

Form C-122
Revised 10-1-78

COPY

Type Test ☒ Initial FOUR POINT ☐ Annual		☐ Special		Test Date 12-16-81		660 FSL	
Company FRED POOL JR.				Connection AIR NEW WELL		1980 FWL	
Well UNDESIGNATED				Formation ABO		Unit N	
Completion Date 12-7-81		Total Depth 4325		Plug Back TD 4214		Elevation 3687 KB	
Casing Size 4.500		ID 10.50		Set At 4325		Perforations: From 3822 To 3840	
Trq. Size 2.375		ID 4.70		Set At 3777		Perforations: From OPEN To ENDED	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At NONE		County CHAVES	
Producing Thru TUBING		Reservoir Temp. °F 105 3831		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
L 3831		H 3831		G _g .7242		% CO ₂ .13	
				% N ₂ 28.43		% H ₂ S 0	
				Prover		Meter Run 3"	
						Flaps FLANGE	

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	B.H.P. PSIG		Temp. °F
1.	3.000	X	.250	375	2.0	45	982	45	1222		72 HRS.
2.	3.000	X	.250	380	8.0	45	947	45	1084		1
3.	3.000	X	.250	380	25.0	43	896	45	1028		1
4.	3.000	X	.250	395	53.0	45	824	43	946		1
5.							731	45	836		1

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, Mc/d
1	.3066	27.86	388.2	1.0147	1.1753	1.0265	10.
2	.3066	56.09	393.2	1.0147	1.1753	1.0265	21.
3	.3066	99.15	393.2	1.0168	1.1753	1.0265	37.
4	.3066	147.09	408.2	1.0147	1.1753	1.0276	55.
5							

NO.	F _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.63	505	1.59	.949			.7240		621	317
2	.63	505	1.59	.949						
3	.63	503	1.59	.949						
4	.66	505	1.59	.947						
5										

