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11/1

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6-3-92	
Company PREMIER PRODUCTION		Connection AIR	
Pool W/C U/Penn		Formation UPPER PENN	
Completion Date 5-27-92		Total Depth 11300	Plug Back TD 10305
		Elevation n/a	Form or Lease Name EDDY IV
Csg. Size 5.5	Wt. 17	d 4.892	Set At 11300
Perforations: From 10014 To 10028		Well No. #1	
Thg. Size 2.375	Wt. 4.7	d 1.995	Set At 9750
Perforations: From 9850 To 9860		Unl. Sec. Twp. Rge. H 25 20 27	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple SINGLE		Packer Set At 9750	County EDDY
Producing Thru TBG. (GAS) 168" 9980		Mean Annual Temp. °F 60	State NEW MEXICO
L 9939	H 9939	G _g 0.713	% CO ₂ 0.0
		% N ₂ 0.81	% H ₂ S 0.0
		Prover 0.0	Meter Run 3.0
		Taps FLG.	

FLOW DATA					TUBING DATA		BHP DATA		Duration of Flow		
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							2915	60	4612	168	0.0
1.	3.0 x 1.0			145	58	60	2750	60	4428	168	1.0
2.	3.0 x 1.5			150	10	60	2575	60	4252	168	1.0
3.	3.0 x 1.5			150	53	60	2225	60	3834	168	1.0
4.	3.0 x 1.5			155	98	60	2100	60	3446	168	1.0
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, F _{pv}	Rate of Flow Q, Mcfd
1	4.789	77.53	158.2	1.000	1.184	1.034	454.6
2	11.13	40.39	163.2	1.000	1.184	1.041	554.2
3	11.13	93.00	163.2	1.000	1.184	1.058	1296.7
4	11.13	128.39	168.2	1.000	1.184	1.071	1812.0
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1				0.9366	A.P.I. Gravity of Liquid Hydrocarbons	59.1
2				0.9234	Specific Gravity Separator Gas	0.713
3				0.8944	Specific Gravity Flowing Fluid	XXXXXX
4				0.8712	Critical Pressure	662.26
5					Critical Temperature	384.19

NO.	P _t	P _w	P _t ²	P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n =$
1		4428	19.61	1.66		
2		4252	18.08	3.19		
3		3834	14.70	6.57		
4		3446	11.87	9.40		
5						

Absolute Open Flow		3381	Mcf @ 15.025	Angle of Slope θ	Slope, n	0.838
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Remarks: CHOKE SIZES : FIRST RATE= 6/64, SECOND= 8/64, THIRD= 11/64
FOURTH= 13/64, BOTTOM HOLE PRESSURE MEASURED WITH BOMBS.

Approved By Division	Conducted By KELTIC SERVICES	Calculated By JIM SMITH	Checked By:
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