

N.F.

RECEIVED

Type Test ☒ Initial FOUR POINT ☐ Annual ☐ Special		7-8-82		660 FSL	
Company RAULT PETROLEUM Corp.		Connection AIR NEW WELL		660 FWL	
Field WILDCAT Penn.		Formation O. C. D.		Unit M	
Completion Date 7-4-82		Total Depth 6800		Plug Back TD 6500	
Perforations From 6327 To 6411		Perforations From OPEN To ENDED		Packer Set At 6283	
Well No. 1		Farm or Lease Name HANLAD STATE		County CHAVES	
State NEW MEXICO		Unit M		Sec. 13	
Twp. 8 S		Rge. 27 E		Prover 2.00	
Meter Run		Flange		Prover 2.00	

FLOW DATA				TUBING DATA				B.H.P. DATA				Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Prose. p.s.i.g.	Diff. in. H ₂ O	Temp. °F	Prose. p.s.i.g.	Temp. °F	Prose. p.s.i.g.	CHOKE		
1	2.00	X	1/8	1910	.00	80	1887	87	2245	48/64	1 HR	
2	2.00	X	3/16	1680	.00	81	1667	88	1992	48/64	1 HR	
3	2.00	X	7/32	1440	.00	78	1510	83	1824	12/64	1 HR	
4	2.00	X	1/4	1215	.00	75	1315	80	1659	14/64	1 HR	

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	.2716	.00	1923.2	.9813	1.2559	1.1187	720
2	.6237	.00	1693.2	.9804	1.2559	1.1097	1443
3	.8608	.00	1453.0	.9831	1.2559	1.0990	1697
4	1.1150	.00	1228.2	.9859	1.2559	1.0885	1846

NO.	P ₁	Temp. °F	T ₁	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	2.90	540	1.54	.799						
2	2.55	541	1.54	.812						
3	2.19	538	1.54	.828						
4	1.85	535	1.53	.844						

NO.	P ₁	P ₂	P ₃	P ₄	P ₅	P ₆	P ₇	P ₈	P ₉	P ₁₀
1	2406.2	5789.8								
2		2258.2	5099.5	690.0						
3		2005.2	4020.8	1769.0						
4		1837.2	3375.3	2414.0						
5		1672.2	2796.3	2994.0						

Absolute Open Flow 2697.4		Mcf @ 15.025		Angle of Slope 60.6		Slope, n .5751	
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Remarks: **BOTTOM HOLE PRESSURE MEASURED WITH AMERADA PRESSURE ELEMENTS**

Approved By Commission	Conducted By DCN BENNETT	Calculated By BENNETT - CATHEY	Checked By
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RECEIVED

NEW-TEX LAB
P.O. Box 1161
Hobbs, New Mexico 88240

JUL 15 1982

O. C. D.
ARTESIA, OFFICE

ANALYSIS CERTIFICATE

CLIENT: BENNETT & CATHEY
ADDRESS: BOX 787
CITY, STATE: ARTESIA N M 88210

ANALYSIS NUMBER: 7774
DATE OF RUN: 07 09 1982
DATE SECURED: 07 08 1982

SAMPLE IDENT: RAULT PETROLEUM - HANLAD STATE #1
SAMPLING PRESS: SAMPLING TEMP:

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

	MOLE PERCENT	GAL/ MCF
NITROGEN	5.766	
CARBON DIOXIDE	0.373	
METHANE	87.734	
ETHANE	3.927	1.047
PROPANE	0.946	0.260
ISO-BUTANE	0.179	0.058
NORMAL BUTANE	0.333	0.105
ISO-PENTANE	0.141	0.051
NORMAL PENTANE	0.174	0.063
HEXANES	0.160	0.066
HEPTANES PLUS	0.267	0.123
TOTAL	100.000	1.773