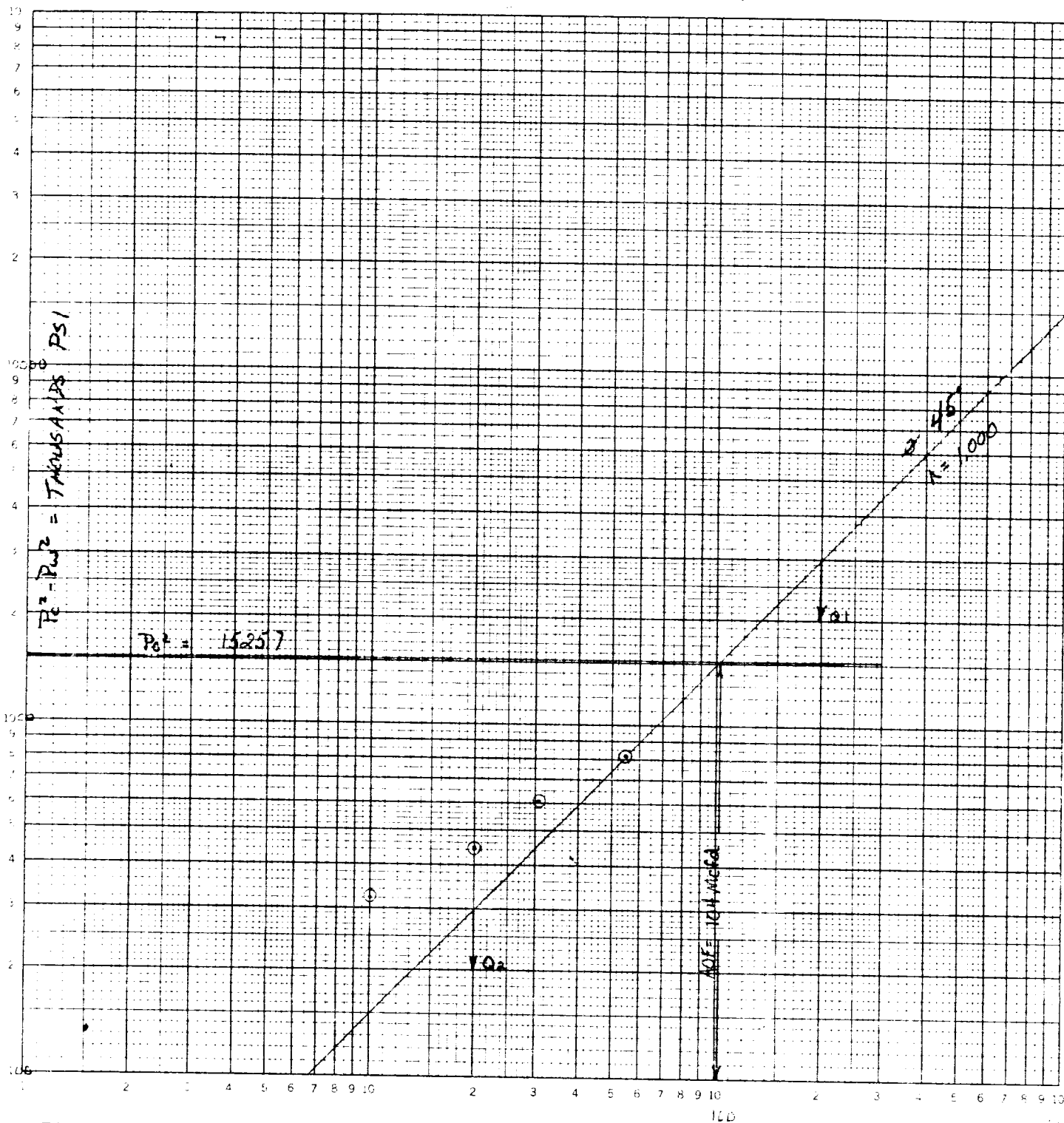
NO.	P _t	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n =$
1		1097.2	1203.8	322.0	1.8153	1.8153
2		1041.2	1084.1	442.0		
3		959.2	920.1	606.0		
4		849.2	721.1	805.0		
5						

Absolute Open Flow 104.2 Mc/d @ 15.025				Angle of Slope 45		Slope, n 1.000	
Remarks: BOTTOM HOLE PRESSURE MEASURED WITH AMERADA GUAGES							
Approved By Division		Conducted By: RICHARD TOWNLEY		Calculated by: BENNETT - CATHEY		Checked By:	

FRED POOL JR.
 RED BLUFF #1
 N-23-75-25E
 CHAVES COUNTY
 NEW MEXICO
 12-16-81

46 7400

LOGARITHMIC 3 X 3 CYCLES
 NEUMANN & ESSER CO. MADE IN U.S.A.



$$\Delta P_1: P_0^2 - P_w^2 = 300$$

$$\Delta P_2: P_0^2 - P_w^2 = 3000$$

$$Q_1 = 2.07918$$

$$Q_2 = 1.07918$$

Q, Mcfd

$$\log Q_1 = 2.07918$$

$$\log Q_2 = 1.07918$$

