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

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

30-015-30573

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

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

RECEIVED
OCD - ARTESIA

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: Oxy U.S.A					Lease or Unit Name: Bob Cat			
Type Test: [X] Initial [ ] Annual [ ] Special					Test Date: 7-5-99		Well No.: 1	
Completion Date: 5-29-99	Total Depth: 11200		Plug Back TD: 11180		Elevation		Unit Ltr. - Sec. - Twp. - Rge.: I 19 - 18-S - 29-E	
Csg. Size: 4.5	Wt.: 13.5	d: 3.92	Set At: 11200	Perforations: From: 10894		To: 11020	County: Eddy	
Tbg. Size: 2 3/8	Wt.: 4.7	d: 1.995	Set At: 10882	Perforations: From:		To:	Pool: N. Turkey Track Morrow	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single			Packer Set At: 10857				Formation: Morrow	
Producing Thru: Tbg	Reservoir Temp. °F: 183.6	Mean Annual Temp. °F: 60°	Baro. Press - P_a: 13.2				Connection: Sales	
L: 10957	H: 10957	Gg: .627	% CO_2: .463	% N_2: .343	% H_2S: 0	Prover: 0	Meter Run: 3.068	Taps: F/G

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press p.s.i.g.	Tubing Temp. °F	Casing Press p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							2930	N/A	PKR	N/A	
1.	3.068	X	1.875	213	6.0	73	2805				60 min
2.	3.068	X	1.875	215	11.7	68	2765				60 min
3.	3.068	X	1.875	259	35.3	72	2705				60 min
4.	3.068	X	1.875	320	63.1	69	2491				60 min
5.											

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.							841
2.							1167
3.		GAS VOLUMES MEASURED BY TOTAL FLOW METER					2239
4.							3299
5.							

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

Gas Liquid Hydrocarbon Ratio: 314 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 58.5 Deg.
Specific Gravity Separator Gas: .627 XXXXXXXXX
Specific Gravity Flowing Fluid: N/A XXXXX
Critical Pressure: 674 P.S.I.A. P.S.I.A.
Critical Temperature: 361 R R

P_c 2943.2 P_c^2 8662.4

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.	7942.3	2822.3	7965.5	696.9
2.	7718.4	2786.2	7763.0	899.4
3.	7388.6	2748.1	7552.3	1110.1
4.	6271.0	2573.4	6622.3	2040.1
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.246$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4.246$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 14.008$

Absolute Open Flow: 14.008 Mcfd @ 15.025 | Angle of Slope θ: 45° | Slope, n: 1.000

Remarks: *WELL MADE 2 BBLS of 58.5 API GRAVITY CONDENSATE DURING TEST

Approved By Division	Conducted By:	Calculated By:	Checked By:
	PRO WELL TESTING	M.B.	B.M.

OXY U.S.A.

BOBCAT # 1