

ORIGINAL

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 4243

Name: Cross Bar Petroleum, Inc.

Address Centre City Plaza

151 N. Main, Suite 630

City/State/zip Wichita, KS 67202-1407

Purchaser: Kansas Gas Supply/ Texaco TTI

Operator Contact Person: C. K. Morrison

Phone (316) 265-2279

Contractor: Name: Murfin Drilling Co., Inc. #21

License: 30606

Thomas E. Davis (Tom) Blair

Wellsite Geologist: Richard S. (Steve) Davis

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBT

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

3-22-95 4-2-95 5-2-95

Spud Date Date Reached TD Completion Date

API NO. 15- 097-21,390-0000

County Kiowa

100' S. of NW-SE-NW Sec. 24 Twp. 29S Rge. 18 E W

1750 Feet from (circle one) Line of Section

1650 Feet from (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, or SW (circle one)

Lease Name Jenkins Well # 1-24

Field Name Wildcat

Producing Formation Mississippian

Elevation: Ground 2152' KB 2163'

Total Depth RTD 4950'; LTD 4951' PBT/LPBD 4901'

Amount of Surface Pipe Set and Cemented at 16.78' @ 429 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set N/A Feet

If Alternate II completion, cement circulated from N/A

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan ALT 1 11-15-95
(Data must be collected from the Reserve Plat)

Chloride content 34,000 ppm Fluid volume 650 bbls

Dewatering method used Allow pits to evaporate dry,

then backfill

Location of fluid disposal if hauled offsite:

N/A

Operator Name **RECEIVED**
KANSAS CORPORATION COMMISSION

Lease Name 7-7-1995 License No. _____

Wichita, KS July 7, 1995 Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

CONSERVATION DIVISION

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

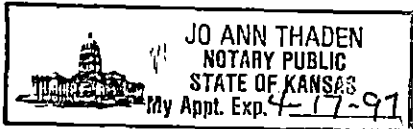
Signature C. K. Morrison

Title C. K. Morrison, Operations Mgr. Date 7-6-95

Subscribed and sworn to before me this 6th day of July, 1995.

Notary Public Jo Ann Thaden

Date Commission Expires 4-17-97



K.C.C. OFFICE USE ONLY		
F	<input checked="" type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input checked="" type="checkbox"/>	Geologist Report Received
Distribution		
<input type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep <input type="checkbox"/> NGPA
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug <input type="checkbox"/> Other
(Specify)		

1A/12190

SIDE TWO

Operator Name Cross Bar Petroleum, Inc. Lease Name Jenkins Well # 1-24

Sec. 24 Twp. 29S Rge. 18
 East County Kiowa
 West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)

Log Formation (Top), Depth and Datum Sample
 Name Top Datum

See Attached Supplement

List All E.Logs Run:
 Dual Induction; Dual Compensated Porosity;
 Cement Bond ; Perforating Record

CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	25#	429'	60-40 Poz	250	3% CaCl ₂ , 2% Gel, 1/2#/sk FloSeal
Production	7-7/8"	5-1/2"	14#	4947'KB	HLC, 60-40 Poz, EA-2	55, 60, 45	See ACO-1 Supplement

ADDITIONAL CEMENTING/SQUEEZE RECORD Mousehole 10 sx, Rathole 15 sx HCL w/ 1/2#sx Flocele

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2 jsfp	4850'-75', 4842'-46' & 4836'-39'	1000 ga. NEDSFe	4836'-4857'
		54,040 ga. Thix Water T-40	4836'-4857'
		(X-link) & 14,000# 20/40 Ottawa Sand	
		& 55,000# 12/20 Ottawa Sand	

TUBING RECORD Size Set At Packer At
 None at this time N/A
 Liner Run Yes No

Date of First, Resumed Production, SHD or Inj. 6-22-95
 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls. Trace	Gas Hcf	Water Bbls.	Gas-Oil Ratio	Gravity
		350	24		

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)
 METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify) _____
 Production Interval 4836'-4839'
 4842'-4846'
 4850'-4857'

ACO-1 WELL HISTORY SUPPLEMENT
 CROSS BAR PETROLEUM, INC. #1-24 JENKINS
 API #15-097-21390
 100' S. of NW SE NW SEC 24-T29S-R18W
 KIOWA CO., KANSAS

ORIGINAL

LOG TOPS

<u>FORMATION</u>	<u>LOG TOP</u>	<u>DATUM</u>
ANHYDRITE	1078	+1085
KRIDER	2431	-268
COTTONWOOD	2961	-798
WABAUNSEE	3254	-1091
STOTLER	3396	-1233
EMPORIA	3475	-1312
HEEBNER	4060	-1897
BROWN LIME	4238	-2075
LANS A POR	4261	-2098
LANS B POR	4289	-2126
LANS C POR	4313	-2150
DRUM	4427	-2264
STARK	4509	-2346
SWOPE POR	4512	-2349
HUSHPUCKNEY	4550	-2387
HERTHA	4571	-2408
BASE/KC	4651	-2488
MARMATON	4664	-2501
ALTAMONT POR	4714	-2551
PAWNEE POR	4748	-2585
CHEROKEE SHALE	4784	-2621
MISS UNCONFORMITY	4835	-2672
RTD	4950	-2787
LTD	4951	-2788

RECEIVED
 KANSAS CORPORATION COMMISSION

JUL 07 1995

CONSERVATION DIVISION
 WICHITA, KS

DRILL STEM TESTS

- DST #1 3466'-3484', EMPORIA, 45-60-45-60, 1st op - OB in 10 min, 2nd op - OB in 1 min, Rec 526' GIP, 154' MW (20% M, 80% W)
 Rec chl 65,000, System chl 6000. IHP 1786#, IFP 39-59#, ISIP 433#, FFP 68-78#, FSIP 433#, FHP 1686#, BHT 101° F.
- DST #2 4242'-4268', LANSING "A", 45-60-45-60, 1st op - strong blow GTS 6 min, Ga 47.7 MCFG/10 min, 81.8 MCFG/20 min, 81.8 MCFG/30 min, 78.1 MCFG/40 min, 78.1 MCFG/45 min. 1/2" choke. 2nd op - GTS immediately. 1/2" choke. Ga 108 MCFG/10 min, 90.1 MCFG/20 min, 78.1 MCFG/30 min, 78.1 MCFG/40 min, 73.6 MCFG/45 min. Rec 145' SGCM (2% G, No water), IHP 2169#, IFP 80-34#, ISIP 1363#, FFP 92-46#, FSIP 1294# building, FHP 2158#, BHT 125° F, SHS 1°.
- DST #3 4272'-4292', LANSING "B", 45-60-45-60, 1st op - weak blow built to 5 in. 2nd op -no blow for 5 min., weak surface blow built to 3 in. Rec 60' M w/ tr oil, 115' SW (Rec chl 90,000, System chl 8000). IHP 2203#, IFP 57-80#, ISIP 1465#, FFP 92-103#, FSIP 1465#, FHP 2158#, BHT 125° F.
- DST #4 4690'-4735', ALTAMONT, 45-60-45-90, 1st op - OB in 7 min, strong blow throughout. 2nd op - GTS 12 min, Ga 5.32 MCFG/10 min ran stable thru 45 min. (1/4" choke) Rec 75' Gas and Condensate Cut Mud. (35% G, 15% Cond., 50% M, no W). IHP 2355#, IFP 26-40#, ISIP 1368#, FFP 47-48#, FSIP 1546#, FHP 2281#, BHT 114° F.
- DST #5 4760'-4870', CHEROKEE & MISSISSIPPIAN, 45-60-60-120, 1st op - strong blow, off bottom in 5 min. 2nd op - GTS in 3 min, Ga 89.8 MCFG/5 min, 63.5 MCFG/10 min, 21.9 MCFG/20 min, 8.6 MCFG/30 min, 9.2 MCFG/40 min, 9.5 MCFG/50 min, 9.9 MCFG/60 min. Rec 70' GM, IHP 2436#, IFP 37-57#, ISIP 1162#, FFP 55-49#, FSIP 1394#, FHP 2349#, BHT 117° F.
- DST #6 4870'-4882', LOWER MISSISSIPPIAN, 14-16-8-OUT, 1st op - 3" blow died in 3 min, flushed tool, no help. 2nd op - no blow. Flushed tool, no help. Out. Rec 40' GIP, 20' M. IHP 2478#, IFP 20-19#, ISIP 36#, FFP 29-40#, FSIP N/A, FHP 2397#, BHT 109° F.

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name #1-24 JENKINS Test No. 1 Date 3/27/95
Company CROSSBAR PETROLEUM Zone EMPORIA
Address 151 N. MAIN #630, WICHITA, KS 67202-1407 Elevation 2163
Co. Rep./Geo. STEVE DAVIS Cont. MURFIN #21 Est. Ft. of Pay _____
Location: Sec. 24 Twp. 29S Rge. 18W Co. KIOWA State KS

Interval Tested 3466-3484 Drill Pipe Size 4.5" XH
Anchor Length 18 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3461 Drill Collar - 2.25 Ft. Run 116
Bottom Packer Depth 3466 Mud Wt. 9.1 lb/Gal.
Total Depth 3484 Viscosity 45 Filtrate 13.2

Tool Open @ 12:25AM Initial Blow STRONG BOTTOM OF BUCKET IN 10 MINUTES.
Final Blow STRONG - BOTTOM OF BUCKET IN 1 MINUTE.

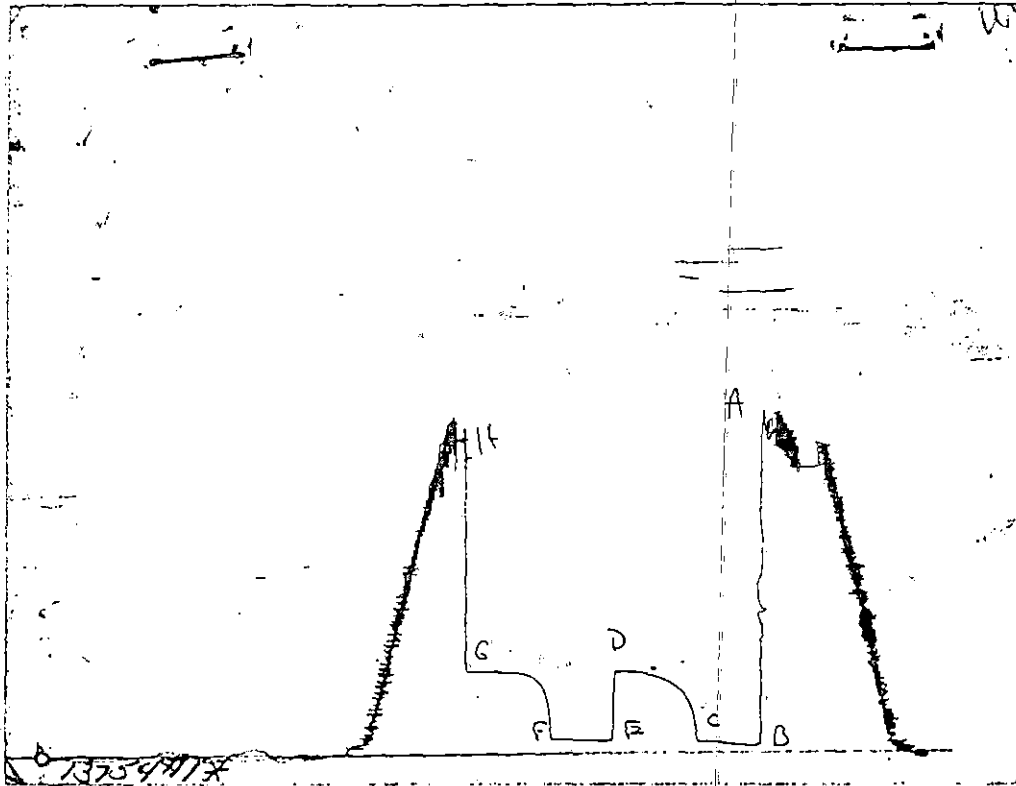
Recovery - Total Feet 154 Flush Tool? NO
Rec. 526 Feet of GAS IN PIPE
Rec. 154 Feet of MUDDY WATER. 80% WATER; 20% MUD.
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
KANSAS CORPORATION COMMISSION
JUL 07 1995
CONSERVATION DIVISION
WICHITA, KS