$$n = 1.0000$$

4-11-77

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Dean Simpson

NEW-TEX LAB
P. O. BOX 1161
HOBBBS NM 88241-1161
505-393-0561

ANALYSIS NUMBER: 6172
DATE OF RUN: 12-17-81
DATE SECURED:

ANALYSIS OF CEMENT/LATE

LABORATORY: FINE FINE CR. - RED BLUFF

CLIENT: BENNETT-CALLEY
ADDRESS: BOX 787
CITY: ARTESIA NM 88210

SAMPLING PHASE: 2 9516 SAMPLING TEMP: 3 285 F
STATION NUMBER: N-23-76-252

***** GAS ANALYSIS *****

	MOLE PERCENT	GAL/MCF
HI. BURNING	51.1590348	
GA. BURNING	0.0600719	
NO. BURNING	38.5325890	
ETHANE	1.5149505	0.4867140
PROPANE	2.5673806	2.1031962
ISOBUTANE	2.1080111	2.0382603
NORMAL BUTANE	2.2155140	0.2691412
ISO-PENTANE	0.0640850	2.0133974
NORMAL PENTANE	2.0711208	0.0257031
HEXANE	2.2027407	0.0257391
HEPTANE	2.1000116	0.0258515
NONANE	120.0270822	0.9050033

