

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 4-17-80	
Company Southland Royalty Co.				Connection Southern Union Gathering			
Pool Basin				Formation Dakota		Unit	
Completion Date 4-10-80		Total Depth 6703'		Plug Back TD 6621'		Elevation 5746' GR	
Farm or Lease Name Hare							
Csg. Size 5.500		Wt. 15.5#		d 4.892		Set At 6703'	
Thq. Size 2.0625		Wt. 3.25#		d 1.750		Set At 6687'	
Perforations: From To				Perforations: From 6569' To 6690'			
Well No. #19E				Unit Sec. Twp. Rge. C 23 29N 10W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Multiple						Packer Set At ---	
Producing Thru Tubing		Reservoir Temp. *F 8		Mean Annual Temp. *F ---		Baro. Press. - P _g 12.2	
State New Mexico							
L		H		G _g .700		% CO ₂ % N ₂ % H ₂ S	
Prover		Meter Run		Taps			

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. *F	Press. p.s.i.g.	Temp. *F	Press. p.s.i.g.	
1.	2" X 3/4"						964			
2.							62			
3.							32			
4.							22			
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		34.2	1.0000	.9258	1.0000	391
2.							
3.							
4.							
5.							

NO.	P _t	Temp. *R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/sbl. A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. Specific Gravity Separator Gas _____ Specific Gravity Flowing Fluid _____ Critical Pressure _____ P.S.I.A. P.S.I.A. Critical Temperature _____ R	
1						
2.						
3.						
4.						
5.						

P _c 976.2 P _c ² 952966.4		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0012$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0009$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1		34.2	1169.6	951796.8	
2					
3					
4					
5					

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 391$

$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0009$

Absolute Open Flow 391 Mcfd @ 15.025		Angle of Slope θ		Slope, n .75	
Remarks:					

Approved By Commission:	Conducted By: Dean Lingo	Calculated By: James Smith	Checked By:
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LTR



Job separation sheet



Southland Royalty Company

May 5, 1980

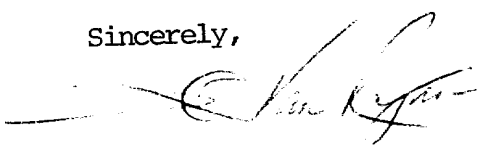
Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM 87410

Gentlemen:

The following is the deviation record for Southland Royalty Company's Hare #19E, a Basin Dakota/Blanco Mesa Verde well, located in Section 23, T29N, R10W, San Juan County, New Mexico.

<u>Depth</u>	<u>Deviation</u>	<u>Depth</u>	<u>Deviation</u>
235'	1/2°	3468	1 1/4°
735'	1/2°	3724'	1 1/4°
1225'	3/4°	4692'	3/4°
1685'	3/4°	5198'	1°
2186'	1°	5448'	1 1/4°
2623'	1°	5936'	1 1/4°
3240'	3/4°	6348'	1 3/4°

Sincerely,


L. O. Van Ryan
District Production Manager

LOVR/ke



SEAL

STATE OF NEW MEXICO
COUNTY OF SAN JUAN

The foregoing instrument was acknowledged before me this 5th day of May, 1980, by L. O. Van Ryan of Southland Royalty Company, on behalf of said Company.

My Commission Expires: 11-20-82

NOTARY BOND FILED WITH SECRETARY OF STATE

DONNA F. GATTIS
NOTARY PUBLIC-NEW MEXICO