NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: ☒ 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: 4/3/82	Total Depth: 6100	Plug Back T.D.: 6076	Elevation: 7150' G.L.
Farm or Lease Name: JICARILLA F			
Csg. Size: 5½" / Wt.: 15.5# / d: 4.950 / Set At: 6079	Perforations: From 5583 To 6064	Well No.: 8	
Tbg. Size: 2⅜" / Wt.: 4.7# / d: 1.995 / Set At: 5597	Perforations: From 5560 To 5566	Unit: D / Sec.: 24 / Twp.: 27N / Rge.: 3W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE	Packer Set At: 5556'	County: RIO ARRIBA	
Producing Thru: TUBING	Reservoir Temp. °F: 154 @ 6000	Mean Annual Temp. °F: 50°F	Baro. Press. – P_a: 12.2
State: NEW MEXICO			

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
5656	5656	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. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	2" X 0.75"				1570	—	—	—	172.25HR
1.		148	—	84		—	—	—	3HR.
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	—	160.2	.9777	.9298	1.0160	1830
2							
3							
4							
5							

NO.	P_t	Temp. °R	T_t	Z
1	.1955	544	1.1769	.9787
2				
3				
4				
5				

Gas Liquid Hydrocarbon Ratio 30.58 Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons 64.28° @ 60°F Deg.

Specific Gravity Separator Gas .6943 XXXXXXXXX

Specific Gravity Flowing Fluid XXXXX

Critical Pressure 671 P.S.I.A. P.S.I.A.

Critical Temperature 389 R R

P_c 1582.2 P_c^2 2503.36

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	128.16	384.79	148.06	2355.3
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.06286$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.04678$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1916 MCFD

Absolute Open Flow 1916 Mcfd @ 15.025 Angle of Slope θ 53.13 Slope, n 0.75

Remarks: PRODUCED 7.48 BBLS CONDENSATE + 7 BBLS WTR. DURING 3 HR. TEST

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

NEW MEXICO
ONE POINT POTENTIAL TEST DATA

LEASE: JICARILLA CONDUCTED BY: K.D. JONES
WELL NO.: F-8
DATE: _____ 3/4 CHOKE

DATE AND TIME WELL WAS SHUT-IN: 4/9/82 7 AM

TANK SIZE: _____ BBL TANK CONSTANT: _____ BBL/ft OR BBL/IN

TIME TEST STARTED: 11:15 AM
SHUT-IN TUBING PRESS: 1570 psig } DEADWEIGHT TEST
SHUT-IN CASING PRESS: -0- psig - PKR -
BEGINNING TANK GAUGE(S): ____ ft ____ in
____ ft ____ in

TIME TEST ENDED: 2:15 PM
FLOWING TUBING PRESS: 236 psig } DEADWEIGHT TEST
FLOWING CASING PRESS: -0- psig
FLOWING CHOKE PRESS: 149 psig {GAUGE PRESS UPSTREAM OF CHOKE}
FLOWING TEMP @ CHOKE: 84 °F
FINAL TANK GAUGE(S): ____ ft ____ in
____ ft ____ in

OIL PRODUCED DURING TEST: 7.48 BBLS
WATER PRODUCED DURING TEST: 7 BBLS
OIL GRAVITY: 66 ° 74 °F
69.28 @ 60°F

* THE INFORMATION BELOW IS NOT NECESSARY FOR CALCULATING THE WELL'S POTENTIAL BUT IT MAY BE USEFUL FOR ANALYSIS:

TIME	TBG PRESS (PSIG)	CSG PRESS (PSIG)	CHOKE PRESS (PSIG)	CHOKE TEMP (°F)