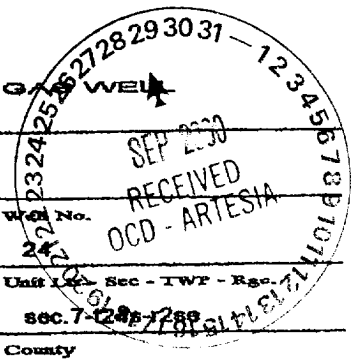
ppropriate district office
ee Rule 401 & Rule 1122

Energy, Minerals and Natural Resources Depart nt

Revised 4-1-199

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088



MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator				Lease or Unit Name: state nm7 - 24		
Test Type: ☐ Initial ☐ Annual ☐ Special				Test Date: 8-7-00	Well No.: 24	
Completion Date: 8-5-00	Total Depth: 11		Plug Back TD: 11,250	Elevation	Unit Ltr - Sec - TWP - Rge.: sec.7-T28-R28	
Csg. Size: 5.500	Wt.: 17.000	d: 4.990	Set At: 11	Perforation: From 9537 To 9565	County: eddy	
Tbg. Size: 2.375	Wt.: 4.700	d: 1.995	Set At: 9510	Perforation: From To	Pool: strawn	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple: single				Packer Set At	Formation	
Producing Thru: tubing	Reservoir Temp.F		Mean Annual Temp.F: 100	Baro. Pressure: 13.30	Connection	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
11250	11250	.728	.26	.80		meter	3.068	flange

	Flow Data				Tubing Data		Casing Data		SIP/Flow Duration (HRS.)
No.	(Prover) Line Size x Orifice Size		Press. PSIG	Diff. h_w	Temp. F	Press. PSIG	Temp. F	Press. PSIG	Temp. F	
Shut-in Pressure:						1375	81			24
1.	3.07	x 1.50	300.00	9.00	68	1315	68			1
2.	3.07	x 1.50	300.00	18.00	68	1272	68			1
3.	3.07	x 1.50	300.00	34.00	66	1212	66			1
4.	3.07	x 1.50	300.00	66.00	64	1081	64			1

RATE OF FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. FACTOR F_t	Gravity FACTOR F_g	Super Compress. FACTOR F_{pv}	Rate of Flow (Q) MCFD
1.	14.730	53.101	313.3	.9924	1.1720	1.0358	942.3
2.	14.730	75.096	313.3	.9924	1.1720	1.0358	1332.7
3.	14.730	103.209	313.3	.9943	1.1720	1.0363	1835.9
4.	14.730	143.798	313.3	.9962	1.1720	1.0368	2564.0

No.	P_r	THMP.	T_r	Z
1.	.471	528	1.338	.9320
2.	.471	528	1.338	.9320
3.	.471	526	1.333	.9312
4.	.471	524	1.328	.9303

Gas-Liquid Hydrocarbon Ratio		13.4	Mcf/bbl
API Gravity of Liquid Hydrocarbons		61.0	Deg.
Specific Gravity Separator Gas	.728		
Specific Gravity Flowing Fluid		.925	
Critical Pressure	665 PSIA	656	PSIA
Critical Temperature	394 R	457	R

P_c = 1388.3 P_c^2 = 1927.4

No.	Pw	Pw^2	$Pc^2 - Pw^2$
1.	1341.3	1798	128.396
2.	1311.8	1720	206.549
3.	1277.7	1632	294.860
4.	1215.3	1476	450.411

(1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 4.279 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 3.227

$AOF = Q\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 8274

Absolute Open Flow: 8274	Mcfd @ 15.025	Angle of Slope = 51.1	Slope, n: .806
Remarks			

Approved By Division:	Conducted By:	Calculated By:	Checked By:
	lane	BPT System/Guardian	larry