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C-122

N MEXICO OIL CONSERVATION COM. SION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
SEP 4 1975
O. C. C.
ARTESIA, OFFICE

Type Test: [x] Initial [ ] Annual [ ] Special			Test Date: 8-26-75	
Company: Hanagan Petroleum Corporation	Connection: None			Unit: Catclaw Draw
Pool: Catclaw Draw Unit	Formation: Morrow			
Completion Date: 9/2/75	Total Depth: 11170	Plug Back TD: 10985	Elevation: 3704 KB	Farm or Lease Name: Catclaw Draw Unit
Csg. Size: 5.5 / Wt.: 17 & 20 / d: 4.892, 4.778 / Set At: 11170		Perforations: From 10935 To 10974		Well No.: 11
Tbg. Size: 2 7/8 / Wt.: 6.5 / d: 2.441 / Set At: 10792		Perforations: From To		Unit: L / Sec.: 36 / Twp.: 21S / Rge.: 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 10792-796		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 178 @ 10785	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
10905	10905	0.600				Pos ck		

	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	94 hrs.		3278			3278		Pkr		
1.	2"	x 8/64	3054		81	3054		"		60 min.
2.	2"	x 9/64	2933		83	2933		"		60 min.
3.	2"	x 11/64	2706		85	2706		"		60 min.
4.	2"	x 13/64	2448		86	2448		"		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	0.2618		3067.2	0.9804	1.291	1.120	1138.3
2.	0.3346		2946.2	0.9786	1.291	1.122	1397.4
3.	0.5090		2719.2	0.9768	1.291	1.129	1970.5
4.	0.7208		2461.2	0.9759	1.291	1.129	2523.4
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	4.57	541	1.51	0.797
2.	4.39	543	1.52	0.795
3.	4.05	545	1.52	0.785
4.	3.67	546	1.53	0.785
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas 0.600 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 671 P.S.I.A. _____ P.S.I.A.
Critical Temperature 358 R _____ R

P_f^2 4280.2 P_f^2 18320

NO	P_t^2	P_s	P_s^2	$P_f^2 - P_s^2$
1		4005.2	16042	2278
2		3849.2	14816	3504
3		3572.2	12761	5559
4		3261.2	10635	7685
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.3838646$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.957813$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4940.3$

Absolute Open Flow 4940.3 Mcfd @ 15.025 Angle of Slope θ 52^0 17' Slope, n 0.773353

Remarks: BHP measured with Amerada RPG-3 gauge Serial No. 9383 0-6050

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