

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6-23-93		API No. 30-025-31957	
Company TEXACO EXPLORATION + PRODUCTION INC.				Connection AIR-VENTED			
Pool UNDESIGNATED				Formation PADDOCK-BLINEBRY		Unit	
Completion Date 6-17-93		Total Depth 7500'		Plug Back TD 5715'		Elevation 6R-3331'	
Farm or Lease Name ELLEN SIMS		Well No. 9		Unit B-3		Sec. Twp. Rge. 23-S 37-E	
Csq. Size 5 1/2	WI. 15.5 + 17	d 4.950	Set At 7500'	Perforations: From 5340' To 5658'			
Tbg. Size 2 7/8	WI. 6.5	d 2.441	Set At 5255	Perforations: From To			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 5255'		County LEA	
Producing Thru TBG-2 7/8		Reservoir Temp. °F 129°		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
State N.M.							
L 5499	H 5499	G _g .709	% CO ₂ 1.11	% N ₂ 1.85	% H ₂ S	Prover	Meter Run 3.068
						Taps FLG.	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X Orifice Size	Press. P.S.I.G.	Diff. In. H ₂ O	Temp. °F	Press. P.S.I.G.	Temp. °F	Press. P.S.I.G.	
SI						1593.2		PKR.	
1.	3.068 x 1.5		85	8	60	1543.2	60	"	
2.	3.068 x 1.5		85	23	60	1518.2	60	"	60 min
3.	3.068 x 1.5		85	51	60	1332.2	60	"	60 min
4.	3.068 x 1.5		85	67	60	1093.2	60	"	60 min
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.	11.13	28.03	98.2	1.00	1.188	1.004	372
2.	11.13	47.53	98.2	1.00	1.188	1.004	607
3.	11.13	70.77	98.2	1.00	1.188	1.004	940
4.	11.13	81.11	98.2	1.00	1.188	1.004	1077
5.							

NO.	R	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.146	520	1.33	.992	48.013	
2.	.146	520	1.33	.992	42.3	
3.	.146	520	1.33	.992	.709	XXXXXXX
4.	.146	520	1.33	.992	XXXXX	Gmix .776
5.					671	669 P.S.I.A.
					391	411 R

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.900$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.900$
1	2381.5	1543.4	2382.2	156.1		
2	2304.9	1518.9	2307.0	231.3		
3	1777.4	1335.1	1782.5	755.8		
4	1195.1	1096.4	1202.2	1336.1		
5						

AOFG = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.046$

Absolute Open Flow	2,046	Mcfd @ 15.025	Angle of Slope @	45°	Slope, n	1.00
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Remarks: 2.6 BBLs 42.3 API GRAVITY OIL MADE DURING TEST

Approved By Division	Conducted By: PRO WELLTESTERS	Calculated By: KS	Checked By: BM
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RECEIVED

JUN 30 1993

AD HOBBS
OFFICE