

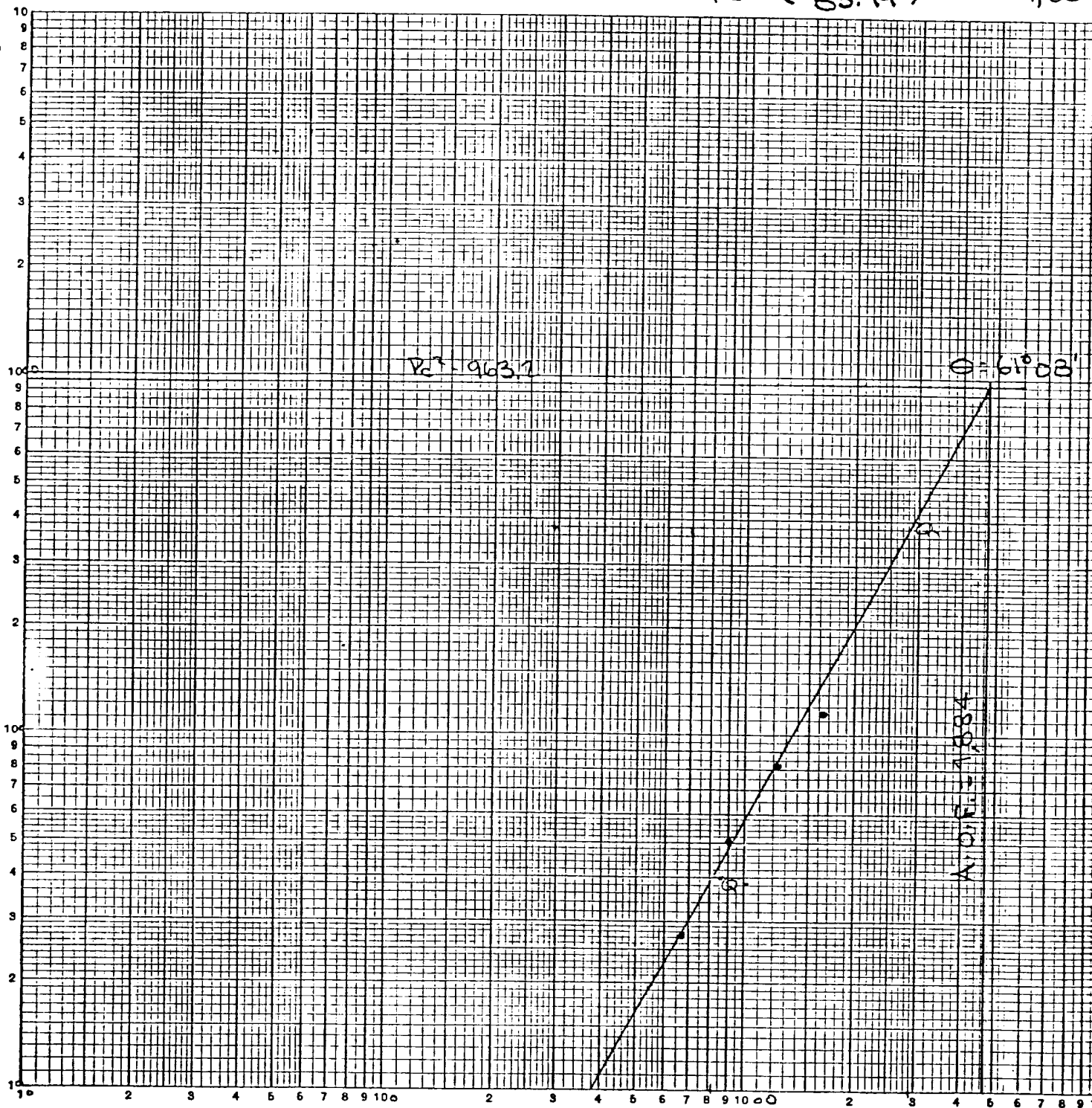
C/SF C-122

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 11-24-81		JAN 8 1982	
Company STEVENS OPERATING CORP.			Collection ATMOSPHERE		
Pool <u>Pecos Slope - Abo Gas</u> <u>WILDCAT</u>			Formation ABO		Unit ARTESIA OFFICE
Completion Date 11-20-81		Total Depth 4097		Flow Back TD 4097	
Csg. Size 4 1/2		Wt. 10.5		d 4.052	
Thq. Size 2 3/8		Wt. 4.7#		d 1.995	
Set At 4097		Set At 3828		Perforations: From 3886 to 3951	
Set At 3828		Set At 3828		Perforations: From OPENENDED	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE			Packer Set At 3828		Form or Lease Name Edmondson Federal
Producing Thru Tubing		Reservoir Temp. °F 93 @ 3919		Mean Annual Temp. °F 60°	
Baro. Press. - P _a 3828		State New Mexico		Well No. 2	
L 3919	H 3919	Cg -0-	% CO ₂ 7.402	% N ₂	% H ₂ S
Prover			Meter Run 4"		Tape Flange
FLOW DATA					
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw
SI					
1.	4	X	1 1/2	480	5"
2.	4	X	1 1/2	480	9"
3.	4	X	1 1/2	600	14"
4.	4	X	1 1/2	750	18"
5.					
TUBING DATA					
	Press. p.s.i.g.	Temp. °F			
	965				
	945	51°			
	887	55°			
	840	59°			
	810	60°			
CASING DATA					
	Press. p.s.i.g.	Temp. °F			
	PKR				
	CHOKE				
	12/64				
	14/64				
	16/64				
	20/64				
RATE OF FLOW CALCULATIONS					
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg
1	10.84	49.66	493.2	.9859	1.229
2	10.84	66.62	493.2	.9768	1.229
3	10.84	92.65	613.2	.9795	1.229
4	10.84	117.21	763.2	.9795	1.229
5					
Super. Factor, Fpv					
