

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

Form C-122
Revised 9-1-65

☒ Initial ☐ Annual ☐ Special				Test Date 9-12-80	
Owner JAKE L. HAMON				Production TO AIR	
Location OSUDO				Unit MORROW	
Test Date 9-12-80		Total Depth 11,480		Elevation 3637 GL	
Sp. Grav. 5 1/2	Wt. 17.00	d 4.892	Set At 10,975	Perforations: From 11,336 To 11,446	
Sp. Size 2 3/8	Wt. 4,700	d 1.995	Set At 10,542	Perforations: From OPEN To END	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 10,542	
Producing Thru TUBING		Reservoir Temp. °F 187° @ 11,336		Mean Annual Temp. °F 60°	
L 11,936		H 11,936		Baro. Press. - P _a 13.2	
G _g .606		% CO ₂ .338		% H ₂ S -0-	
Prover 4"		Meter Run 4"		State NEW MEXICO	

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
1	4 X 2.00			385	7	76	5417				24 Hours
2	4 X 2.00			395	19	67	3400				1 Hour
3	4 X 2.00			420	35	70	2162				1 Hour
4	4 X 2.00			365	87	60	1770				1 Hour
5											1 Hour

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	19.81	52.80	398.2	.9850	1.285	1.031	1365
2	19.81	88.07	408.2	.9933	1.285	1.035	2305
3	19.81	123.13	433.2	.9905	1.285	1.036	3216
4	19.81	181.39	378.2	1.000	1.285	1.034	4774
5							

NO.	P _i	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl
1	.59	536	1.50	.940	60.729	
2	.61	527	1.47	.933	A.P.I. Gravity of Liquid Hydrocarbons 53.0 @ 60°	
3	.65	530	1.48	.931	Specific Gravity Separator Gas .606	X X X X X X X X
4	.56	520	1.45	.936	Specific Gravity Flowing Fluid X X X X X	G MIX .656
5					Critical Pressure 671	670 P.S.I.A.
					Critical Temperature 358	375 R

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w 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	5430.2	3426.4	11740.2	17746	1.154	1.154
2		2635.0	6943.2	22543		
3		2255.5	5087.3	24399		
4		1984.4	3937.8	25549		
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Absolute Open Flow 5,510 Mcfd @ 15.025			Angle of Slope θ 45	Slope, n 1.00
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Remarks: **8 BBLs. OF CONDENSATE MADE DURING THE TEST**
***EQUIVALENT LENGTH, 3" LINER FROM 10,639 TO PLUG BACK**

Approved By Commission: Signed by Jerry Sexton District A Supervisor	Conducted By: W.S.	Calculated By: R.R.	Checked By: J.W.W.
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