

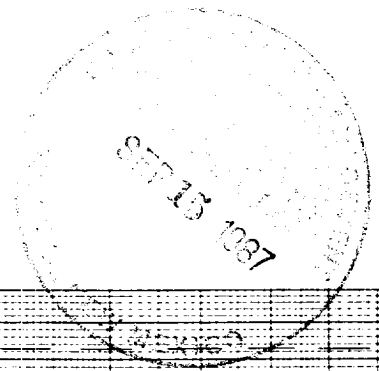
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL
RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 9/3/87	
Company MCKAY OIL CORPORATION		Connection Air	
Pool Pecos Slope A00		Formation Abo	
Completion Date 9/3/87		Total Depth 4800'	
Plug Back TD 4685'		Elevation 3825 GR	
Casing Size 4-1/2"		Well No. 2	
Perforations: From 4648' To 4660'		Unit J	
Thp. Size 2-3/8"		Sec. 35	
Perforations: From --- To ---		Twp. 7S	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		County Chaves	
Producing Thru Tubing		State New Mexico	
Reservoir Temp. °F 100 # 4654		Mean Annual Temp. °F 60	
Baro. Press. - P _g 13.2		Meter Run --	
L 4654		H 4654	
Cg 0.646		% CO ₂ 0.153	
% N ₂ 4.793		% H ₂ S 0.00	
Prover 2.00		Taps --	
FLOW DATA			
NO.	Prover Line Size	X	Orifice Size
SI			
1.	2.000		.250
2.	2.000		.250
3.	2.000		.375
4.	2.000		.500
5.			
TUBING DATA			
	Press. p.s.i.g.	Temp. °F	
	895	94	
	856	82	
	795	78	
	780	62	
	598		
CASING DATA			
	Press. p.s.i.g.	Temp. °F	
	895		
	856		
	795		
	780		
	604		
Duration of Flow SI 72 HRS 60 MIN 60 MIN 60 MIN 60 MIN			
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
1	1.087	--	118.2
2	1.087	--	248.2
3	2.378	--	111.2
4	4.279	--	134.2
5			
NO.	R ₁	Temp. °R	T ₁
1	0.18	554	1.56
2	0.38	542	1.53
3	0.17	538	1.52
4	0.20	522	1.47
5			
Gas Liquid Hydrocarbon Ratio 0 Mcl/bbl.			
A.P.I. Gravity of Liquid Hydrocarbons 0 Deg.			
Specific Gravity Separator Gas 0.646			
Specific Gravity Flowing Fluid			
Critical Pressure 659 P.S.I.A.			
Critical Temperature 355 R			
P _c 908.2 P _c ² 824.8			
NO.	P ₁ ²	P _w	P _w ²
1		869.2	755.5
2		808.2	653.2
3		793.2	629.2
4		617.2	380.9
5			
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 11.90$			
(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 7.695$			
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,200$			
Absolute Open Flow 1,200 Mcl @ 15.025			
Angle of Slope @ 50.51			
Slope, n 0.8239			
Remarks: No water or liquid produced during test.			
Approved By Division			
Conducted By: D. Kelton			
Calculated By: C. Sanders			
Checked By: P. Stewart			