PROPANE GPM:	0.26	BUTANES GPM:	0.16
ETHANE GPM:	1.05	PENTANES PLUS GPM:	0.30

SPECIFIC GRAV (CALC): 0.6339
MOLE WEIGHT: 18.38

HHV-BTU/CU FT	PRESSURE (PSIA)	WET	DRY
14.696		1013	1031
14.650		1010	1028
14.730		1016	1034
14.735		1016	1034

ANALYZED BY: R H HAMILTON

APPROVED BY: *Dean Simpson*
dyds

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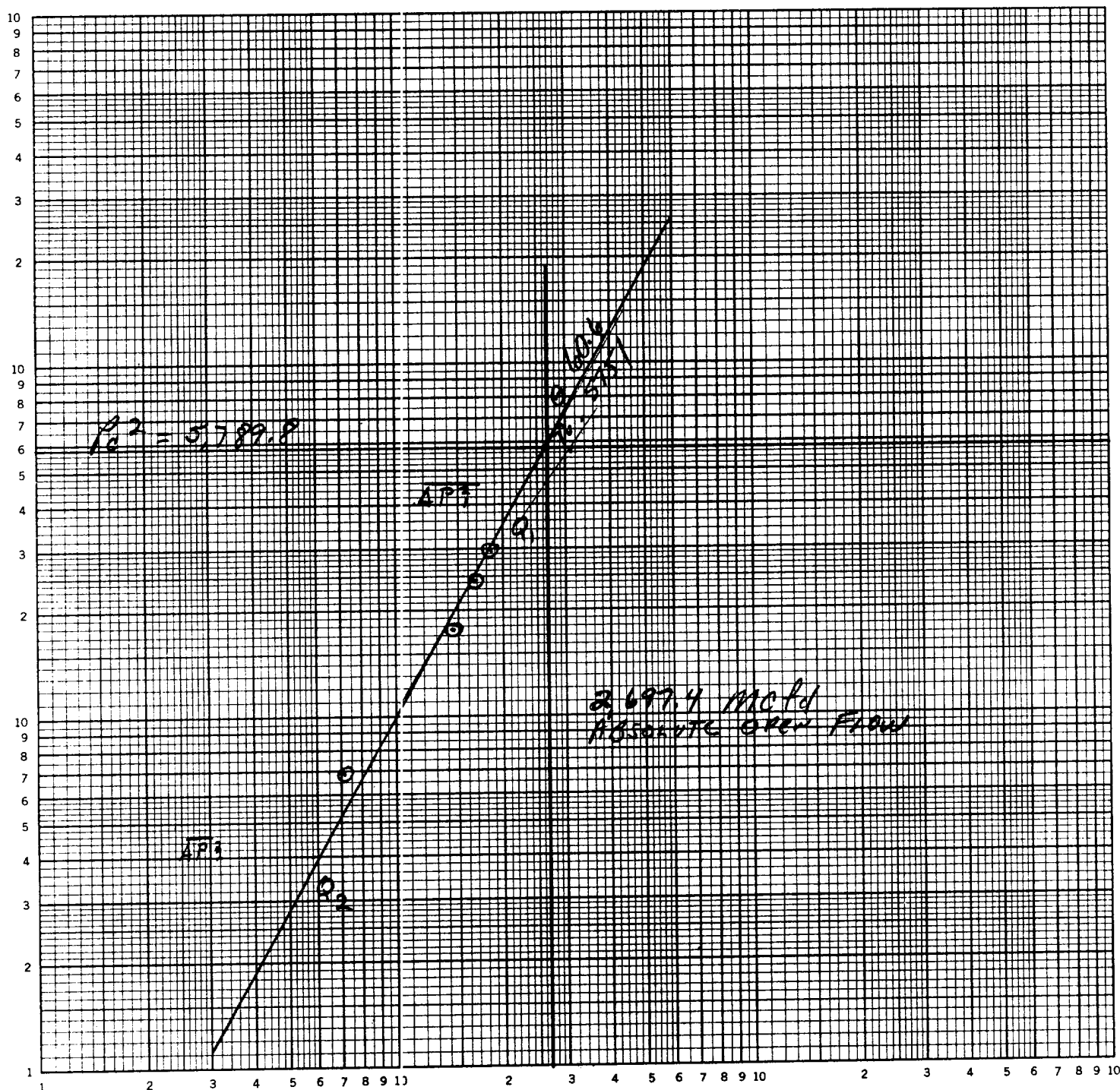
JUL 15 1982

O. C. D.
ARTESIA, OFFICE

LAND AND STATE Well No 1
Unit M, Sec 13, Twp 8S, Rg. 27E
Chaves County
July 8, 1982

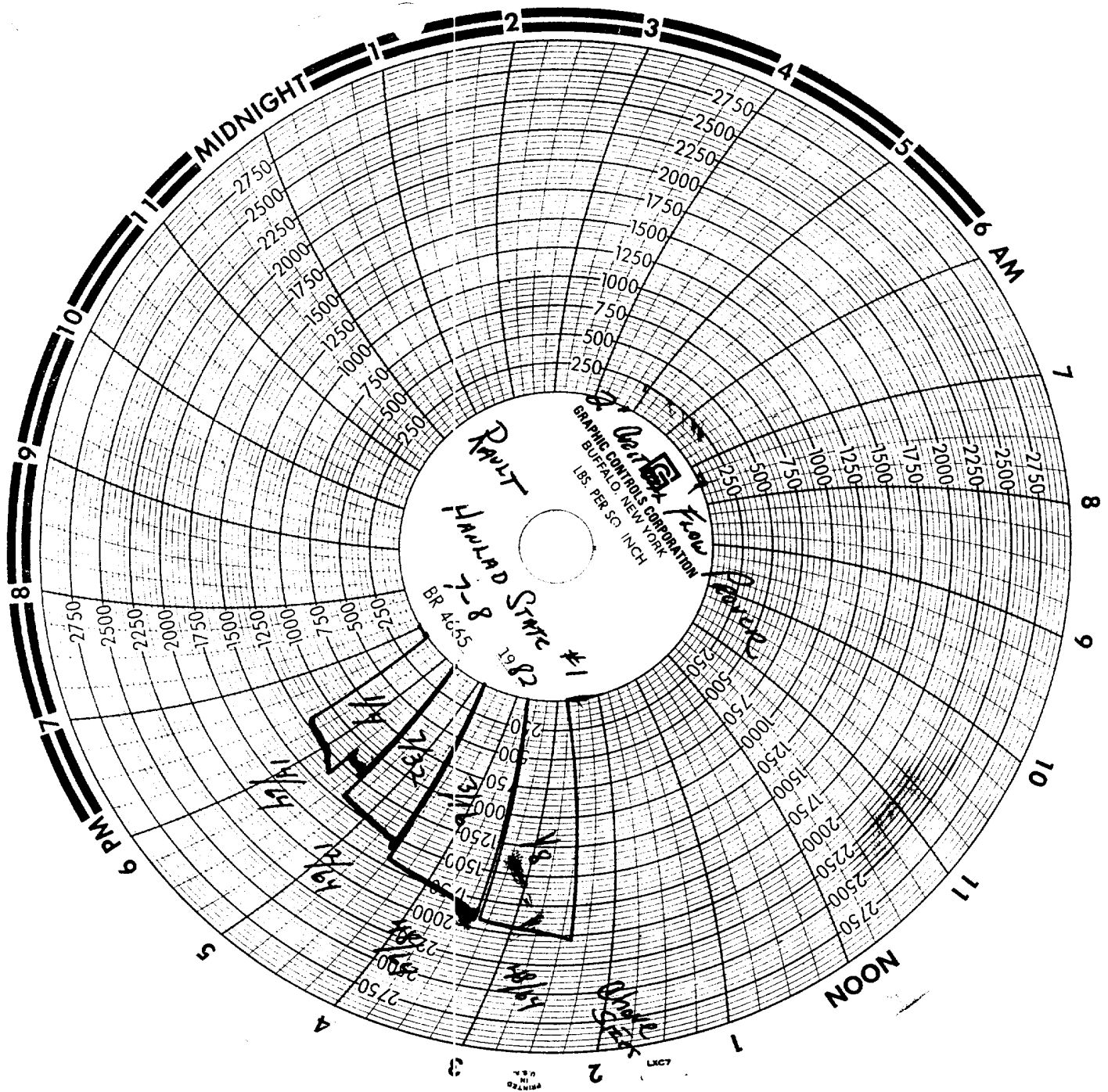
46 7400

K-E LOGARITHMIC 3 X 3 CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.



$$\begin{aligned} \overline{\Delta P}_1 \quad P_c^2 - P_w^2 &= 4000 \\ \overline{\Delta P}_2 \quad P_c^2 - P_w^2 &= 420 \\ Q_1 &= 2180.0 \text{ Mcfd} \\ Q_2 &= 580.0 \text{ Mcfd} \end{aligned}$$

$$\begin{aligned} \log Q_1 & 3.3385 \\ \log Q_2 & 2.7634 \\ n & .5751 \end{aligned}$$



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JUL 15 1982

O. C. D.
ARTESIA, OFFICE

(505) 748--3354 / Artesia, New Mexico 88210

COMPANY RAULT PETROLEUM WELL NAME HANLAD STATE WELL NO. 1
DATE OF TEST 7-8-82 FORMATION PENN PAGE 1 OF 1
COMPANY MAN JIM VADRINE RECEIVED

