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State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

NOV 4 1992

O. C. D.
ARTIFICIAL

OIL CONSERVATION DIVISION

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

Tighthead-
Confidentially
Requested

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator TEXACO, INC. ✓				Lease or Unit Name DOW B 33 FED.			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-13-92		Well No. 1	
Completion Date 10-5-92		Total Depth 12050		Plug Back TD 11900		Elevation	
Csg. Size 5 1/2		Wt. 17		Set At 12050		Perforations: From: 11614 To: 11777	
Tbg. Size 2 7/8		Wt. 6.5		Set At 11493		Perforations: From: To:	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single				Packer Set At 11493		Formation Morrow	
Producing Thru tbg.		Reservoir Temp. °F 188.9 @ 11493		Mean Annual Temp. °F 60		Baro. Press - P. 13.2	
L 11493		H 11493		Gg .658		% CO ₂ .54	
				% N ₂ .52		% H ₂ S	
				Prover		Meter Run 4.026	
						Taps Flg.	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	Orifice X 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						2948		Pkr.		72 hr.
1.	4	X 1.500	540	2.6	105	2793		"		1 hr.
2.	4	X 1.500	558	13.00	77	2521		"		1 hr.
3.	4	X 1.500	558	20.00	55	2405		"		1 hr.
4.	4	X 1.500	558	56.00	70	2113		"		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.	10.84	37.93	553.2	.9594	1.233	1.044	508
2.	10.84	86.17	571.2	.9840	1.233	1.058	1199
3.	10.84	106.88	571.2	1.005	1.233	1.068	1533
4.	10.84	178.85	571.2	.9905	1.233	1.058	2505
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.82	565	1.50	.918	289	
2.	.85	537	1/43	.893	A.P. I. Gravity of Liquid Hydrocarbons 53.0 @ 60°	Deg.
3.	.85	515	1.37	.876	Specific Gravity Separator Gas .658	XXXXXXXXXX
4.	.85	530	1.41	.893	Specific Gravity Flowing Fluid XXXXX	6 Mix. = .760
5.					Critical Pressure 670 P.S.I.A.	669 P.S.I.A.
					Critical Temperature 375 R	382 R

P_c 2961.2 P_c² 8768.7

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.103$	2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.103$
1.		2806.8	7878.2	890.5		
2.		2537.8	6440.6	2328.1		
3.		2424.4	5877.5	2891.2		
4.		2144.4	4598.6	4170.1		
5.						

AOF = Q

$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.268$$

Absolute Open Flow	5,268	Mcf/d @ 15.025	Angle of Slope θ	45	Slope, n	1.000
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Remarks: Well made 8.3 BBLS 53.0 @ 60° Condensate during test.

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