

O. C. D.

~~ARTESIA OFFICE~~

Type Test 4POINT ☒ Initial		☐ Annual		☐ Special		Test Date 2/10/87	
Company MCKAY				Connection TO AIR			
Pool PECOS ABO				Formation ABO			
Completion Date 2/7/87		Total Depth 3500		Plug Back L. 3360		Elevation 4213	
Casing Size 4.5		Wt. 9.5		Set At 3444		Perforations: From 2965.5 To 3110.5	
Tubing Size 2.375		Wt. 4.7		Set At 2932		Perforations: From OPEN ENDED	
Type Well - Single - Bradenhead - G.O. or G.O. Multiple SINGLE				Packer Set At NONE		Well No. 3	
Producing Thru TUBING				Reservoir Temp. °F 103 3038		Mean Annual Temp. °F 60	
Baro. Press. - P _g 13.2				State NEW MEXICO			
L 3038		H 3038		G _g 0.628		% CO ₂ 0.00	
% N ₂ 4.951		% H ₂ O 0		Prover 2.000		Meter Run 0	
Tops 0							

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
51							810	60	810	60	72 HRS
1.	2.000	.125	785	0.00	60	785	60	785	60	60 MIN	
2.	2.000	.1875	735	0.00	68	735	68	735	68	60 MIN	
3.	2.000	.21875	685	0.00	68	685	68	690	68	60 MIN	
4.	2.000	.250	615	0.00	69	615	69	630	69	60 MIN	
5.											

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	0.2648	0.00	798.2	1.000	1.262	1.053	295
2	0.6082	0.00	748.2	.9924	1.262	1.061	605
3	0.8393	0.00	698.2	.9924	1.262	1.053	775
4	1.087	0.00	628.2	.9915	1.262	1.052	849
5							

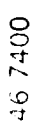
NO.	R	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	1.21	520	1.47	.677	0	0
2	1.13	528	1.49	.888	0	0
3	1.06	528	1.49	.894	0	0
4	0.95	529	1.49	.904	0	0
5						

NO.	P ₁ ²	P _w ²	T _w ²	P ₁ ² - T _w ²	(1) $\frac{P_1^2}{P_1^2 - T_w^2}$	(2) $\left[\frac{P_1^2}{P_1^2 - T_w^2} \right]^n$
1	798.2	637	41		2.5682	1.5025
2	748.2	560	118			
3	703.2	495	134			
4	643.2	412	154			
5						

