

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

Form C-122
Revised 9-1-65

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of

Type Test ☐ Initial ☒ Annual ☒ Special				Test Date 1-29-73		FEB 12 1973					
Company Hanagan Petroleum Corp.				Connection None Flano Inc.		O. C. C. ARTESIA, OFFICE					
Pool Undesignated <i>Catchlaw Draw</i>				Formation Morrow		Unit Catchlaw Draw					
Completion Date 10-28-71		Total Depth 10500		Plug Back TD 10462		Elevation 3330 KB					
Csg. Size 4 1/2	Wt. 11.6	d 4.000	Set At 10500	Perforations: 10446 To 460 From 10436 To 446		Farm or Lease Name Catchlaw Draw Unit					
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 9990	Perforations: From 10396 To 412		Well No. 2					
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At 9990-95		Unit Sec. Twp. Rge. G 23 21S 25E					
Producing Thru Tubing		Reservoir Temp. °F 178 @ 9978		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2					
L 10428		H 10428	Gg 0.585	% CO ₂ 0.73%	% N ₂ 0.22%	% H ₂ S	Prover Meter Run X				
Taps											
FLOW DATA											
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	
SI							2717		Pkr.		
1.	6.065	x	3.0	695	3	56	2620	71			60 min.
2.	6.065	x	3.0	725	8	61	2465	71			60 min.
3.	6.065	x	3.0	755	17	71	2253	71			60 min.
4.	6.065	x	3.0	780	25.5	66	1954	71			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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd				
1	44.51	46.1	708.2	1.004	1.307	1.061	2856.8				
2	44.51	76.9	738.2	.9990	1.307	1.062	4746.2				
3	44.51	114.3	768.2	.9896	1.307	1.063	6994.8				
4	44.51	142.2	793.2	.9943	1.307	1.067	8776.4				
5											
NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio <u>Dry Gas</u> Mcf/bbl.						
1	Simplified				A.P.I. Gravity of Liquid Hydrocarbons <u>None</u> Deg.						
2	Supercompressibility				Specific Gravity Separator Gas <u>0.585</u> X X X X X X X X						
3	Tables Used				Specific Gravity Flowing Fluid <u>X X X X X</u>						
4					Critical Pressure <u>675.7</u> P.S.I.A. P.S.I.A.						
5					Critical Temperature <u>353.4</u> R R						
P _f 3432.2 P _{f2} 11780											
NO.	P _{f1} ²	P _{f2} ²	P _{f2} ² - P _{f1} 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	3343.2	11177	603								
2	3279.2	10753	1027								
3	3225.2	10402	1378								
4	3174.2	10076	1704								
5											
Absolute Open Flow <u>61,000</u> Mcfd @ 15.025				Angle of Slope <u>45°</u>		Slope, n <u>1.000</u>					
Remarks: <u>BHP measured with Amerada RPG-3 gauge.</u>											
Approved By Commission:		Conducted By: Tefteller, Inc.		Calculated By: F. Tefteller		Checked By:					