ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED JUL -1 1987 O. C. D. ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 06-14-87	BY
Company: MCKAY OIL CORPORATION			Connection: AIR		
Pool: West Pecos Slope - [illegible]			Formation: Abo		Unit
Completion Date: 06-14-87	Total Depth: 3400		Plug Back TD: 3194	Elevation: 4223 KB	Farm or Lease Name: S. Four Mile Draw ~~Fed.~~ St.
Csg. Size: 4-1/2 / Wt.: 11.6 / d: 4.000 / Set At: 3280			Perforations: From 2703 To 2825.5		Well No.: #11
Tbg. Size: 2-3/8 / Wt.: 4.7 / d: 1.995 / Set At: 2661			Perforations: From -- To --		Unit: M / Sec.: 22 / Twp.: 6S / Rge.: 22E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: --		County: Chaves
Producing Thru: Tubing	Reservoir Temp. °F: 92 @ 2764.25	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: New Mexico
L: 2764.25 / H: 2764.25 / Gg: 0.630	% CO_2: nil	% N_2: 5.515	% H_2S: 0	Prover: 2.00	Meter Run: -- / Taps: --

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							910		912		SI 72 Hrs.
1.	2.000		.375	80	--	85	886	85	882	85	60 Min.
2.	2.000		.500	127	--	59	827	59	842	59	60 Min.
3.	2.000		.625	121	--	52	747	52	774	52	60 Min.
4.	2.000		.750	104	--	48	648	48	693	48	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	--	93.2	.9768	1.260	1.007	275
2	4.279	--	140.2	1.0010	1.260	1.012	766
3	6.473	--	134.2	1.0078	1.260	1.022	1127
4	9.453	--	117.2	1.0117	1.260	1.011	1428
5							

NO.	P_t	Temp. °R	T_r	Z
1	0.14	545	1.55	.987
2	0.21	519	1.47	.977
3	0.20	512	1.45	.978
4	0.18	508	1.44	.979
5				

Gas Liquid Hydrocarbon Ratio 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 0 Deg.
Specific Gravity Separator Gas 0.630 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 660 P.S.I.A. ____ P.S.I.A.
Critical Temperature 352 R ____ R

P_c 925.2 P_c^2 856.0

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		895.2	801.4	54.6*
2		855.2	731.4	124.6
3		787.2	619.7	236.3
4		706.2	498.7	357.3
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 15.68$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 14.04$

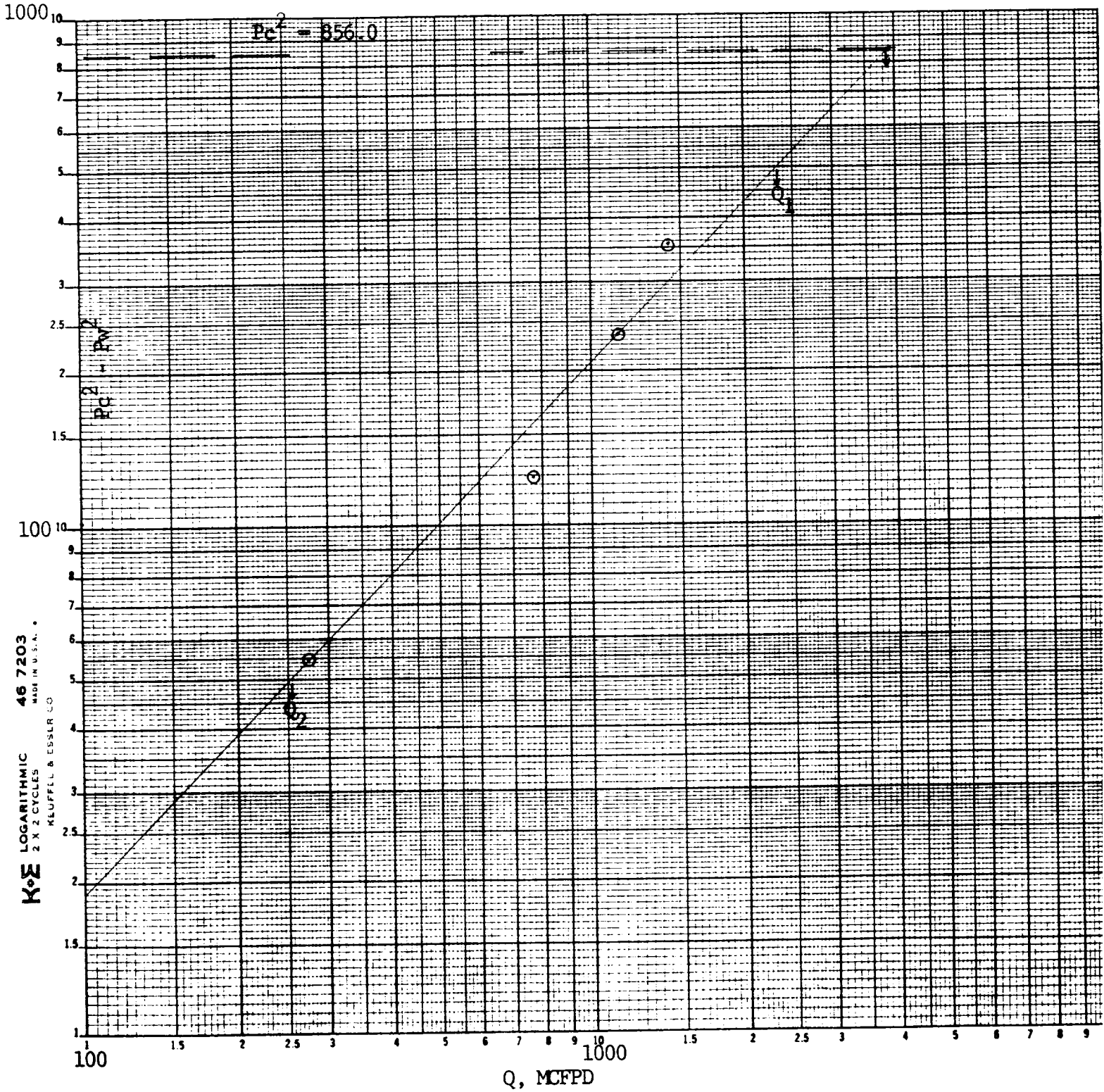
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3,862$

