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See Rule 401 & Rule 1122

State of New Mexico
Geology, 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					Lease or Unit Name COOPER JAL				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 3/29/96		Well No. 106		
Completion Date 3/27/96		Total Depth 3587		Plug Back TD 3265		Elevation		Unit Ltr. - Sec. - TWP - Rge. H-18-24S-37E	
Csg. Size 5½	Wt. 14	d 5.012	Set At 3410	Perforations: From: 3074 To: 2958			County LEA		
Tbg. Size 3½	Wt. 9.3	d 2.992	Set At 2906	Perforations: From: To:			Pool Jalmat		
Type Well - Single - Bradenhead - G.G. or H.O. Multiple single				Packer Set At 2906			Formation JAL-MAT		
Producing Thru TBG		Reservoir Temp. °F 89		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection AIR	
L 2906	II 2906	Gg .651	% CO ₂ .061	% N ₂ 2.110	% H ₂ S -0-	Prover -0-	Meter Run 4.026	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						1065				24 hr.
1.	4.026 X	1.750	145	2	76	1000	71	pk.		1 hr.
2.	4.026 X	1.750	155	6	79	925	73	"		1 hr.
3.	4.026 X	1.750	180	22	76	760	76	"		1 hr.
4.	4.026 X	1.750	190	36	75	580	75	"		1 hr.
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$h_w P_m$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	14.93	17.787	158.2	.9850	1.239	1.013	328.3
2.	14.93	31.767	168.2	.9822	1.239	1.014	585.2
3.	14.93	65.195	193.2	.9850	1.239	1.016	1016.0
4.	14.93	85.528	203.2	.9859	1.239	1.018	1587.8
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	2357	536	1.456	.974	N/A	
2.	2506	539	1.464	.973	N/A	
3.	2879	536	1.456	.968	N/A	
4.	3028	535	1.453	.965	N/A	
5.						

A.P. I. Gravity of Liquid Hydrocarbons N/A Deg. Specific Gravity Separator Gas .651 XXXXXXXXXX Specific Gravity Flowing Fluid N/A XXXXXX Critical Pressure 671 P.S.I.A. P.S.I.A. Critical Temperature 368 R R				
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P_c 1078.2 P_c² 1162.5				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.	1026.6	1013.2	1026.7	135.8
2.	880.2	938.4	880.6	281.9
3.	597.8	774.0	599.1	563.4
4.	351.9	595.9	355.1	807.4
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.440}{1.440 - 1.382} = 1.382$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.382$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.194$

Absolute Open Flow 2,194 Mcfd @ 15.025	Angle of Slope θ 48.4	Slope, n .887
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Remarks: **NO FLUID MADE DURING TEST**

Approved By Division	Conducted By: PRO WELL TESTER	Calculated By: MB	Checked By: BM
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