

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

Form C-122
 Revised 9-1-65

RECEIVED

Type Test: ☒ Initial ☐ Annual ☐ Special						Test Date: 11/23/82		DEC 1 1982	
Company: McCLELLAN OIL CORP ✓				Connection: Air				O. C. D.	
Pool: Peecos Slope <i>Und. Abo</i>				Formation: Abo				Unit: ARTESIA, OFFICE	
Completion Date: 11/12/82		Total Depth: 4250		Plug Back TD: 4166		Elevation: 3651 Gr		Farm or Lease Name: Santa Fe Fee	
Csg. Size: 4 1/2	Wt.: 10 7/8	d:	Set At: 4217	Perforations: From 4028 To 4038		Well No.: 1			
Trg. Size: 2 3/8	Wt.: 4.7	d: 1.995	Set At: 3958	Perforations: From Open To Ended		Unit: I	Sec.: 8	Twp.: 9S	Rge.: 25E
Type Well - Single - Prodenhead - G.G. or G.O. Multiple: Single						Packer Set At: None		County: Chaves	
Producing Thru: Tubing		Reservoir Temp. °F: 98° 4000		Mean Annual Temp. °F: 60		Baro. Press. - P _a : 13.2		State: New Mexico	
L:	H:	G _g : .65	% CO ₂ :	% N ₂ :	% H ₂ S:	Prover:	Meter Run: 2"	Pipe:	

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.	
51							1009		1000	
1.	2	X	1.375	58	3	33	925		900	1 hr
2.	2	X	1.375	80	44	39	762		820	"
3.	2	X	1.375	78	59	36	735		800	"
4.	2	X	1.375	110	76	39	575		690	"
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. Compens. Factor F _{pv}	Rate of Flow Q, Mscf/d
1	13.74	14.62	71.2	.9737	1.24	1.026	249
2	13.74	64.04	93.2	.9796	1.24	1.026	1097
3	13.74	73.35	91.2	.9767	1.24	1.026	1252
4	13.74	96.76	123.2	.9796	1.24	1.026	1647
5							

NO.	P _i	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mscf/STB.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
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 671 _____ P.S.I.A. _____ P.S.I.A.
5					Critical Temperature 373 _____ R _____ R

NO.	P _i	P _w	P _w ²	P _i ² - P _w ²	(1) $\frac{P_i^2}{P_i^2 - P_w^2} = 2.44$	(2) $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1.736$
1		1259.2	1583	61		
2		1168.2	1365	279		
3		1122.2	1259	385		
4		985.2	971	673		
5						

Absolute Open Flow: 2400 Mscf/d @ 14.625 Angle of Slope α: 66 Slope, n: .649

Remarks: Bottom hole pressures recorded with Amerada type gauge.

Approved By: _____	Conducted By: KETIC SERVICES	Calculated By: Kelly	Checked By: _____
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Post ID-2
 12-3-82
 Comp. & BK

McCELLIAN OIL CORP

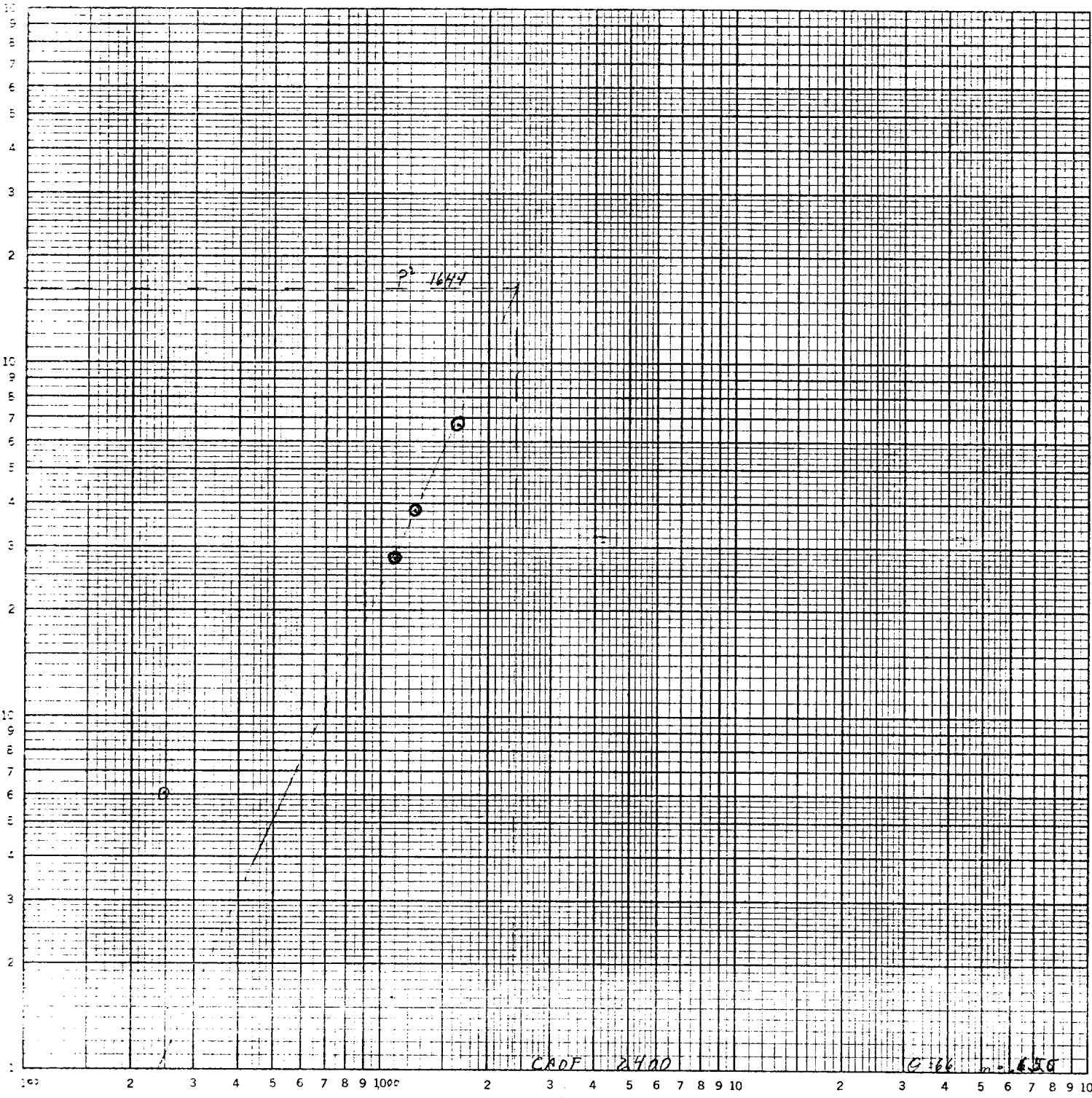
Santa Fe Fee #1

Nov 23 1982

467400

$p^2 - p^2(000)$

LOGARITHMIC 3 X 3 CYCLES
KLUITEL & LESSER CO. MADE IN U.S.A.



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MSCPPP