

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

015F
 Form G-122
 Revised 9-1-77

Type Test ☒ Initial ☐ Special		SPUD DATE: N/A	
Company Joe Don Cook		None	
Test Shugart Farm, U. S. GEOLOGICAL SURVEY		Formation Morrow	
Completion Date 5-6-80		Play Back To 12200	
Well No. 2		Unit E	
Casing Size 4 1/2		Perforations From 11848 To 11998	
Tubing Size 2 3/8		Perforations From 11812 To 11998	
Type Well - Single - Production - G.G. or G.O. Multiple Single		Packer Set At 11812	
Producing Thru Tubing		Reservoir Temp. °F 145 @ 12250	
Mean Annual Temp. °F 13.2		State New Mexico	
L 11812	H 11812	Gg .671	% CO ₂ .55
% N ₂ .77		% 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.		Temp. °F
51							3629				72 hrs.
1.	3 x	1.250		390	3	84	2109				1 hr.
2.	3 x	1.250		390	6	78	1497				1 hr.
3.	3 x	1.250		390	9	80	900				1 hr.
4.	3 x	1.250		380	4	88	444				1 hr.
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, Mcd
1	7.577	34.78	403.2	.9777	1.221	1.039	327
2	7.577	49.19	403.2	.9831	1.221	1.040	465
3	7.577	60.24	403.2	.9813	1.221	1.040	569
4	7.577	39.66	393.2	.9741	1.221	1.038	371
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/Lbl.
1.	.60	544	1.42	.926	13.217	
2.	.60	538	1.41	.925	51.23 @ 60	
3.	.60	540	1.41	.925		
4.	.59	548	1.43	.929		
5.						

NO.	P _t	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n =$
1		2123.0	4507.3	8758.3	1.068	1.068
2		1512.3	2287.2	10978.4		
3		919.6	845.7	12419.9		
4		464.1	215.4	13050.2		
5						

Absolute Open Flow 608		Mcd @ 15.025		Angle of Slope 45		Slope, n 1.00	
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Remarks: **5.46 Bbls. of condensate during test. Point alignment too flat; a slope of 45 was drawn through high rate of flow.**

Approved by Commission:	Conducted By:	Calculated By:	Checked By:
		Reggie Reston	