

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

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 4-25-66	
Company Tom Schneider				Connection None		
Pool Jalmat				Formation Yates		Unit
Completion Date April 25, 1966		Total Depth 3,299		Plug Back TD		Elevation
Well No. 1		Form or Lease Name State				
Log Size 5 7/8"	Wt. 25.5	Set At 4,500	3899	Perforations: From 3080 To 3167		Well No.
2"	4.7	1,995	3050	Perforations: From Open To End		Unit Sec. Twp. R. 0 16 23 36
Type Well - Single - Driftwood - C.C. or G.O. Multiple Single				Packer Set At None		County Lea
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F 13.2		State New Mexico
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover Meter Run Taps X

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							270	72	272		72
1.	2" x .500		5#			63	201	65	233		1 Hour
2.	2" x .500		8#			69	135	68	228		1 Hour
3.	2" x .500		10#			67	78	64	222		1 Hour
4.	2" x .500		12#			62	60	64	218		1 Hour
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	4.279		18.2	.9971	1.240	Neg.	96.29
2	4.279		21.2	.9915	1.240	Neg.	111.5
3	4.279		23.2	.9933	1.240	Neg.	122.3
4	4.279		25.2	.9981	1.240	Neg.	133.4
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Dry Gas _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Dry _____ Deg.
2.					Specific Gravity Separator Gas .650 (Assumed) 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 205.2	P _c ² 81.3				
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	
1	45.9	246.2	60.6	20.7	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{2.924}{2.924 - 20.7} = 2.924$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{2.924}{2.924 - 20.7}$ $ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 390$
2	22.3	241.2	58.2	23.1	
3	8.3	235.2	55.3	26.0	
4	5.4	231.2	53.5	27.8	
5					

Absolute Open Flow	390	Mcf/d @ 15.025	Angle of Slope θ	45	Slope, n	1.000
Remarks: Wellhead potential = 140 MCF/Dav with a slope of 1.000						

Approved By Commission:	Conducted By: J. B. Murray	Calculated By: J. E. Murray	Checked By: <i>[Signature]</i>
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ILLEGIBLE