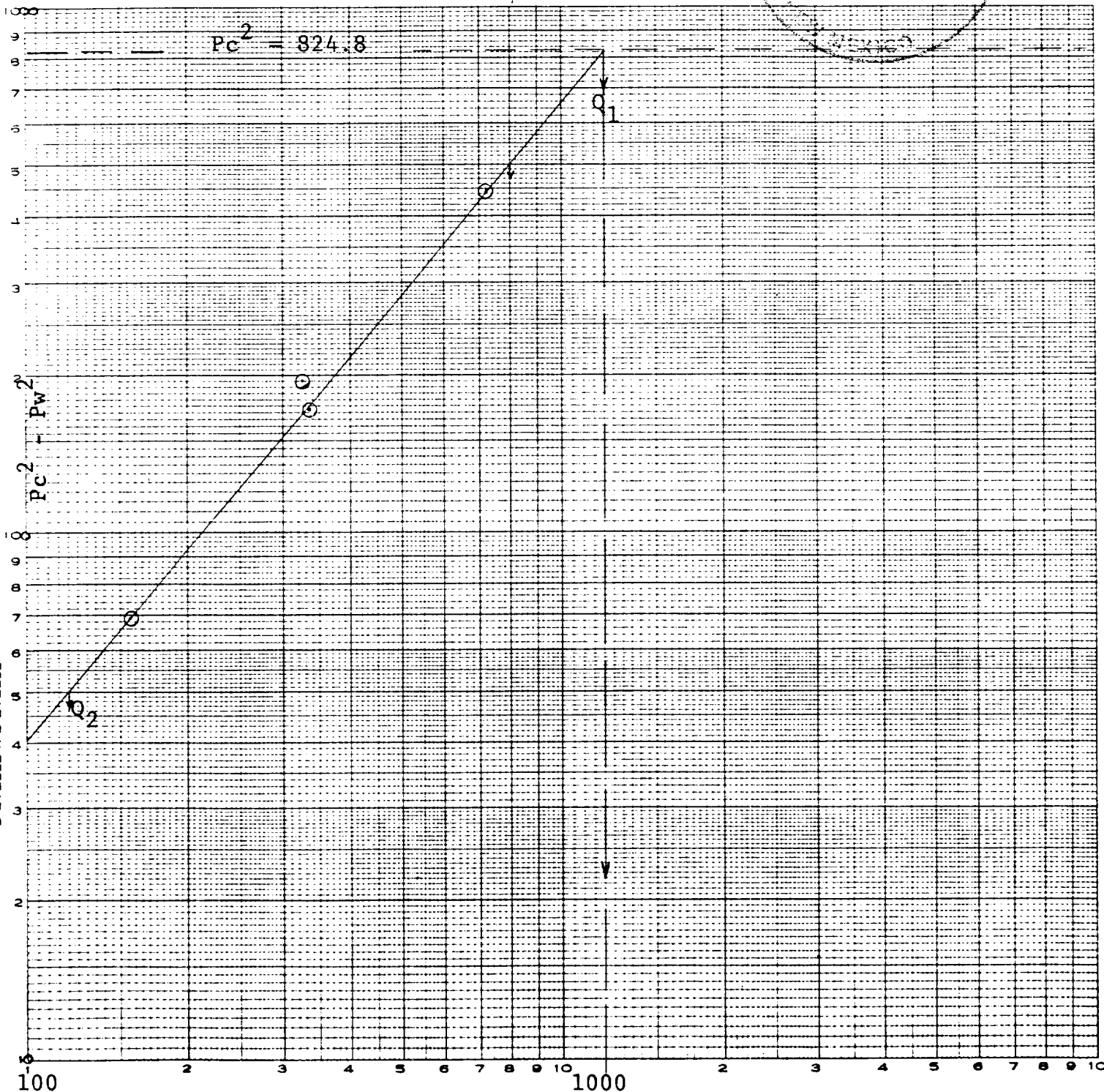
MCKAY OIL CORPORATION

Pecos Federal #2

Sec. 35, T7S, R26E
09-03-87



NO. 340-L22 DIETZGEN GRAPH PAPER
LOGARITHMIC
2 CYCLES X 2 CYCLES
DIETZGEN CORPORATION
MADE IN U.S.A.



Q₁ = 800; log = 2.90309
Q₂ = 120; log = 2.07918
n = 0.82391
n = 0.8239
AOF = 1,200 MCF Per Day

RECEIVED SEP 11 1967



PRECISION SERVICE INC.

Flow Measurement Engineers

Analysis Results Summary

Casper, WY 82601

Run No. 903-11

Date Run 09/03/67

Date Sampled 09/03/67

Analysis For: MCKAY OIL CORPORATION

Lease: PECOS FEDERAL #2

Location: PECOS SLOPE

Purpose: WELL TEST SAMPLE

Sampling Temp. 68 °F

Volume/day

Pressure on Bomb 110

Producer: MCKAY OIL CORPORATION

County: CHAVES State: NEW MEXICO

Sampled By

Atmos Temp. °F

Formation: ABO

PSIG: Line Pressure 123.2 PSIA PSIG

Gas Component

Analysis

Press. Base: 14.73

Mol. %

Liq. %

GPM
Per MCF

Carbon Dioxide CO₂

.153

Oxygen O₂

Nitrogen N₂

4.793

Hydrogen Sulfide H₂S

Methane C1

86.798

Ethane C2

4.861

Propane C3

1.842

Iso-Butane IC4

.305

Nor-Butane NC4

.597

Iso-Pentane IC5

.186

Nor-Pentane NC5

.188

Hexanes plus

.277

Hexanes C6

Heptanes

Heptanes Plus C7+

Total

100.000

Pentane + G.P.M.

Propane + GPM

26-lb Gasoline

17.071

.264

1.059

.403

BTU Dry

BTU Wet

Calc. Specific Gravity

1074

1055

.646

@ Std. Press. 14.696

BTU Dry

BTU Wet

1071

1053

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

Reid Vap. Press. #/Sq. In.

Z Factor

N Value

Ave Mol Wt

Ave Cu Ft/Gal

.9976

1.2994

18.6802

Run by H. THOMAS BLAKE

Calculated By JEFFREY A. PROPP

Ethane + GPM

2.359

Remarks:

Distribution: