

N. M. O. C. C. Corp.

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

Form C-122
Revised 9-1-65

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Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 10-16-74	
Company Hanagan Petroleum Corp.		Connection None	
Pool Undesignated		Formation Morrow	
Completion Date 10-16-74		Total Depth 11450 11441	Plug Back TD 11114
Elevation 3325 KB		Farm or Lease Name North Carlsbad Com.	
Csg. Size 4 1/2	Wt. 11.60 13.50	Ad. 4.000 3.920	Set At 11441
Perforations: From 11013 To 11019	Well No. 2		
Perforations: From 11048 To 11059	Unit B		
Perforations: From To	Sec. 33	Twp. 21S	Rge. 26E
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At 10762	County Eddy
Producing Thru Tubing	Reservoir Temp. °F 191 @ 11036	Mean Annual Temp. °F 70	Baro. Press. - P _a 13.2
State New Mexico			
L 11036	H 11036	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.	
SI				3388					Pkr	
1.	2"	X	8/64"	2784		72	2784	72	"	
2.	2"	X	9/64"	2569		70	2569	70	"	
3.	2"	X	10/64"	2347		71	2347	71	"	
4.	2"	X	11/64"	2124		72	2124	72	"	
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, Mc/d
1	0.2618		2797.2	0.9887	1.291	1.137	1062.8
2	0.3346		2582.2	0.9905	1.291	1.146	1266.1
3	0.4173		2360.2	0.9896	1.291	1.149	1445.8
4	0.5090		2137.2	0.9887	1.291	1.142	1585.7
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Dry Gas Mcf/bbl.
1.	4.17	532	1.49	0.774	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	3.85	530	1.48	0.761	Specific Gravity Separator Gas _____ XXXXXXXXXX
3.	3.52	531	1.48	0.758	Specific Gravity Flowing Fluid _____ XXXXX
4.	3.19	532	1.49	0.767	Critical Pressure _____ 671 P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ 358 _____ R

P _c 3401.2	P _c ² 11568					
NO.	P _t ²	P _w	R _w ²	P _c ² - R _w ²	(1) $\frac{P_c^2}{P_c^2 - R_w^2} = \frac{11568}{5927}$	(2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^{1.5523}$
1		2804.8	7867	3701		
2		2592.7	6722	4846		
3		2375.0	5641	5927		
4		2156.5	4650	6918		
5						

Absolute Open Flow 2244 Mc/d @ 15.025		Angle of Slope @ 56° 42'	
Remarks:			
Approved By Commission:			
Conducted By: Tefteller, Inc.		Calculated By: F. Tefteller	
Checked By:			

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ARTESIA, NEW MEXICO