Submit in duplicate to appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Departme...

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

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

JAN 12 '95

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: OXY U.S.A.					Lease or Unit Name: GOVERNMENT Z		
Type Test: X Initial ☐ Annual ☐ Special					Test Date: 12-20-94	Well No.: 1	
Completion Date: 12-17-94	Total Depth: 11485		Plug Back TD: 11367		Elevation	Unit Ltr. - Sec. - TWP - Rge.: 23 20S 28E	
Csg. Size: 5½	Wt.: 15.5	d: 4.950	Set At: 11485'	Perforations: From: 11342 To: 11348		County: Eddy	
Tbg. Size: 2-7/8	Wt.: 6.5	d: 2.441	Set At: 11323'	Perforations: From: To:		Pool	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: single			Packer Set At: 11323			Formation: MORROW	
Producing Thru: TBG.	Reservoir Temp. °F: 187 @11200	Mean Annual Temp. °F: 60°	Baro. Press - P_a: 1.32			Connection: AIR	
L: *11200	H: *11200	Gg: .597	% CO_2: .90	% N_2: .20	% H_2S:	Prover:	Meter Run: 6.065	Taps: FLG.

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					3260				
1.	6.065 X 2.750	600	6	60	3130		PKR.		1 hr.
2.	6.065 X 2.750	615	19	68	3000				1 hr.
3.	6.065 X 2.750	630	40	63	2750				1 hr.
4.	6.065 X 2.750	630	52	58	2600				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, F pv.	Rate of Flow Q, Mcfd
1.	36.99	60.66	613.2	1.000	1.294	1.062	3084
2.	36.99	109.25	628.2	.9924	1.294	1.056	5480
3.	36.99	160.40	643.2	.9971	1.294	1.066	8161
4.	36.99	182.88	643.2	1.002	1.294	1.066	9350
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.91	520	1.43	.886
2.	.94	528	1.45	.896
3.	.96	523	1.43	.880
4.	.96	518	1.42	.880
5.				

Gas Liquid Hydrocarbon Ratio 122.954 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 49.4 @60° Deg.
Specific Gravity Separator Gas .597 XXXXXXXXX
Specific Gravity Flowing Fluid .784 XXXXX GMIX=.623
Critical Pressure 672 P.S.I.A. 671 P.S.I.A.
Critical Temperature 354 R 365 R

P_c 3331.0 P_c^2 11095.56

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		3243.6	10520.94	574.62
2.		3161.5	9995.08	1100.48
3.		3033.3	9200.91	1894.65
4.		2978.2	8869.68	2225.88
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.98480$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.75663$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 35,125$

Absolute Open Flow 35,125 Mcfd @ 15.025 Angle of Slope θ 50.5° Slope, n .82391

Remarks: * BOTTOM HOLE PRESSURE INSTS. HUNG @ THIS DEPTH.
CALCULATED USING KNOWN BOTTOM HOLE PRESSURES-(8 BBLS 49.4 GRAVITY COND. MADE DURING TEST

Approved By Division	Conducted By	Calculated By:	Checked By:
	PRO WELL TESTER	KS	BM