

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

451
File
Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2/18/83		FEB 23 1983	
Company McCLELLAN OIL CORP ✓				Connection Air		O. C. D.	
Pool Peecos Slope <i>Hand. H/L</i>				Formation Abo		ARTESIA, OFFICE	
Completion Date 2/12/82		Total Depth 4200		Play Back TD 4160 4110		Elevation 3542 Gr	
Csg. Size 4 1/2		Wt. 10.5		Set At 4200 TD		Perforations: From 3816 To 4035	
Trg. Size 2 3/8		Wt. 4.7		Set At 1.995		Perforations: From Openned To Ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		Turn or Lease Name Beavers Fee	
Producing Thru Tubing		Reservoir Temp. °F 98 @ 4000		Mean Annual Temp. °F 60		Buro. Press. - P _g 13.2	
L		H		Gg .661		% CO ₂	
				% N ₂		% H ₂ S	
				Prover 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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI							1026	45	1030	
1.	2		3/16	516		48	1000		1030	1 hr
2.	2		3/16	980		64	981		1010	"
3.	2		5/16	730		68	770		965	"
4.	2		5/8	290		64	500		890	"
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, Mgd
1	.6082		529.2	1.068	1.230	1.064	428
2	.6082		994.2	.996	1.230	1.109	822
3	1.6720		743.2	.992	1.230	1.077	1633
4	6.473		303.2	.996	1.230	1.030	2477
5							

NO.	P _g	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	Mcf/abl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Dep.
2.					Specific Gravity Separator Gas	X X X X X X X X
3.					Specific Gravity Flowing Fluid	X X X X X
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²	(i) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(ii) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	1146	1125	1295	48	3.429	2.449
2		1110	1261	82		
3		1038	1105	238		
4		962	951	392		
5						

Absolute Q _{sc} Flow 6063				Mcf/15.025		Angle of Slope G 54		Slope, n .727	
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Remarks: Bottom hole pressures recorded with Amerada type gauge

Approved by & Countersign:	Conducted by: KELTIC SERVICES	Calculated by: M. Kelly	Checked by:
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*Post ID-2
3-4-83
Comp & BK*