

✓Z-D
-F

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

Form C-122
Revised 9-1-65

RECEIVED

MAY 17 1983

Type Test ☐ Initial ☐ Annual ☒ Special						Test Date 5-10-83		Recompletion	
Company DEPCO, INC.				Connection GNM					
Pool West Kutz				Formation Pictured Cliffs				Unit	
Completion Date 5-3-83		Total Depth 1920' GL		Plug Back TD 1886'		Elevation 6098' GL		Farm or Lease Name Mudge A	
Chq. Size 2.875	Wt. 6.5#	Set At 1920' GL	Perforations: From 1849' To 1859'		Well No. 7				
Tbg. Size 1.315	Wt. 1.68#	Set At 1849'	Perforations: From To		Unit L		Sec. 6	Twp. 27N	Rge. 11W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At		County San Juan	
Producing Thru Tbg.		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps	

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
51							256#		256#		7 day SI
1.	1"						-		207#		3 hrs.
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1							147
2.							
3.							
4.							
5.							

NO.	P _i	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.										
2.										
3.										
4.										
5.										

NO.	P _i	P _w	I _w ²	I _e ² - I _w ²
1	268	219	47961	23863
2				
3				
4				
5				

(1) $\frac{P_e^2}{P_e^2 - I_w^2} = 3.0098$

AOR = Q $\left[\frac{P_e^2}{P_e^2 - I_w^2} \right]^n = 375$

(2) $\left[\frac{P_e^2}{P_e^2 - I_w^2} \right]^n = 2.5513$

Absolute Open Flow	375	Unit = 15.025	Angle of Slope	85
--------------------	-----	---------------	----------------	----

Approved by (Company)	Conducted by Crum	Calculated by Crum	Checked by
-----------------------	----------------------	-----------------------	------------