

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PROPANE	4.141	1.1390	er e
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H-BUTANE	1.007	0.3170	
ISOPENTANE	0.471	0.1720	
N-PENTANE	0.269	0.0970	
HEXANE +	0.507	0.2230	
TOTAL	100.017	5.3570	



(ECSTU/074)

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ALLOCATION OF PRODUCTION

A. Cumulative production through 1982:

	Gas	<u>%</u>	<u>0i1</u>	%
Mesaverde	292628 MCF	19.3	11 745 B0	41.6
Dakota	1220190 MCF	80.7	16496 BO	58.4

B. Cumulative production since Mesaverde completed (1972):

Mesaverde	292628 MCF	38.9	11745 BO	59.0
Dakota	460179 MCF	61.1	8159 BO	41.0

C. Projected production rates from decline curve:

Mesaverde	545 MCFM	19.2	18 BOPM	56.0
Dakota	2300 MCFM	80.8	14 BOPM	44.0

D. Recommended production allocation:

Mesaverde	20%	55%
Dakota	80%	45%

JAN2 3 1984
OIL CON. DIV.
DIST. 3

CALCULATED BOTTOMHOLE PRESSURES

A. Formula:

BHP = SIWHP x e.0000347 G L

Where:

G = gas gravity

L = depth to formation

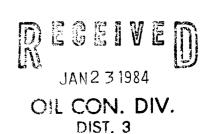
SIWHP = shut in wellhead pressure from latest packer leakage test.

