

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 9-23-75		061 1 19/5	
Company Skelly Oil Company		Connection Pending		O. C. C.	
Pool Sand Dunes		Formation Morrow Gas		Unit ARTERIA, OFFICE	
Completion Date 4-10-75		Total Depth 15,714'		Plug Back TD 15,006'	
Elevation 3505 GL		Farm or Lease Name Todd 25 Federal			
Csq. Size Liner 4-1/2	Wt. 13.5	d 3.920	Set At 12,182'	Perforations: From 14,592' To 14,841'	
Thq. Size 2-3/8	Wt. 4.7	d 1.995	Set At 14,400'	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 14,400'	
Producing Thru Tubing		Reservoir Temp. *F @		Mean Annual Temp. *F	
Baro. Press. - P _a		County Eddy		State New Mexico	
L 14717	H 14717	Gg .590	% CO ₂ 1.16	% N ₂ 1.03	% H ₂ S -
Prover -		Meter Run 3		Taps Flange	

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										
1.	3		2	14	33"	64	111	84	Packer	
2.	3		2	14	30"	57	227	86		
3.	3		2	13	28"	55	371	84		
4.	3		2	12	24"	52	531	79		
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	21.3144	30.0	27.2	.9962	1.302	1.002	830
2	21.3144	28.6	27.2	1.0029	1.302	1.002	797
3	21.3144	27.1	26.2	1.0048	1.302	1.002	757
4	21.3144	24.6	25.2	1.0078	1.302	1.002	689
5.							

NO.	P _t	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.04	524	1.51	.996	A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.	.04	517	1.49	.996	Specific Gravity Separator Gas	.590
3.	.04	515	1.48	.996	Specific Gravity Flowing Fluid	XXXXXX
4.	.04	512	1.47	.996	Critical Pressure	675 P.S.I.A.
5.					Critical Temperature	342 R

P _c 1838.2 P _c ² 3379.0				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.01$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.01$	
NO	P _t	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 842$		
1		218.7	47.8	3331			
2		295.7	87.5	3292			
3		416.9	173.8	3205			
4		563.3	317.3	3062			
5							

Absolute Open Flow	842	Mcf/d @ 15.025	Angle of Slope @	45.0	Slope, n	1.000
Remarks:						
Approved By Commission:		Conducted By: Joe Banks		Calculated By: Jerrel Marburger		Checked By: