

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

Form C-122
Revised 9-1-65

NOV 10 1980

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-24-80			
Company David Fasken ✓				Connection Unconnected			
Pool Avalon				Formation Morrow		Unit	
Completion Date 8-30-80		Total Depth 11360'		Plug Back TD 11297'		Elevation 3243 KB	
Farm or Lease Name Maralo Federal							
Csg. Size 4 1/2	Wt. 10.50	d 4.052	Set At 11360	Perforations: From 10932 To 10942		Well No. 1	
Tbg. Size 2 3/8	Wt. 4.70	d 1.995	Set At 10030'	Perforations: From To		Unit Soc. Twp. Rge. J 35/20-S/27-E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10030'		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 145 @ 10887		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State New Mexico							
L 10937	H 10937	G _g 0.600	% CO ₂	% N ₂	% H ₂ S	Prover Pos.ck.	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	24 3/4 hours			3198			3198		Pkr.		
1.	2" X 5/64"			3015		56	3015	56			60 min.
2.	2" X 6/64"			2830		57	2830	57			60 min.
3.	2" X 8/64"			2406		60	2406	60			60 min.
4.	2" X 10/64"			2113		60	2113	60			60 min.
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	0.0966		3028.2	1.004	1.291	1.149	435.65
2	0.1418		2843.2	1.003	1.291	1.157	604.01
3	0.2618		2419.2	1.000	1.291	1.162	950.11
4	0.4173		2126.2	1.000	1.291	1.161	1329.88
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.	4.51	516	1.44	0.757	A.P.I. Gravity of Liquid Hydrocarbons	None	Deq.
2.	4.24	517	1.44	0.747	Specific Gravity Separator Gas	0.600	X X X X X X X X
3.	3.61	520	1.45	0.740	Specific Gravity Flowing Fluid	X X X X X	
4.	3.17	520	1.45	0.742	Critical Pressure	671	P.S.I.A.
5.					Critical Temperature	358	R

P _c 4138.2 P _c ² 17125						
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.911059$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.685741$
1		3912.2	15305	1820		
2		3709.2	13758	3367		
3		3186.2	10152	6973		
4		2857.2	8164	8961		
5						

Absolute Open Flow 2241.834 Mcfd @ 15.025		Angle of Slope @ 51.12°	Slope, n 0.806299
Remarks: BHP measured with Amerada RPG-3 gauge, Serial number 47616, 0-6000 psig.			
Approved By Commission:	Conducted By: Tefteller, Inc.	Calculated By: F.P. Tefteller	Checked By: