

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-21-74		APR 1 - 1974	
Company David Fasken				Connection None		O. C. C. ARTESIA, OFFICE	
Pool Indian Basin <i>Morrow</i>				Formation Morrow		Unit	
Completion Date 3-18-74		Total Depth 9700		Plug Back TD 9588		Elevation 3637 KB	
Csg. Size 4 1/2	Wt. 11.6	d 4.000	Set At 9696	Perforations: From 9321 To 9558		Well No. 1	
Tbg. Size 2 7/8	Wt. 6.50	d 2.441	Set At 9073	Perforations: From To		Unit Sec. Twp. Rge. D 32 20S 25E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At 9073		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 168 @ 9050		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2	
State New Mexico							
L 9337	H 9337	Gg 0.610	% CO ₂	% N ₂	% H ₂ S	Prover Pos. Cks.	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	Positive Choke			2973			2973				
1.	2"	X	1/8	2946		67	2946	67			30 min.
2.	2"	X	10/64	2921		71	2921	71			30 min.
3.	2"	X	13/64	2849		73	2849	73			30 min.
4.	2"	X	16/64	2775		76	2775	76			30 min.
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	0.2618		2959.2	0.9933	1.280	1.139	1121.9
2	0.4173		2934.2	0.9896	1.280	1.137	1763.5
3	0.7208		2862.2	0.9877	1.280	1.139	2970.8
4	1.1120		2788.2	0.9850	1.280	1.137	4444.6
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Trace	Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons <td>Trace <td>Deg.</td> </td>	Trace <td>Deg.</td>	Deg.
2	Used Simplified				Specific Gravity Separator Gas	0.610	X X X X X X X X
3	Supercompressibility Tables				Specific Gravity Flowing Fluid	X X X X X	
4					Critical Pressure	671	P.S.I.A.
5					Critical Temperature	362	R

NO.	P _t ²	P _s ²	P _s ²	P _{f2} -P _s ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1		3657.2	13375	235		
2		3628.2	13164	446		
3		3564.2	12704	906		
4		3470.2	12042	1568		
5						

Absolute Open Flow		22,300	Mcf/d @ 15.025	Angle of Slope	530 28'	Slope, n	0.7408
Remarks: BHP measured with Amerada RPG-3 gauge.							
Approved By Commission:		Conducted By: Teffteller, Inc.		Calculated By: F. Tefteller		Checked By:	