BHT 101 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.12 @ 70 °F Chlorides 65000 ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 1799.00 PSI AK1 Recorder No. 13754 Range 4000
(B) First Initial Flow Pressure 32.50 PSI @ (depth) 3470 w / Clock No. 25810
(C) First Final Flow Pressure 99.10 PSI AK1 Recorder No. 13849 Range 4375
(D) Initial Shut-in Pressure 434.10 PSI @ (depth) 3480 w / Clock No. 25108
(E) Second Initial Flow Pressure 64.00 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 74.80 PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure 434.10 PSI Initial Opening 45 Final Flow 45
(H) Final Hydrostatic Mud 1709.00 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of an AK1 recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1786	1799.00
(B) FIRST INITIAL FLOW PRESSURE	39	32.50
(C) FIRST FINAL FLOW PRESSURE	59	99.10
(D) INITIAL CLOSED-IN PRESSURE	433	434.10
(E) SECOND INITIAL FLOW PRESSURE	68	64.00
(F) SECOND FINAL FLOW PRESSURE	78	74.80
(G) FINAL CLOSED-IN PRESSURE	433	434.10
(H) FINAL HYDROSTATIC MUD	1686	1709.00

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TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name #1-24 JENKINS Test No. 2 Date 3/28/95
Company CROSS BAR PETROLEUM Zone LANSING 'A'
Address 151 N. MAIN #630 WICHITA KS 67202-1407 Elevation 2163
Co. Rep./Geo. STEVE DAVIS Cont. MURFIN #21 Est. Ft. of Pay 5
Location: Sec. 24 Twp. 29S Rge. 18W Co. KIOWA State KS

Interval Tested 4242-4268 Drill Pipe Size 4.5" XH
Anchor Length 26 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4237 Drill Collar - 2.25 Ft. Run 116
Bottom Packer Depth 4242 Mud Wt. 9.3 lb/Gal.
Total Depth 4268 Viscosity 44 Filtrate 14.4

Tool Open @ 9:50PM Initial Blow STRONG BLOW - GAS TO SURFACE IN 6 MINUTES

Final Blow SEE GAS VOLUME REPORT

Recovery - Total Feet 145 Flush Tool? NO

Rec. 145 Feet of SLIGHT GAS CUT MUD 2%GAS/98%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 125 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 8500 ppm System

(A) Initial Hydrostatic Mud 2167.34 PSI AK1 Recorder No. 13251 Range 4550

(B) First Initial Flow Pressure 66.80 PSI @ (depth) 4245 w / Clock No. 30416

(C) First Final Flow Pressure 25.30 PSI AK1 Recorder No. 13255 Range 6300

(D) Initial Shut-in Pressure 1376.68 PSI @ (depth) 4265 w / Clock No. 8696

(E) Second Initial Flow Pressure 40.25 PSI AK1 Recorder No. _____ Range _____

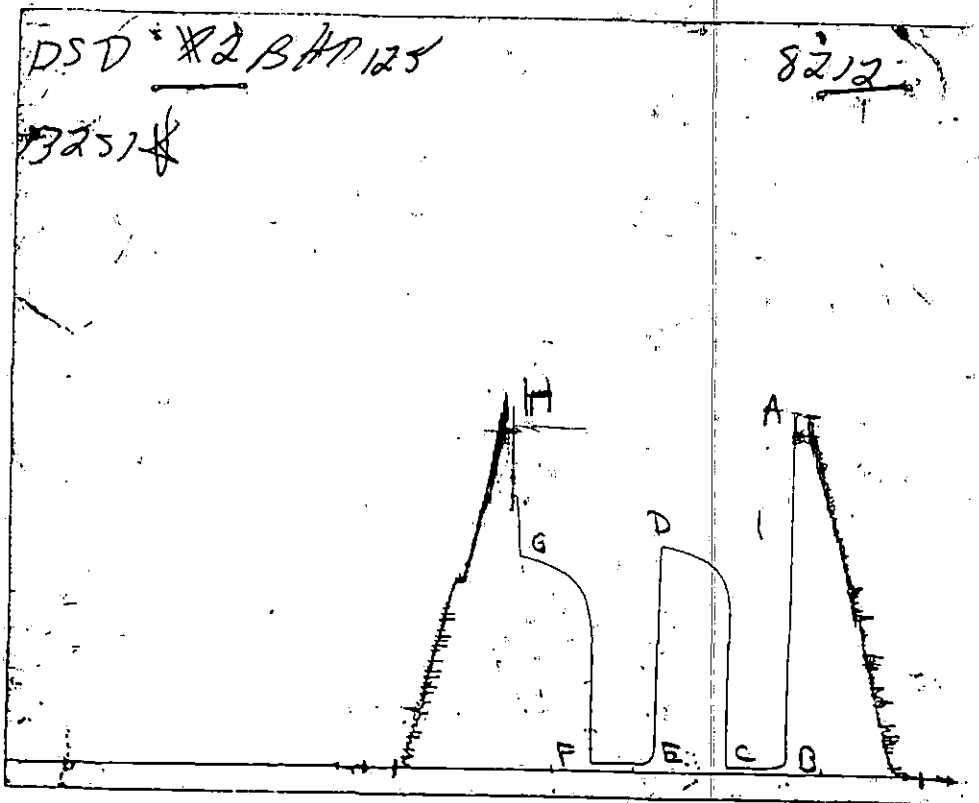
(F) Second Final Flow Pressure 40.25 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1296.75 PSI Initial Opening 45 Final Flow 45

(H) Final Hydrostatic Mud 2156.03 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative ROBERT COLLINS

CHART PAGE



This is an actual photograph of an AK1 recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2169	2167.34
(B) FIRST INITIAL FLOW PRESSURE	80	66.80
(C) FIRST FINAL FLOW PRESSURE	34	25.30
(D) INITIAL CLOSED-IN PRESSURE	1363	1362.98
(E) SECOND INITIAL FLOW PRESSURE	92	40.25
(F) SECOND FINAL FLOW PRESSURE	46	40.25
(G) FINAL CLOSED-IN PRESSURE	1294	1283.04
(H) FINAL HYDROSTATIC MUD	2158	2156.03

GAS VOLUME REPORT

CROSSBAR PETROLEUM

#1-24 JENKINS

DST # 2

<u>MIN</u>	<u>INS. WATER</u>	<u>ORIFICE</u>	<u>MCF/D</u>	<u>MIN</u>	<u>INS. WATER</u>	<u>ORIFICE</u>	<u>MCF/D</u>
	<u>PSIG</u>				<u>PSIG</u>		
10	2	0.5	47.7	10	9	0.5	108
20	5.5	0.5	81.8	20	6.5	0.5	90.1
30	5.5	0.5	81.8	30	5	0.5	78.1
40	5	0.5	78.1	40	5	0.5	78.1
4		0.5	78.1	45	4.5	0.5	73.6

Remarks: GAS TO SURFACE IN 6 MINUTES. GAS WILL BURN.

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L.L.C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:
Caraway Analytical, L.L.C.
728 North Roosevelt
Liberal, Kansas 67901
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number: 950164
Sample From: Jenkins 1-24 DST 2
Producer: Cross Bar Petroleum
Date:
Time:
Sampler:
Source:

Analyzed: 03/30/95
Pressure:
Temperature:
Location: 24-29-18
County: Kiowa
State: Kansas
Formation: Lansing A

	Mole %	GPM
Helium	He: 0.368	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 18.544	0.000
Carbon Dioxide	CO2: 0.640	0.000
Methane	C1: 70.310	0.000
Ethane	C2: 4.466	1.194
Propane	C3: 2.676	0.737
Iso Butane	iC4: 0.607	0.199
Normal Butane	nC4: 1.163	0.367
Iso Pentane	iC5: 0.402	0.147
Normal Pentane	nC5: 0.447	0.162
Hexanes Plus	C6+: 0.377	0.164
TOTAL: 100.000		2.971
Z Fact: 0.9977		
SP.GR.: 0.7367		
BTU (SAT): 955.1 @ 14.73 psia		
BTU (DRY): 972.0 @ 14.73 psia		
OCTANE RATING: 100.9		

COMMENTS: Sample entered under vacuum

INITIAL SHUT-IN

#1-24 JENKINS

DST # 2

INITIAL FLOW TIME 45

SLOPE

284583.4 PSI/CYCLE

P*

1476.43 PSI

	<u>TIME(MIN)</u>	<u>Pws (psi)</u>	<u>Log</u> <u>Horn T</u>	<u><></u> <u>PRESSURE</u>	<u>Horn T</u>
	3	1092.44	1.204	1092.4	16
	6	1170.07	0.929	77.6	9
	9	1205.44	0.778	35.4	6
	12	1240.81	0.677	35.4	5
	15	1261.34	0.602	20.5	4
	18	1279.62	0.544	18.3	4
	21	1296.75	0.497	17.1	3
	24	1308.17	0.459	11.4	3
Q	27	1315.02	0.426	6.9	3
	30	1324.16	0.398	9.1	3
	33	1333.29	0.374	9.1	2
	36	1340.15	0.352	6.9	2
	39	1348.14	0.333	8.0	2
	42	1354.99	0.316	6.9	2
	45	1359.56	0.301	4.6	2
	48	1364.12	0.287	4.6	2
	51	1370.97	0.275	6.9	2
X	54	1376.68	0.263	5.7	2

FINAL SHUT-IN

#1-24 JENKINS

DST # 2

TOTAL FLOW TIME 90

SLOPE
P*

419351.6
1449.45

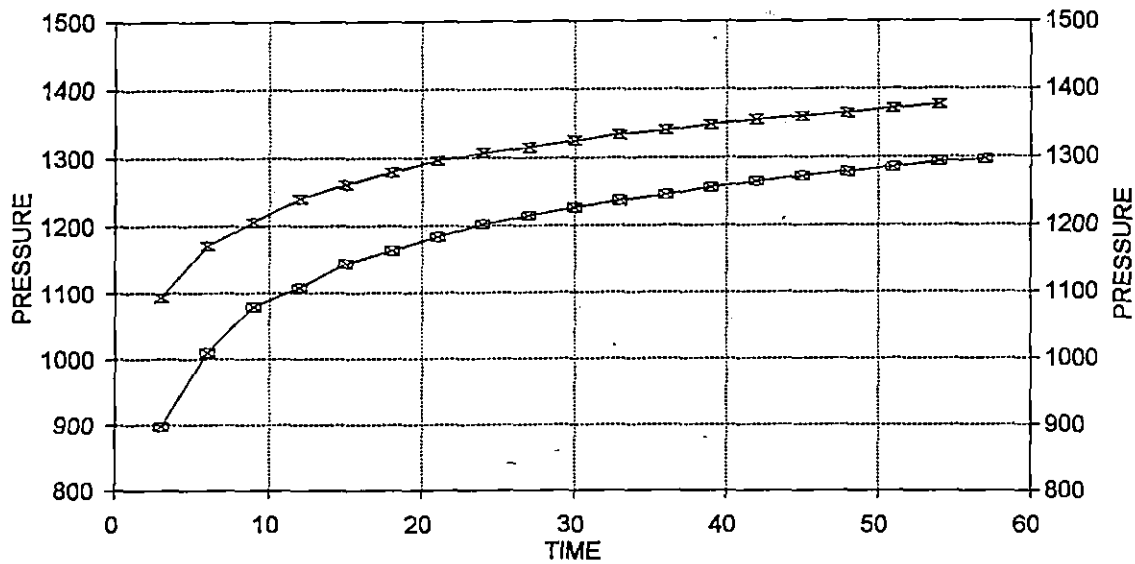
PSI/CYCLE
PSI

	<u>TIME(MIN)</u>	<u>Pws (psi)</u>	<u>Log Horn T</u>	<u><> PRESSURE</u>	<u>Horn T</u>
	3	898.40	1.491	898.4	31
	6	1009.09	1.204	110.7	16
	9	1078.73	1.041	69.6	11
	12	1108.42	0.929	29.7	9
	15	1143.82	0.845	35.4	7
	18	1163.22	0.778	19.4	6
	21	1183.76	0.723	20.5	5
	24	1202.02	0.677	18.3	5
	27	1214.57	0.637	12.6	4
	30	1227.12	0.602	12.5	4
Q	33	1237.39	0.571	10.3	4
	36	1245.37	0.544	8.0	4
	39	1256.78	0.520	11.4	3
	42	1264.77	0.497	8.0	3
	45	1272.76	0.477	8.0	3
	48	1278.48	0.459	5.7	3
	51	1285.33	0.442	6.9	3
	54	1293.32	0.426	8.0	3
X	57	1296.75	0.411	3.4	3

