

APR 24 1987

Type Test ☒ Initial ☐ Annual		APERTIA OFFICE ☐ Special ☒ 3-6-87		660 FNL	
Company MCKAY OIL		Connection TO AIR		990 FEL	
Pool PECOS SLOPE		Formation ABO		Unit	
Completion Date 3-2-87		Total Depth 3400		Plug Hole 1. 3314	
Elevation 4325 GL		Form or Lease Name LOOKOUT FED			
Test Size 4.5	Wt. 9.5	d 3397	Set At 3397	Perforations: From 2775 To 3151.5	Well No. 8
Test Size 2.375	Wt. 4.7	d 1.995	Set At 2910	Perforations: From OPEN To ENDED	Unit Sec. Twp. Ry. A 9 6S 22
Type Well - Single - Blindhead - G.G. or G.O. Multiple SINGLE				Packer Set At NONE	
Producing thru TUBING		Reservoir Temp. °F 99° 2963		Mean Annual Temp. °F 60°	
		Baro. Press. - P _g 13.2		State NEW MEXICO	
L 2063	H 2063	G _g 0.629	% CO ₂ 0.00	% H ₂ 5.087	% H ₂ O 0
Provd 2.000		Motor Run 0		Taps FLG	

FLOW DATA						TUBING DATA		CASING DATA		Dwell of Flow	
NO.	Provd Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							516	65	516	65	120
1.	2.000	0.09375		505	0.00	65	505	65	510	65	60 M
2.	2.000	0.125		500	0.00	66	500	66	500	66	60 M
3.	2.000	0.1875		465	0.00	66	465	66	468	66	60 M
4.	2.000	0.21875		435	0.00	65	435	66	437	66	60 M
5.	2.000	0.250		394	0.00	66	394	66	398	66	60 M

RATE OF FLOW CALCULATIONS							
NO	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	0.3510	0.00	518.2	.9952	1.261	1.044	96
2	0.2648	0.00	513.2	.9943	1.261	1.043	177
3	0.6082	0.00	478.2	.9943	1.261	1.039	379
4	0.8393	0.00	448.2	.9952	1.261	1.038	490
5	1.097	0.00	407.2	.9943	1.261	1.034	574

NO	R ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/	A.P.I. Gravity of Liquid Hydrocarbons _____
1	.78	525	1.48	.918	Specific Gravity Separator Gas .0.629	XXXXXXXXXX
2	.72	526	1.49	.920	Specific Gravity Flowing Fluid XXXXX	0.629
3	.72	526	1.49	.926	Critical Pressure 661	P.S.I.A. -661 P.S.
4	.58	525	1.48	.929	Critical Temperature 354	R -354
5	.62	526	1.49	.936		

NO	R ₁	R ₂	T ₁	T ₂	P ₁	P ₂	P ₁ ² - P ₂ ²
1	518.2	523.2	274		6		
2	513.2	513.2	263		17		
3	478.2	481.2	271		49		
4	448.2	450.2	203		77		
5	407.2	411.2	111		111		

$$(1) \frac{P_1^2}{P_2^2 - P_1^2} = 3.6364$$

$$ADP = 0 \left[\frac{P_1^2}{P_2^2 - P_1^2} \right]^n = 1106.5$$

$$(2) \left[\frac{P_1^2}{P_2^2 - P_1^2} \right]^n = 2.258$$

Post ID-2
5-8-87
comp & BK

Actual to Flow	1107	Mold # 15.025	Angle of Slope °	57.75	Angle, n	0.6
Remarks						

Approved By: Commission	Conducted By:	Calculated By:	Checked By:
	BENNETT & CATHEY	RICHARD TOWNLEY	

