

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

Form C-122
Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special						Test Date: 5-18-85			
Company: READ & STEVENS				Connection: TO AIR					
Pool:				Formation: MORROW				Unit:	
Completion Date:		Total Depth: 13830		Plug Hole: 13733		Elevation: 0		Farm or Lease Name: NORTH LEA FEDERAL	
Well Size: 7.000	Wt.: 29.0	d: 6.184	Set At: 13830	Perforations: From 12944 To 13246		Well No.: 1-Y			
Fig. Size: 2.375	Wt.: 4.7	d: 1.995	Set At: 12911	Perforations: From 0 To 0		Unit: I 10 20S 34E			
Type Well - Single - (Foredome) - G.O. or G.O. Multiple: SINGLE						Packer Set At: 12911		County: LEA	
Producing thru: TUBING		Reservoir Temp. °F: 208		Mean Annual Temp. °F: 13120		Baro. Press. - P _a : 60.0		State: NEW MEXICO	
L: 13120	H: 13120	Q _g : 0.681	% CO ₂ : 0.42	% N ₂ : 0.59	% H ₂ S: 0	Prover: 0	Meter Run: 3.1	Type: flange	

FLOW DATA						TUBING DATA		B.H.P. 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.	
SI							3955	208	6229	
1.	3.07 x 1.500			240	2.0	90	3472	208	5662	4/64
2	3.07 x 1.500			245	5.2	80	3188	208	5222	7/64
3	3.07 x 1.500			255	24.0	66	2520	208	4122	9.5/64
4	3.07 x 1.500			260	32.0	75	1752	208	3227	11.5/64
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{NP_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super. Compress. Factor F _{sp}	Rate of Flow Q, Mcfd
1	11.13	22.50	253.2	0.9723	1.2118	1.0234	302
2	11.13	35.93	258.2	0.9813	1.2118	1.0250	487
3	11.13	80.23	268.2	0.9943	1.2118	1.0285	1106
4	11.13	93.50	273.2	0.9859	1.2118	1.0271	1277
5							

NO.	R	Temp. °R	Q	Z	Gas Liquid Hydrocarbon Ratio: 9.8	A.P.I. Gravity of Liquid Hydrocarbons: 56.000	Specific Gravity Separator Gas: 0.681	Specific Gravity Flowing Fluid: XXXXXX	Critical Pressure: 669	Critical Temperature: 382
1	0.38	550	1.44	0.955				XXXXXXX		
2	0.39	540	1.42	0.952				XXXXXXX		
3	0.40	526	1.38	0.945				XXXXXXX		
4	0.41	535	1.40	0.948				XXXXXXX		
5								XXXXXXX		

NO.	P ₁ ²	P _w ²	R ₁ ²	P _c ² - R _w ²	(1) $\frac{P_d^2}{R_1^2 - R_w^2} = 1.2029$	(2) $\left[\frac{R_1^2}{R_1^2 - R_w^2} \right]^n = 1.2029$
1		3655	13357	3957		
2		3270	10692	6622		
3		2360	5567	11747		
4		1709	2921	14393		
5						

Absolute Open Flow: 1536		Mcfd @ 15.025		Angle of Slope: 45.0		Slope, n: 1.000	
Remarks: B.H.P. MEASURED WITH AMERADA PRESSURE ELEMENT							
Approved By: [Signature] Conducted By: BENNETT, C. CATHRYN Calculated By: RICHARD, TOWNLEY Checked By:							