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appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator JACK L. PHILLIPS CO.				Lease or Unit Name ISLER FED					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 1-20-01		Well No. 1	
Completion Date 10-20-00		Total Depth 10,200		Plug Back TD 9445		Elevation 4041		Unit Ltr - Sec - TWP - Rge A Sec 26 T9S R30E	
Csg. Size 4 1/2	Wt. 10.5	d 4.052	Set At 9445	Perforations: From: 9145 To: 9382				County CHAVES	
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 9120	Perforations: From: 9145 To: 9382				Pool Many Gates Morrow	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 9120				Formation Morrow	
Producing Thru TUBING		Reservoir Temp. °F 165.2		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		Connection SALES	
L 9120	H 9120	Gg 0.666	%CO ₂ 0.864	%N ₂ 0.855	%H ₂ S N/A	Prover N/A	Meter Run 2.067	Taps FLG	

FLOW DATA				TUBING DATA				CASING DATA		Duration of Flow
No.	Prover Line Size	Orifice x 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	
S1						1200	N/A	PKR	N/A	
1		2.067 X .750	140	58	50	650				24 HRS.
2										
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	3.401	94.3	153.2	1.01	1.225	1.058	320
2							
3							
4							
5							

No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	64000	Mcft/bbl.
1	0.75	510	1.36	0.893	A.P. I. Gravity of Liquid Hydrocarbons	46	Deg.
2					Specific Gravity Separator Gas	.666 / G.MIX = .716	XXXXXX
3					Specific Gravity Flowing Fluid	N/A	XXXXXX
4					Critical Pressure	673	P.S.I.A. 671 P.S.I.A.
5					Critical Temperature	374	R. 391 R

No.	P _c	P _w	P _w ²	P _c ² - P _w ²
1	1213.2	665.7	443.1	1028.7
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.431}{1.431 - 0.443} = 1.431$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 458$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.431$

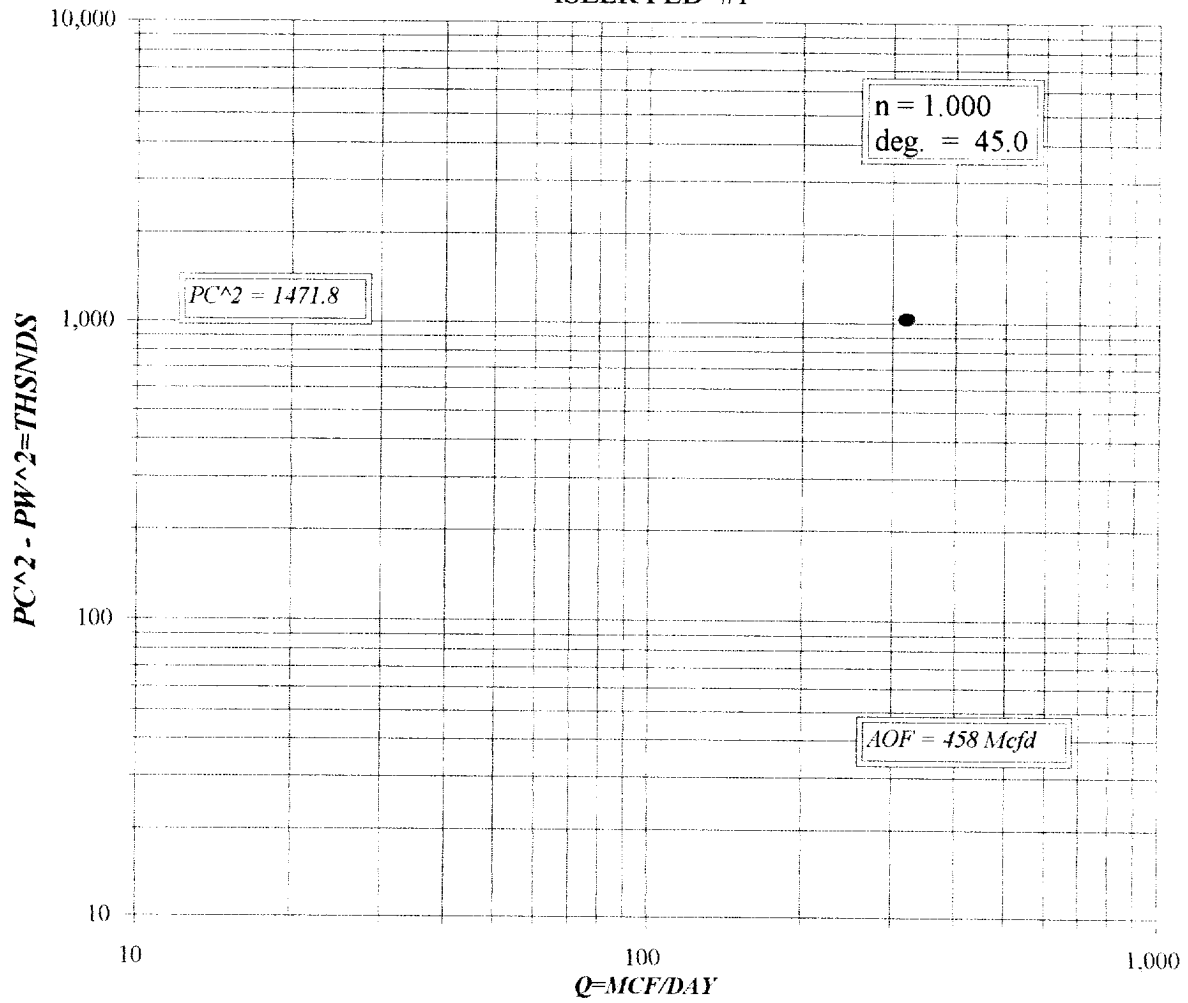
Absolute Open Flow	458	Mcfd @ 15.025	Angle of Slope (°):	45	Slope n:	1
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Remarks: *** WELL MADE 5 BBLS OF 46 API GRAVITY OIL DURING TEST.**