Rate of Flow O, Mcfd					
Gas Liquid Hydrocarbon Ratio 69.7 Mcf/bbl.					
A.P.I. Gravity of Liquid Hydrocarbons 52.9 @ 60° Deg.					
Specific Gravity Separator Gas .6621					
Specific Gravity Flowing Fluid .70514					
Critical Pressure 657 P.S.I.A.					
Critical Temperature 357 R					
P _c 981.44 P _w 963.22					
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1		967.32	935.7	27.52	
2		954.7	911.5	51.72	
3		938.1	880.03	83.19	
4		920.24	846.84	116.38	
5					
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 11.57856$					
(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.85799$					
$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4884$					
Absolute Open Flow 4884 Mcfd @ 15.025					
Angle of Slope @ 61! 08'					
Slope, n .551227					
Remarks: Bottom Hole Pressures measured with Amerada gauge at 3919'. Well made 1.5 Bbls. of Condensate during test.					
Approved By Commission:		Conducted By: M.R.		Calculated By: M.K.	
				Checked By: M.K.	

$$1266 \left(\frac{963.22}{83.19} \right)^{1.55127} = 4,884$$

LOG LOGARITHMIC 46 7400
3 X 3 CYCLES
KEUFFEL & ESSER CO.

$P_2 - P_w^2$



u.c.f. / 10^3 in 1000's

STEVENS OPERATING COMPANY
EDMONDSON FEDERAL NO. 2
4-POINT BACK PRESSURE TEST, AND
BOTTOM HOLE PRESSURE BUILD-UP TEST.
TABULATION OF TIMES AND PRESSURES.

TEST CONDUCTED BY:
JOHN WEST ENGINEERING COMPANY

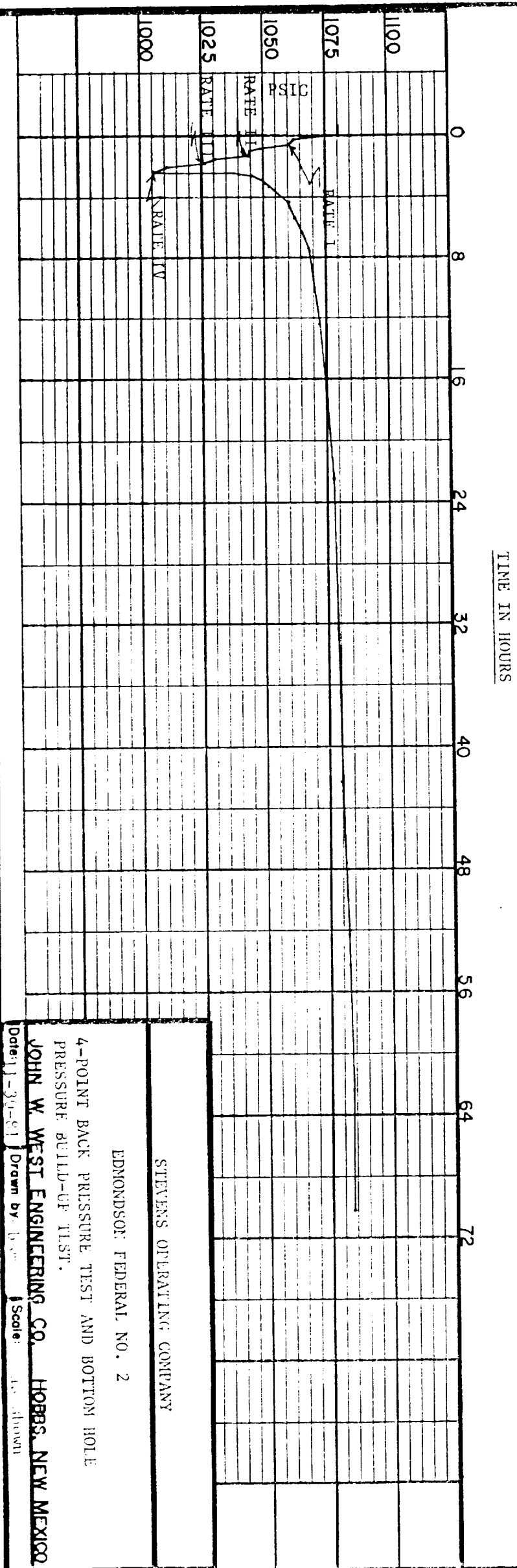
TEST DATE: NOVEMBER 24-27, 1981
TEST DEPTH: 3919 FEET
ELEMENT NO: 18129 (0-2500 psi)
OPERATOR: M.R.

