NM OIL CONS. COMMISSION
Drawer DD
Artesia, NM 88210

BUREAU OF LAND MANAGEMENT RECEIVED OCT 07 1983 DIST. 6 N M ROSWELL, NEW MEXICO

NEW MEXICO OIL CONSERVATION COMMSSION

Form C-122
Revised 9-1-65

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED BY OCT 18 1983 O. C. D. ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special — Test Date: 9-28-83

Company: JAKE L. HAMON	Connection: NGPL		
Pool: Wildcat Strawn	Formation: STRAWN		Unit:
Completion Date: 9/15/83	Total Depth: 10,451'	Plug Back TD: 9947	Elevation: 3296KB
Farm or Lease Name: Federal 33			
Csg. Size: 5½" / Wt.: 17.20 / d: 4.778 / Set At: 10,450'	Perforations: From 9326 To 9356		Well No.: 1
Tbg. Size: 2 3/8" / Wt.: 4.7 / d: 1.995 / Set At: 9291	Perforations: From OPEN To ENDED		Unit: I / Sec.: 33 / Twp.: 20S / Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE	Packer Set At: 9291'		County: Eddy
Producing Thru: TUBING	Reservoir Temp. °F: 167° @ 9341'	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
9341	9341	.6313	3.493	1.780			3"	Flange

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							2478		PKR	CHOKE	48 Hrs.
1.	3	x	.625	.564	4.6/10.6	83°	2068			4.5/64	30 Min.
2.	3	x	.625	.564	5.8/16.8	83	1995			5/64	1 Hr.
3.	3	x	.625	.580	7.5/28.1	83	1765			5.5/64	1 Hr.
4.		x	.625	.580	7.9/31.2	80	1452			6/64	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	1.850	78.22	577.2	.9786	1.259	1.043	186
2	1.850	98.47	577.2	.9786	1.259	1.043	234
3	1.850	129.11	593.2	.9786	1.259	1.044	307
4	1.850	139.16	601.2	.9813	1.259	1.046	333
5							

NO.	P_t	Temp. °R	T_r	Z
1	.85	543	1.52	.920
2	.85	543	1.52	.920
3	.87	543	1.52	.918
4	.89	540	1.51	.914
5				

Gas Liquid Hydrocarbon Ratio: Dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: .631 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 679 P.S.I.A. P.S.I.A.
Critical Temperature: 357 R R

P_c * 2756.5 P_c^2 7598.3

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2085.7	4350.1	3248.2
2		2012.5	4050.2	3548.1
3		1786.2	3190.5	4407.8
4		1518.8	2306.8	5291.5
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.436$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.436$

ACCEPTED FOR RECORD

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = .478$

OCT 14 1983

ROSWELL, NEW MEXICO

Absolute Open Flow: 478 Mcfd @ 15.025 Angle of Slope θ: 45° Slope, n: 1.00

Remarks: Calculated from known bottom hole pressures.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	W.S.	R.R.	R.R.