

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 Exploration & Production, Inc.						Lease or Unit Name E.E. Blinberry Federal NCT - 1					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-09-91		Well No. 3			
Completion Date 03-01-91		Total Depth 3608		Plug Back TD		Elevation		Unit Ltr. - Sec. - TWP - Rge. 31 23-S 37-E			
Csg. Size 7"	Wt. d	Set At 3608		Perforations: From: 2983 To: 3223				County Lea			
Tbg. Size 2 3/8"	Wt. d	Set At 2962		Perforations: From: To:				Pool Jalmat			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 2962		Formation Yate 7R Q			
Producing Thru tubing		Reservoir Temp. °F		Mean Annual Temp. °F 60		Baro. Press - P 13.2		Connection vented			
L 2962	H 2962	Gg .660	% CO ₂ .14	% N ₂ 1.92	% H ₂ S	Prover		Meter Run 2.067"	Taps flange		

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
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	
SI							325		PKR		72 hrs.
1.	2	X	1.500	13.4	4.00	75	302		PKR		1 hr.
2.	2	X	1.500	13.5	6.00	78	190		PKR		1 hr.
3.	2	X	1.500	14.0	7.00	80	137		PKR		1 hr.
4.	2	X	1.500	14.7	10.80	80	98		PKR		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 Fg.	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	12.76	10.32	26.6	.9859	1.213	1.005	158
2.	12.76	12.66	26.7	.9831	1.213	1.005	194
3.	12.76	13.80	27.2	.9813	1.213	1.005	211
4.	12.76	17.36	27.9	.9813	1.213	1.005	265
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio N/A Mcf/bbl.		
1.	.06	535	1.41	.991	A.P. I. Gravity of Liquid Hydrocarbons N/A Deg.		
2.	.06	538	1.41	.991	Specific Gravity Separator Gas .680 XXXXXXXXXX		
3.	.06	540	1.42	.991	Specific Gravity Flowing Fluid N/A XXXXXX		
4.	.06	540	1.42	.991	Critical Pressure * 666 P.S.I.A. P.S.I.A.		
5.					Critical Temperature * 379 R R		

$p_c = 338.2$ $p_c^2 = 114.4$				
NO.	p_t^2	p_w	p_w^2	$p_c^2 - p_w^2$
1.		315.7	99.6	14.7
2.		204.3	41.7	72.6
3.		152.0	23.1	91.3
4.		115.0	13.2	101.2
5.				

1) $\frac{p_c^2}{p_c^2 - p_w^2} = 1.130$

AOF = Q $\left[\frac{p_c^2}{p_c^2 - p_w^2} \right]^n = .296$

(2) $\left[\frac{p_c^2}{p_c^2 - p_w^2} \right]^n = 1.115$

Absolute Open Flow 296 Mcfd @ 15.025	Angle of Slope θ 48.3	Slope, n .8908
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Remarks: ***=corrected to 1.92% N₂**

WELL MADE 4.1 BBLs H₂O DURING TEST

Approved By Division	Conducted By: Pro Well Testers	Calculated By: BM	Checked By: BM
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