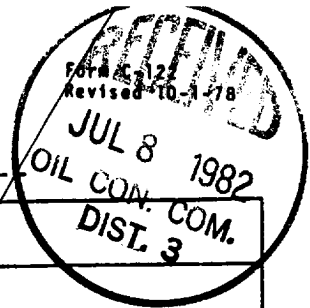


OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501



MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 6-19-82	
Company Southland Royalty Company		Connection Southern Union Gathering	
Pool Basin		Formation Dakota	
Completion Date 6-15-82		Total Depth 6303'	Plug Back TD 6258'
		Elevation 5423' GR	
Farm or Lease Name Sategna		Well No. 2-E	
Csq. Size 4.500	Wt. 10.50#	d 4.052	Set At 6303'
Perforations: From _____ To _____		Unit 21	
Thg. Size 2.375		Wt. 4.7#	d 1.995
Set At 6209'		Perforations: From 6041' To 6242'	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At -----	
Producing Thru Tubing		Baro. Press. - P _a 12.2	
Reservoir Temp. °F #		Mean Annual Temp. °F	
L		H	G _g
		.700	
% CO ₂		% N ₂	
% H ₂ S		Prover	
Meter Run		Taps	
Country San Juan		State New Mexico	

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.	Temp. °F	Duration of Flow
SI							1272		1269		
1.	2"	X	3/4"				128		594		1 hr
2.							91		488		2 hrs
3.							73		439		3 hrs
4.											
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		85.2	1.0000	.9258	1.0000	975
2.							
3.							
4.							
5.							

NO.	P _r	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. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 1284.2	P _c ² 1649169.6					
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1408$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1039$
1		451.2	203581.4	1445588.2		
2						
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1076$

Absolute Open Flow	1076	Mcfd @ 15.025	Angle of Slope ⊕ _____	Slope, n .75
Remarks: _____				
Approved By Division	Conducted By: Kelly Maxwell	Calculated By: James Smith	Checked By: R. E. Fielder	