Approved By Division:	Conducted By: PRO WELL TESTING	Calculated By: MERV BUECKER	Checked By: BM
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GWW

JACK L. PHILLIPS CO.
ISLER FED #1



UNIT : SECTION : TOWNSHIP :
 L : 9120 H : 9120 1 G/CMIX : 0.716
 %CO2 : 0.864 %N2 : 0.885 DATE :
 d : 1.995 Pr : 0.018231 GH : 6529.9 RANGE :

VOL 1 : 320 PSIA 1 : 663.2 RESV. TEMP 165.2
 VOL 2 : PSIA 2 :
 VOL 3 : PSIA 3 : SHUT-IN PR= 1213.2
 VOL 4 : PSIA 4 :

PCR : 671
 TCR : 391

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND
1 QM	0.320	0.320	0.000	0.000	0.000	0.000	0.000	0.000
2 TW	534	534	534	534	534	534	534	534
3 Ts	625.2	625.2	625.2	625.2	625.2	625.2	625.2	625.2
4 T	579.6	579.6	579.6	579.6	579.6	579.6	579.6	579.6
PR (est)	0.99		0.00		0.00		0.00	
5 Z(est)	0.877	0.865	ERR	ERR	ERR	ERR	ERR	ERR
6 TZ	508.6	501.1	ERR	ERR	ERR	ERR	ERR	ERR
7 GH/TZ	12.840	13.032	ERR	ERR	ERR	ERR	ERR	ERR
8 eS	1.618	1.630	ERR	ERR	ERR	ERR	ERR	ERR
9 l-e-S	0.382	0.387	ERR	ERR	ERR	ERR	ERR	ERR
10 Pt	663.2	663.2	0.0	0.0	0.0	0.0	0.0	0.0
11 Pt2 /1000	439.8	439.8	0.0	0.0	0.0	0.0	0.0	0.0
12 Pr	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231
13 Fc=FrTZ	9.272	9.135	ERR	ERR	ERR	ERR	ERR	ERR
14 FcQm	2.97	2.92	ERR	ERR	ERR	ERR	ERR	ERR
15 L/H(FcQm)	8.8	8.5	ERR	ERR	ERR	ERR	ERR	ERR
16 Fw	3.363965	3.303517	ERR	ERR	ERR	ERR	ERR	ERR
17 Pw2	443.2	443.1	ERR	ERR	ERR	ERR	ERR	ERR
18 Ps2	717.3	722.4	ERR	ERR	ERR	ERR	ERR	ERR
19 Ps	846.9	849.9	ERR	ERR	ERR	ERR	ERR	ERR
20 P	755.1	756.6	ERR	ERR	ERR	ERR	ERR	ERR
21 Pr	1.13	1.13	ERR	ERR	ERR	ERR	ERR	ERR
22 Tr	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48
23 Z	0.865	0.864	ERR	ERR	ERR	ERR	ERR	ERR

Pt2 : 3.8 Pw = 665.7
 0.0 ERR
 0.0 ERR
 0.0 ERR

Pc2-Pw2= 1028.7 Pw2 = 443.1
 ERR ERR
 ERR ERR
 ERR ERR

n = 1.000

Pc2/(Pc2-Pw2) = 1.431
 ERR
 ERR
 ERR

[Pc2/Pc2-Pw2]n = 1.431
 ERR
 ERR
 ERR

AOF= Q 0.458
 ERR
 ERR
 ERR

FORM C122-D