WATER VAPOR: 0.10 BUTANES GRM: 0.10
HEAVY OIL: 0.17 PENTANES PLUS GRM: 0.13

WATER VAPOR (GAL): 1.8304
HEAVY OIL: 24.08

WATER VAPOR	PRESSURE (PSIA)	WET	DRY
14.695		436	441
14.650		435	440
14.730		437	440
14.735		437	440

APPROVED BY:

[Signature]

JOHN KLEE

CHART READINGS AND CALCULATIONS FOR BUILDUP OR DRAWDOWN TEST

[illegible]

JOHN KLEE

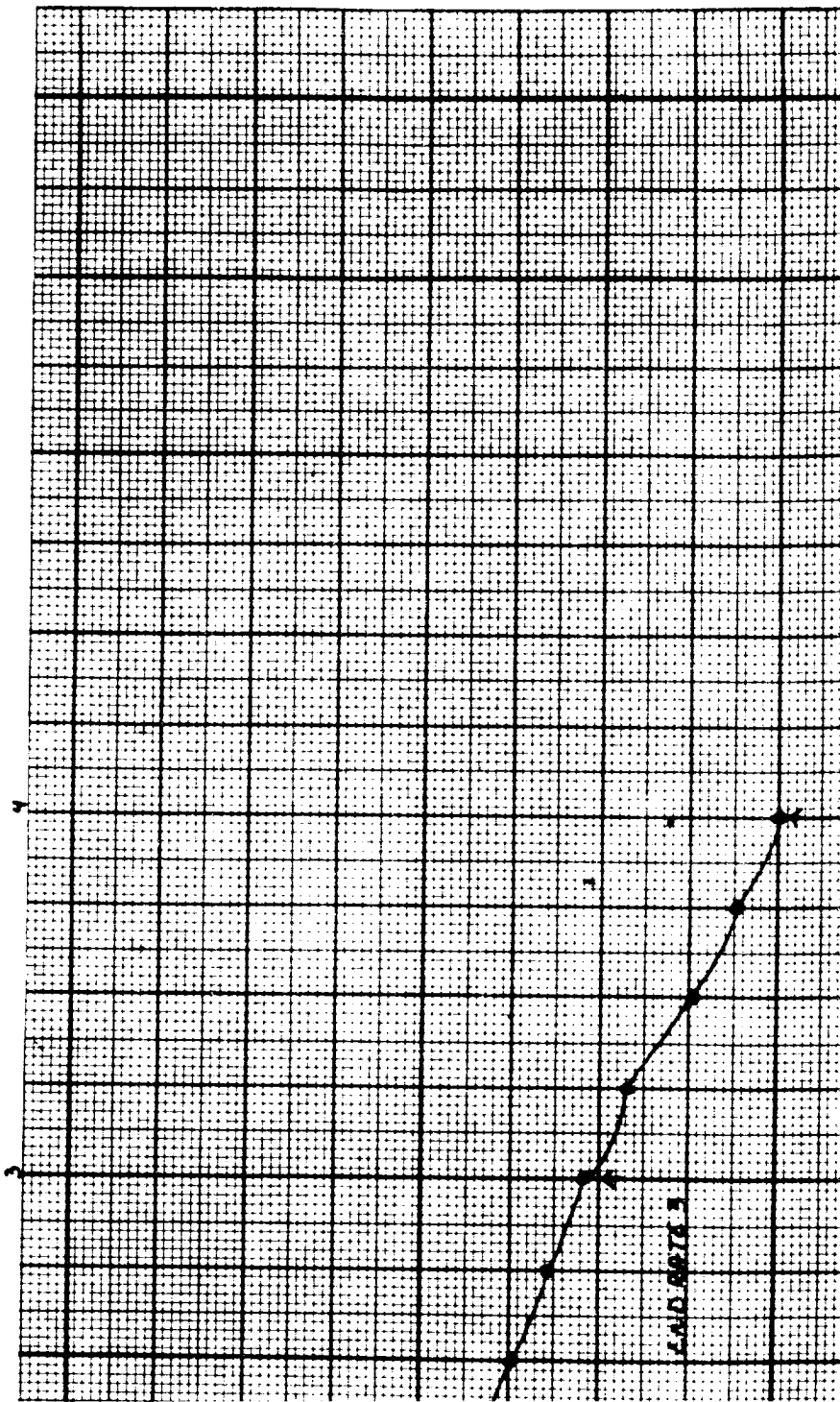
FRED POOL JR.,
RED BLUFF WELL NO. 1

BENNETT-CATHEY WIRE LINE SERVICE
Artesia, N.M. 88210 505/746-3281

Scale: As Shown



← TIME IN HOURS →



COMPANY FRED POOL JR. WELL NAME RED BLUFF WELL NO. 1
DATE OF TEST 12-16-81 TO 12-18-81 FORMATION ABO PAGE 1 OF 1

ELEMENT NUMBER	RPG3 #7201	RANGE	3,200 LBS.
CLOCK NUMBER	11520	RANGE	48 HOURS
TIME WELL SHUT IN	1000 HOURS	12-16-81	
TIME CLOCK STARTED	2116 HOURS		
DEAD WEIGHT ELEMENT ON SURFACE	842		LBS.
TIME ELEMENT REACHED BOTTOM	2143 HOURS		
DEAD WEIGHT ELEMENT ON BOTTOM	673		LBS.
ELEMENT SET AT	3,831		FEET.
TEMPERATURE	3,831	FT.	105 °F.
DEAD WEIGHT AT THE END OF	48	HOURS	10 MINUTES

[illegible]

JOHN KLEE

FRED POOL, JR.

