STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

Form C-122
Revised 10-1-78

RECEIVED BY
APR 15 1987
O. C. D.
ARTESIA, OFFICE

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: 4POINT [XX] Initial [ ] Annual [ ] Special				Test Date: 1/23/87	
Company: MCKAY OIL CORP.		Connection: TO AIR			
Pool: W. PECOS SLOPE ABO		Formation: ABO		Unit:	
Completion Date: 1/20/87	Total Depth: 3400	Plug Back TD: 3345	Elevation: 4311	Farm or Lease Name: FOUR MILE DRAW Fed	
Csg. Size: 4.5 / Wt.: 9.5 / d: 4.090 / Set At: 3383		Perforations: From 2822 To 2895.5		Well No.: 7	
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 2776		Perforations: From OPEN ENDED To		Unit: K / Sec.: 13 / Twp.: 6S / Rge.: 22E	
Type Well – Single – Bradenhead – G.C. or G.O. Multiple: SINGLE		Packer Set At: NONE		County: CHAVES	
Producing Thru: TUBING	Reservoir Temp. °F: 98 @ 2859	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
2859	2859	.638	0	5.079	0	2.00	0	0

NO.	FLOW DATA: Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CSG. DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							768	30	766	30	72HRS
1.	2.00		.125	748	0.00	32	748	32	748	32	60MIN
2.	2.00		.1875	712	0.00	33	712	33	715	33	60MIN
3.	2.00		.250	644	0.00	34	644	34	655	34	60MIN
4.	2.00		.3125	553	0.00	35	554	35	577	35	60MIN
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	0.2648	0.00	761.2	1.028	1.252	1.087	282
2	0.6082	0.00	725.2	1.027	1.252	1.080	613
3	1.087	0.00	657.2	1.026	1.252	1.071	993
4	1.672	0.00	566.2	1.025	1.252	1.061	1289
5							

NO	P_t	Temp. °R	T_r	Z
1	1.15	492	1.37	.846
2	1.10	493	1.38	.857
3	.99	494	1.38	.872
4	.86	495	1.38	.889
5				

Gas Liquid Hydrocarbon Ratio 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 0 Deg.
Specific Gravity Separator Gas .638 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX .638
Critical Pressure 661 P.S.I.A. 661 P.S.I.A.
Critical Temperature 358 R 358 R

P_c 779.2 P_c^2 607

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		761.2	579	28
2		728.2	530	77
3		668.2	445	161
4		590.2	348	259
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.3436$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.7952$

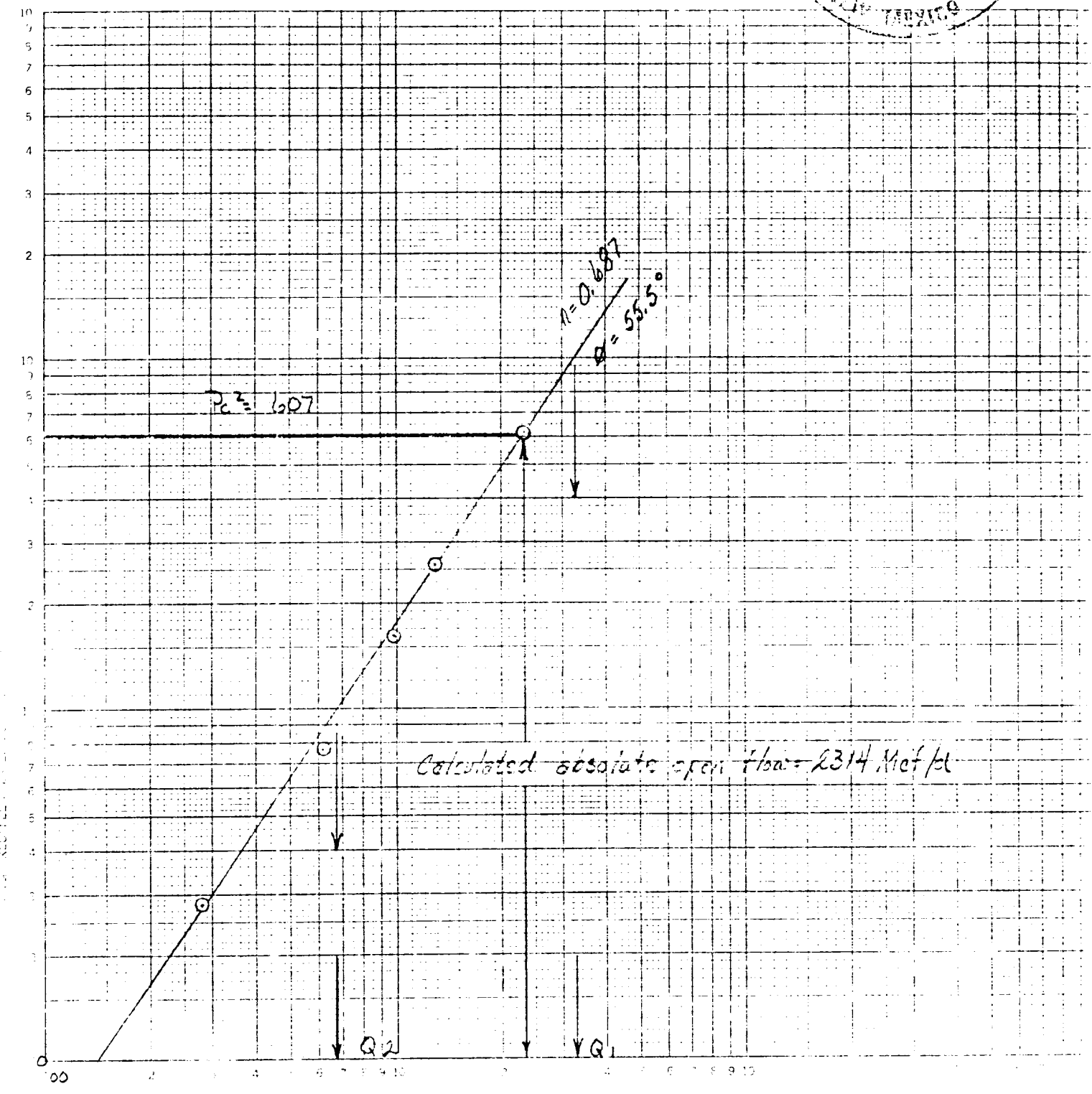
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2314$