CHART READINGS AND CALCULATIONS FOR ELEMENT ON SURFACE

ELEMENT NUMBER RPG3 #21121N RANGE 5,000 LBS. JUL 15 1982
CLOCK NUMBER 27744 RANGE 48 HOURS
TIME WELL SHUT IN 1800 HOURS 7-4-82
TIME CLOCK STARTED 1053 HOURS 7-8-82 O. C. D.
DEAD WEIGHT ELEMENT ON SURFACE 2033 PSIA SHUT IN ARTESIA, OFFICE
TIME ELEMENT REACHED BOTTOM 1130 HOURS 7-8-82
DEAD WEIGHT ELEMENT ON BOTTOM 2033 PSIA SHUT IN LBS.
ELEMENT SET AT 6,369 FEET.
TEMPERATURE 6,369 FT. 124 °F.
DEAD WEIGHT AT THE END OF _____ HOURS _____ MINUTES.

Ryan Printers & Stationers, Inc.

TEST DATE: 7-8-82
TEST DEPTH: 6,369

ELEMENT NO.: RFG3 #21121N
RANGE: 5,000 LBS.

CLOCKS: 27744
RANGE: 48 HOURS

OPERATOR: BO FAULKENBERRY
ARTESIA, OFFICE

RECEIVED
JUL 15 1982
O. C. D.

Note: See Attached Sheet for Tabulation of Pressure
And Time.