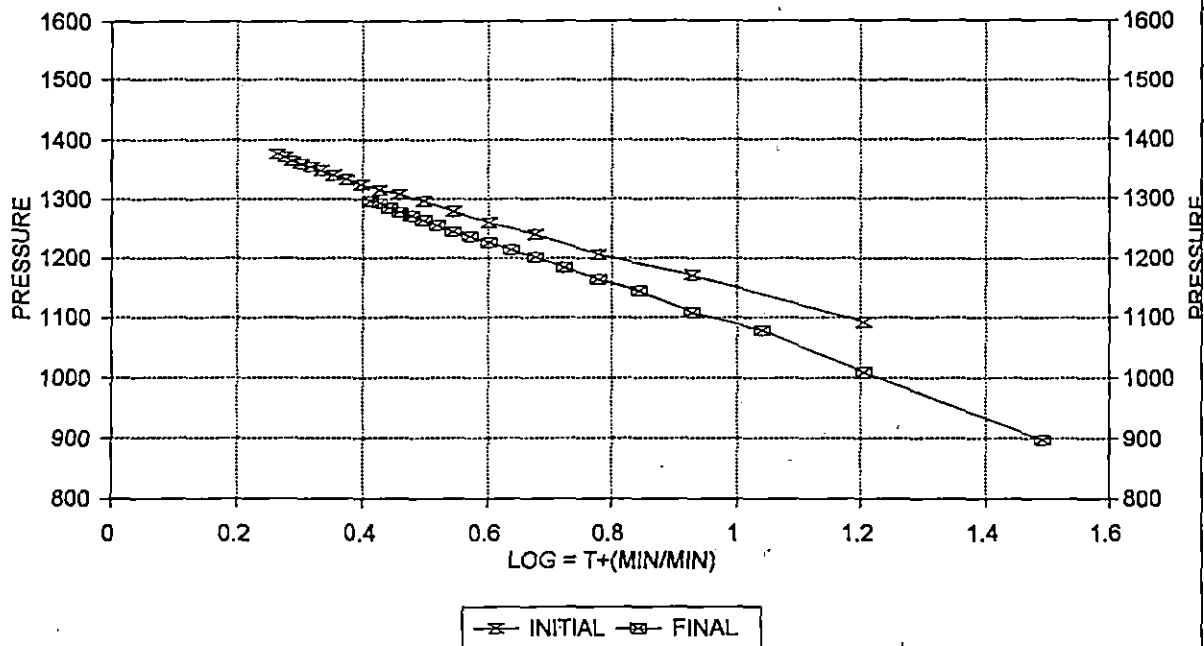


DELTA T DELTA

1-24 JENKINS / DST #2



HORNER PLOT



TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

Well Name #1-24 JENKINS Test No. 3 Date 3/29/95
Company CROSSBAR PETROLEUM Zone LANSING B
Address 151 N. MAIN #630, WICHITA, KS 67202-1407 Elevation 2163
Co. Rep./Geo. STEVE DAVIS Cont. MURFIN #21 Est. Ft. of Pay _____
Location: Sec. 24 Twp. 29S Rge. 18W Co. KIOWA State KS

Interval Tested 4272-4292 Drill Pipe Size 4.5" XH
Anchor Length 20 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4267 Drill Collar - 2.25 Ft. Run 116
Bottom Packer Depth 4272 Mud Wt. 9.2 lb/Gal.
Total Depth 4292 Viscosity 46 Filtrate 12

Tool Open @ 1:50PM Initial Blow WEAK BLOW BUILD TO 5 INCHES.

Final Blow NO BLOW FOR 5 MINUTES. VERY WEAK SURFACE BLOW BUILD TO 3 INCHES.

Recovery - Total Feet 175 Flush Tool? NO

Rec. 60 Feet of DRILLING MUD WITH OIL SPOTS. TRACE OIL; 100% MUD.

Rec. 115 Feet of SALT WATER.

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 125 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW 0.124 @ 66 °F Chlorides 90000 ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud 2226.21 PSI AK1 Recorder No. 13251 Range 4550

(B) First Initial Flow Pressure 52.96 PSI @ (depth) 4275 w / Clock No. 30416

(C) First Final Flow Pressure 76.00 PSI AK1 Recorder No. 13255 Range 6300

(D) Initial Shut-in Pressure 1465.69 PSI @ (depth) 4289 w / Clock No. 8698

(E) Second Initial Flow Pressure 92.10 PSI AK1 Recorder No. _____ Range _____

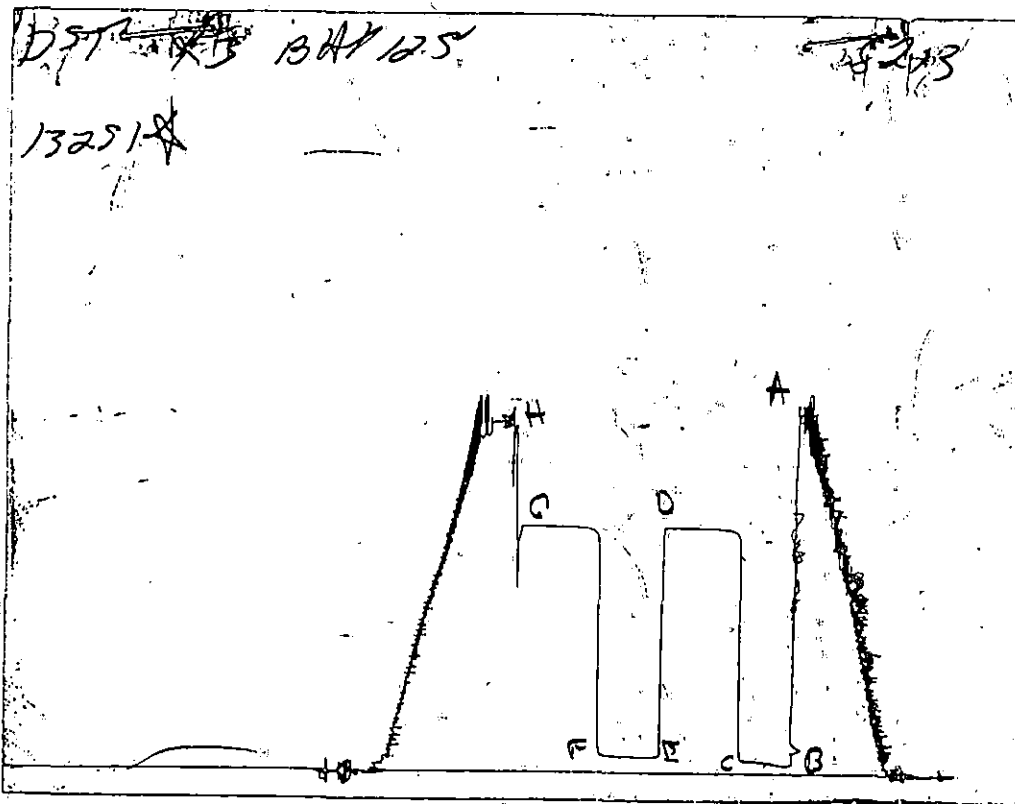
(F) Second Final Flow Pressure 103.65 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1461.12 PSI Initial Opening 45 Final Flow 45

(H) Final Hydrostatic Mud 2148.12 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative ROBERT COLLINS

CHART PAGE



This is an actual photograph of an AK1 recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2226.21	2226.21
(B) FIRST INITIAL FLOW PRESSURE	52.96	52.96
(C) FIRST FINAL FLOW PRESSURE	76	76.00
(D) INITIAL CLOSED-IN PRESSURE	1465.69	1465.69
(E) SECOND INITIAL FLOW PRESSURE	92.1	92.10
(F) SECOND FINAL FLOW PRESSURE	103.65	103.65
(G) FINAL CLOSED-IN PRESSURE	1461.12	1461.12
(H) FINAL HYDROSTATIC MUD	2148.12	2148.12

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name #1-24 JENKINS Test No. 4 Date 3/31/95
Company CROSSBAR PETROLEUM Zone ALTAMONT
Address 151 N. MAIN #630, WICHITA, KS 67202-1407 Elevation 2163
Co. Rep./Geo. STEVE DAVIS Cont. MURFIN #21 Est. Ft. of Pay _____
Location: Sec. 24 Twp. 29S Rge. 18W Co. KIOWA State KS

Interval Tested 4690-4735 Drill Pipe Size 4.5" XH
Anchor Length 45 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4685 Drill Collar - 2.25 Ft. Run 116
Bottom Packer Depth 4690 Mud Wt. 9.2 lb/Gal.
Total Depth 4735 Viscosity 54 Filtrate 8.4

Tool Open @ 7:27AM Initial Blow STRONG - BOTTOM OF BUCKET IN 7 MINUTES.

Final Blow STRONG - GAUGING GAS - SEE REPORT.