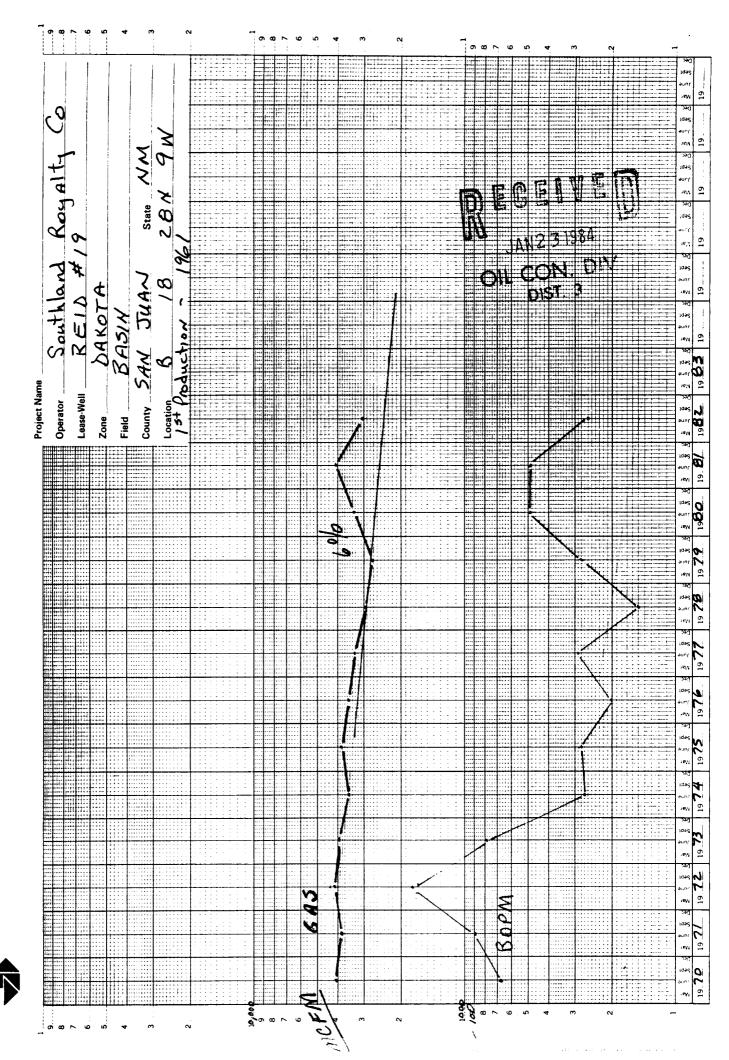
B. Dakota

BHP =
$$585 \times e.0000347 \times .7171 \times 6513$$

= 688 psi

C. Mesaverde





Southland Royalty Company

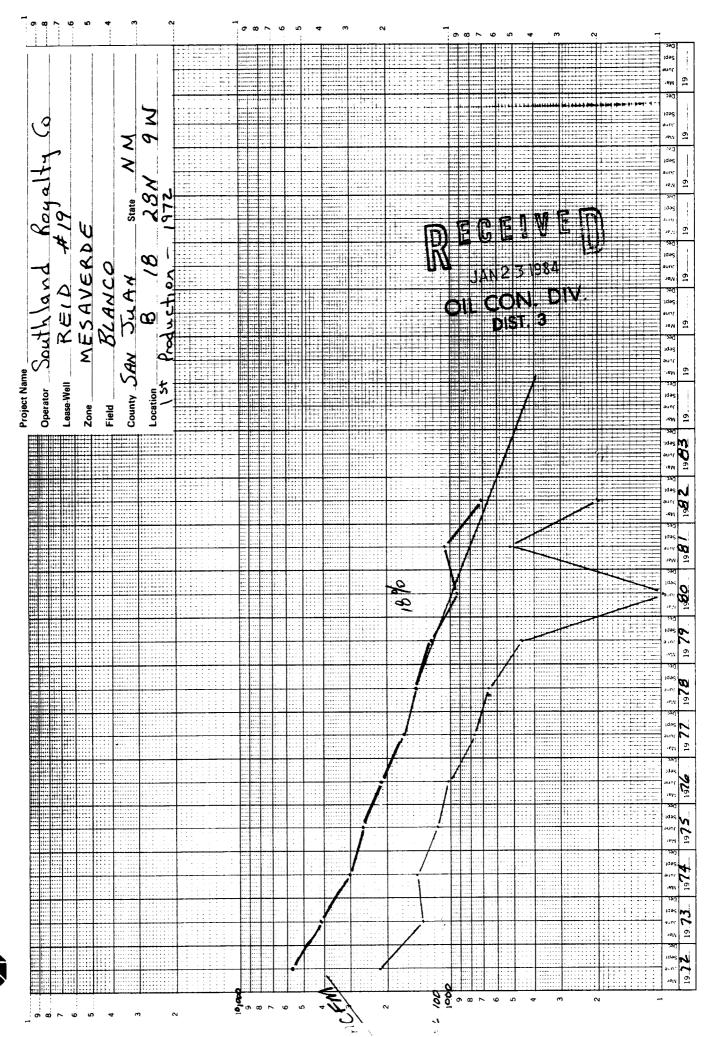
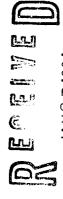




EXHIBIT No. 8	SOUTHLAND ROYALTY COMPANY DWIGHTS PRODUCTION HISTORY REPO
	FIME 08:43
	RUN 01/16/84

E 00:43	DWIGHTS PRODUCTION HISTORY REPORT		
DWIGHTS IDENT, #	30428N09W18B00DK	STATUS	ACT
WELL NAME	REID	STATUS DATE	000000
WELL #	19	LIQ GATHERER	PLA
OPERATOR NAME	SOUTHLAND ROYALTY CO	GAS GATHERER	SUG
OPERATOR #	683355	COMPLETION DATE	10-18-60
FIELD NAME	BASIN DAKOTA (PRORATED GAS) DK	IST GAS FROD	02-61
FLD #	008004974	TOTAL DEPTH	6652
FIELD DISCOVERY DT	00-00-00	UPPER PERF	6432
LOCATION	18B28N 09W	LOWER PERF	8629
STATE ABBREVIATION	TZ.	LIQ GRAVITY	Θ.
STATE LSE CTRL #	12150	GAS GRAVITY	1.00
STATE DISTRICT #	4	GAS-LIQ RATIO	•
COUNTY NAME	SAN JUAN	TEMP GRADIENT	000
COUNTY #	045	N-FACTOR	50.000
API #	0750200	10	
LEASE TYPE	GAS	Pc	



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OIL CON DIV.

EXHIBIT No. 9	SOUTHLAND ROYALTY COMPANY	DWIGHTS PRODUCTION HISTORY REPORT
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DWIGHTS IDENT. #	30428N09W18B00MV	STATUS	ACT
WELL NAME	REID	STATUS DATE	00-00-00
WELL #	61	LIQ GATHERER	PLA
OPERATOR NAME	SOUTHLAND ROYALTY CO	GAS GATHERER	SUG
OPERATOR *	683355	COMPLETION DATE	10-18-71
FIELD NAME	BLANCO MESAVERDE (PRORATED GAS) MV	IST GAS PROD	01-72
FLD #	008007074	TOTAL DEPTH	0
FIELD DISCOVERY DT 00-00-00	999999	UPPER PERF	4338
LOCATION	18B28N 09W	LOWER PERF	4415
STATE ABBREVIATION	W.	LIQ GRAVITY	©,
STATE LSE CTRL \$	12150	GAS GRAVITY	5.00
STATE DISTRICT #	4	GASLIQ RATIO	•
COUNTY NAME	SAN JUAN	TEMP GRADIENT	000
COUNTY #	045	N-FACTOR	20.000
AFI #	0750200	70	
LEASE TYPE	GAS	PC	



JAN2 3 1984 DIV. OIL CON. DIV. DIST. 3

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OIL CON. DIV DIST. 3

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RUN 01/16/84	DWIGHTS IDENT.	1980 OIL GAS WATER OIL WELLS	1981 OIL GAS WATER OIL WELLS	1982 OIL GAS WATER OIL WELLS	1983 DIL GAS WATER DIL WELLS	TOTAL OTLE	

DECEINED

JAN2 3 1984

OIL CON. DIV.