JIM VADRINE

RAULT PETROLEUM

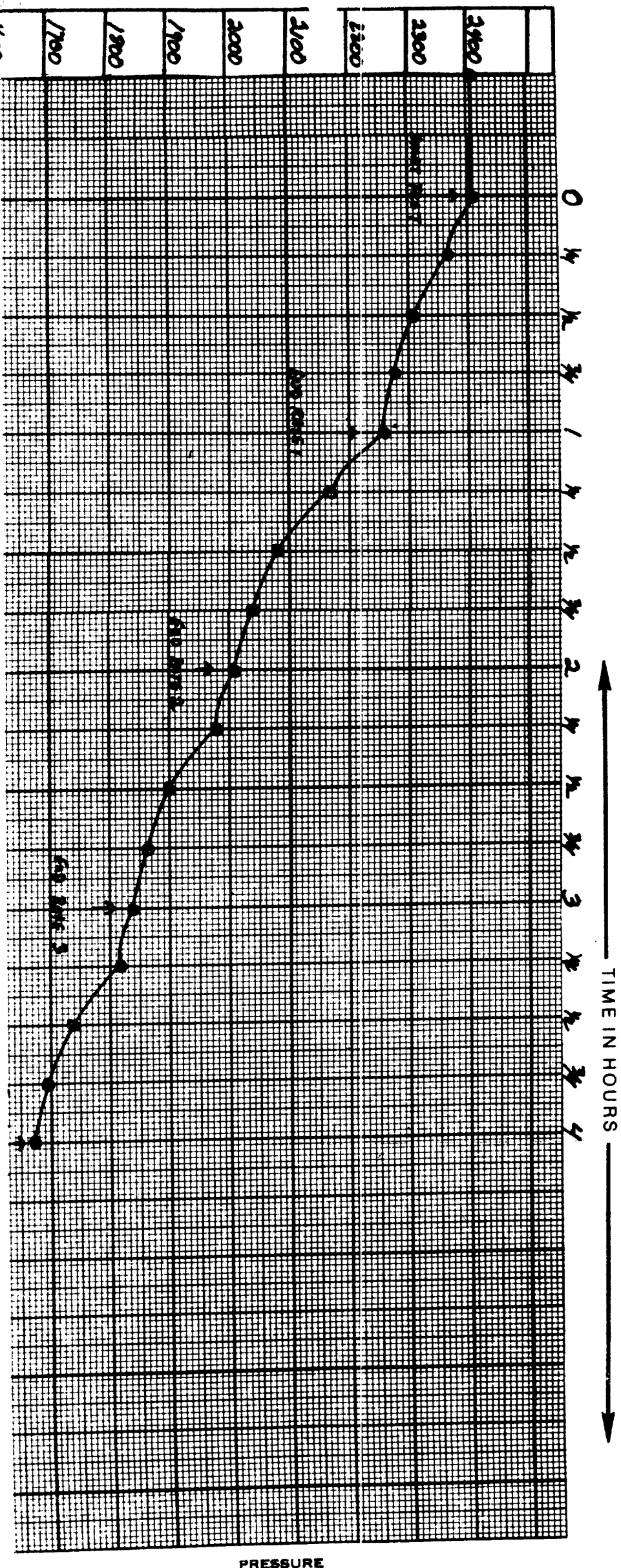
HANLAD STATE WELL NO. 1

BENNETT-CATHEY WIRE LINE SERVICE
Box 787
Artesia, N.M. 88210
505/746-3281

Drawn By Scale: As Shown



FOUR POINT BACK PRESSURE TEST



TEST DATE: 7-9-82
TEST DEPTH: 6,369

ELEMENT NO.: RFG3 #21121N
RANGE: 5,000 LBS.

