

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2008

SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-7845P
File

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5/10/88 MAY 19 '88	
Company McClellan Oil Corp				Connection Air	
Pool S. Pecos Slope No. 1				Formation Abo	
Completion Date 5-13-88				Total Depth 4823	
Plug Back TD 4822				Elevation 2182 GP	
Farm or Lease Name Penjack Fed.				Unit 7	
Csg. Size 2 1/2		Wt. d		Set At 4550	
Thq. Size 2 3/8		Wt. d		Set At 4550	
Perforations: From 4604 To 4613		Perforations: From open To ends		Well No. 7	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At None		County Chaves	
Producing Thru Tubing		Reservoir Temp. °F 60		Baro. Press. - P _a 13.2	
State N.M.		L		H	
G _g		% CO ₂		% N ₂	
% H ₂ S		Provez 2"		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	
SI							977		975		
1.	2	X	3/32	902		60	902		910		1 hr
2.	2	X	1/8	801		60	801		807		"
3.	2	X	3/16	507		55	507		534		"
4.	2	X	7/32	350		55	350		380		"
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	.1410		915.2	1.0000	1.2413	1.0983	176
2	.2648		814.2	1.0000	1.2413	1.0865	290
3	.6082		520.2	1.0048	1.2413	1.0549	416
4	.8393		363.2	1.0048	1.2413	1.0374	394
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 _____ XXXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 1207.2 P _c ² 1457				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		1133.2	1284	173
2		1025.2	1051	406
3		742.2	551	906
4		610.2	372	1084
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.608$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 532$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2806$

Post ID-2
6-17-88
comp 4 BK

Absolute Open Flow _____ 532 _____ Mcfd @ 15.025	Angle of Slope Θ _____ 62.5 _____	Slope, n _____ .5206 _____
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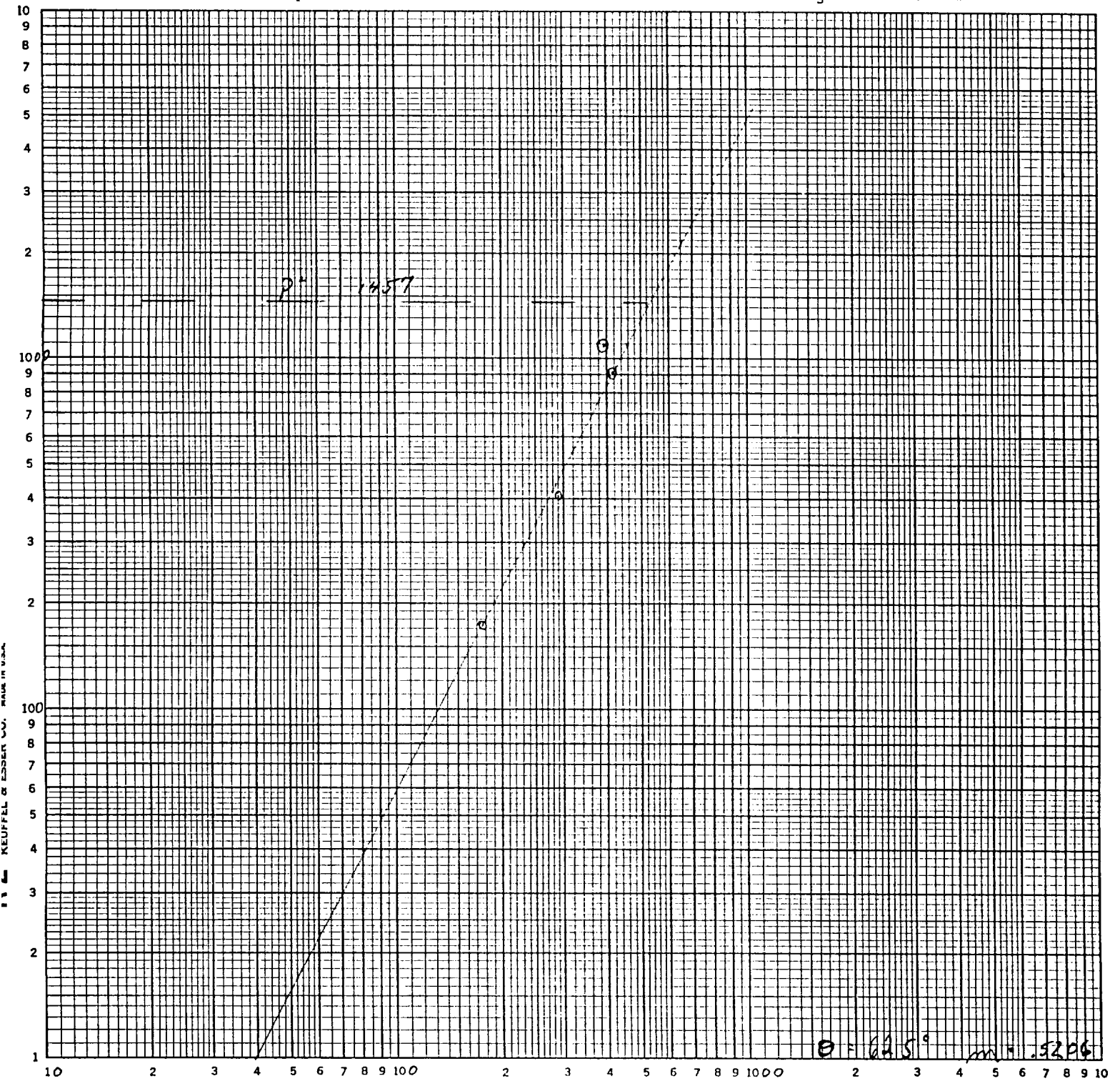
Remarks: Bottom hole pressures recorded with Amerada type gauge.

Approved By Division	Conducted By: KELTIC SERVICES	Calculated By: Kelly	Checked By:
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McClellan Oil Corp

5/10/88

Penjack Fed. #7



Q
MSCPD

TIME	HOURS	PRESSURE	PSIA
0.00		523.20	
.25		682.20	
.50		744.20	
.75		831.20	
1.00		914.20	
1.25		963.20	
1.50		986.20	
1.75		1025.20	
2.00		1043.20	
2.25		1053.20	
2.50		1068.20	
2.75		1076.20	
3.00		1081.20	
3.25		1086.20	
3.50		1091.20	
3.75		1093.20	
4.00		1096.20	
4.25		1100.20	
4.50		1100.20	
4.75		1101.20	
5.00		1102.20	
6.00		1106.20	
7.00		1108.20	
8.00		1111.20	
9.00		1111.20	
10.00		1112.20	
15.00		1116.20	
20.00		1118.20	
30.00		1121.20	
40.00		1123.20	
50.00		1125.20	
60.00		1126.20	
70.00		1127.20	

THANK YOU