

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7-24-69	
Company SKELLY OIL CO.			Connection 7-2-1-196.9		
Pool Held-geared			Formation ATOP		Unit —
Completion Date 7-25-69		Total Depth 2,292.6'	Plug Back TD 15,640'	Elevation 3153.66 3178.125	Farm or Lease Name MEXICO FEL. "P"
Csg. Size 7 5/8"	Wt. 39	d 6.625	Set At 15,105	Perforations: From 15565 To 15616	Well No. 1
Tub. Size 2 7/8"	Wt. 9.5	d 2.195	Set At 15400	Perforations: From OPEN To ENDED	Unit Sec. Twp. Rge. F 21 26S 30E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 15400	County LEA
Producing Thru TUBING		Reservoir Temp. °F 190	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2	State NEW MEXICO
L 15565	H 15565	G _g 0.602	% CO ₂ 0.68	% N ₂ 0.64	% H ₂ S 0
			Prover —	Meter Run 4"	Taps FLANGE

FLOW DATA						TUBING DATA		PACKER DATA		Duration	
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	Flow
SI	4"		2.25				8800		PKR.		424.7
1.	4"			1062.9	8.405"	94	8800	81			2 HRS.
2.	4"			1065.5	16.82"	77	8620	81			1 HRS.
3.	4"			1070.6	28.125"	56	8150	80			2 HRS.
4.	4"			1075.7	45.125"	44	7750	80			2 HRS.
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	25.64	95.12	1076.1	1.145	1.289	1.072	141.8
2	"	134.72	1078.7	0.9831	1.289	1.072	172.7
3	"	174.61	1083.8	1.004	1.289	1.072	172.2
4	"	221.70	1088.9	1.016	1.289	1.105	201.1
5.							

NO.	P _t	T _h Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	1.60	554	1.54	1.570	162.328	50.2	0.602	XXXXXX	673	355
2.	1.60	538	1.52	1.857						
3.	1.61	516	1.45	1.931						
4.	1.63	504	1.42	1.914						
5.										

P _c 9043.2 P _c ² 81719.5				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 13.100$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.420$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²			
1	77677.5		78159.1	3420.4			
2	74532.1		75536.6	6749.9			
3	65824.0		67570.1	14209.4			
4	60867.3		63117.0	18660.5			
5							

Absolute Open Flow 16,116 Mcfd @ 14.025				Angle of Slope 0		Slope, n 0.75	
Remarks:							
Approved by Commission: <i>[Signature]</i> Conducted By: Calculated By: Checked By:							