

Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

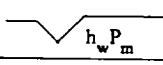
State of New Mexico
Energy, Minerals and Natural Resources Department

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 AND PRODUCTION INC.						Lease or Unit Name N.M. H STATE NCT-2					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2-8-95		Well No. 33			
Completion Date 11-15-94		Total Depth 3670		Plug Back TD 3630		Elevation		Unit Ltr. - Sec. - TWP - Rge N 20 20S 37E			
Csg. Size 5 1/2	Wt. 17#	d 4.892	Set At 3670	Perforations: From: 3142 To: 3602				County LEA			
Tbg. Size 2-3/8	Wt. 4.7#	d 1.995	Set At 3424	Perforations: From: To:				Pool			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At N/A		Formation EUMONT			
Producing Thru CSG		Reservoir Temp. °F 90		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection AIR			
L 3372	H 3372	Gg .847	% CO ₂ 13.13	% N ₂ 1.45	% H ₂ S	Prover		Meter Run 2.067		Taps FLG.	
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	Duration of Flow
SI							40				
1.							25				24 hr.
2.											
3.											
4.											
5.											
RATE OF FLOW CALCULATIONS											
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd				
1.											
2.											
3.	RATE TAKEN FROM ELECTRONIC TOTAL FLOW METER						173				
4.											
5.											
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio DRY Mcf/bbl.						
1.					A.P. I. Gravity of Liquid Hydrocarbons DRY Deg.						
2.					Specific Gravity Separator Gas .847 XXXXXXXXXX						
3.					Specific Gravity Flowing Fluid DRY XXXXX						
4.					Critical Pressure *720 P.S.I.A. P.S.I.A.						
5.					Critical Temperature *413 R R						
P _c 53.2 P _c ² 2.8											
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{2.318}{1.5 - 1.6} = 2.318$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{2.318}{1.2} = 1.93$						
1.	1.5	40.1	1.6	1.2							
2.											
3.											
4.											
5.											
AOFF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 401$											
Absolute Open Flow 401 Mcfd @ 15.025 Angle of Slope Θ 45° Slope, n 1.000											

Remarks: ***CORRECTED TO 13% CO₂ & 1% N₂**

Approved By Division
ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT SUPERVISOR

Conducted By:
PRO WELL TESTERS

Calculated By:
KS

Checked By:
BM

FEB 20 1995

RECEIVED

1 5 1995

HOBBBS
NCE

87-11