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

RECEIVED
JAN 12 '89
O. C. D.
ARTESIA, OFFICE

dsf
File

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 12/13/88	
Company: MCKAY OIL CORPORATION		Connection: Air			
Pool: ~~West~~ North Pecos Slope Abo		Formation: Abo Sand		Unit: West Fork Unit	
Completion Date: 12-13-88	Total Depth: 4584'	Plug Back TD: 3260'	Elevation: 4450 KB	Farm or Lease Name: West Fork Unit	
Csg. Size: 4-1/2" / Wt.: 10.5 / d: 4.052 / Set At: 3290'		Perforations: From 3041 To 3090		Well No.: #1	
Tbg. Size: 2-3/8" / Wt.: 4.7 / d: 1.995 / Set At: 3019'		Perforations: From -- To --		Unit: C / Sec.: 32 / Twp.: 4S / Rge.: 22E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: None		County: Chaves	
Producing Thru: Tubing	Reservoir Temp. °F: 90 @ 3065	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
3065	3065	0.620	0.00	5.105	0.00	2.000	--	--

	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						1170		1190		SI 72 HRS.
1.	2.00	0.375	123	--	50	1140	60	1144	60	SI 60 Min.
2.	2.00	0.500	152	--	48	1102	60	1109	60	SI 60 Min.
3.	2.00	0.625	153	--	45	1039	60	1051	60	SI 60 Min.
4.	2.00	0.875	141	--	45	824	60	876	60	SI 60 Min.
5.										

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	--	136.2	1.0098	1.2700	1.012	420
2.	4.279	--	165.2	1.0117	1.2700	1.015	922
3.	6.473	--	166.2	1.0147	1.2700	1.015	1407
4.	13.000	--	154.2	1.0147	1.2700	1.014	2619
5.							

NO.	P_t	Temp. °R	T_f	Z
1	0.20	510	1.43	0.976
2.	0.24	508	1.43	0.971
3.	0.24	505	1.42	0.971
4.	0.22	505	1.42	0.973
5.				

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 1203.2 P_c^2 1447.7

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1157.2	1339.1	108.6
2		1122.2	1259.3	188.4
3		1064.2	1132.5	315.2
4		889.2	790.7	657.0
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.204$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.942$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5087$

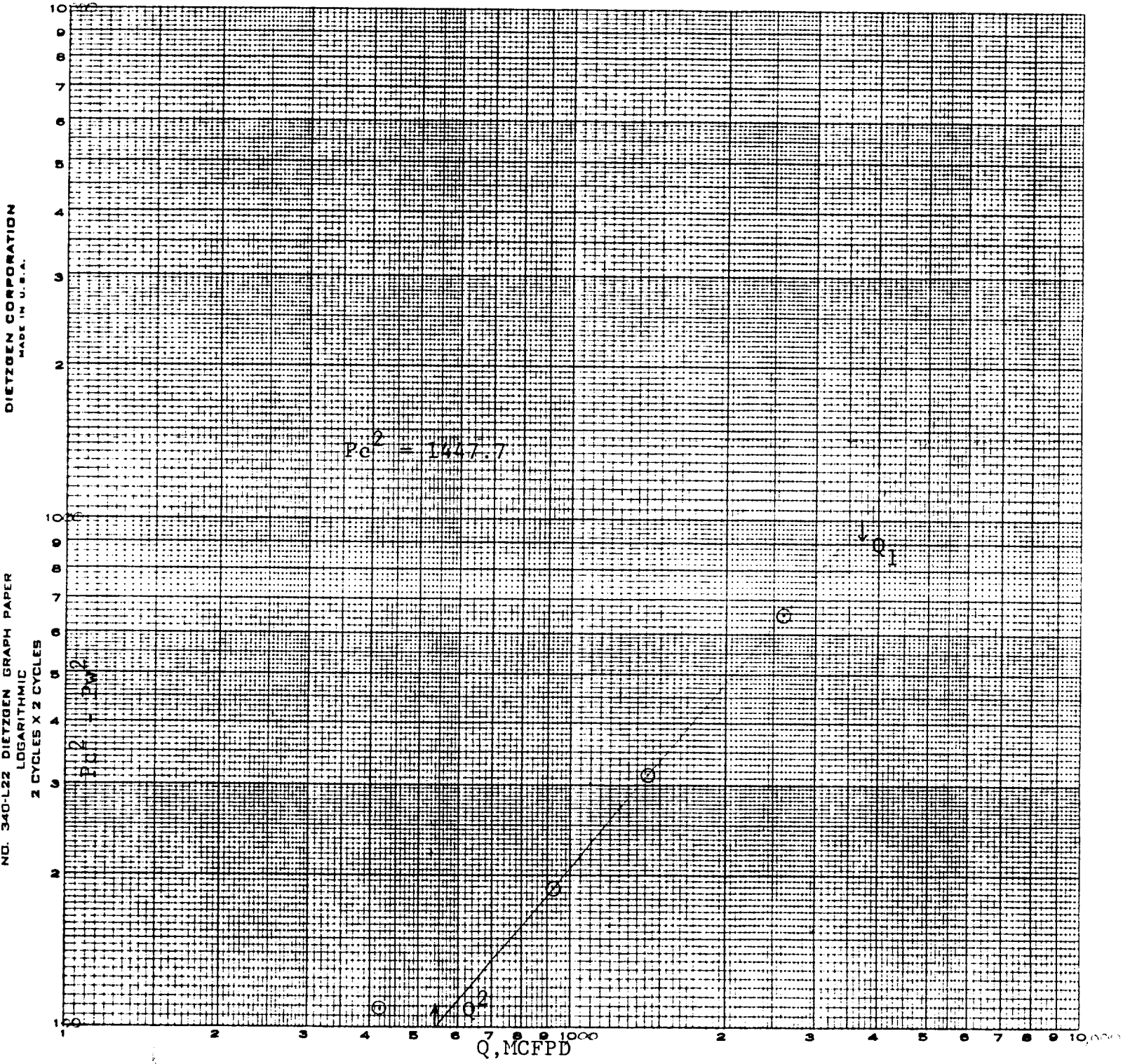
Absolute Open Flow 5087 Mcfd @ 15.025 Angle of Slope θ 49.97 Slope, n 0.84

Remarks: No fluid produced. Choke sizes: 13/64, 17/64, 20/64, 26/64

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Dale Kelton	Charles Sanders	Patti Stewart

MCKAY OIL CORPORATION
West Fork Unit #1
N/W 32, T4S, R22E
Chaves Co., N.M.

12/13/88



Q_1 = 3700; log = 3.5682
Q_2 = 540; log = 2.7324
0.8358

n = 0.84

CAOF = 5,087 MCFPD