NEW MEXICO OIL CONSERVATION COMMSSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
AMARILLO PRODUCTION

Type Test: ☒ Initial ☐ Annual ☐ Special — Test Date: 10-18-78

Company: MESA PETROLEUM COMPANY	Connection: EL PASO NATURAL GAS CO.		
Pool: BLANCO, South	Formation: PICTURED CLIFFS	Unit: L	
Completion Date: 8-31-78	Total Depth: 4830	Plug Back TD: 4808'	Elevation:
Farm or Lease Name: STATE COM			
Csg. Size: 5 1/2 — Wt.: — d: — Set At: 4817'	Perforations: From — To	Well No.: #47	
Tbg. Size: 1 1/4" — Wt.: — d: — Set At: 2368	Perforations: From 2252 To 2296	Unit: L — Sec.: 2 — Twp.: 27N — Rge.: 8W	
Type Well – Single – Bradenhead – G.C. or G.O. Multiple: DUAL - GG	Packer Set At:	County: SAN JUAN	
Producing Thru: TUBING	Reservoir Temp. °F: 0	Mean Annual Temp. °F: 68°	Baro. Press. – P_a:	State: NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI							839				
1.			.750			68°	29				1 hr
2.			.750			68°	23				2 hrs
3.			.750			68°	20				3 hrs
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.							
3.							
4.				.9924	.9608	1.054	399
5.							

NO.	P_t	Temp. °R	T_f	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas .650 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c _____ P_c^2 _____

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0014$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0012$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 400$

Absolute Open Flow _____ Mcfd @ 15.025 Angle of Slope θ _____ Slope, n _____

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	GLEN RHODES	M.E. DUDGEON	

NMOCC (5), Dvr. Office, J. Archer, D&M, M&M, El Paso (4), L.C., CTY

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MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

RECEIVED
NOV - 3 1978
AMARILLO PRODUCTION

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 10-18-78	
Company: MESA PETROLEUM COMPANY	Connection: EL PASO NATURAL GAS CO.			Unit: JLF ✓ SD	GD BC TLS
Pool: BLANCO	Formation: MESAVERDE				
Completion Date: 8-31-78	Total Depth: 4830	Plug Back TD: 4808'	Elevation:	Farm or Lease Name: STATE COM	
Csg. Size: 5 1/2 / Wt.: 14# / d: K55 / Set At: 4817		Perforations: From To		Well No.: #47	
Tbg. Size: 2 1/16 / Wt.: / d: / Set At: 4583		Perforations: From 3944' To 4288'		Unit: L / Sec.: 2 / Twp.: 27N / Rge.: 8W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: DUAL - G.G.		Packer Set At:		County: SAN JUAN	
Producing Thru: TUBING	Reservoir Temp. °F: @	Mean Annual Temp. °F: 71°	Baro. Press. – P_a:	State: NEW MEXICO	
L: / H: / Gg: .650	% CO_2:	% N_2:	% H_2S:	Prover: 3/4	Meter Run: / Taps:

FLOW DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI							1044				
1.			.750			68°	307				1 hr
2.			.750			69°	245				2 hr
3.			.750			71°	254				3 hr
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.							
3.							
4.				.9896	.9608	1.059	3112
5.							

NO.	P_t	Temp. °R	T_t	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas .650 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c _____ P_c^2 _____

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0677$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0504$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3269$

Absolute Open Flow _____ Mcfd @ 15.025 Angle of Slope θ _____ Slope, n _____

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	GLEN RHODES	M. E. DUDGEON	

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