

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7-9-85	
Company El Paso Natural Gas		Connection	
Pool Basin		Formation Dakota	
Completion Date 7-9-85		Total Depth 6456	Plug Back TD 6443
Elevation 6060 GR		Farm or Lease Name Huerfano Unit	
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 6459
Perforations: From 6211 To 6326		Well No. #105E	
Teg. Size 2.375	Wt. 4.7	d 1.995	Set At 6291
Perforations: From To		Unit Sec. Twp. Rge. L 29 27 10	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At None	County San Juan
Producing Thru Tbg.	Reservoir Temp. °F a	Mean Annual Temp. °F	Baro. Press. - P _a 12
State New Mexico			
L	H	G _g .700	% 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	
1			.750	153		81	1237		1371		7 Days
2							153		484		3 Hrs.
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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		165	.9804	.9258	1.018	1885
2							
3							
4							
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2					Specific Gravity Separator Gas _____ XXXXXXXXXX
3					Specific Gravity Flowing Fluid _____ XXXXX
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5					Critical Temperature _____ R _____ R

P _r 1383	P _r ² 1912698	
NO.	P _r	P _w
1	496	246016
2		
3		
4		
5		

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = \frac{1912698}{1666673}$		(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.1088$	
ACF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2090$			

Absolute Open Flow	2090	Mcf/d @ 15.025	Angle of Slope @	Slope, n .75
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Remarks: Slugs of oil at start of test - surges of oil & water during test.
Gas vented during test = 301 MCF.

Approved By Commission:	Conducted By: Don Norton	Calculated By: Ed Mabe	Checked By: kld
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