Recovery - Total Feet 75 Flush Tool? NO

Rec. 75 Feet of GASSY OIL CUT MUD, 35% GAS; 15% OIL; 50% MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 114 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 2355.51 PSI AK1 Recorder No. 2346 Range 4995

(B) First Initial Flow Pressure 26.43 PSI @ (depth) 4694 w / Clock No. ALPINE

(C) First Final Flow Pressure 40.28 PSI AK1 Recorder No. 22150 Range 3925

(D) Initial Shut-in Pressure 1368.35 PSI @ (depth) 4730 w / Clock No. 22348

(E) Second Initial Flow Pressure 46.74 PSI AK1 Recorder No. _____ Range _____

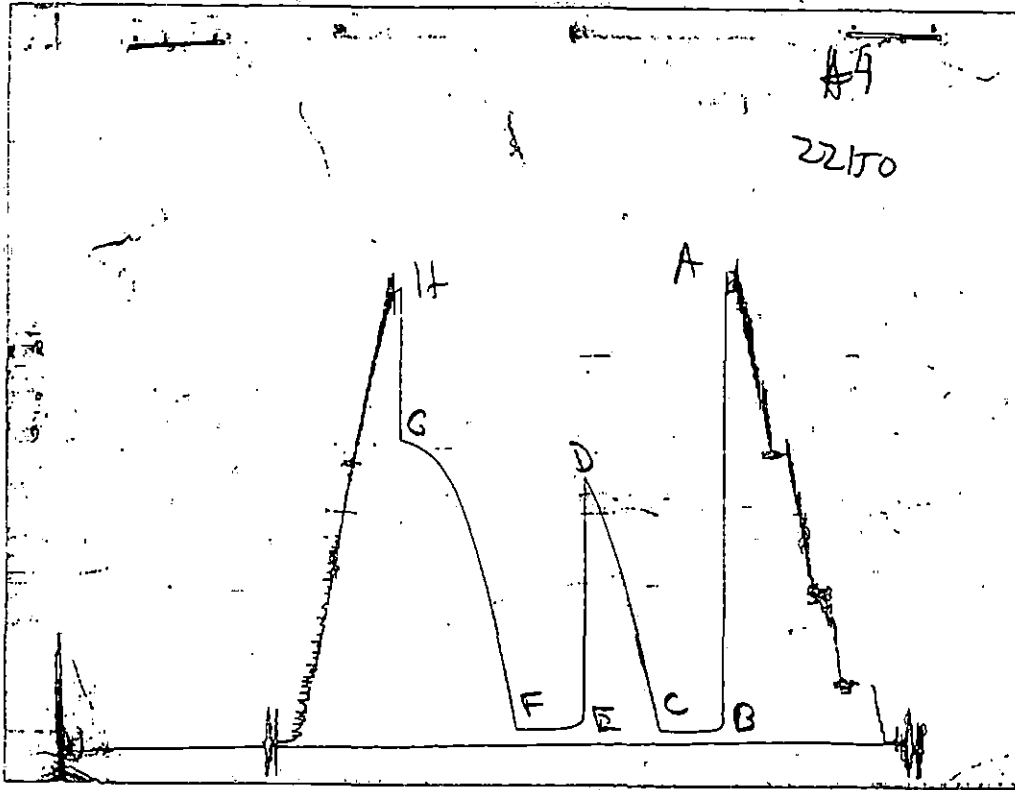
(F) Second Final Flow Pressure 47.91 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1546.19 PSI Initial Opening 45 Final Flow 45

(H) Final Hydrostatic Mud 2281.07 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of an AK1 recorder chart

	AK1 READING	ALPINE READING
(A) INITIAL HYDROSTATIC MUD	2382.5	2355.51
(B) FIRST INITIAL FLOW PRESSURE	60.3	26.43
(C) FIRST FINAL FLOW PRESSURE	60.3	40.28
(D) INITIAL CLOSED-IN PRESSURE	1334.6	1368.35
(E) SECOND INITIAL FLOW PRESSURE	59.4	46.74
(F) SECOND FINAL FLOW PRESSURE	58.4	47.91
(G) FINAL CLOSED-IN PRESSURE	1512	1546.19
(H) FINAL HYDROSTATIC MUD	2302.2	2281.07

TRILOBITE TESTING L.L.C.

OPERATOR : Crossbar Petroleum, Inc
 WELL NAME: Jenkins #1-24
 LOCATION : 24-29s-18w
 INTERVAL : 4690.00 To 4735.00 ft

DATE 3/31/95
 KB 2161.00 ft TICKET NO: 7901 DST #4
 GR 2152.00 ft FORMATION: Altamont
 TD 4735.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
45 Rec.	2215.	22150	2356			PF Fr. 45 to hr
60 Range(Psi)	3925.0	3925.0	4996.0	0.0	0.0	IS Fr. to 1 hr
45 Clock(hrs)	12HR	12HR	ALP			SF Fr. 45 to hr
90 Depth(ft)	4730.0	4730.0	4694.0	0.0	0.0	FS Fr. 30 to 1 hr

	Field	1	2	3	4	
Init Hydro	2397.0	2382.0	2355.0	0.0	0.0	T STARTED 0603 hr
First Flow	52.0	60.0	26.0	0.0	0.0	T ON BOTM 0725 hr
Final Flow	52.0	60.0	40.0	0.0	0.0	T OPEN 0727 hr
In Shut-in	1370.0	1335.0	1368.0	0.0	0.0	T PULLED 1127 hr
Init Flow	64.0	59.0	47.0	0.0	0.0	T OUT 1254 hr
Final Flow	52.0	58.0	48.0	0.0	0.0	
F1 Shut-in	1561.0	1512.0	1546.0	0.0	0.0	
Final Hydro	2329.0	2281.0	2281.0	0.0	0.0	

TOOL DATA-----	
Tool Wt.	2100.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	62000.00 lbs
Initial Str Wt	59000.00 lbs
Unseated Str Wt	60000.00 lbs

RECOVERY

Net Fluid 75.00 ft of 75.00 ft in DC and 0.00 ft in DP
 5.00 ft of GASSY OIL CUT MUD 35% GAS; 15% OIL; 50% MUD.
 .00 ft of
 .00 ft of
 .00 ft of
 .00 ft of
 .00 ft of
 .00 ft of
 .00 ft of

Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	116.00 ft
D.P. Length	4579.00 ft

WATER SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	CHEMICAL
Weight	9.20 lb/cf
Vis.	54.00 S/L
W.L.	8.40 in3
F.C.	0.00 in
Mud Drop	

FLOW DESCRIPTION

STRONG - BOTTOM OF BUCKET IN 7 MINUTES

Amt. of fill	0.00 ft
Btm. H. Temp.	1140.00 F
Hole Condition	GOOD
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	

SAMPLES: 2ND FLOW
 SENT TO: CARAWAY

Tester PAUL SIMPSON
 Co. Rep. TOM BLAIR
 Contr. MURFIN
 Rig # 21
 Unit #
 Pump T.

Test Successful: Y

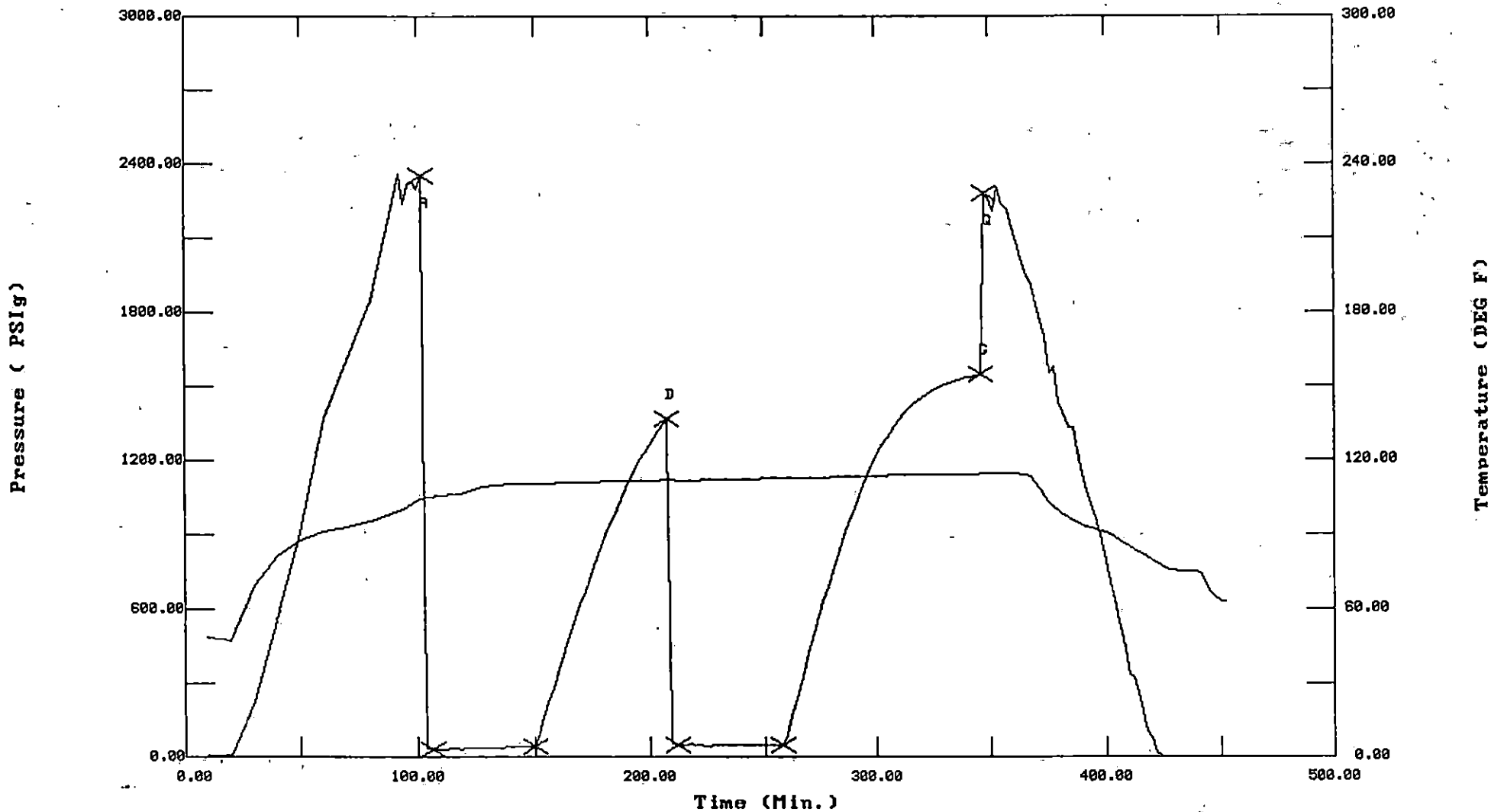
TEST HISTORY

Crossbar Petroleum 1-24 Jenkins DST #4

Flag Points

t(Min.) P(PSig)

A:	0.00	2355.51
B:	0.00	26.43
C:	44.00	40.28
D:	58.00	1368.35
E:	0.00	46.74
F:	46.00	47.91
G:	68.00	1546.19
H:	0.00	2281.07



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Crossbar Petroleum 1-24 Jenkins DST #4

DATE: 03/31/95

TIME: 05:43:11

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	102.00	2355.5	0.0	104.19		
***** Start Flow 1	0.00	26.4	0.0	105.06		
	2.00	29.2	2.8	105.32		
	4.00	29.5	3.0	105.54		
	6.00	30.1	3.7	105.73		
	8.00	31.8	5.4	105.89		
	10.00	33.2	6.8	106.08		
	12.00	30.5	4.0	106.28		
	14.00	31.3	4.9	106.72		
	16.00	32.1	5.6	107.59		
	18.00	32.6	6.2	108.05		
	20.00	33.5	7.0	108.60		
	22.00	34.0	7.6	108.88		
	24.00	34.5	8.1	109.14		
	26.00	35.3	8.9	109.43		
	28.00	35.7	9.3	109.70		
	30.00	36.5	10.1	109.90		
	32.00	37.1	10.7	110.03		
	34.00	37.5	11.1	110.12		
	36.00	38.2	11.7	110.18		
	38.00	38.8	12.3	110.21		
	40.00	39.4	12.9	110.24		
	42.00	40.0	13.6	110.29		
***** End Flow 1	44.00	40.3	13.8	110.34		
***** Start Shutin 1	0.00	40.3	0.0	110.34	0.0000	0.002
	2.00	93.6	53.3	110.38	23.0000	0.009
	4.00	157.7	117.4	110.46	12.0000	0.025
	6.00	219.5	179.3	110.54	8.3333	0.048
	8.00	279.3	239.0	110.60	6.5000	0.078
	10.00	338.0	297.7	110.67	5.4000	0.114
	12.00	395.4	355.1	110.73	4.6667	0.156
	14.00	452.0	411.7	110.78	4.1429	0.204
	16.00	507.7	467.4	110.84	3.7500	0.258
	18.00	562.6	522.3	110.90	3.4444	0.316
	20.00	616.4	576.1	110.96	3.2000	0.380
	22.00	669.3	629.0	111.02	3.0000	0.448
	24.00	721.2	680.9	111.06	2.8333	0.520
	26.00	771.6	731.3	111.11	2.6923	0.595
	28.00	821.1	780.8	111.17	2.5714	0.674
	30.00	869.1	828.9	111.23	2.4667	0.755
	32.00	915.0	874.7	111.27	2.3750	0.837
	34.00	959.8	919.5	111.31	2.2941	0.921
	36.00	1003.3	963.1	111.38	2.2222	1.007
	38.00	1045.1	1004.9	111.42	2.1579	1.092
	40.00	1085.8	1045.6	111.46	2.1000	1.179
	42.00	1124.6	1084.3	111.50	2.0476	1.265
	44.00	1161.5	1121.2	111.55	2.0000	1.349
	46.00	1196.5	1156.2	111.59	1.9565	1.432
	48.00	1229.7	1189.4	111.66	1.9167	1.512
	50.00	1261.3	1221.0	111.68	1.8800	1.591
	52.00	1291.0	1250.7	111.73	1.8462	1.667