$Q = 1441$ Mcfd @ 15.025
 Angle of Slope = 63.5
 Slope: n = 0.500

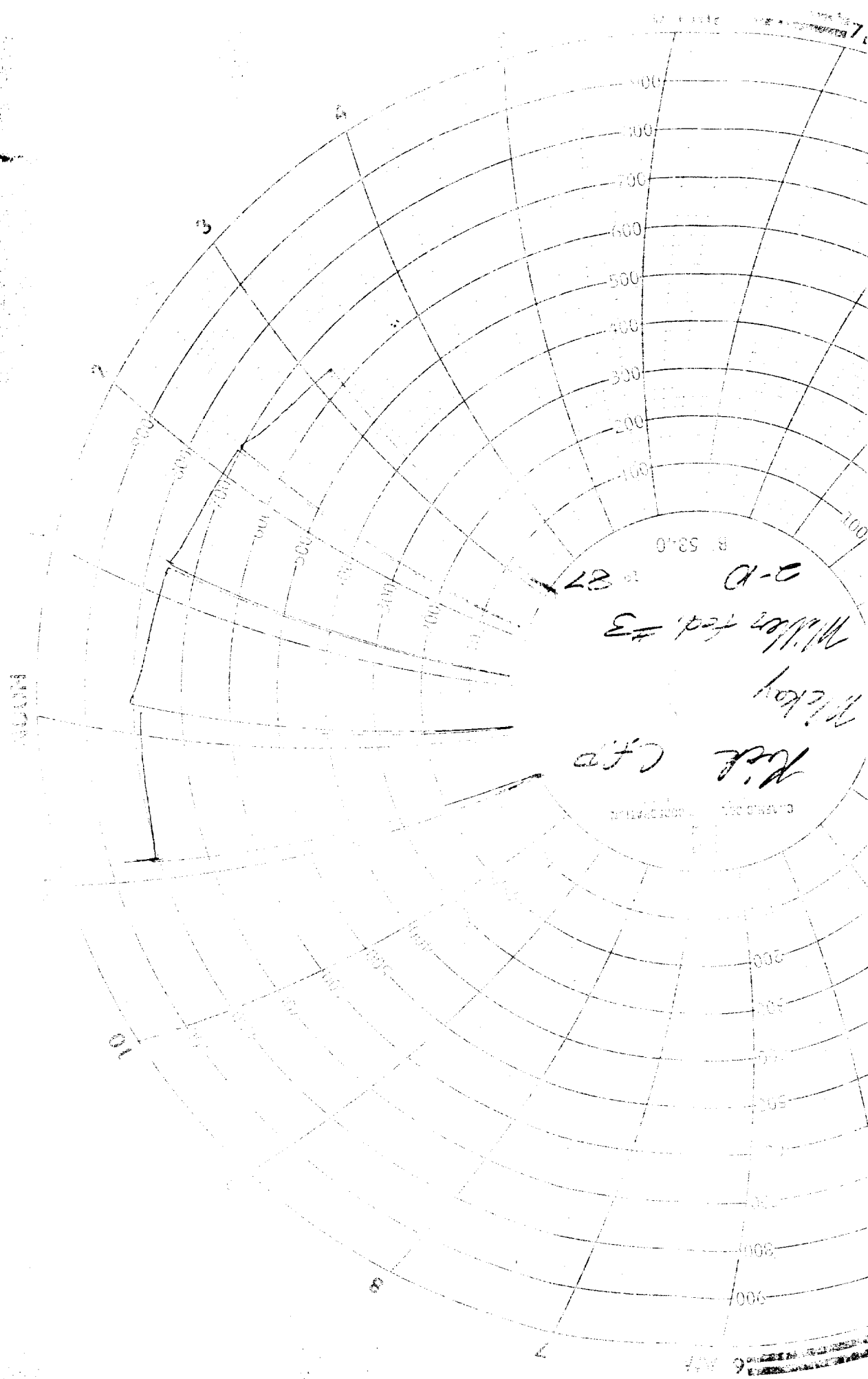
Post ID-2
 5-8-87
 comp & BK

1



Q. 348

100 0.50



N.E. C.F.P.
Mickey
Miller Fed. #3
2-D
12 27

R 53.40

Let your Interest in Measurement be our Concern.



PRECISION SERVICE INC.

Flow Measurement Engineers

Analysis Results Summary

Casper, WY 82601

Run No. 212-3
Date Run 02/12/87
Date Sampled 02/10/87

Analysis For: BENNETT & CATHEY WRLN.

Lease: MILLER FEDERAL #3

Location CHINA DRAW

Purpose WELL TEST

Sampling Temp. 69 °F

Volume/day 868 MCF

Pressure on Bomb 626

Producer MCKAY OIL CORP.

County CHAVES State NEW MEXICO

Sampled By B & C WRLN.

Atmos Temp. 74 °F

Formation ABO

PSIG; Line Pressure 639.2 PSIA PSIG

Gas Component

Analysis

Press. Base: 14.73

Mol. %

Liq. %

GPM
Per MCF

Carbon Dioxide CO₂

Oxygen O₂

Nitrogen N₂

Hydrogen Sulfide H₂S

Methane C₁

Ethane C₂

Propane C₃

Iso-Butane IC₄

Nor-Butane NC₄

Iso-Pentane IC₅

Nor-Pentane NC₅

Hexanes plus

Hexanes C₆

Heptanes

Heptanes Plus C₇+

Total

Pentane + G.P.M.

Propane + GPM

26-lb Gasoline

BTU Dry

BTU Wet

Calc. Specific Gravity

@ Std. Press. 14.696

BTU Dry

BTU Wet

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

Reid Vap. Press. #/Sq.In.

Z Factor

N Value

Ave Mol Wt

Ave Cu Ft/Gal

Run by JEFFREY A. PROPP

Calculated By JEFFREY A. PROPP

Ethane + GPM

1.615

Remarks:

Distribution: