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C-122

NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
JAN 23 1974
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 1-14-74	
Company: Hanagan Petroleum Corporation		Connection: None			
Pool: ~~Wildcat~~ Lindsey		Formation: Morrow			Unit:
Completion Date: 1-15-74	Total Depth: 11460		Plug Back TD: 11436	Elevation: 3540 KB	Farm or Lease Name: Squaw
Csg. Size: 5 1/2	Wt.: 17.20	d: 4.892 / 4.778	Set At: 11460	Perforations: From 11203 To 209	Well No.: 1
Tbg. Size: 2 7/8	Wt.: 6.5	d: 2.441	Set At: 10850	Perforations: From To	Unit: F; Sec.: 12; Twp.: 23S; Rge.: 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 10850		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 186 @ 10816	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
11206	11206	0.612				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	Positive chokes		3524			3524		Pkr.		
1.	2"	X 8/64	3305		68	3305	68			60 min
2.	2"	X 10/64	3149		72	3149	72			60 min
3.	2"	X 13/64	2637		75	2637	75			60 min
4.	2"	X 16/64	2223		81	2223	81			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		3318.2	0.9924	1.278	1.120	1234.0
2.	0.4173		3162.2	0.9887	1.278	1.127	1879.1
3.	0.7208		2650.2	0.9859	1.278	1.141	2746.3
4.	1.1120		2236.2	0.9804	1.278	1.134	3533.2
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	Used	simplified		
2.	super	compressibility	tables.	
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas 0.612 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 671 P.S.I.A. _____ P.S.I.A.
Critical Temperature 362 R _____ R

P_f 4496.2 P_f^2 20,216

NO	P_t^2	P_S	P_S^2	$P_f^2 - P_S^2$
1		4239.2	17,971	2,245
2		4046.2	16,372	3,844
3		3432.2	11,780	8,436
4		2924.2	8,551	11,665
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 $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 5000 Mcfd

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U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

1-24-74

Absolute Open Flow 5000 Mcfd @ 15.025 | Angle of Slope θ 59.9 39' | Slope, n 0.6359

Remarks: BHP measured with Amerada RPG-3 guage

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