

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
RECEIVED 10-1-78
c/s! File

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

JAN 24 '90

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 1-17-90			
Company McCLELLAN OIL CORP.				Connection ENRON				G.S.D. ARTESIA, OFFICE	
Pool S. Pecos Slope Abo				Formation ABO				Unit	
Completion Date 7/25/89		Total Depth 4420'		Plug Back TD 4339'		Elevation 3623' G.L.		Farm or Lease Name LEEMAN	
Csg. Size 4-1/2		Wt. 10.5#		Set At 4.052		Perforations: From 3911 To 4234		Well No. 5	
Thg. Size 2-3/8		Wt. 4.7#		Set At 1.995		Perforations: From OPEN To ENDED		Unit Sec. Twp. Rye. K 1 9 25	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple SINGLE						Packer Set At NONE		County CHAVES	
Producing Thru TUBING		Reservoir Temp. °F 121° 4073		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State NEW MEXICO	
L 4073		H 4073		G _g .66		% CO ₂		% N ₂	
						% H ₂ S		Prover	
								Meter Run 2	
								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
1.	2	x	.375	200	27	50	430		435		1 hr.
2.	2	x	.375	215	46	50	416		425		"
3.	2	x	.375	220	76	55	400		405		"
4.	2	x	.375	225	105	55	380		390		"
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	.6689	75.87	213.2	1.009	1.231	1.0228	65
2	.6689	102.46	228.2	1.009	1.231	1.0245	87
3	.6689	134.87	233.2	1.005	1.231	1.0242	114
4	.6689	158.15	238.2	1.005	1.231	1.0248	134
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
1.					Specific Gravity Separator Gas _____	XXXXXX
2.					Specific Gravity Flowing Fluid _____	XXXXXX
3.					Critical Pressure _____ P.S.I.A.	_____ P.S.I.A.
4.					Critical Temperature _____ R	_____ R
5.						

P _c 505.2 P _c ² 255.2				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		487.2	237.2	17.86
2		472.2	222.9	32.25
3		454.2	206.2	49.00
4		432.2	186.8	68.40
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 3.73$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 276$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.06$$

Absolute Open Flow 276 Mcfd @ 15.025		Angle of Slope 61	Slope, n .55
Remarks:			
Approved By Division			
Conducted By: KELTIC SERVICES		Calculated By: MIKE KELLY	
Checked By:			

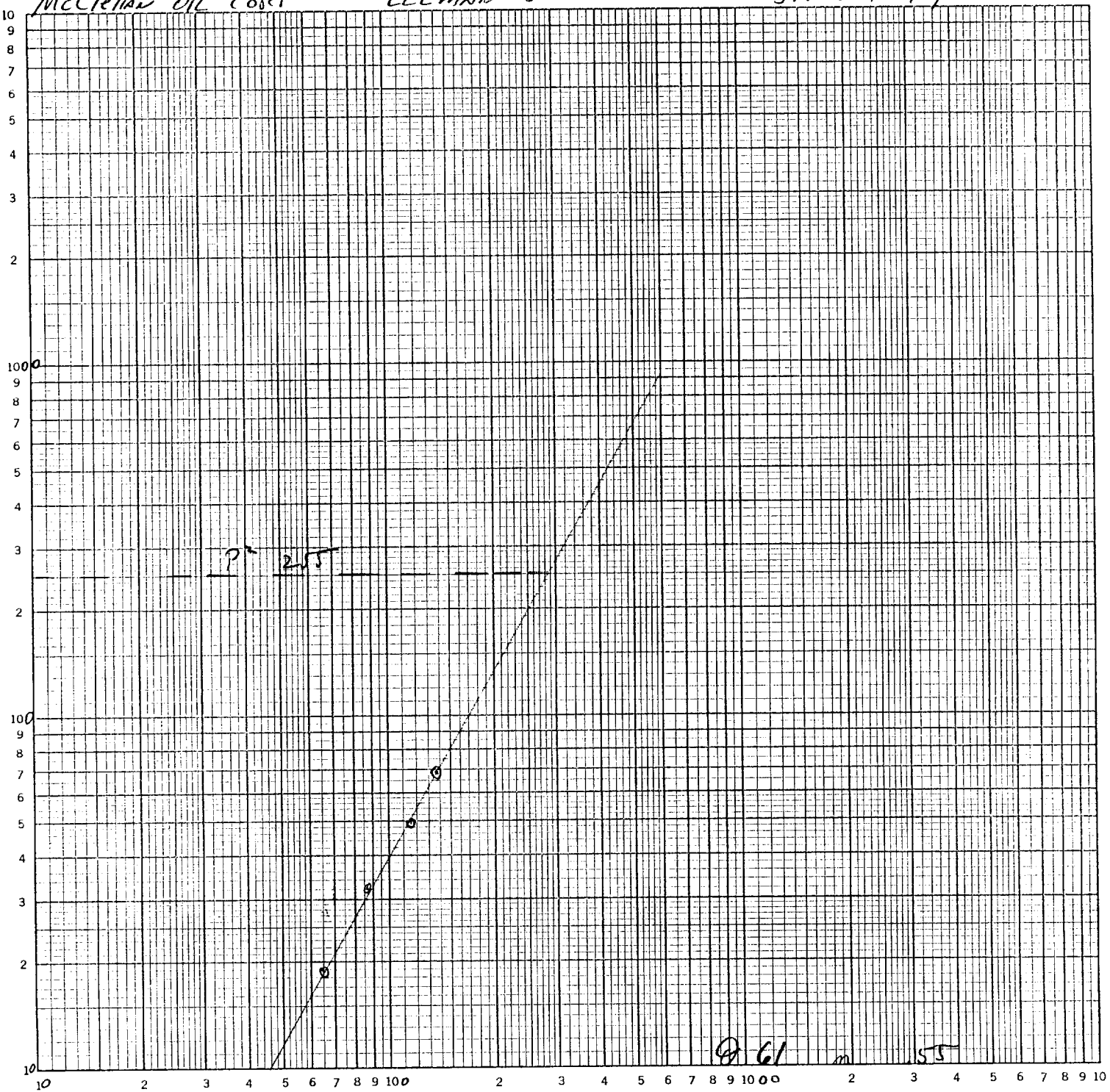
McClellan OIL COSE?

LEEMAN #5

JANUARY 17, 1990

$P^2 - P^2 (w.o.)$ 467400

K*E LOGARITHMIC 3 X 3 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.



Q
MSCFPD