<u>DATE</u>	<u>TIME</u>	<u>CUM HRS. / MIN.</u>	<u>PSIG @ 3919 FEET</u>
11-24-81	7:45 A.M.		1080 Gauge reached 3919'
11-24-81	8:15 A.M.	00 Hrs. 00 Min.	1080 Open Choke, Begin Test
		00 15	1063
		00 30	1060 End Rate I
	8:45 A.M.	00 45	1049
		01 00	1044
	9:30 A.M.	01 15	1044 End Rate II
		01 30	1030
	10:00 A.M.	01 45	1026 End Rate III
		02 00	1011
	10:30 A.M.	02 15	1006 END RATE IV, SHUT-IN
	10:30 A.M.	00 Hrs. 00 Min.	1006 Begin Build-Up
		00 15	1038
		00 30	1045
		00 45	1050
	11:30 A.M.	01 00	1052
	12:30 P.M.	02 00	1060
	1:30 P.M.	03 00	1063
	2:30 P.M.	04 00	1065
	3:30 P.M.	05 00	1068
11-24-81	8:30 P.M.	10 00	1072
11-25-81	1:30 A.M.	15 00	1075
	6:30 A.M.	20 00	1077
11-25-81	4:30 P.M.	30 00	1079
11-26-81	2:30 A.M.	40 00	1080
	12:30 P.M.	50 00	1082
11-26-81	10:30 P.M.	60 00	1083
11-27-81	6:30 A.M.	68 00	1084 Chart ran down, End Test.

TEST DATE: NOVEMBER 24-27, 1981
TEST DEPTH: 3919 FEET

ELEMENT NO: 18129
RANGE: 0-2500 PSI
CLOCK NO: E/2145
RANGE: 0-72

NOTE: See tabulation of Times and Pressures on attached sheet.



NEW-TEX LAB

P.O. BOX 1161

HOBBS NM 88241-1161

505-393-3561

ANALYSIS NUMBER: 6096

DATE OF RUN: 11/24/81

DATE SECURED: 11/24/81

ANALYSIS CERTIFICATE

SAMPLE IDENT: STEVENS - ~~EDMONDSON~~ Edmondson Federal #2

CLIENT: JOHN WEST ENGINEERING

ADDRESS: 412 N DAL PASO

CITY, STATE: HOBBS NM 88240

SAMPLING PRESS: 0 PSIG

SAMPLING TEMP: 0 DEG F

STATION NUMBER:

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

	MOLE PERCENT	GAL/ MCF
NITROGEN	7.4015881	
CARBON DIOXIDE	0.0000000	
METHANE	84.7402954	
ETHANE	4.2233305	1.1263600
PROPANE	1.5040853	0.4128710
ISO-BUTANE	0.2624195	0.0856275
NORMAL BUTANE	0.5619803	0.1766870
ISO-PENTANE	0.1937173	0.0707262
NORMAL PENTANE	0.2224804	0.0804044
HEXANES	0.2416132	0.0991098
HEPTANES PLUS	0.6484899	0.2984350
TOTAL	100.0000000	2.3502200

PROPANE GPM: 0.41

BUTANES GPM: 0.26

ETHANE GPM: 1.13

PENTANES PLUS GPM: 0.55

SPECIFIC GRAV (CALC): .6621

MOLE WEIGHT: 19.24

HHV-BTU/CU-FT	PRESSURE (PSIA)	WET	DRY
14.696		1041	1060
14.650		1038	1056
14.730		1044	1062
14.735		1044	1062

ANALYZED BY:

APPROVED BY:

