

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

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

30-015-29850

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Texaco E & P					Lease or Unit Name Cotton Draw				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9-18-98 234				
Completion Date 8-28-98		Total Depth 16499		Plug Back TD		Well No. 86		Unit Lr. - Sec. - TWP. - Rge. 12-25-31	
Csg. Size 5 1/2		Wt. 20		Set At 4.778		Perforations: 16471-16499		County Lea Eddy	
Tbg. Size 3 1/2		Wt. 12.95		Set At 2.750		Perforations: 16365		Pool NW Paduca Dev.	
Type Well - Single - Bradenhead - G.G. or G.C. Multiple Single					Packer Set At 16365				
Producing Thru Tbg		Reservoir Temp. °F 60°		Mean Annual Temp. °F 60°		Baro. Press. - P. 13.2		Formation Devonian	
L 16396		II 16396		Gg. .585		% CO ₂ 1.76		% N ₂ 1.23	
						% H ₂ S 0		Prover N/A	
								Meas. Run 5.761	
								Taps F/G	

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
1.	5.761	X	2.000	797.8	9.8	119°	4869.8	80°	pkR		1 hr
2.	5.761	X	2.000	804.8	18.4	89°	4559.8	78°	pkR		1 hr
3.	5.761	X	2.000	811.8	28.7	87°	4319.8	78°	pkR		1 hr
4.	5.761	X	2.000	816.8	40.0	84°	3999.8	76°	pkR		1 hr
5.											

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (21 HOUR)		Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1.							2236
2.							3266
3.							4037
4.							4900
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	N/A	Mc/Std
1.					A.P.I. Gravity of Liquid Hydrocarbons	N/A	Deg.
2.					Specific Gravity Separator Gas	.585	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	N/A XXXXX	
4.					Critical Pressure	675	PSIA
5.					Critical Temperature	346	R

NO.	P _i ²	P _w	P _w ²	P _i ² - P _w ²
1.		4888.5	23897.8	3801.3
2.		4585.2	21024.4	6674.7
3.		4352.3	18942.2	8757.0
4.		4042.7	16343.2	11356.0
5.				

1) $\frac{P_i^2}{P_i^2 - P_w^2} = 2.43$ (2) $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1.89$

AOF = Q $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 9.261$

Absolute Open Flow	9.261	Mcfd @ 15.025	Angle of Slope θ	54.2	Slope, n	.7211
--------------------	-------	---------------	------------------	------	----------	-------

Remarks: ***No fluid made during test**

Approved By Division	Conducted By: Pro Well Testing	Calculated By: M. B.	Checked By: B. M.
----------------------	--	--------------------------------	-----------------------------

RECEIVED
JUL 29 1958
BLM
ROSWELL, NM