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Crossbar Petroleum 1-24 Jenkins DST #4

DATE: 03/31/95

TIME: 05:43:11

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dt)/dt	P ² /10 ⁶
	54.00	1318.7	1278.5	111.79	1.8148	1.739
	56.00	1344.6	1304.3	111.83	1.7857	1.808
***** End Shut-in 1	58.00	1368.4	1328.1	111.87	1.7586	1.872
***** Start Flow 2	0.00	46.7	0.0	111.75		
	2.00	48.0	1.3	111.64		
	4.00	47.1	0.3	111.61		
	6.00	51.2	4.4	111.65		
	8.00	43.4	-3.4	111.70		
	10.00	47.9	1.2	111.77		
	12.00	41.5	-5.3	111.82		
	14.00	42.0	-4.8	111.88		
	16.00	46.9	0.2	111.97		
	18.00	43.3	-3.4	112.02		
	20.00	43.0	-3.7	112.07		
	22.00	44.5	-2.3	112.11		
	24.00	46.0	-0.8	112.16		
	26.00	46.3	-0.4	112.20		
	28.00	42.9	-3.9	112.26		
	30.00	45.6	-1.2	112.32		
	32.00	44.0	-2.8	112.35		
	34.00	45.4	-1.3	112.38		
	36.00	44.0	-2.8	112.41		
	38.00	46.2	-0.5	112.45		
	40.00	46.2	-0.6	112.51		
	42.00	46.0	-0.8	112.55		
	44.00	47.2	0.4	112.62		
***** End Flow 2	46.00	47.9	1.2	112.63		
***** Start Shutin 2	0.00	47.9	0.0	112.63	0.0000	0.002
	2.00	86.8	38.9	112.63	46.0000	0.008
	4.00	163.1	115.2	112.63	23.5000	0.027
	6.00	236.4	188.5	112.63	16.0000	0.056
	8.00	306.5	258.6	112.63	12.2500	0.094
	10.00	374.3	326.4	112.64	10.0000	0.140
	12.00	440.5	392.6	112.75	8.5000	0.194
	14.00	505.1	457.2	112.80	7.4286	0.255
	16.00	568.0	520.1	112.87	6.6250	0.323
	18.00	629.5	581.5	112.94	6.0000	0.396
	20.00	689.9	642.0	113.00	5.5000	0.476
	22.00	747.7	699.8	113.04	5.0909	0.559
	24.00	803.3	755.4	113.09	4.7500	0.645
	26.00	857.4	809.5	113.13	4.4615	0.735
	28.00	910.3	862.4	113.20	4.2143	0.829
	30.00	960.0	912.0	113.23	4.0000	0.922
	32.00	1008.0	960.1	113.29	3.8125	1.016
	34.00	1054.0	1006.0	113.32	3.6471	1.111
	36.00	1098.1	1050.2	113.37	3.5000	1.206
	38.00	1139.5	1091.6	113.41	3.3684	1.298
	40.00	1178.4	1130.5	113.45	3.2500	1.389
	42.00	1215.1	1167.2	113.51	3.1429	1.476
	44.00	1249.3	1201.4	113.54	3.0455	1.561
	46.00	1281.0	1233.1	113.60	2.9565	1.641

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Crossbar Petroleum 1-24 Jenkins DST #4

DATE: 03/31/95

TIME: 05:43:11

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	48.00	1310.3	1262.4	113.63	2.8750	1.717
	50.00	1337.0	1289.1	113.66	2.8000	1.788
	52.00	1361.5	1313.6	113.69	2.7308	1.854
	54.00	1383.4	1335.5	113.73	2.6667	1.914
	56.00	1403.3	1355.4	113.77	2.6071	1.969
	58.00	1421.1	1373.1	113.79	2.5517	2.019
	60.00	1437.1	1389.2	113.83	2.5000	2.065
	62.00	1451.4	1403.5	113.87	2.4516	2.107
	64.00	1464.3	1416.4	113.88	2.4062	2.144
	66.00	1475.8	1427.9	113.93	2.3636	2.178
	68.00	1486.1	1438.2	113.95	2.3235	2.208
	70.00	1495.2	1447.3	113.98	2.2857	2.236
	72.00	1503.4	1455.5	114.01	2.2500	2.260
	74.00	1510.7	1462.8	114.04	2.2162	2.282
	76.00	1517.4	1469.5	114.07	2.1842	2.303
	78.00	1523.4	1475.5	114.08	2.1538	2.321
	80.00	1528.7	1480.8	114.13	2.1250	2.337
	82.00	1533.8	1485.9	114.15	2.0976	2.352
	84.00	1538.4	1490.5	114.17	2.0714	2.367
	86.00	1542.5	1494.6	114.19	2.0465	2.379
***** End Shut-in 2	88.00	1546.2	1498.3	114.22	2.0227	2.391
***** Final Hydro.	348.00	2281.1	0.0	114.29		

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Jenkins #1-24

LOCATION : 24-29s-18w

TICKET No. 7901 D.S.T. No. 4 DATE 3/31/95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 14

TOTAL TOOL 41

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 31

TOTAL ASSEMBLY 72

D.C. ABOVE TOOLS.Stands2 Single Total 116

D.P. ABOVE TOOLS.Stands73 Single Total 4579

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4579

TOTAL DEPTH 4735

TOTAL DRILL PIPE ABOVE K.B. 32

REMARKS:

P.O. SUB	
C.O. SUB	
S.I. TOOL	4665
HMV HYDRAULIC TOOL	4670
JARS	4675
SAFETY JOINT	4679
PACKER TOP PACKER	4685
PACKER BOTTOM PACKER	4690
DEPTH 4690	
STUBB	4694
ANCHOR 3' PERF	4694
ALPINE RECORDER	4694
DRILL PIPE AND SUBS	4727
5' PERF	4732
T.C. DEPTH	
AK1 RECORDER	4731
BULLNOSE	
T.D.	

GAS RECOVERY

COMPANY: Crossbar Petroleum, Inc

DATE: 3/31/95

WELL NAME: Jenkins #1-24

KB Elev: 2161.00 ft TICKET #7901 DST #4

WELL LOCATION: 24-29s-18w

GR Elev: 2152.00 ft FORMATION: Altamont

INTERVAL Fr.: 4690.00 To 4735.00 T.D.: 4735.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH MERLA

***** GAS RATES FOR FLOW #2

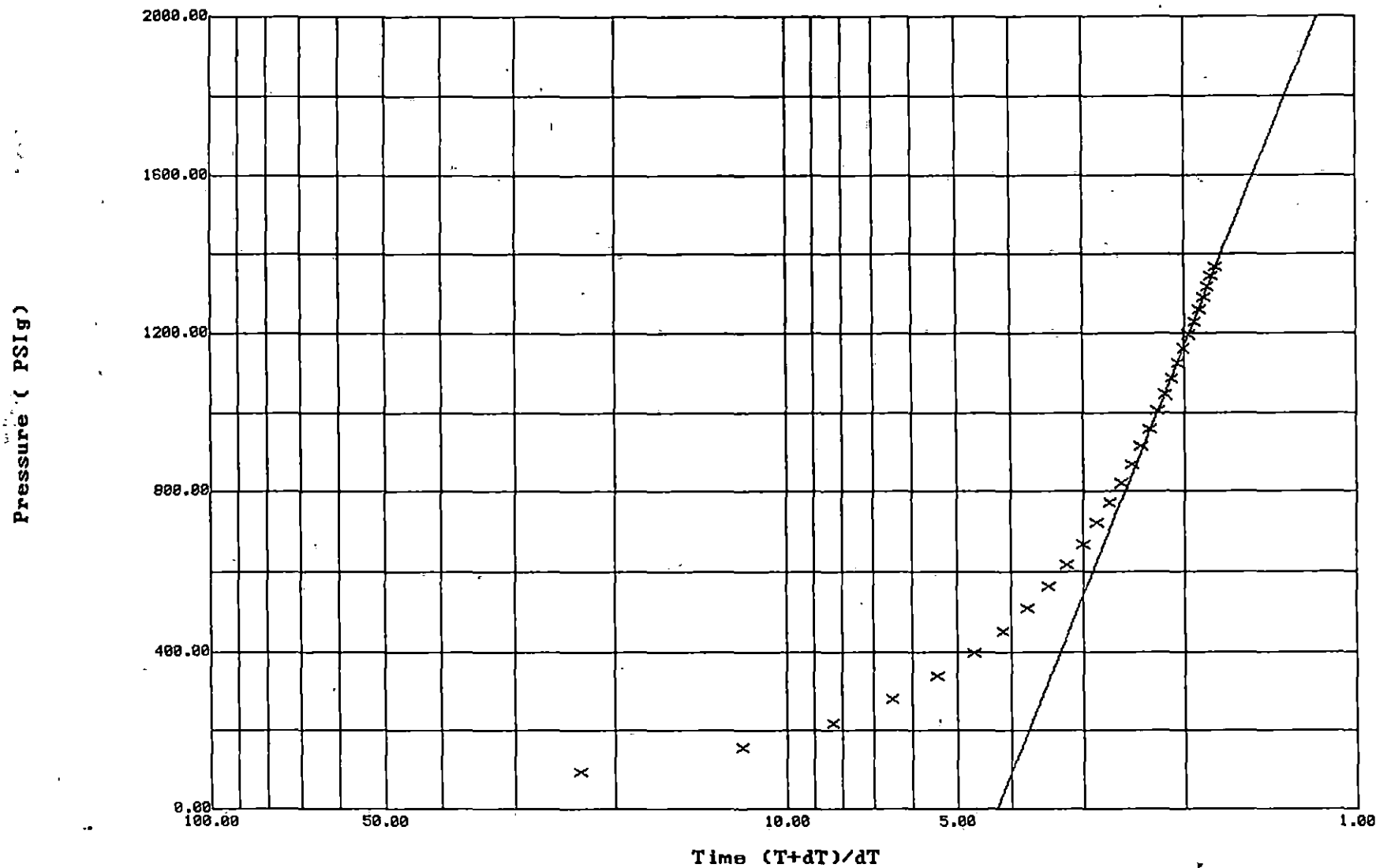
Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
12	0.25	0	10	5.3
20	0.25	0	10	5.3
30	0.25	0	10	5.3
40	0.25	0	10	5.3
45	0.25	0	10	5.3

