

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

Form O-122
 Revised 9-1-63

RECEIVED

APR 06 1983

Type of Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Date	3/27/83	
Company Liberty Oil & Gas		Connection Air		O. C. D. ARTESIA, OFFICE
Well Undesignated		Formation Morrow		Well No. 2
Completion Date 3/25/83	Total Length 11686 11660	Plug Back TD 11550	Elevation 3242.8	Lease or Leasehold Lee Federal Com
Casing Size 7" ID	WT. 29#	Set At 11686	Perforations: From 11292 To 11305	Well No. 2
Tubing Size 2 3/8	WT. 4.7#	Set At 11230	Perforations: From To	Unit G 25 20s 20e
Type Well - Single - Protobhead - G.G. or G.O. Multiple			Packoff Set At 11230	County Eddy
Producing Thru Tbg.		Reservoir Temp. °F 186 @ 11230	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2
L 11230	H 11230	G _g .6183	% CO ₂ .990	% N ₂ .446
		% H ₂ S	Prover	Meter Run 4"
				State N.M.
				Flow Flg.

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	TUBING DATA		CASING DATA		Duration of Flow
							Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
51							3500				24 hrs
1.	4 x 3.000			620	2.5	93	3325				1 hr
2.	4 x 3.000			620	5.0	88	3260				1 hr
3.	4 x 3.000			620	10.0	78	3160				1 hr
4.	4 x 3.000			630	20.0	60	2845				1 hr
5.	4 x 3.000			630	33.5	56	2435				1 hr

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Comp. Factor, F _{spv}	Rate of Flow Q, Mhd
2	51.64	56.27	633.2	.9741	1.272	1.050	3780
3	51.64	79.57	633.2	.9831	1.272	1.054	5416
4	51.64	113.42	643.2	1.000	1.272	1.062	7912
5	51.64	146.79	643.2	1.004	1.272	1.064	10300

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio		Rate of Flow Q, Mhd
					178.952	Md/Std.	
1	.94	553	1.52	.911	521.1 @ 60	Dep.	
2	.94	548	1.50	.907	.6183		XXXXXX
3	.94	538	1.47	.900			.6355
4	.96	520	1.42	.886	671	P.S.I.A.	670 P.S.I.A.
5	.96	516	1.41	.883	365	R	372 R

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	Equations	
					(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 4.481$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 3.340$
1		3377.1	11404.8	937.8		
2		3352.2	11237.2	1105.3		
3		3336.5	11132.2	1210.3		
4		3219.3	10363.9	1978.7		
5		3096.5	9588.3	2754.3		

Post Test
 5-30-83
 Camp

Absolute Gas Flow: 34,400 Mhd @ 15.025 Angle of Slope: 51.25 Slope: .804
 Remarks: Produced 7 bbls. of distillate and 2.3 bbls. of H₂O during the test.

Approved By: _____	Conducted By: Davis Services, Inc. Rick Pagan	Calculated By:	Checked By:
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