NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [x] Initial [ ] Annual [ ] Special			Test Date: 10-18-91	
Company: Great Western Drilling Co.	Connection:			
Pool: Basin Dakota	Formation: Dakota		Unit:	
Completion Date: 5-20-91	Total Depth: 6774	Plug Back TD: 6690	Elevation: 6255 KB	Farm or Lease Name: Federal Bond
Csg. Size / Wt. / d / Set At		Perforations: From 6580 To 6657		Well No.: 1-E
Tbg. Size: 2 3/8 / Wt. / d / Set At: 6510		Perforations: From To		Unit: J Sec.: 13 Twp.: 26 Rge.: 8
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Dual G-G		Packer Set At: 6510		County: San Juan
Producing Thru: Tubing	Reservoir Temp. °F:	Mean Annual Temp. °F:	Baro. Press. – P_a: 12.0	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.650				4		

	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	32 days				1469		Pkr		
1.	2" x 3/4"				63	60			3 hours
2.									
3.									
4.									
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	11.00		75	1.000	1.240	1.000	1023
2.							
3.							
4.							
5.							

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NO.	P_r	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

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

P_c 1481 P_c^2 2193361

NO	P_t^2	P_w	R_w^2	$P_c^2 - R_w^2$
1	5625		32940	2160421
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 1.0152$ (2) $\left[\frac{P_c^2}{P_c^2 - R_w^2}\right]^n = 1.0113$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - R_w^2}\right]^n = 1035$

Absolute Open Flow 1035 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

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