

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

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

11

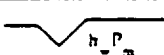
30-015-30573

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

Operator Oxy U.S.A.				Lease or Unit Name Bob Cat			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7-5-99		Well No. 1	
Completion Date 5-29-99		Total Depth 11200		Plug Back TD 11180		Elevation	
Crg. Size 4.5		WL 13.5		Set At 3.92		Perforations: From: 10894 To: 11020	
Crg. Size 2 3/8		WL 4.7		Set At 1.995		Perforations: From: To:	
Type Well - Single - Braidedhead - G.C. 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	
L 10957		H 10957		G _g .627		% CO ₂ .463	
				% N ₂ .343		% H ₂ S 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	Press. p.s.i.g.
1.	3.068	X	1.875	213	6.0	73	2805
2.	3.068	X	1.875	215	11.7	68	2765
3.	3.068	X	1.875	259	35.3	72	2705
4.	3.068	X	1.875	320	63.1	69	2491
5.							
RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1.							841
2.							1167
3.							2239
4.							3299
5.							
GAS VOLUMES MEASURED BY TOTAL FLOW METER							
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/d	
1.					314		
2.					A.P.I. Gravity of Liquid Hydrocarbons 58.5	Deg	
3.					Specific Gravity Separator Gas .627	XXXXXXXXXX	
4.					Specific Gravity Flowing Fluid N/A	XXXXXX	
5.					Critical Pressure 674	P.S.I.A.	
					Critical Temperature 361	R	
P _c 2943.2 P _c ² 8662.4							
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.246$		
1.	7942.3	2822.3	7965.5	696.9	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.246$		
2.	7718.4	2786.2	7763.0	899.4			
3.	7388.6	2748.1	7552.3	1110.1	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 14.008$		
4.	6271.0	2573.4	6622.3	2040.1			
5.							
Absolute Open Flow 14.008				Mcf/d @ 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: PRO WELL TESTING		Calculated By: M. B.		Checked By: B. M.	

OXY U.S.A.
BOBCAT #1

