C151

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

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Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: OXY U.S.A.						Lease or Unit Name: BATTLESTAR STATE			
Type Test: ☑ Initial ☐ Annual ☐ Special						Test Date: 12/14/00		Well No.: 1	
Completion Date		Total Depth		Plug Back TD		Elevation		Unit Ltr - Sec - TWP - Rge: 36 20S 27E	
Csg. Size: 5 1/2	Wt.: 17	d: 4.892	Set At	Perforations: From: 10960	To: 11092			County: EDDY	
Tbg. Size: 2 7/8	Wt.: 6.5	d: 2.441	Set At: 10916	Perforations: From:	To:			Pool: Burton Flat Morrow	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple: SINGLE				Packer Set At: 10916				Formation: MORROW	
Producing Thru: TUBING		Reservoir Temp.°F: 181.4		Mean Annual Temp. °F: 60		Baro. Press.-P_a: 13.2		Connection: SALES	

L	H	Gg	%CO_2	%N_2	%H_2S	Prover	Meter Run	Taps
10931	10931	0.622	0.785	0.318	N/A	N/A	4.027	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					1080	N/A	PKR	N/A	
1	4.027 X 1.500	412	0.4	43	982				1 HR
2	4.027 X 1.500	415	1.3	45	960				1 HR
3	4.027 X 1.500	418	2.4	53	910				1 HR
4	4.027 X 1.500	422	5	53	809				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 F_g	Super Compress Factor F pv	Rate of Flow Q. Mcfd
1							196
2	GAS VOLUMES	FROM	TOTAL		FOLW	METER	317
3							434
4							682
5							

No.	P_r	Temp. °R	T_r	Z
1				
2	TOTAL	FLOW	METER	
3				
4				
5				

Gas Liquid Hydrocarbon Ratio: N/A Mcf/bbl.
A.P. I. Gravity of Liquid Hydrocarbons: N/A Deg.
Specific Gravity Separator Gas: 0.622 XXXXXXX
Specific Gravity Flowing Fluid: N/A XXXXX N/A
Critical Pressure: 674 P.S.I.A. P.S.I.A.
Critical Temperature: 361 R. R

P_c 1102.4 P_c^2 1215.3

No.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1002.6	1005.2	212.7
2		978.8	958	257.3
3		942.7	888.6	326.7
4		859.8	739.2	476.1
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ 2.55 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 2.55

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 1739

Absolute Open Flow: 1739 Mcfd @ 15.025 Angle of Slope (): 45 Slope n: 1

Remarks: * CALCULATED FROM KNOWN BOTTOM HOLE PRESSURES./ NO LIQUID MADE DURING TEST.

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