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 -3	
Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 10-4 to 10-5	Well No.: 35
Completion Date: 10-5-94	Total Depth: 3565	Plug Back TD: 3536		Elevation: 3524	Unit Ltr. - Sec. - TWP - Rge.: E 19-20S-37E
Csg. Size: 5½	Wt.: 15.5	d: 4.950	Set At: 3565	Perforations: From: 3313 To: 3467	County: Lea
Tbg. Size: 2-3/8	Wt.: 4.7	d: 1.995	Set At: 3304	Perforations: From: To:	Pool:
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: single				Packer Set At: none	Formation: EUMONT YATES 7 RIVE
Producing Thru: TBG.	Reservoir Temp. °F: 93	Mean Annual Temp. °F: 60		Baro. Press - P_a: 13.2	Connection: pipeline

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
3390	3390	.734	4.31	1.81				flg.

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					124				
1.					53				24 hrs.
2.									
3.									
4.									
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, Fpv.	Rate of Flow Q, Mcfd
1.							
2.							382
3.		RATE TAKEN OFF ELECTRONIC TOTAL FLOW METER					
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio: DRY Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: DRY Deg.
Specific Gravity Separator Gas: XXXXXXXXX
Specific Gravity Flowing Fluid: DRY XXXXX
Critical Pressure: 684 P.S.I.A. P.S.I.A.
Critical Temperature: 391 R R

P_c 137.2 P_c^2 18.8

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.	4.4	80.6	6.5	12.3
2.				
3.				
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.527$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.527$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 583$

Absolute Open Flow: 583 Mcfd @ 15.025 | Angle of Slope θ: 45 | Slope, n: 1.000

Remarks:

Approved By Division: OIL CONSERVATION DIVISION BY JERRY SEXTON SUPERVISOR
Conducted By: PRO WELL TESTERS
Calculated By: KS
Checked By: BM

DEC 23 1994