

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

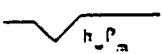
OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Texaco E&P					Lease or Unit Name Bilbrey 32 St. Com				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 2-24-99				
Completion Date 1-22-99		Total Depth 14915		Plug Back TD 13755		Elevation 3742		Well No. 1	
Casing Size 5"		Wt. 18		Sec. At 4.276		Perforations From: 13635 To: 13660		Unit Loc. - Sec. - TWP - Rge. F 32 21-S 32-E	
Log Size 2 3/8		Wt. 4.7		Sec. At 1.995		Perforations From: To:		County Lea	
Type Well - Single - Bradenhead - G.G. or G.C. Multiple Single					Packer Set At 13599		Formation Atoka		
Producing Thru Tba		Reservoir Temp. °F 210		Mean Annual Temp. °F 60°		Baro. Press - P _a 13.2		Connection Air	
L 13599	II 13599	G _g .635	% CO ₂ .398	% N ₂ 7.449	% H ₂ S 0	Prover 0	Meter Run 4.026	Taps F/G	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	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
51						6850		PKR		
1.	4.026 X 2.500		420	6"	86°	6532				60 min
2.	4.026 X 2.500		420	16"	74°	5750				60 min
3.	4.026 X 2.500		420	32"	60°	5170				60 min
4.	4.026 X 2.500		420	44"	60°	3560				60 min
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.	32.64	50.9	433.2	.9795	1.255	1.043	2130
2.	32.64	83.2	433.2	.9868	1.255	1.045	3514
3.	32.64	117.7	433.2	1.000	1.255	1.049	5057
4.	32.64	138.0	433.2	1.000	1.255	1.049	5929
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Modifi.
1.	.81	546	1.50	.919	53.301	Modifi.
2.	.79	534	1.47	.915	47.4	Modifi.
3.	.77	520	1.43	.909	.635	XXXXXXX
4.	.77	520	1.43	.909	49. @ 78°	XXXXXX
5.					672	P.S.I.A. P.S.I.A.
					363	R R

P_c **6863.2** P_c² **47103.5**

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.		6566.2	43115.1	3988.4
2.		5823.1	33908.3	13795.2
3.		5312.4	28221.5	18882.0
4.		3786.0	14333.5	32770.0
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.437$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^a = 1.203$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^a = 7.132$

Absolute Open Flow 7.132	Mcfd @ 15.025	Angle of Slope 63.02	Slope, n .5091
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Remarks ***Well made 13 BBL of 47.4 API Gravity Condensate**

Approved By Division	Conducted By: Pro Well Testing	Calculated By: M.B.	Checked By: B.M.
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