STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

clr File

RECEIVED
OCT 13 '87
O. C. D.
ARTESIA, OFFICE

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [XX] Initial [ ] Annual [ ] Special		Test Date: 7/30/87	
Company: McClellan Oil Corp.	Connection		
Pool: S. Pecos Slope Abo	Formation: Abo		Unit
Completion Date: 7/30/87	Total Depth: 4540'	Plug Back TD: 4495'	Elevation: 3680' GR
Farm or Lease Name: MM Federal			
Csg. Size: 4½" / Wt.: 9.5 / d: / Set At: 4495'	Perforations: From 4088' To 4233'		Well No.: 8
Tbg. Size: 2-3/8" / Wt.: 4.7 / d: / Set At: 4150'	Perforations: From To		Unit: G / Sec.: 25 / Twp.: 9S / Rge.: 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: None		County: Chaves
Producing Thru: tubing	Reservoir Temp. °F: @	Mean Annual Temp. °F:	Baro. Press. – P_a:
State: NM			

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.648	.06	6.90		2"	-	-

	FLOW DATA						TUBING DATA		CASING DATA		
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	Duration of Flow
SI							932		932		
1.	2	X	.375		-		541	76	559	76	¼ hour
2.	2	X	.375		-		427	76	447	76	½ hour
3.	2	X	.375		-		265	80	335	80	1 hour
4.	2	X	.375		-		148	84	245	84	23 hours
5.	2	X	.375		-		148	84	245	84	24 hours

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	2.378			.9971	1.243	1.060	1600
2.	2.378			.9868	1.243	1.060	1500
3.	2.378			.9943	1.243	1.060	1100
4.	2.378			.9915	1.243	1.060	800
5.	2.378			.9915	1.243	1.060	482

NO.	P_t	Temp. °R	T_r	Z
1		360	1.48	.869
2.		360	1.48	.890
3.		360	1.48	.893
4.		360	1.48	.933
5		360	1.48	.933

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 932 P_c^2 868

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		559	312	247
2		447	199	248
3		335	112	223
4		245	60	185
5		148	22	126

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.5$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.5$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 500$

Absolute Open Flow 492 Mcfd @ 15.025 Angle of Slope θ 55 Slope, n 1.5

Remarks:

Approved By Division	Conducted By:	Calculated By:	Checked By:

FORM 2448

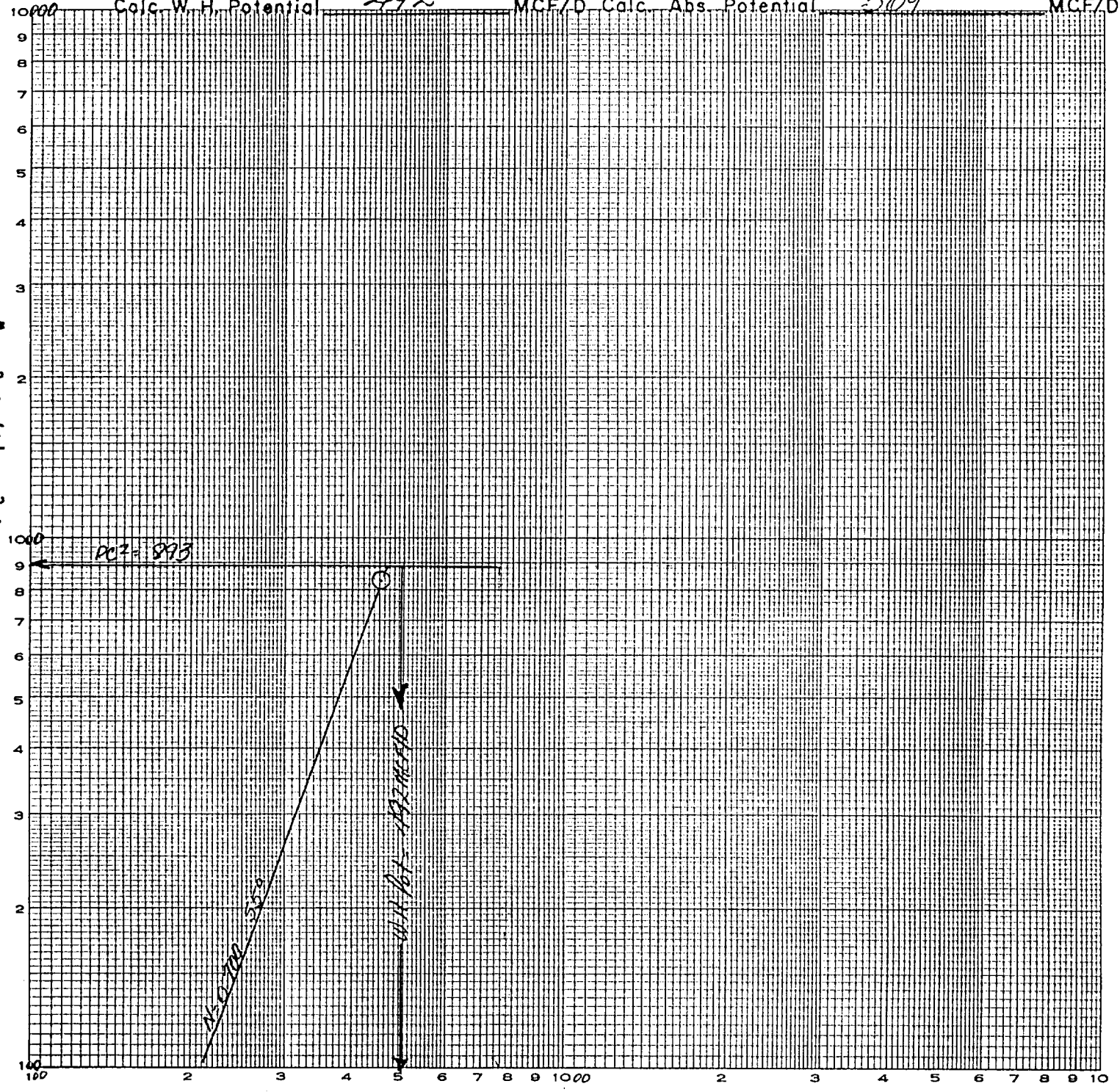
BACK PRESSURE CURVE

Operator McClellan Oil Lease MEM Federal Well No. 8

County Chaves Field Pecos Slope Abo Location 25-9S-25E

Date of Test 7-30-87 Slope "n" .700 W. H. .700 Abs.

Calc. W. H. Potential 492 MCF/D Calc. Abs. Potential 509 MCF/D



Q in MCF/Day

EUGENE DIETZGEN CO. MADE IN U. S. A.

NO. 341-L22 DIETZGEN GRAPH PAPER
LOGARITHMIC
2 CYCLES X 2 CYCLES