CLOCKS: 27744
JUL 15 1982

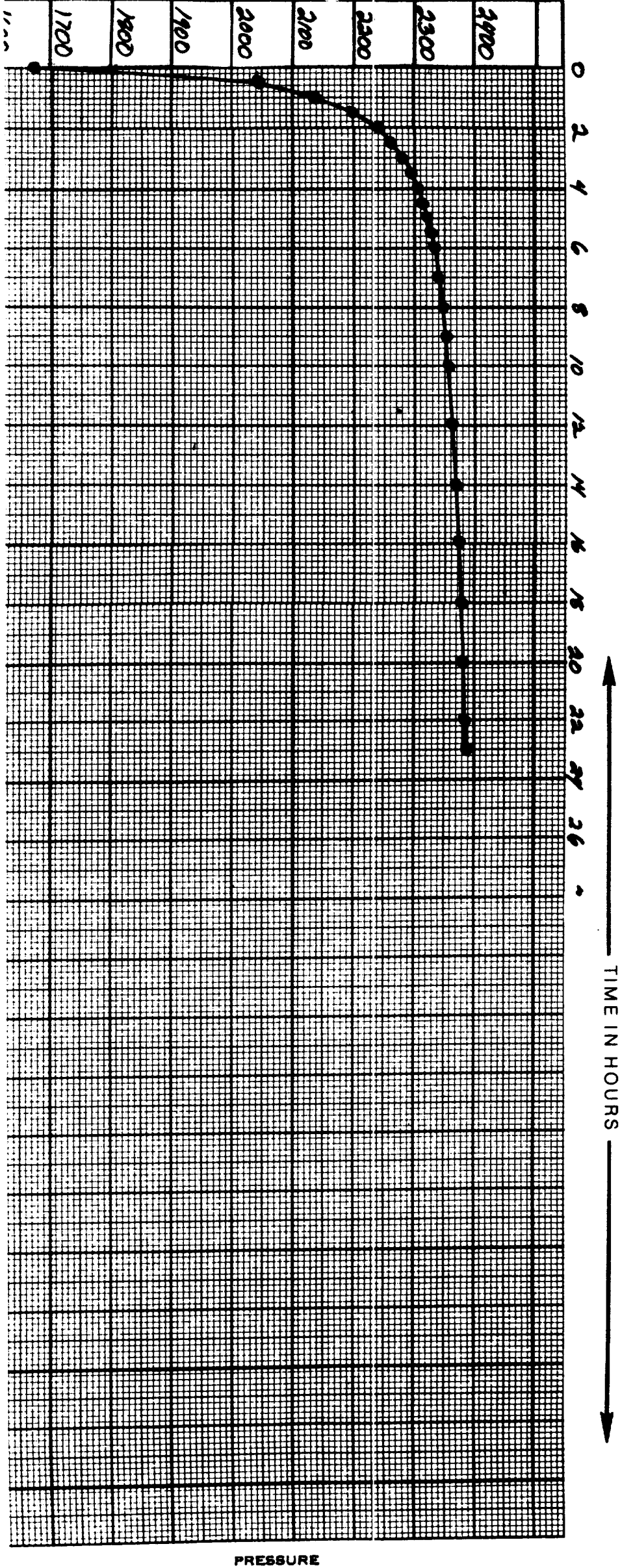
RANGE: 48 HOURS
O. C. D.

OPERATOR: BO FAULKENBERRY
ARTESIA, OFFICE

Note: See Attached Sheet for Tabulation of Pressure
And Time.

24 HOURS BUILD UP TEST

JIM VADRINE	
RAULT PETROLEUM	
HANLAD STATE WELL NO. 1	
BENNETT-CATHEY WIRE LINE SERVICE Box 787 Artesia, N.M. 88210 505/746-3281	
Drawn By	Scale: As Shown





BENNETT-CATHEY WIRE LINE SERVICE

P. O. BOX 787

ARTESIA, NEW MEXICO 88210

Phone (505) 746-3281



BOTTOM HOLE PRESSURE SURVEY REPORT

RECEIVED

OPERATOR RAULT PETROLEUM
LEASE HANLAD STATE
WELL NO. 1
POOL FORMATION PENN
DATE 7-9-82 TIME 1917 HOURS
CO. MAN JIM VADRINE
STATUS SHUT IN TEST DEPTH 6,369
TIME S.I. 1845 HRS. LAST TEST DATE 1ST TEST
7-8-82 BHP LAST TEST
TUB. PRES. 2007 BHP CHANGE
CAS. PRES. FLUID TOP
DATUM PLANE WATER TOP
DATUM PSIA 2382 RUN BY BO FAULKENBERRY
TEMP 124° CLOCK # 27744
PRESSURE RANGE 5,000 LBS.
ELEMENT NO. RPG3 #21121N

DEPTH	PRESSURE	GRADIENT
0	2007	
2,000	2128	
4,000	2244	
6,000	2357	
6,219	2370	
6,369	2382	

O. C. D.
ARTESIA, OFFICE
5.1
5.8
5.7
5.9
8.0

TIME B.H.P. MEASURED: 1917 HRS.

LENGTH OF TIME WELL SHUT IN: 24 HRS.
32 MIN.