Absolute Open Flow 3,862 Mcfd @ 15.025 Angle of Slope @ 46.09 Slope, n 0.96

Remarks: No water produced during test.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	R. Snyder	C. Sanders	P. Stewart

MCKAY OIL CORPORATION
South Four Mile Draw Fed. #11
Sec. 22, T6S, R22E
06-14-87



Q_1 = 2330, log = 3.36736
Q_2 = 254, log = 2.40483

n = 0.96253
n = 0.96

AOF = 3,862

"Our Interest in Measurement be our Concern"

PRECISION SERVICE INC.

Flow Measurement Engineers
Analysis Results Summary
Casper, WY 82601

Run No. 618-3
Date Run 06/18/87
Date Sampled 06/14/87

Analysis For: McKAY OIL CORPORATION
Lease: S. 4 MILE DRAW ST COM #11
Location: CHINA DRAW
Purpose: WELL TEST
Sampling Temp. 51 °F
Volume/day
Pressure on Bomb 110

Producer: MCKAY OIL CORP.
County: CHAVES State: NEW MEXICO
Sampled By: K.ESLINGER
Atmos Temp. °F
Formation
PSIG; Line Pressure 123.2 PSIA PSIG

Gas Component Analysis Press. Base: 14.73

	Mol. %	Liq. %	GPM Per MCF
Carbon Dioxide CO_2			
Oxygen O_2			
Nitrogen N_2	5.515		
Hydrogen Sulfide H_2S			
Methane C1	88.707		15.036
Ethane C2	3.082		.824
Propane C3	1.377		.379
Iso-Butane IC4	.213		.070
Nor-Butane NC4	.564		.178
Iso-Pentane IC5	.121		.044
Nor-Pentane NC5	.196		.071
Hexanes plus	.225		.104
Hexanes C6			
Heptanes			
Heptanes Plus C7+			
Total	100.000		16.706
Pentane + G.P.M.			.219
Propane + GPM			.846
26-lb Gasoline			.336

BTU Dry 1040
BTU Wet 1022
Calc. Specific Gravity .630

@ Std. Press. 14.696
BTU Dry 1038
BTU Wet 1020

Calc. Vap. Press. #/Sq.In.
Reid Vap. Press. #/Sq.In.

Z Factor .9978
N Value 1.3034
Ave Mol Wt 18.2157
Ave Cu Ft/Gal

Run by JEFFREY A. PROPP
Calculated By JEFFREY A. PROPP

Ethane + GPM 1.670

Remarks:

Distribution: