NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
FEB 12 1973
O. C. C.
ARTESIA, OFFICE

Type Test: ☐ Initial ☐ Annual ☒ Special				Test Date: 1-25-73	
Company: Hanagan Petroleum Corp.		Connection: Llano Inc.			
Pool: Catclaw Draw		Formation: Morrow		Unit: Catclaw Draw	
Completion Date: 10-18-72	Total Depth: 10700	Plug Back TD: 10681	Elevation: 3304 GL	Farm or Lease Name: Catclaw Draw Unit	
Csg. Size: 5 1/2 / Wt.: 17# / d: 4.892 / Set At: 10700		Perforations: From 10534 To 10621		Well No.: 6	
Tbg. Size: 2 7/8 / Wt.: 6.5 / d: 2.441 / Set At: 10468		Perforations: From To		Unit: J / Sec.: 13 / Twp.: 21 S / Rge.: 25 E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 10468		County: Eddy	
Producing Thru: Tubing	Reservoir Temp. °F: 174 @ 10400	Mean Annual Temp. °F: 70	Baro. Press. – P_a: 13.2	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
10578	10578	0.585					X	

	FLOW DATA					TUBING DATA		CASING DATA		
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	Duration of Flow
SI						3118		Packer		
1.	4"	x 2.000	800	2	74	2992	72			60 min.
2.	4"	x 2.000	800	7.5	72	2882	72			60 min.
3.	4"	x 2.000	830	16	61	2598	72			60 min.
4.	4"	x 2.000	840	30	60	2249	72			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	19.81	40.3	813.2	.9868	1.307	1.061	1092.5
2.	19.81	78.1	813.2	.9887	1.307	1.061	2121.2
3.	19.81	116.2	843.2	.9990	1.307	1.071	3219.0
4.	19.81	160.0	853.2	1.000	1.307	1.071	4436.8
5.							

NO.	P_t	Temp. °R	T_r	Z
1.				
2.	Simplified			
3.	Supercompressibility			
4.	Tables Used			
5.				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: None Deg.
Specific Gravity Separator Gas: 0.585 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 675.7 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 353.4 R ____ R

P_c 3931.2 P_c^2 15454

NO	P_t^2	P_s	P_s^2	$P_c^2 - P_s^2$
1		3775.2	14252	1202
2		3571.2	12753	2701
3		3317.2	11004	4450
4		2926.2	8563	6891
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ ____ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ ____

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ ____

Absolute Open Flow: 8,600 Mcfd @ 15.025 | Angle of Slope θ: 51° 53' | Slope, n: 0.78440

Remarks: BHP measured with Amerada RPG-3 gauge.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Tefteller, Inc.	F. Tefteller	