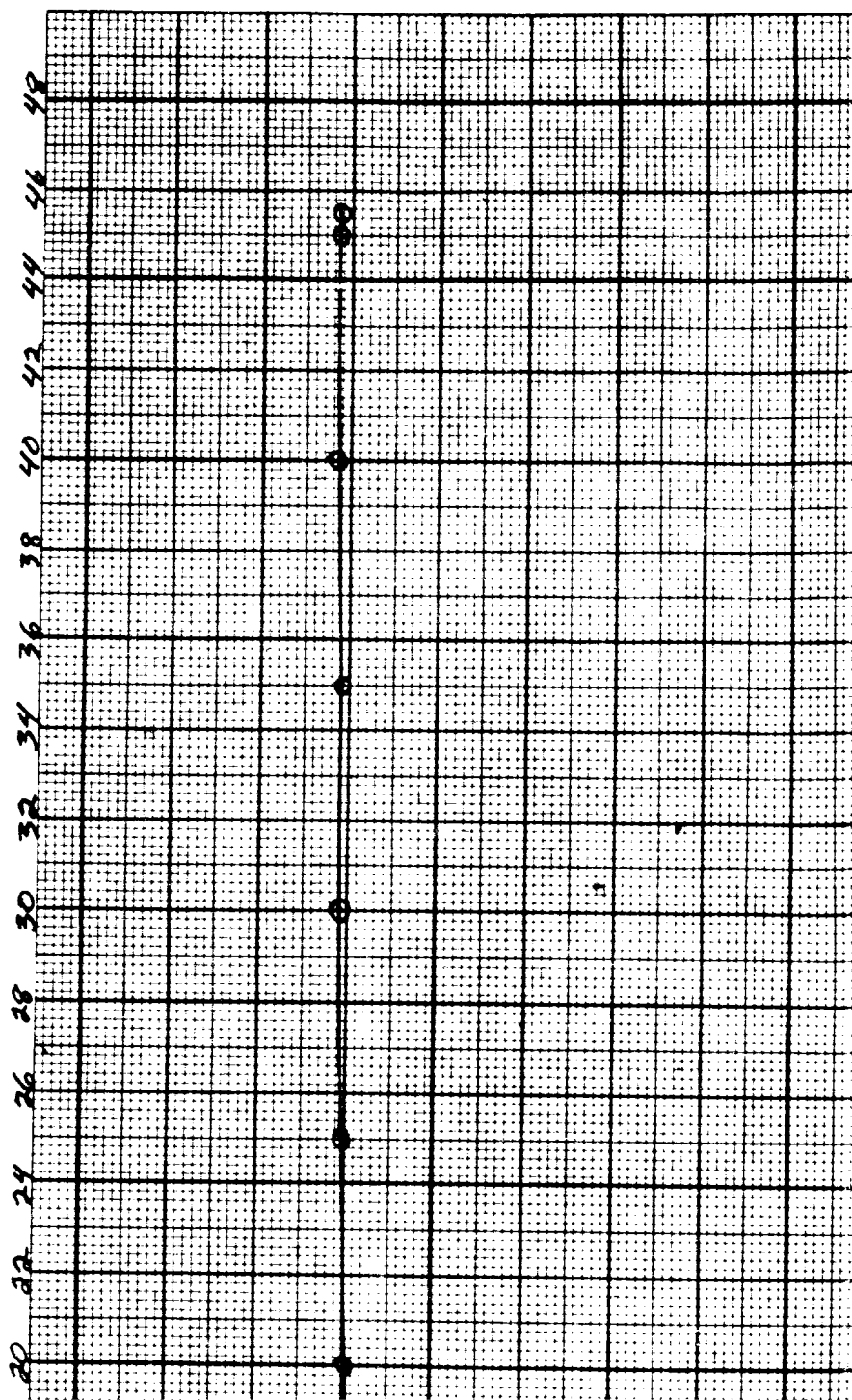
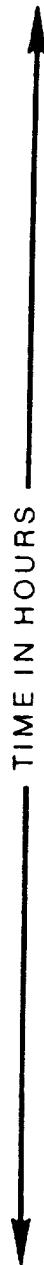
RED BLUFF WELL NO. 1

BENNETT-CATHEY WIRE LINE SERVICE
Artesia, N.M. 88210 505/746-3281

Scale: As Shown



TIME IN HOURS





BENNETT-CATHEY WIRE LINE SERVICE

P. O. BOX 787
ARTESIA, NEW MEXICO 88210
Phone 746-3281



BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR FRED POOL, JR.
LEASE RED BLUFF WELL NO. 1
WELL NO. 1
POOL FORMATION ABO
DATE 12-18-81 TIME 2210 HOURS
STATUS SHUT IN TEST DEPTH 3,831
TIME S.I. 2200 HOURS LAST TEST DATE 1ST TEST
CAS. PRES. 12-16-81 BHP LAST TEST
TUB. PRES. 993 BHP CHANGE
ELE. FLUID TOP
DATUM PLANE WATER TOP
DATUM PSIA 1110 RUN BY STEVE HARWELL
TEMP 98° PRESSURE RANGE 3,200 LBS.
CLOCK NO. 11520 48 HOURS
ELEMENT NO. RPG3 #7201

DEPTH	PRESSURE	GRADIENT
0	993	
1,000	1023	3.0
2,000	1053	3.0
3,000	1085	3.2
3,681	1105	3.0
3,831	1110	3.3

TIME B.H.P. MEASURED: 2210 HOURS

LENGTH OF TIME WELL SHUT IN: 48 HOURS
10 MINUTES

900 960 1000 1050 1100 1150

