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NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
JUN 13 1974
O. C. C.
ARTESIA, OFFICE

2-4861
10-9-74

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 6-6-74	
Company: Hanagan Petroleum Corporation			Connection: None		
Pool: ~~Undesignated~~ Avalon Morrow			Formation: Morrow		Unit: F
Completion Date: 6-6-74	Total Depth: 11158		Plug Back TD: 11117	Elevation: 3284 KB	Farm or Lease Name: Ocotillo Hills Com.
Csg. Size: 5 1/2	Wt.: 17 & 20	d: 4.892 / 4.778	Set At: 11158	Perforations: From 10929 To 10978	Well No.: 1
Tbg. Size: 2 7/8	Wt.: 6.5	d: 2.441	Set At: 10796	Perforations: From To	Unit: F; Sec.: 21; Twp.: 21S; Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 10796-829		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 186 @ 10700		Mean Annual Temp. °F: 70	Baro. Press. – P_a: 13.2	State: New Mexico
L: 10954	H: 10954	Gg: 0.580	% CO_2:	% N_2:	% H_2S:
Prover: Pos. Ck	Meter Run:	Taps:			

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	59 hrs			3506			3506		Pkr.		
1.	2"	x	8/64"	3377		74	3377	74			45 min.
2.	2"	x	10/64"	3279		74	3279	74			45 min.
3.	2"	x	13/64"	3056		75	3056	75			60 min.
4.	2"	x	16/64"	2708		74	2708	74			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		3390.2	0.9868	1.313	1.105	1270.7
2.	0.4173		3292.2	0.9868	1.313	1.110	1975.8
3.	0.7208		3069.2	0.9859	1.313	1.113	3187.4
4.	1.1120		2721.2	0.9868	1.313	1.126	4414.7
5.							

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

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: 0.580 (XXXXXXXXX)
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 672 P.S.I.A. (P.S.I.A.)
Critical Temperature: 350 R (R)

P_f 4464.2 P_f^2 19929

NO	P_t^2	P_s	P_s^2	$P_f^2 - P_s^2$
1		4299.2	18483	1446
2		4174.2	17424	2505
3		3868.2	14963	4966
4		3466.2	12015	7914
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: 8800 Mcfd @ 15.025
Angle of Slope θ: 53° 37'
Slope, n: 0.737

Remarks: BHP measured with Amerada RPG-3 gauge, 9383 N 0-6050 psi.

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

9-9-74
As per DSN - Paul on
nomenclature for 10-2-74
for Avalon - Morrow Bar.