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NEW MEXICO OIL CONSERVATION COMMISSION JUN 2 1972

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122 Revised 9-1-65

O. C. C.
ARTESIA, OFFICE

Type Test: [x] Initial [ ] Annual [ ] Special				Test Date: 5-23-72	
Company: Hanagan Petroleum Corp.			Connection: None		
Pool: Wildcat			Formation: Morrow		Unit: E
Completion Date: 6/1/72	Total Depth: 10904		Plug Back TD: 10844	Elevation: 3363 Gr.	Farm or Lease Name: Nan-Bet
Csg. Size: 5.5 / Wt.: 17 / d: 4.892 / Set At: 10904			Perforations: From 10648 To 10664		Well No.: 1
Tbg. Size: 2 7/8 / Wt.: 6.5 / d: 2.441 / Set At: 10466			Perforations: From 10648 To 10664		Unit: E / Sec.: 19 / Twp.: 21S / Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 10466		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 184 @ 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
10656	10656	0.609	0.0079	0.0028		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	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI	71 hrs			3504			3504		Pkr.		
1.	2"		10/64	3475		86	3475	86	"		1 hr
2.	2"		13/64	3418		83	3418	83	"		1 hr
3.	2"		16/64	3372		82	3372	82	"		1 hr
4.	2"		20/64	3265		84	3265	84	"		1 hr
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	0.4173		3488.2	0.9759	1.281	1.101	2003.5
2.	0.7208		3431.2	0.9786	1.281	1.107	3432.1
3.	1.1120		3385.2	0.9795	1.281	1.108	5233.4
4.	1.7710		3278.2	0.9777	1.281	1.112	8085.6
5.							

NO.	P_t	Temp. °R	T_t	Z
1.	5.16	546	1.52	0.825
2.	5.06	543	1.51	0.816
3.	5.01	542	1.51	0.814
4.	4.85	544	1.51	0.808
5.				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: 0.609 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 675.5 P.S.I.A. P.S.I.A.
Critical Temperature: 359.4 R R

P_f 4485.2 P_f^2 20117

NO	P_t^2	P_s	P_s^2	$P_f^2 - P_s^2$
1		4447.2	19777	340
2		4398.2	19344	773
3		4357.2	18985	1132
4		4272.2	18252	1865
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: 84,000 Mcfd @ 15.025
Angle of Slope θ: 45° 48'
Slope, n: 0.97242

Remarks: BHP measured with Amerada RPG-3 gauge.

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