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

RECEIVED BY
MAY 7 1984
O. C. D.
ARTESIA, OFFICE

Form C-122
Revised 9-1-65

45F File

Type Test: [X] Initial [ ] Annual [ ] Special		Test Date: 5/1/84	
Company: HNG Oil Company	Connection: Transwestern Pipeline		
Pool: wildcat 6-29-84 R-7555 SE Loving-Atoka Gas	Formation: Atoka		Unit: N
Completion Date: 3-1-83	Total Depth: 12,820'	Plug Back TD: 11670	Elevation: 3121.4 GL
Farm or Lease Name: Loving 36 State			
Csg. Size: 7" / Wt.: 23# / d: / Set At: 10500'	Perforations: From 11409 To 11456		Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: / Set At: 10278	Perforations: From open To ended		Unit: N / Sec.: 36 / Twp.: 23s / Rge.: 27e
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single Gas	Packer Set At: 10278		County: Eddy
Producing Thru: Tbg.	Reservoir Temp. °F: 188 @ 11433	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
11433	11433	.6133	.514	1.257			4"	Flg.

NO.	FLOW DATA: Prover Line Size x Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					2500	63	PKR		
1.	4 x 1.250	510	3	77	2390	62	PKR		1 hr.
2.	4 x 1.250	510	6	77	2285	62	PKR		1 hr.
3.	4 x 1.250	530	12	77	2130	62	PKR		1 hr.
4.	4 x 1.250	530	23	77	1895	62	PKR		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	7.469	39.62	523.2	.9840	1.277	1.044	388
2	7.469	56.03	523.2	.9840	1.277	1.044	549
3	7.469	80.74	543.2	.9840	1.277	1.045	792
4	7.469	111.77	543.2	.9840	1.277	1.045	1096
5							

NO.	P_t	Temp. °R	T_t	Z
1	.78	537	1.48	.918
2	.78	537	1.48	.918
3	.81	537	1.48	.915
4	.81	537	1.48	.915
5				

Gas Liquid Hydrocarbon Ratio: Dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: .6133 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 671 P.S.I.A. P.S.I.A.
Critical Temperature: 362 R R

P_c* 2606.8 P_c^2 6795.5

NO	BHP	P_w	P_w^2	$P_c^2 - P_w^2$
1	3269.2	2495.7	6228.5	567.0
2	3147.2	2400.2	5760.9	1034.6
3	2946.2	2243.2	5031.8	1763.7
4	2665.2	2029.9	4120.5	2675.0
5	3409.2	SIP		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.540$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.010$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2,203$

Absolute Open Flow: 2,203 Mcfd @ 15.025 Angle of Slope θ: 53.25° Slope, n: .749

Remarks: * Calculated from bottom-hole pressures.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Jarrel Well Testing	Rick Pagan	