NEW MEXICO OIL CONSERVATION COMMISION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-58

Type Test: [X] Initial [ ] Annual [ ] Special — Test Date: 4-16-82

Company: MOBIL PRODUCING TEXAS & NEW MEXICO, INC. — Connection: NORTHWEST PIPELINE

Pool: BLANCO MESA VERDE — Formation: MESA VERDE — Unit: —

Completion Date	Total Depth	Plug Back TD	Elevation	Farm or Lease Name
4/1/82	6130	6070	7028' G.L.	JICARILLA E

Csg. Size	Wt.	d	Set At	Perforations	Well No.
5½"	15.5#	4.950	6130	From 5581 To 6058	4A

Tbg. Size	Wt.	d	Set At	Perforations	Unit	Sec.	Twp.	Rge.
2 3/8"	4.7#	1.995	5612	From 5576 To 5582	P	11	27N	3W

Type Well – Single – Bradenhead – G.G. or G.O. Multiple	Packer Set At	County
SINGLE	NONE	RIO ARRIBA

Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a	State
TUBING	154 @ 6000	50°F	12.2	NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
5635	5635	0.6943	.494	.277	—	0.75"	2"	—

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI	2"	X	0.75"				1371	—	1372	—	172.75 HR
1.				225	—	80	362	—	921	—	3 HR
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	12.3650	—	237.2	.9813	.9298	1.0249	2743
2							
3.							
4.							
5							

NO.	P_t	Temp. °R	T_t	Z
1	.3535	540	1.3882	.9520
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio 108.85 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 61.34 @ 60°F Deg.
Specific Gravity Separator Gas .6943 XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 671 P.S.I.A. P.S.I.A.
Critical Temperature 389 R R

P_c 1383.2 P_c^2 1913.24

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	140.03	933.2	870.86	1042.38
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8355$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.5761$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 4326 MCFD

Absolute Open Flow 4326 Mcfd @ 15.025 — Angle of Slope θ 53.13 — Slope n 0.75

Remarks: PRODUCED 3.15 BBLS CONDENSATE + 10 BBLS WTR. DURING 3HR. TEST

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	K.D. JONES	J. BOUBEL	