Absolute Open Flow 2314 Mcfd @ 15.025 Angle of Slope θ 55.5 Slope, n .687

Remarks:

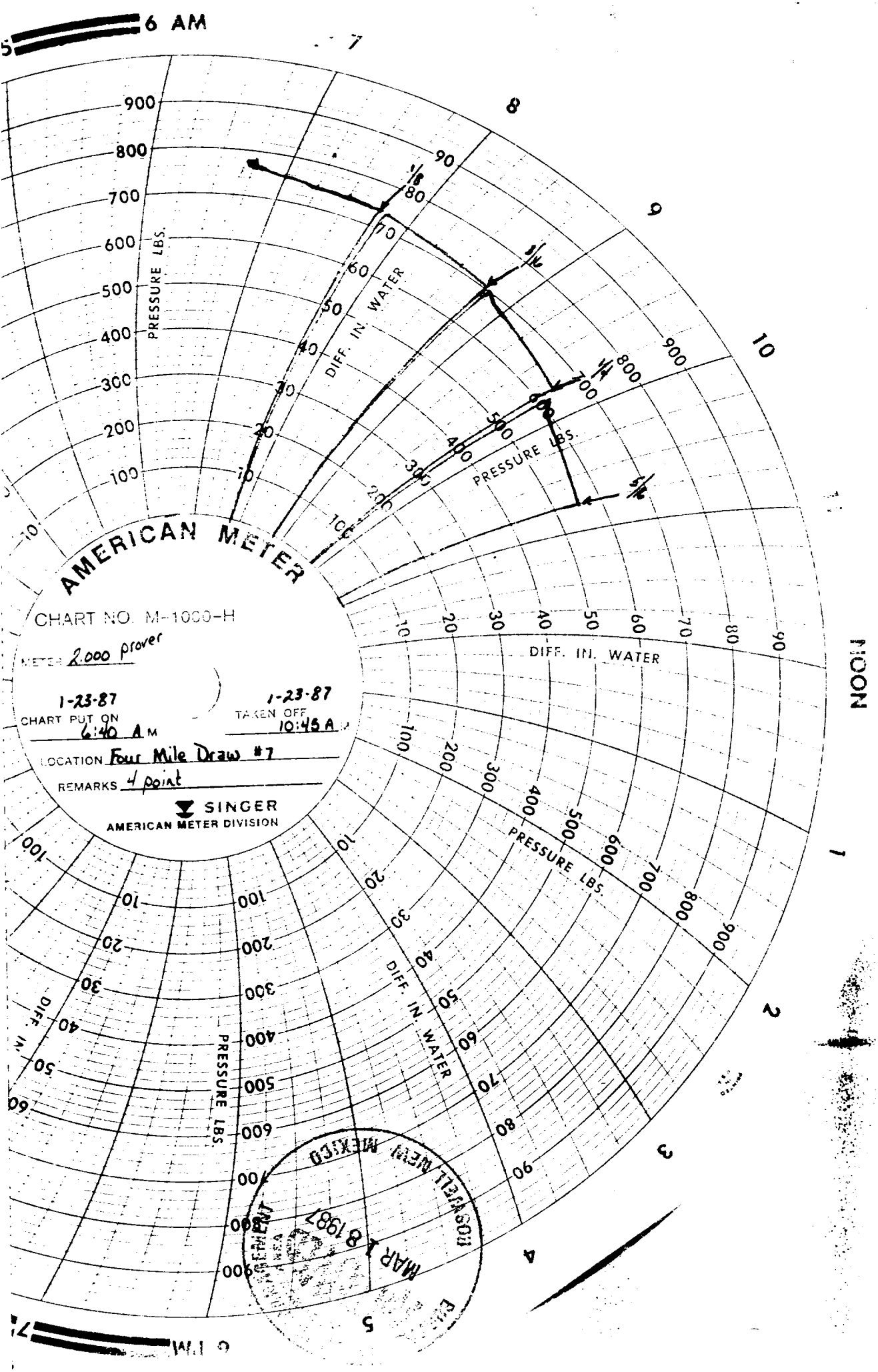
Approved By Division	Conducted By:	Calculated By:	Checked By:

Four Mile Draw
13 - 6S - 22E
Chaves County
1-23-87



$Q_1 = 3283$
$Q_2 = 675$

$\log Q_1 = 3.5163$
$\log Q_2 = 2.8293$
$n = 0.687$


6 AM
NOON
AMERICAN METER
CHART NO. M-1000-H
METER 2.000 prover
1-23-87
CHART PUT ON 6:40 A M
1-23-87
TAKEN OFF 10:45 A M
LOCATION Four Mile Draw #7
REMARKS 4 point
SINGER
AMERICAN METER DIVISION
PRESSURE LBS.
DIFF. IN. WATER
1/8
1/4
1/2
MAR 28 1987
ROSWELL, NEW MEXICO