

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

Form O-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 1-31-80	
Company Southland Royalty Company				Connection Southern Union Gathering		
Pool Basin				Formation Dakota		Unit
Completion Date 1-24-80		Total Depth 7590'		Plug Back TD 7547'		Elevation 6229'
Farm or Lease Name Harper						Well No. #2E
Ggs. Size 7.000 4.500	Wt. 23# 10.5 & 11.6	d 6.366 4.052	Set At 4989' 4793'-7577'	Perforations: From To		
Tq. Size 2.375	Wt. 4.7#	d 1.995	Set At 7522'	Perforations: From 7344' To 7526'		Unit Sec. Twp. Rge. H 14 - 31N - 12W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 7250'		County San Juan
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F 12.2		State New Mexico
L	H	Gg .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.	
SI							1260		1260	
1.	2" X 3/4"						147		666	1 Hour
2.							125		558	2 Hours
3.							107		509	3 Hours
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		119.2	1.0000	.9258	1.0000	1365
2.							
3.							
4.							
5.							

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

NO.	P _t ²	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2017$	(2) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.147$
1		521.2	271649.4	1346843.4		
2						
3						
4						
5						

Absolute Open Flow 1567 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

Approved By Commission: <u>S.C.</u>	Conducted By: Mick Ferrari	Calculated By: James Smith	Checked By: <u>[Signature]</u>
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