

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 Dec 1,75	
Company Skelly Oil Company				Connection Not Connected		
Pool Otero				Formation Chaera		Unit
Completion Date Nov 21,75		Total Depth 7395		Plug Back TD 7319		Elevation 6702
Csg. Size 5.500		Wt. 17.0	d 4.767	Set At 7319	Perforations: From 3688 To 3708	
Tbg. Size 2.375		Wt. 4.7	d 1.995	Set At 3688	Perforations: From Open To Ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas					Packer Set At -	
Producing Thru Tubing		Reservoir Temp. °F 109 @ 3670		Mean Annual Temp. °F		Baro. Press. - P _a
County Rio Arriba		State New Mexico				
L 3688	H 3688	Gg .660	% CO ₂	% N ₂	% H ₂ S	Prover 2.000
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.	Temp. °F	
SI							467		469		SI 168hr
1.	4	X	.750				60	60	137		1
2.	4	X	.750				48	60	114		1
3.	4	X	.750				45	60	110		1
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	11.00		72	1.000	1.231	1.000	975
2	11.00		60	1.000	1.231	1.000	812
3	11.00		57	1.000	1.231	1.000	772
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 479	P _c ² 229441		
NO.	P _t ²	P _w	P _w ²
1			
2			
3	3249	122	14884
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.0694}{1.0694 - 0.0155} = 1.0694$$

$$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 812$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.0516}{1.0516 - 0.0155} = 1.0516$$

Absolute Open Flow 812 Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .75
Remarks: _____		

Approved By Commission:	Conducted By: Paul D. Berhost	Calculated By: Paul D. Berhost	Checked By:
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