NMOCC COPY NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOI AND ONE POINT BACK PRESSURE ST FOR GAS WELL

SF File C-122 Form C-122 Revised 9-1-65

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O. C. C.
ARTESIA, OFFICE

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U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 11-24-77	
Company: Hanagan Petroleum Corp.	Connection: None				
Pool: Wildcat	Formation: Strawn			Unit	
Completion Date: 12/10/77	Total Depth: 11,500	Plug Back TD: 10858	Elevation: 3857GL 3873KB	Farm or Lease Name: N. Horseshoe Bend	
Csg. Size: 5 1/2	Wt.: 17 & 20	d: 4.892 4.778	Set At: 11500	Perforations: From 9714 To 9722	Well No.: 1
Tbg. Size: 2 7/8	Wt.: 6.5	d: 2.441	Set At: 9599	Perforations: From To	Unit: B Sec.: 22 Twp.: 23S Rge.: 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: Top 9599 Bot.Pkr.9862		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 160 @ 9575	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
9718	9718	0.667					1000X100"	Flange

	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					3088		pkr		
1.	4" X 0.500	488	81	94	2966	70			60 min.
2.	4" X 1.125	476	11.5	73	2841	70			60 min.
3.	4" X 1.125	476	30	70	2624	70			60 min.
4.	4" X 1.500	500	40	74	2232	70			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	1.182	199.467	501.2	0.9688	1.224	1.043	291.6
2.	6.031	75.005	489.2	0.9877	1.224	1.049	573.7
3.	6.031	121.145	489.2	0.9905	1.224	1.050	930.1
4.	10.840	143.276	513.2	0.9868	1.224	1.051	1971.6
5.							

NO.	P_r	Temp. °R	T_r	Z
1	0.75	554	1.47	0.920
2.	0.73	533	1.41	0.909
3.	0.73	530	1.40	0.907
4.	0.77	534	1.41	0.905
5.				

Gas Liquid Hydrocarbon Ratio 52.5 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 57.6 @ 60 Deg.
Specific Gravity Separator Gas 0.667 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 670 P.S.I.A. P.S.I.A.
Critical Temperature 378 R R

P_c 4219.2 P_c^2 17802

NO	P_t^2	P_s	P_s^2	$P_c^2 - P_s^2$
1		4100.2	16812	990
2		3959.2	15675	2127
3		3700.2	13691	4111
4		3151.2	9930	7872
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.2614329$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.123425$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4186.5$

Absolute Open Flow 4186.5 Mcfd @ 15.025 Angle of Slope θ 47^0 18' Slope, n 0.922834

Remarks: BHP measured with Amerada RPG-3 gauge, serial no. 9383-N 0-6000 psi

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Tefteller, Inc.	Bill Taylor	