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

State of New Mexico
Energy, Minerals and Natural Resources Department

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Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: OXY USA					Lease or Unit Name: Merland A			
Type Test: [X] Initial [ ] Annual [ ] Special					Test Date: 12-21-91		Well No.: 1	
Completion Date: 12-17-91		Total Depth: 11750		Plug Back TD: 11188	Elevation		Unit Ltr. - Sec. - TWP - Rge.: 19 22 27E	
Csg. Size: 5½	Wt.: 17	d	Set At: 11750	Perforations: S. Carlsbad Strawn From: 10329		To: 10375	County: Eddy	
Tbg. Size: 2 7/8	Wt.: 6.5	d: 2.441	Set At: 10232	Perforations: From:		To:	Pool	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At: 10232			Formation: Strawn	
Producing Thru: TBG.	Reservoir Temp. °F: 177 @10329	Mean Annual Temp. °F: 60		Baro. Press - P_a: 13.2			Connection: Vented	
L: *10232	H: *10232	Gg: .654	% CO_2: 1.05	% N_2: 2.38	% H_2S:	Prover:	Meter Run: 3.068	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					2882		PKR		72 hrs.
1.	3 X 1.500	480	26.00	90	2770		"		1 hr.
2.	3 X 1.500	510	52.00	74	2630		"		1 hr.
3.	3 X 2.250	510	11.00	76	2660		"		1 hr.
4.	3 X 2.250	570	24.00	70	2640		"		30Min.
5.	3 X 2.250	570	40.00	72	2500		"		1 hr.

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.	11.13	113.24	493.2	.9723	1.237	1.044	1,583
2.	11.13	164.94	523.2	.9868	1.237	1.046	2,323
3.	28.78	75.86	523.2	.9850	1.237	1.046	2,783
4.	28.78	118.31	583.2	.9905	1.237	1.059	4,418
5.	28.78	152.74	583.2	.9887	1.237	1.059	5,693

NO.	P_r	Temp. °R	T_r	Z
1.	.73	550	1.49	.918
2.	.77	534	1.45	.914
3.	.77	536	1.45	.914
4.	.86	530	1.44	.892
5.	.86	532	1.44	.892

Gas Liquid Hydrocarbon Ratio: n/a Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: n/a Deg.
Specific Gravity Separator Gas: .654 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: **671 P.S.I.A. ____ P.S.I.A.
Critical Temperature: **368 R ____ R

P_c 2959.3 P_c^2 8757.5

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		2850.0	8122.5	635.0
2.		2712.5	7357.7	1399.8
3.		2557.6	6541.3	2216.2
4.		2397.4	5747.5	3010.0
5.		2012.3	4049.4	4708.1

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.860$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.576$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 8.972$

Absolute Open Flow 8,972 Mcfd @ 15.025 | Angle of Slope θ 53.7 | Slope, n .733

Remarks: * BND Instrument set @ this depth

** Corrected to 1.05% C^{o2} & 2.38% N2. Well made 11.00 bbls N^{2o} during test.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	PRO WELL TESTING	BM	BM