Horner Plot: shut-in #1

Crossbar Petroleum 1-24 Jenkins DST #4

Slope: 3578.6697 PSig/cycle

Ext. Pressure: 2245.7458 PSig

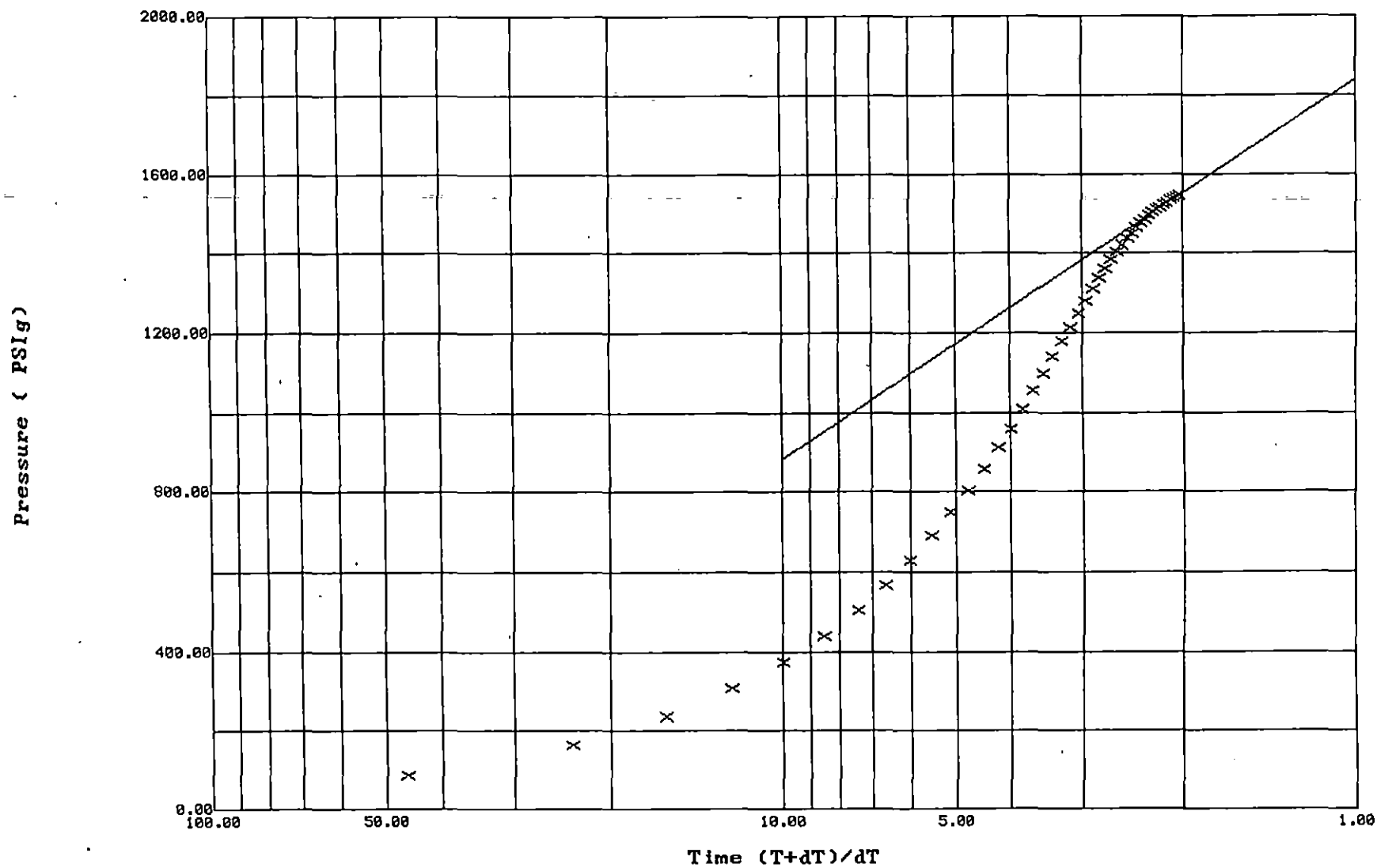


Horner Plot: shut-in #2

Crossbar Petroleum 1-24 Jenkins DST #4

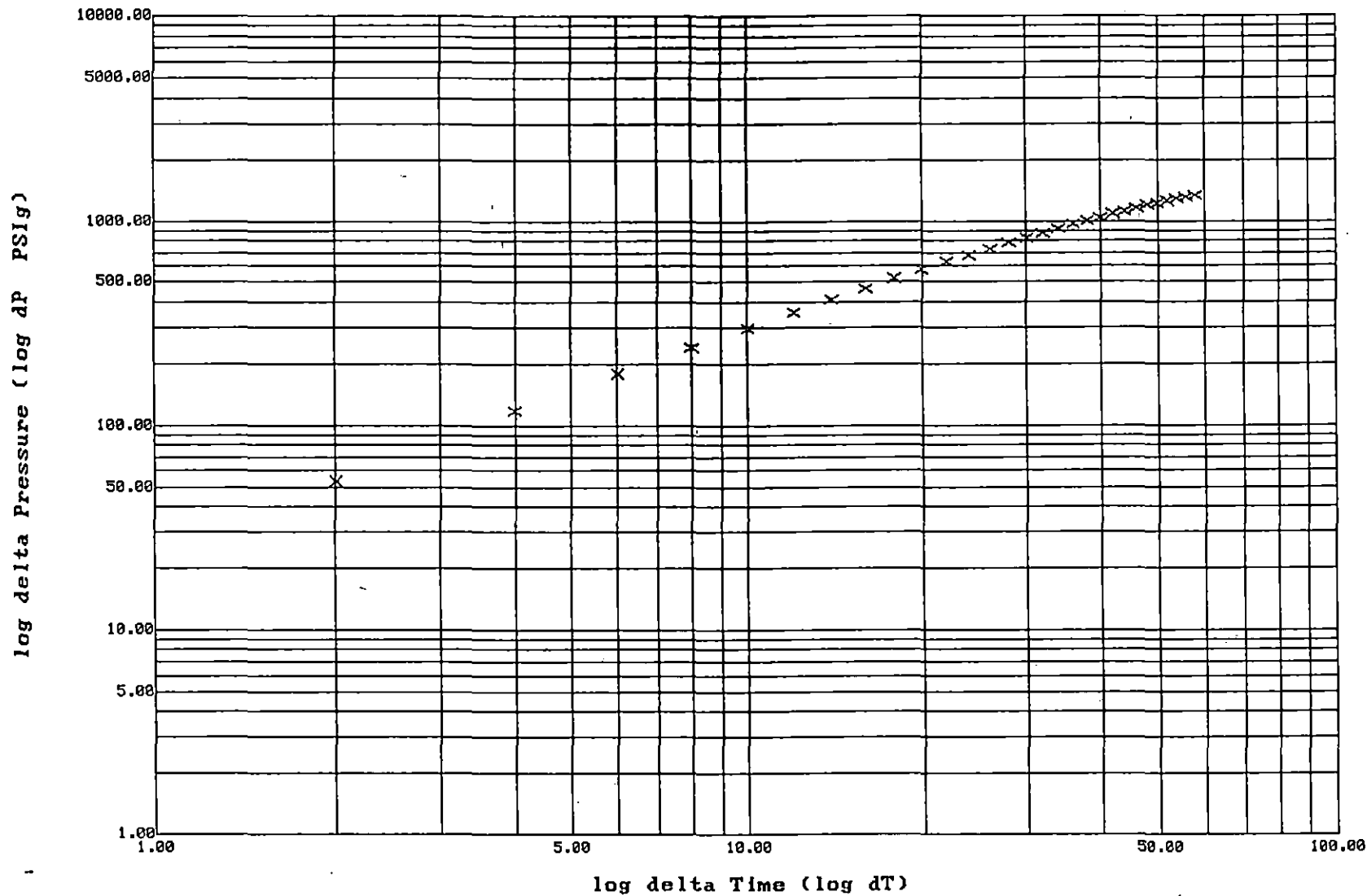
Slope: 956.5829 PSig/cycle

Ext. Pressure: 1840.7535 PSig



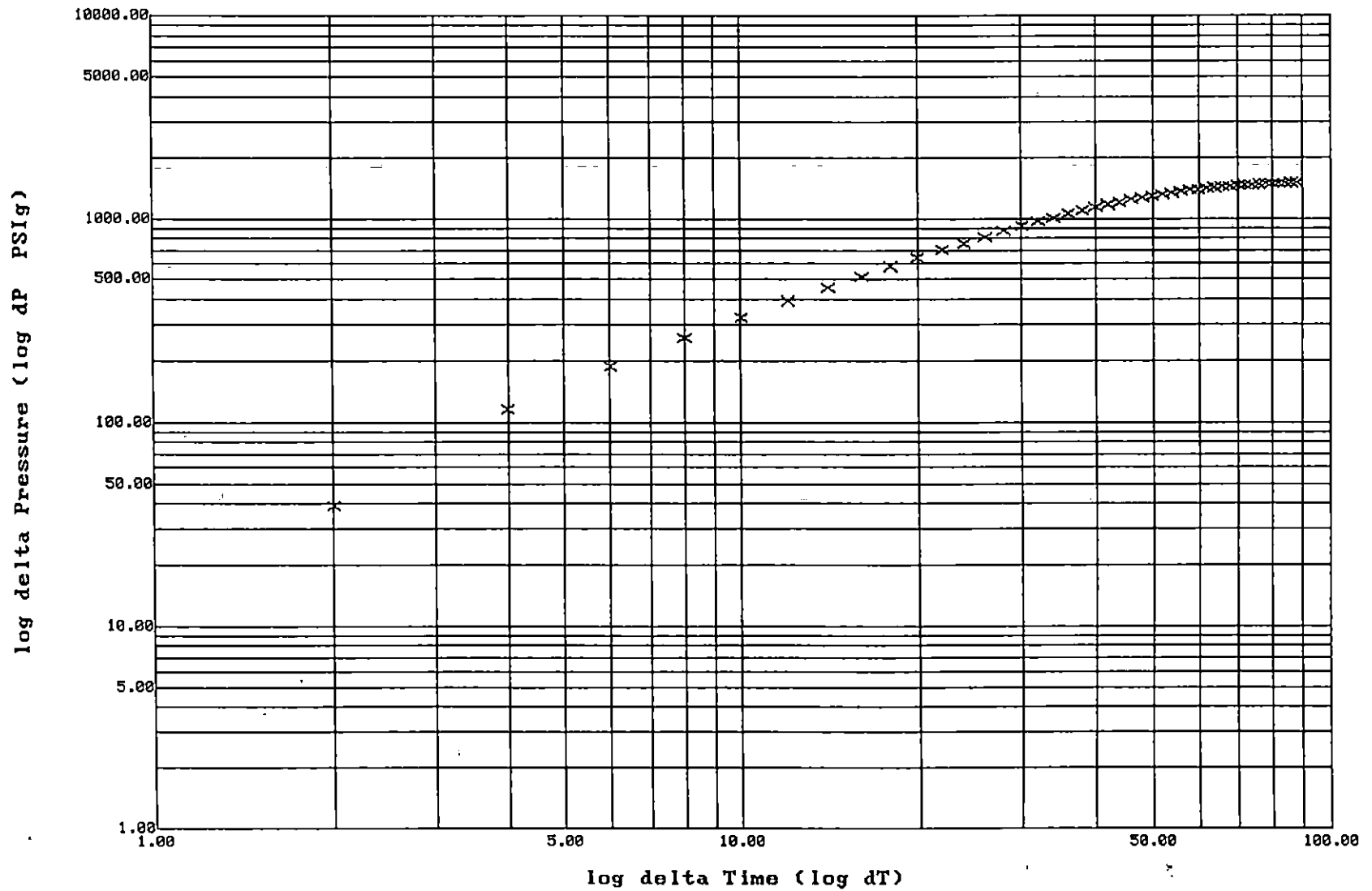
1978 (3/27)

Ramey Plot: shut-in #1
Crossbar Petroleum 1-24 Jenkins DST #4



Ramey Plot: shut-in #2

Crossbar Petroleum 1-24 Jenkins DST #4



NATURAL GAS ANALYSIS REPORT

Sampled by:
 Trilobite Testing, L.L.C.
 Hays, Kansas
 Scott City, Kansas
 Phone: 800-728-5369
 Fax: 913-625-5620

