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JAN 12 1983

NEW MEXICO OIL CONSERVATION COMMISSION
DELIVERABILITY TEST REPORTJAN 20 1983 Form C-122-C
Revised 9-1-65

AMARILLO PRODUCTION

O. C. D.
ARTESIA, OFFICE

Type Test ☐ Initial ☐ Annual ☐ Special				Test Date 12-13-82			
Company Mesa Petroleum Company				Connection Natural Gas Pipeline			
Pool White City Penn				Formation Morrow		Unit	
Completion		Total Depth 11573		Plug Back TD 11453		Elevation 3374	
Farm or Lease Name Ogden State Com.							
Csg. Size 4.50	Wt. 13.5	d 3.920	Set At 11573	Perforations: From 11049 To 11453		Well No. #2- E	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 10949	Perforations: From To		Unit Sec. Twp. Rge. G 2 25S 26E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At 10944		County Eddy	
Producing Thru		Reservoir Temp. °F @ 154		Mean Annual Temp. °F 60° F.		Baro. Press. - P _a 13.2	
State New Mexico							
L 10944	H 10944	Gg. 0.574	% CO ₂ 0.810	% N ₂ 0.740	% H ₂ S	Prover	Meter Run 3.068
Taps Flanges							
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Choke Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Duration of Flow
SI	3.068	x	1.875	318	0"	76°	2.5 hr
1.	3.068	x	1.875	416	31"	70°	2.5 hr
NO.	Coefficient (24-Hour)		$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor Fpv
1.	18.29		115.35	429.2	0.9905	1.320	1.126
NO.	P _r	Temp. R.	T _r	Z	Gas Liquid Hydrocarbon Ratio Dry Gas Mct/bbl.		
	3.52	530	1.54	0.789	A.P.I. Gravity of Liquid Hydrocarbons Dry Gas Deg.		
	P _d 75%(429.2) = 321.9				Specific Gravity Separator Gas 0.574 XXXXXXXXXXXX		
	P _d ² 103620				Specific Gravity Flowing Fluid XXXXX		
	P _c 2903.2 P _c ² 8428570				Critical Pressure 675 p.s.i.a. p.s.i.a.		
					Critical Temperature 344 R R		
	Pf 3110 Pf ² 9672100						
NO.	P _t	P _t ²	P _c ² - P _t ²	P _w	P _w ²	P _c ² - P _w ²	P _s
	2373.2	5632078	2796492	2431.6	5912679	2515891	3109.2
							96671.25
							4975

$$\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \left[\frac{8324950}{2515891} \right] = 3.308947$$

$$\text{Log} \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = 0.51969$$

$$\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 3.308947$$

$$n \text{ Log} \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = 0.51969$$

$$\text{Deliv.} = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n$$

Deliv. 1614 Mcfd
n 1
unknown
(Source of n)

Commission _____

Company Precision Service, Inc.

Others _____

Copy to NMCCD (3), Prod. Records, M.E. CAUSEY, C.T. YOAKAM, L.M. CARNES, DeGOLVER & MACNAUGHTON.