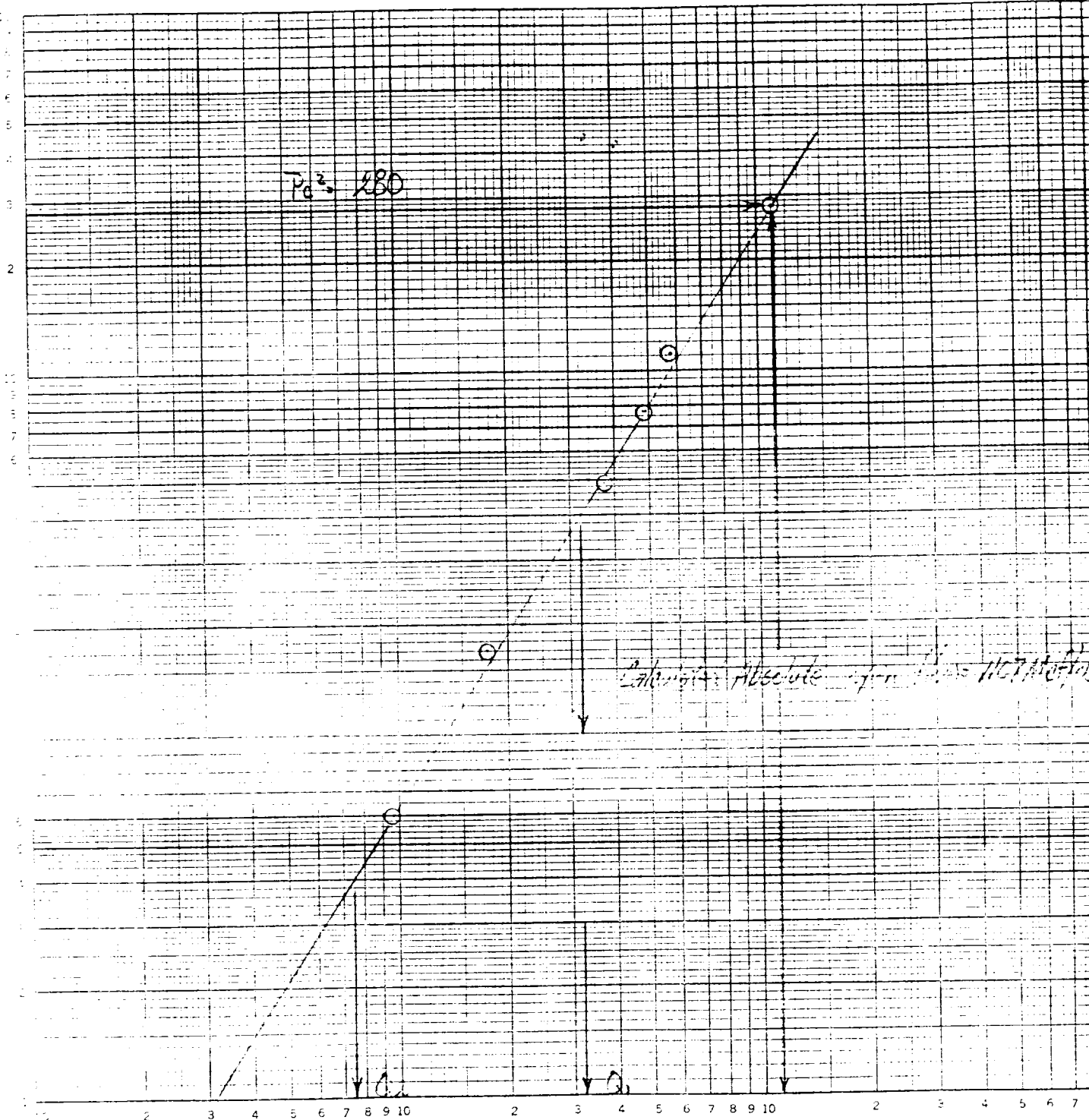
Well Log No. 11

Price County Sec 9 Twp 45 Rgc. 25E

2-6-87

46 7403

LOG ABILITY
KIDWELL 5.3



$$\Delta P_1 \quad P_0^2 - P_{ws}^2 = 40$$

$$\Delta P_2 \quad P_0^2 - P_{ws}^2 = 4$$

380.7

75

$$\log Q_1 = 2.5061$$

$$\log Q_2 = 1.8751$$

$$n = 0.6310$$

Our Interest in Measurement be our Concern



PRECISION SERVICE INC.
Flow Measurement Engineers
Analysis Results Summary
Casper, WY 82601

Run No. 309-2
Date Run 03/09/87
Date Sampled 03/06/87

Analysis For: BENNETT & CATHEY WRLN.

Lease: LOOKOUT FEDERAL #8

Producer: MCKAY OIL CORP.

Location: CHINA DRAW

County: CHAVES

State: NEW MEXICO

Purpose: WELL TEST

Sampled By: B & C WRLN.

Sampling Temp. 60 °F

Atmos Temp. _____ °F

Volume/day: 540 MCF

Formation: _____

Pressure on Bomb: 400

PSIG: Line Pressure 413.2 PSIA PSIG

Gas Component

Analysis

Press. Base: 14.73

Mol. %

Liq. %

GPM
Per MCF

Carbon Dioxide CO₂

Oxygen O₂

Nitrogen N₂

Hydrogen Sulfide H₂S

5.087

BTU Dry

1046

BTU Wet

1028

Calc. Specific Gravity

.629

@ Std. Press. 14.696

Methane C₁

89.050

15.094

BTU Dry

1044

Ethane C₂

3.097

.828

BTU Wet

1026

Propane C₃

1.431

.394

Iso-Butane IC₄

.211

.069

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

Nor-Butane NC₄

.557

.176

Reid Vap. Press. #/Sq.In.

Iso-Pentane IC₅

.131

.048

Z Factor

.9978

Nor-Pentane NC₅

.196

.071

N Value

1.3029

Hexanes plus

.240

.111

Ave Mol Wt

18.1967

Hexanes C₆

Heptanes

Heptanes Plus C₇+

Total

100.000

16.791

Run by JEFFREY A. PROPP

Calculated By JEFFREY A. PROPP

Pentane + G.P.M.

.230

Propane + GPM

.869

Ethane + GPM

1.697

26-lb Gasoline

.353

Remarks:

Distribution:

