EW MEXICO OIL CONSERVATION CC SSION

Form C-122-
Revised 1-65

CSF file

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

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

Type Test: 4POINT [X] Initial [ ] Annual [ ] Special				Test Date: 2/11/87	
Company: MCKAY OIL CORP.			Connection: TO AIR		Unit
Pool: W. PECOS Slope ABO			Formation: ABO		
Completion Date: 2/8/87	Total Depth: 3378		Plug Back T.D.: 3241	Elevation: 4261	Farm or Lease Name: 4 MILE DRAW Fed
Csg. Size: 4.5 / Wt.: 9.5 / d: / Set At: 3326			Perforations: From 2818.5 To 3141		Well No.: 5
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 2762			Perforations: From OPEN To ENDED		Unit: E / Sec.: 14 / Twp.: 6S / 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: 100@ 2980		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
2980	2980	0.609	0.172	6.467	Ø	2.000	Ø	Ø

FLOW DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F
SI						
1.	2.000		.09375	750	0.00	60
2.	2.000		.125	720	0.00	68
3.	2.000		.1875	620	0.00	70
4.	2.000		.21875	530	0.00	70
5.						

TUBING DATA		CASING DATA		Duration of Flow
Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
780	58	780	58	72HRS
750	60	750	60	60MIN
720	68	720	68	60MIN
620	70	620	70	60MIN
530	70	530	70	60MIN

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	0.1410	0.00	763.2	1.000	1.281	1.058	146
2	0.2648	0.00	733.2	.9924	1.281	1.055	260
3	0.6082	0.00	633.2	.9905	1.281	1.048	512
4	0.8393	0.00	543.2	.9905	1.281	1.040	602
5							

NO.	P_t	Temp. °R	T_f	Z
1	1.16	520	1.51	.893
2.	1.11	528	1.53	.899
3.	.96	530	1.54	.911
4.	.82	530	1.54	.924
5				

Gas Liquid Hydrocarbon Ratio: Ø Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Ø Deg.
Specific Gravity Separator Gas: 0.609 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX 0.609
Critical Pressure: 660 P.S.I.A. 660 P.S.I.A.
Critical Temperature: 345 R 345 R

P_c 793.2 P_c^2 629

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		763.2	582	47
2		733.2	538	91
3		633.2	401	228
4		543.2	295	334
5				

(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 2.75877$ (2) $\left[\frac{P_c^2}{P_t^2 - P_w^2}\right]^n = 2.24062$

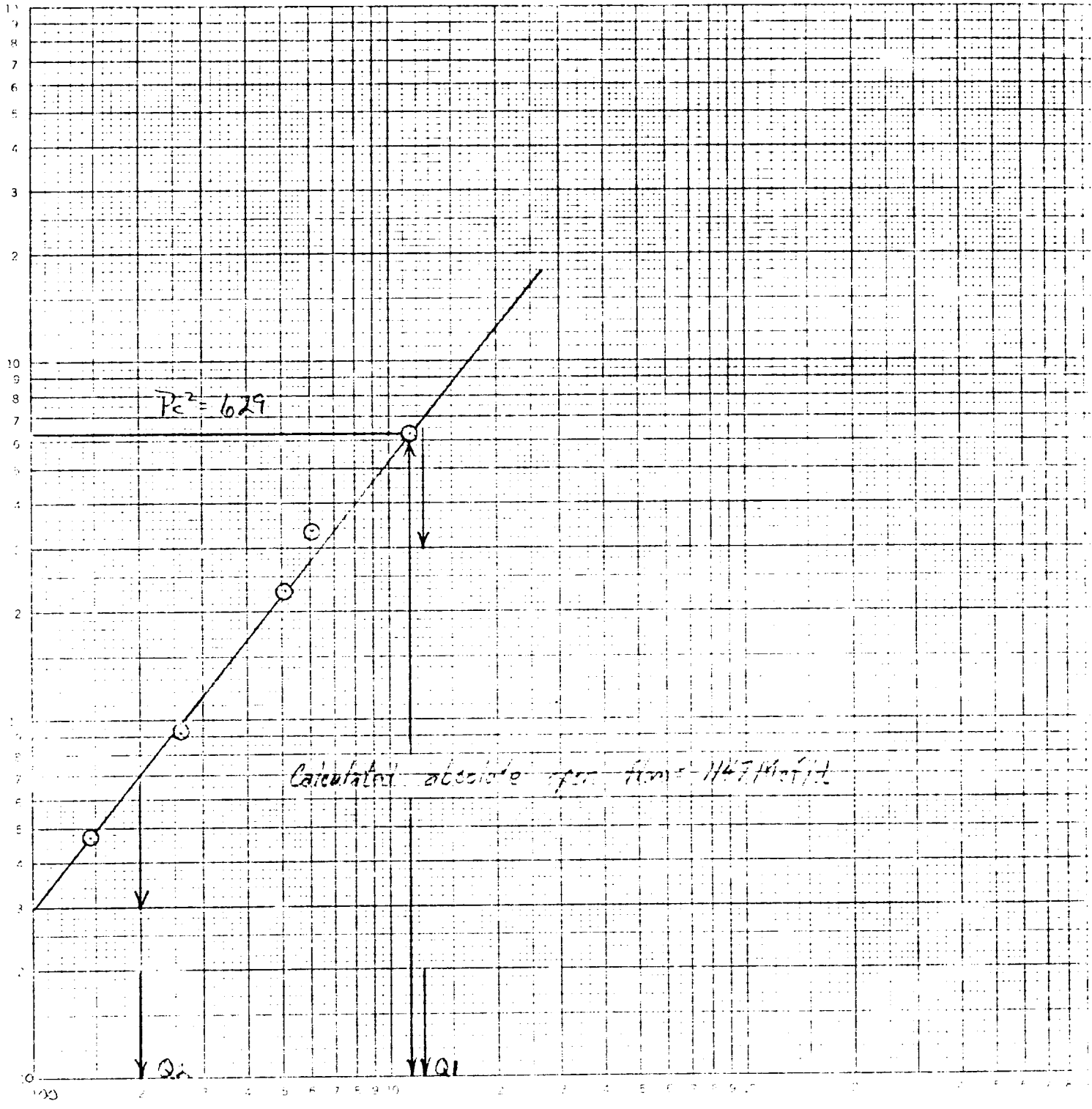
AOF = Q $\left[\frac{P_t^2}{P_c^2 - P_w^2}\right]^n = 1147.0$

Absolute Open Flow: 1147.0 Mcfd @ 15.025 | Angle of Slope θ: 51.5 | Slope, n: 0.795

Remarks:

Approved By Commission	Conducted By	Calculated By	Checked By
	Bennett & Cathey	Richard Fenley	

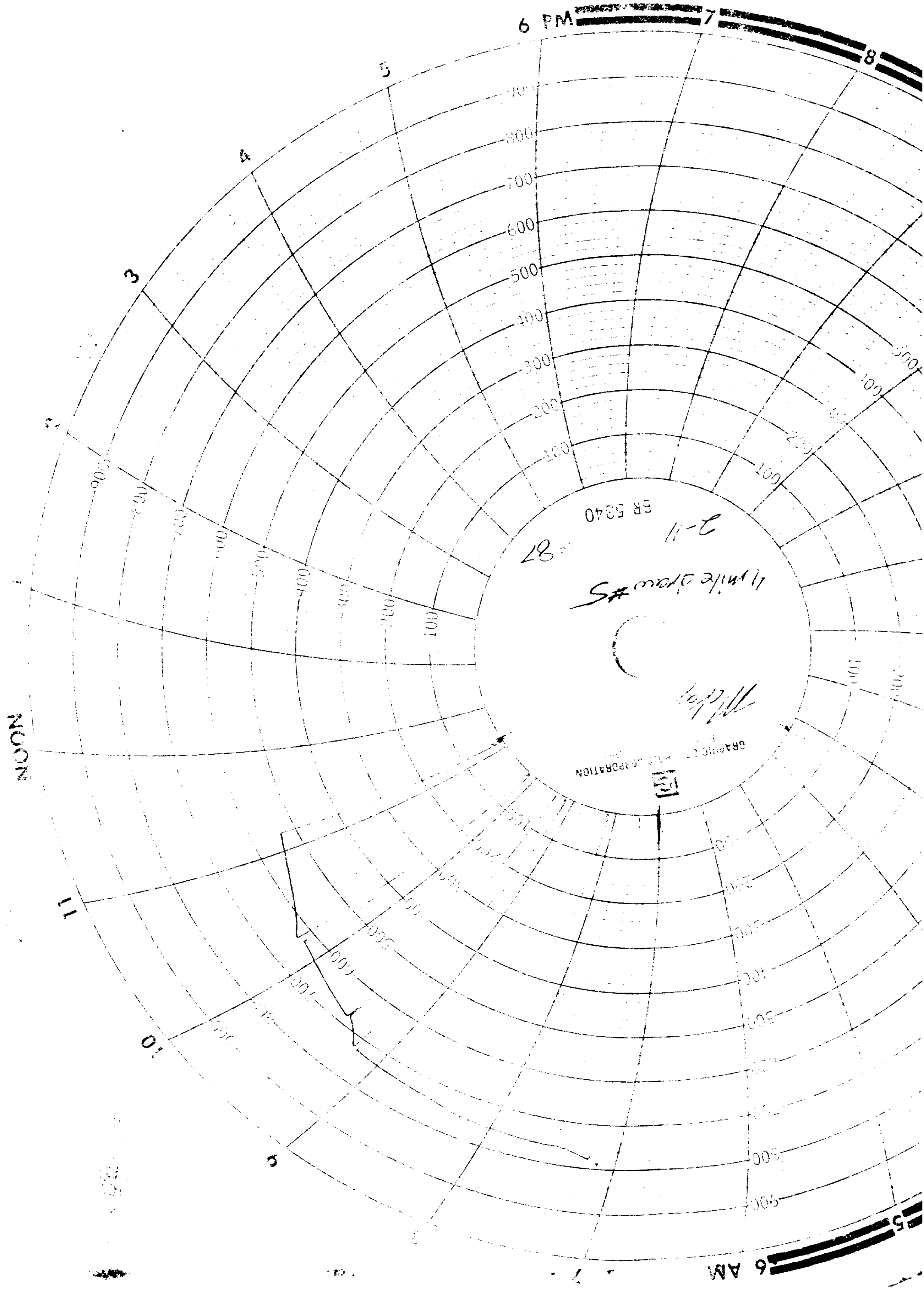
4 Mile Draw 5
14 6S 22E
Chaves County
2-11-87



46 7400

$Q_1 = 1247$
$Q_2 = 900$

$\log Q_1 = 3.0960$
$\log Q_2 = 2.9542$
$n = .795$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