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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

OCT - 7 1993

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator TEXACO EXPLORATION					Lease or Unit Name DOW B FED. 33				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9-22-93		Well No. 1		
Completion Date 10-5-92		Total Depth 12050		Plug Back TD 11900		Elevation		Unit Ltr. - Sec. - TWP - Rge. 33 17 31	
Csg. Size	Wt.	d	Set At	Perforations:			County		
5 1/2	17#		12050	From: 11614 To: 11777			EDDY		
Tbg. Size	Wt.	d	Set At	Perforations:			Pool		
2 7/8	6.5	2.441	11493	From: To:			E. Cedar Lake Mor		
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		Connection	
L 11493	H 11493	Gg .662	% CO ₂ .55	% N ₂ .55	% H ₂ S	Prover		Meter Run 3.068	Taps FLG.

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
SI						2758		Pkr.		72 hr
1.	3 X 2.000		462	4.00	96	2686		"		30min
2.	3 X 2.000		464	9.50	102	2662		"		1 hr.
3.	3 X 2.000		486	63.50	56	2461		"		1 hr
4.	3 X 2.000		584	164.00	51	1961		"		1 1/4 hr.
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	21.32	43.60	475.2	.9671	1.229	1.042	1,151
2.	21.32	67.33	477.2	.9619	1.229	1.043	1,770
3.	21.32	178.04	499.2	1.004	1.229	1.059	4,960
4.	21.32	312.95	597.2	1.009	1.229	1.071	8,861
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 36.472 Mcf/bbl.			
1.	.70	556	1.47	.921	A.P. I. Gravity of Liquid Hydrocarbons 52.5 @ 60° Deg.			
2.	.71	562	1.48	.920	Specific Gravity Separator Gas .662		XXXXXXXXXX	
3.	.74	516	1.36	.892	Specific Gravity Flowing Fluid XXXXX		GMTX = .744	
4.	.89	511	1.35	.871	Critical Pressure 670 P.S.I.A.		667 P.S.I.A.	
5.					Critical Temperature 378 R		405 R	

P _c 2771.20 P _c ² 7679.5					1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.661$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.469$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²				
1.		2702.2	7301.8	377.7				
2.		2682.3	7194.7	484.8				
3.		2532.5	6413.7	1265.8				
4.		2189.3	4793.2	2886.4				
5.								

Absolute Open Flow 21,882 Mcfd @ 15.025			Angle of Slope θ 47.3		Slope, n .9238	
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Remarks: **Well made 21.00 BBLS 53.5 API CONDENSATE DURING TEST.**

Approved By Division	Conducted By: PRO WELL TESTERS	Calculated By: BM	Checked By: BM
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