DIST. 3

30428N09W18B00MV DWIGHTS IDENT. 4

FEST DATE CUM TO TEST 09-25-72 53147 68-01-74 1938247 68-01-74 1938247 68-01-74 239334

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WATER

BBLS/DAY 1

DECEIVE

JAN2 3 1984
OIL CON. DIV.
DIST. 3

January 18, 1984

Southland Royalty Company

RECEIVED

JAN 2 3 1984

OIL CON. DIV.

Mr. Joe Ramey
New Mexico Dept. of Energy &
 Minerals, Oil & Gas Division
P.O. Box 2088
Santa Fe, New Mexico

Re: SRC-Reid #19

Dear Mr. Ramey.

Southland Royalty Co. hereby requests administrative approval of downhole commingling of the Basin Dakota and Blanco Mesaverde zones in the subject well which is located in the NW/NE of Section 18, T28N, R9W, San Juan County, New Mexico.

A workover to correct a packer leak after the well failed the 1983 packer leakage test found a casing leak. The lower zone is currently logged off with drilling mud and will not produce. In a separate sundry, we have proposed remedial work to return the two zones to production.

The necessary costs of the required repairs will make the Mesaverde uneconomical to produce based on Southland's economic parameters. Although the casing leak is above the Mesaverde and separated from the Dakota by a permanent packer, a liberal allocation of only fifty percent of the workover cost was used in the economic evaluation of the Mesaverde. This estimated \$24,000 would payout in 2.1 years with full-time production, but the income is \$8,000 below our return goal and does not meet the corporate rate of return objective. Without commingling, the Mesaverde will be uneconomical to produce and would have to be plugged. The projected recovery of 14500 MCF and 700 80 would be lost.

CERTIFIED MAIL

Southland Royalty Company

January 18, 1984

Mr. Joe Ramey
New Mexico Dept. of Energy &
Minerals, Oil & Gas Division
P.O. Box 2088
Santa Fe, New Mexico

Re: SRC-Reid #19

Dear Mr. Ramey,



OIL CON. DIV.

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A proposed allocation formula is shown in Exhibit No. 4. Additional supporting data (production decline curves and production histories) are also attached.

The calcualted BHP's for each zone are shown in Exhibit No. 5 and indicate the lower pressured Mesaverde to be eighty-four per cent of the Dakota. Therefore, there should be no cross flow between zones and the zones should produce together. As mentioned earlier, it is anticipated the additional pressure and volume from the Dakota should assist in maintaining increased production from the Mesaverde by removing the Mesaverde oil.

Southland's land department has verified that all ownership and royalty interests are equal in the Dakota and Mesaverde intervals.

The BLM and all offset operators have been notified by copy of this letter.

Sincerely,

C. Terry Hobbs

DEGETYED

JAN2 3 1984

OIL CON. DIV

XC: Frank Chavez

BLM

Offset Opr.

CTH:bgw

WAIVER

Ву

Mesa Petroleum hereby waives objection to Southland Royalty Company's application for downhole commingle for their Reid #19 as proposed above.

CERTIFIED MAIL

Southland Royalty Company

January 18, 1984

Mr. Joe Ramey
New Mexico Dept. of Energy &
Minerals, Oil & Gas Division
P.O. Box 2088
Santa Fe, New Mexico

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The BLM and all offset operators have been notified by copy of this letter.

Sincerely,

Terry Hobbs

RECEIVED

OIL CON. DIV.

XC: Frank Chavez BLM

Offset Opr.

CTH:bgw

WAIVER

El Paso Natural Gas Co. hereby waives objection to Southland Royalty Company's application for downhole commingle for their Reid #19 as proposed above.

CERTIFIED MAIL

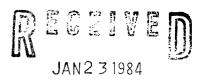
Southland Royalty Company

January 18, 1984

Mr. Joe Ramey
New Mexico Dept. of Energy &
Minerals, Oil & Gas Division
P.O. Box 2088
Santa Fe, New Mexico

Re: SRC-Reid #19

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OIL CON. DIV.

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The BLM and all offset operators have been notified by copy of this letter.

Sincerely.

Terry Hobbs

EGETYED JAN231984

OIL CON. DIV.

XC: Frank Chavez

BLM

Offset Opr.

CTH: baw

WAIVER

Union of Texas Petroleum hereby waives objection to Southland Royalty Company's application for downhole commingle for their Reid #19 as proposed above.