Analyzed by:
 Caraway Analytical, L.L.C.
 728 North Roosevelt
 Liberal, Kansas 67901
 Phone: 316-624-5389
 Fax: 316-626-7108

Lab Number:	950178	Analyzed:	04/05/95
Sample From:	Jenkins 1-24 DST 4	Pressure:	
Producer:	Cross Bar Petroleum	Temperature:	
Date:		Location:	24-29-18
Time:		County:	Kiowa
Sampler:		State:	Kansas
Source:		Formation:	Altamony

	Mole %	GPM
Helium	He: 0.086	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 3.820	0.000
Carbon Dioxide	CO2: 0.115	0.000
Methane	C1: 56.885	0.000
Ethane	C2: 8.928	2.388
Propane	C3: 14.060	3.874
Iso Butane	iC4: 3.039	0.994
Normal Butane	nC4: 7.842	2.472
Iso Pentane	iC5: 1.987	0.727
Normal Pentane	nC5: 2.109	0.764
Hexanes Plus	C6+: 1.129	0.493
TOTAL:	100.000	11.712
Z Fact:	0.9928	
SP.GR.:	1.0248	
BTU (SAT):	1649.6	@ 14.73 psia
BTU (DRY):	1678.8	@ 14.73 psia
OCTANE RATING:	110.1	

COMMENTS: Sample entered under vacuum

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name CROSS BAR PETROLEUM Test No. 5 Date 4/1/95
Company JENKINS 1-24 Zone MISSISSIPPI
Address 151 N. MAIN #630, WICHITA, KS 67202-1407 Elevation 2152
Co. Rep./Geo. TOM BLAIR Cont. MURFIN #21 Est. Ft. of Pay _____
Location: Sec. 24 Twp. 29S Rge. 18W Co. KIOWA State KS

Interval Tested 4760-4870 Drill Pipe Size 4.5" XH
Anchor Length 110 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4755 Drill Collar - 2.25 Ft. Run 116
Bottom Packer Depth 4760 Mud Wt. 9.3 lb/Gal.
Total Depth 4870 Viscosity 48 Filtrate 9.2

Tool Open @ 6:30AM Initial Blow STRONG BLOW - BOTTOM OF BUCKET IN 5 MINUTES.

Final Blow STRONG GAS TO SURFACE IN 3 MINUTES. SEE REPORT.

Recovery - Total Feet 70 Flush Tool? NO

Rec. 70 Feet of GASSY MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 117 °F Gravity _____ °API @ _____ °F Corrected Gravity 38 °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 2436.16 PSI AK1 Recorder No. 2346 Range 4995

(B) First Initial Flow Pressure 36.67 PSI @ (depth) 4765 w / Clock No. ALPINE

(C) First Final Flow Pressure 56.89 PSI AK1 Recorder No. 22150 Range 3925

(D) Initial Shut-in Pressure 1162.39 PSI @ (depth) 4864 w / Clock No. 23839

(E) Second Initial Flow Pressure 54.63 PSI AK1 Recorder No. _____ Range _____

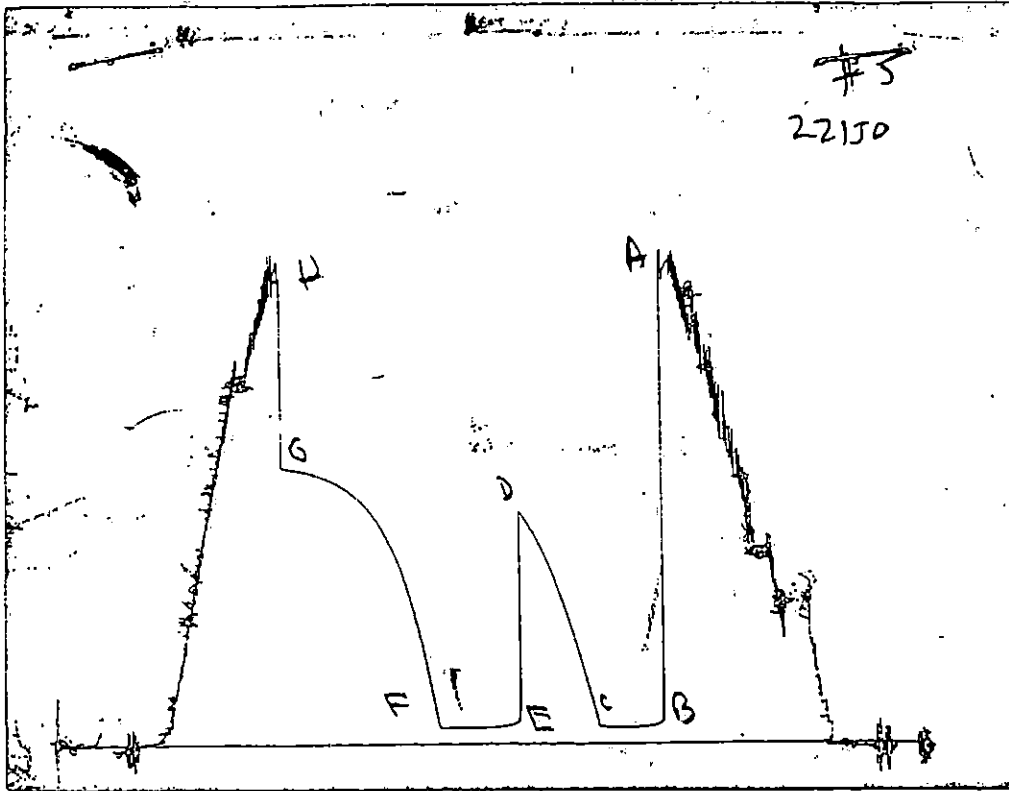
(F) Second Final Flow Pressure 48.59 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1393.53 PSI Initial Opening 45 Final Flow 60

(H) Final Hydrostatic Mud 2349.13 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of an AK1 recorder chart

	FIELD READING	AK1 READING	ALPINE READING
(A) INITIAL HYDROSTATIC MUD	2505	2502	2436.16
(B) FIRST INITIAL FLOW PRESSURE	84.3	115	36.67
(C) FIRST FINAL FLOW PRESSURE	84.3	115	56.89
(D) INITIAL CLOSED-IN PRESSURE	1156	1138	1162.39
(E) SECOND INITIAL FLOW PRESSURE	79.5	115	54.63
(F) SECOND FINAL FLOW PRESSURE	79.5	115	48.59
(G) FINAL CLOSED-IN PRESSURE	1377	1381	1393.53
(H) FINAL HYDROSTATIC MUD	2440	2441	2349.13

TRILOBITE TESTING L.L.C.

OPERATOR : Crossbar Petroleum, Inc.
 WELL NAME: Jenkins #1-24
 LOCATION : 24-29s-18w
 INTERVAL : 4760.00 To 4870.00 ft

DATE 4-01-95

KB 2161.00 ft TICKET NO: 7902 DST #5
 GR 2152.00 ft FORMATION: Mississippi
 TD 4870.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	22150		2356			PF Fr. 45 to hr
SI 60 Range(Psi)	3925.0	0.0	4996.0	0.0	0.0	IS Fr. to 1 hr
SF 45 Clook(hrs)	12hr		alp			SF Fr. 45 to hr
FS 90 Depth(ft)	4864.0	0.0	4765.0	0.0	0.0	FS Fr. 30 to 1 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	2436.0	0.0	0.0	T STARTED 0430 hr
B. First Flow	0.0	0.0	37.0	0.0	0.0	T ON BOTM 0601 hr
B1. Final Flow	0.0	0.0	57.0	0.0	0.0	T OPEN 0603 hr
C. In Shut-in	0.0	0.0	1162.0	0.0	0.0	T PULLED 1048 hr
D. Init Flow	0.0	0.0	55.0	0.0	0.0	T OUT 1234 hr
E. Final Flow	0.0	0.0	49.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	1394.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	0.0	2349.0	0.0	0.0	Tool Wt. 2600.00 lbs
Inside/Outside	o		1			Wt Set On Packer 20000.00 lbs

RECOVERY

Tot Fluid 70.00 ft of 70.00 ft in DC and 0.00 ft in DP
 70.00 ft of gassy mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

IF-
 Strong- bottom of bucket in 5 minutes

FF-
 Strong-guaging gas--see report

SAMPLES: 2nd flow
 SENT TO: Caraway

Test Successful: Y

MUD DATA-----

Mud Type chemical
 Weight 9.30 lb/cf
 Vis. 48.00 S/L
 W.L. 8.40 in3
 F.C. 0.00 in
 Mud Drop

Amt. of fill 0.00 ft
 Btm. H. Temp. 117.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out
 Tool Chased
 Tester Paul Simpson
 Co. Rep. Tom Blair
 Contr. Murfin
 Rig # 21
 Unit #
 Pump T.

0.00
0.00
0.00
0.00
0.00
0.00

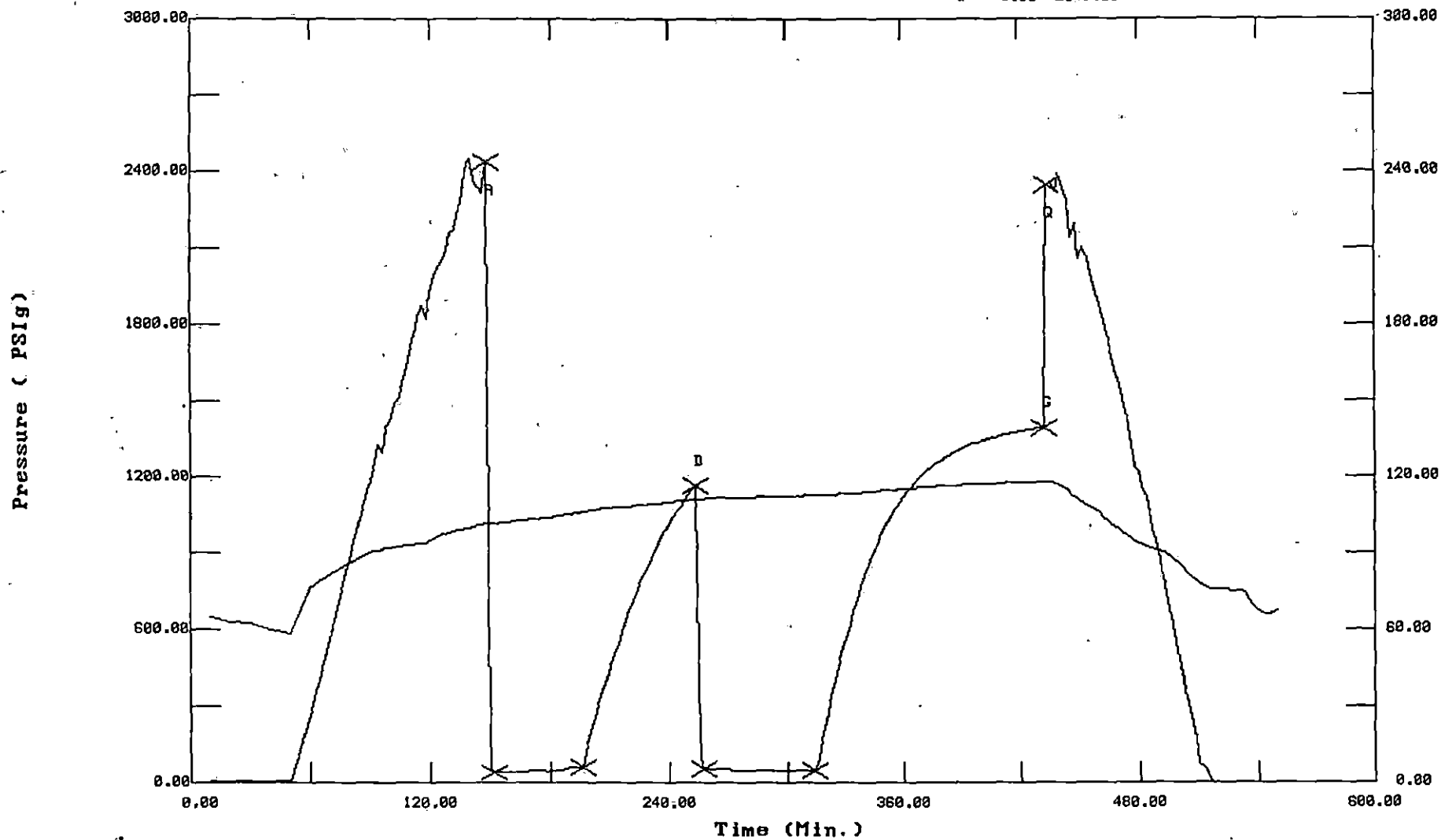
TEST HISTORY

Crossbar Petroleum #1-24 Jenkins DST #5

Flag Points

t(Min.) P(PSig)

A:	0.00	2436.16
B:	0.00	36.67
C:	44.00	56.89
D:	58.00	1162.39
E:	0.00	54.63
F:	56.00	48.59
G:	118.00	1393.53
Q:	0.00	2349.13



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Crossbar Petroleum #1-24 Jenkins DST #5

DATE: 04/01/95

TIME: 03:35:09

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	148.00	2436.2	0.0	101.15		
***** Start Flow 1	0.00	36.7	0.0	101.34		
	2.00	38.1	1.4	101.51		
	4.00	42.0	5.3	101.68		
	6.00	41.5	4.8	101.82		
	8.00	42.0	5.4	102.01		
	10.00	39.4	2.7	102.20		
	12.00	40.9	4.3	102.38		
	14.00	37.8	1.1	102.55		
	16.00	40.4	3.7	102.76		
	18.00	43.0	6.4	102.99		
	20.00	46.2	9.5	103.16		
	22.00	44.9	8.2	103.32		
	24.00	46.3	9.7	103.52		
	26.00	41.9	5.2	103.74		
	28.00	43.0	6.3	103.95		
	30.00	44.5	7.8	104.17		
	32.00	45.1	8.4	104.36		
	34.00	46.7	10	104.56		
	36.00	48.7	12.0	104.76		
	38.00	59.0	22.3	105.05		
	40.00	60.2	23.5	105.32		
	42.00	58.2	21.6	105.70		
***** End Flow 1	44.00	56.9	20.2	106.02		
***** Start Shutin 1	0.00	56.9	0.0	106.02	0.0000	0.003
	2.00	147.7	90.8	106.30	23.0000	0.022
	4.00	201.8	144.9	106.55	12.0000	0.041
	6.00	254.5	197.6	106.75	8.3333	0.065
	8.00	306.1	249.2	106.96	6.5000	0.094
	10.00	356.6	299.7	107.16	5.4000	0.127
	12.00	406.1	349.2	107.34	4.6667	0.165
	14.00	454.0	397.1	107.50	4.1429	0.206
	16.00	501.0	444.1	107.73	3.7500	0.251
	18.00	546.6	489.7	107.89	3.4444	0.299
	20.00	590.7	533.8	107.90	3.2000	0.349
	22.00	633.1	576.2	107.90	3.0000	0.401
	24.00	674.6	617.7	108.08	2.8333	0.455
	26.00	714.5	657.6	108.24	2.6923	0.510
	28.00	752.8	695.9	108.39	2.5714	0.567
	30.00	789.7	732.8	108.57	2.4667	0.624
	32.00	825.3	768.4	108.72	2.3750	0.681
	34.00	859.3	802.4	108.86	2.2941	0.738
	36.00	891.8	834.9	109.01	2.2222	0.795
	38.00	923.0	866.1	109.17	2.1579	0.852
	40.00	952.8	895.9	109.33	2.1000	0.908
	42.00	981.4	924.5	109.54	2.0476	0.963
	44.00	1008.3	951.4	109.68	2.0000	1.017
	46.00	1034.1	977.2	109.84	1.9565	1.069
	48.00	1058.6	1001.7	110.01	1.9167	1.121
	50.00	1081.8	1024.9	110.19	1.8800	1.170
	52.00	1103.7	1046.8	110.34	1.8462	1.218

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Crossbar Petroleum #1-24 Jenkins DST #5

DATE: 04/01/95

TIME: 03:35:09

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	54.00	1124.5	1067.6	110.53	1.8148	1.264
	56.00	1144.0	1087.1	110.68	1.7857	1.309
***** End Shut-in 1	58.00	1162.4	1105.5	110.83	1.7586	1.351
***** Start Flow 2	0.00	54.6	0.0	111.05		
	2.00	49.8	-4.8	111.22		
	4.00	49.9	-4.7	111.36		
	6.00	51.5	-3.1	111.43		
	8.00	50.9	-3.7	111.49		
	10.00	53.8	-0.8	111.52		
	12.00	48.7	-6.0	111.54		
	14.00	48.3	-6.3	111.57		
	16.00	47.2	-7.5	111.57		
	18.00	47.4	-7.2	111.61		
	20.00	47.5	-7.1	111.67		
	22.00	48.6	-6.0	111.67		
	24.00	48.2	-6.5	111.72		
	26.00	48.3	-6.3	111.79		
	28.00	47.3	-7.3	111.85		
	30.00	47.5	-7.1	111.89		
	32.00	47.5	-7.1	111.93		
	34.00	47.6	-7.1	111.96		
	36.00	48.5	-6.1	112.01		
	38.00	48.4	-6.2	112.06		
	40.00	48.0	-6.6	112.11		
	42.00	47.6	-7.0	112.17		
	44.00	47.2	-7.5	112.22		
	46.00	48.0	-6.6	112.27		
	48.00	48.4	-6.2	112.34		
	50.00	48.4	-6.2	112.37		
	52.00	47.9	-6.7	112.43		
	54.00	47.8	-6.8	112.53		
***** End Flow 2	56.00	48.6	-6.0	112.63		
***** Start Shutin 2	0.00	48.6	0.0	112.63	0.0000	0.002
	2.00	91.0	42.4	112.63	51.0000	0.008
	4.00	169.4	120.9	112.63	26.0000	0.029
	6.00	243.5	194.9	112.64	17.6667	0.059
	8.00	314.0	265.5	112.73	13.5000	0.099
	10.00	381.4	332.8	112.85	11.0000	0.145
	12.00	445.3	396.7	112.95	9.3333	0.198
	14.00	506.6	458.0	113.01	8.1429	0.257
	16.00	564.3	515.7	113.11	7.2500	0.318
	18.00	618.9	570.3	113.21	6.5556	0.383
	20.00	670.4	621.8	113.32	6.0000	0.449
	22.00	719.3	670.7	113.42	5.5455	0.517
	24.00	765.2	716.6	113.54	5.1667	0.585
	26.00	808.4	759.8	113.67	4.8462	0.653
	28.00	849.1	800.5	113.75	4.5714	0.721
	30.00	887.5	838.9	113.92	4.3333	0.788
	32.00	923.4	874.9	114.04	4.1250	0.853
	34.00	957.1	908.5	114.18	3.9412	0.916
	36.00	988.7	940.1	114.34	3.7778	0.977

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Crossbar Petroleum #1-24 Jenkins DST #5

DATE: 04/01/95

TIME: 03:35:09

Time	Pressure PSig	delta PSig	P	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
38.00	1018.1	969.5		114.46	3.6316	1.037
40.00	1045.6	997.1		114.59	3.5000	1.093
42.00	1071.2	1022.7		114.75	3.3810	1.148
44.00	1095.2	1046.6		114.91	3.2727	1.199
46.00	1117.2	1068.7		115.00	3.1739	1.248
48.00	1137.8	1089.2		115.10	3.0833	1.295
50.00	1156.9	1108.4		115.23	3.0000	1.339
52.00	1174.6	1126.0		115.36	2.9231	1.380
54.00	1191.0	1142.4		115.51	2.8519	1.419
56.00	1206.3	1157.7		115.62	2.7857	1.455
58.00	1220.4	1171.8		115.72	2.7241	1.489
60.00	1233.5	1184.9		115.85	2.6667	1.521
62.00	1245.6	1197.0		115.96	2.6129	1.551
64.00	1256.8	1208.2		116.06	2.5625	1.580
66.00	1267.2	1218.6		116.16	2.5152	1.606
68.00	1276.9	1228.3		116.26	2.4706	1.630
70.00	1285.9	1237.3		116.33	2.4286	1.654
72.00	1294.3	1245.7		116.42	2.3889	1.675
74.00	1302.1	1253.5		116.50	2.3514	1.696
76.00	1309.5	1260.9		116.58	2.3158	1.715
78.00	1316.3	1267.7		116.65	2.2821	1.733
80.00	1322.6	1274.0		116.72	2.2500	1.749
82.00	1328.6	1280.0		116.76	2.2195	1.765
84.00	1334.1	1285.5		116.86	2.1905	1.780
86.00	1339.3	1290.7		116.90	2.1628	1.794
88.00	1344.3	1295.8		116.96	2.1364	1.807
90.00	1349.0	1300.4		117.00	2.1111	1.820
92.00	1353.4	1304.8		117.06	2.0870	1.832
94.00	1357.5	1308.9		117.12	2.0638	1.843
96.00	1361.5	1312.9		117.14	2.0417	1.854
98.00	1365.2	1316.7		117.19	2.0204	1.864
100.00	1368.8	1320.2		117.23	2.0000	1.874
102.00	1372.1	1323.5		117.27	1.9804	1.883
104.00	1375.4	1326.8		117.29	1.9615	1.892
106.00	1378.4	1329.8		117.33	1.9434	1.900
108.00	1381.2	1332.6		117.37	1.9259	1.908
110.00	1383.9	1335.3		117.38	1.9091	1.915
112.00	1386.6	1338.0		117.42	1.8929	1.923
114.00	1389.0	1340.4		117.44	1.8772	1.929
116.00	1391.3	1342.8		117.47	1.8621	1.936
118.00	1393.5	1344.9		117.48	1.8475	1.942
***** End Shut-in 2						
***** Final Hydro.	434.00	2349.1	0.0	117.53		

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Jenkins #1-24

LOCATION : 24-29s-18w

TICKET No. 7902 D.S.T. No. 5 DATE 4-01-95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL.....

BOTTOM PACKERS AND ANCHOR 16

TOTAL TOOL 43

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single 1 Total 94

TOTAL ASSEMBLY 137

D.C. ABOVE TOOLS.Stands2 Single Total 116

D.P. ABOVE TOOLS.Stands74 Single Total 4645

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4898

TOTAL DEPTH 4870

TOTAL DRILL PIPE ABOVE K.B. 28

REMARKS:

P.O. SUB	
C.O. SUB double pin sub	4735
S.I. TOOL	4740
HMV hydraulic tool	4745
JARS	4749
SAFETY JOINT	4751
PACKER top packer	4755
PACKER bottom packer	4760
DEPTH 4760	
STUBB	4761
ANCHOR 3' perf	4764
alpine recorder	4765
joint drill pipe and subs	4796
stand drill pipe	4859
sub	4860
5' pickup sub	4865
T.C.	
DEPTH	
2' perf anchor	4867
ak1 recorder	4867
BULLNOSE	
T.D. bullplug	4870

GAS RECOVERY

COMPANY: Crossbar Petroleum, Inc.

DATE: 4-01-95

WELL NAME: Jenkins #1-24

KB Elev: 2161.00 ft TICKET #7902

DST #5

WELL LOCATION: 24-29s-18w

GR Elev: 2152.00 ft FORMATION: Mississippi

INTERVAL Fr.: 4760.00 To 4870.00 T.D.: 4870.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla

***** GAS RATES FOR FLOW #2

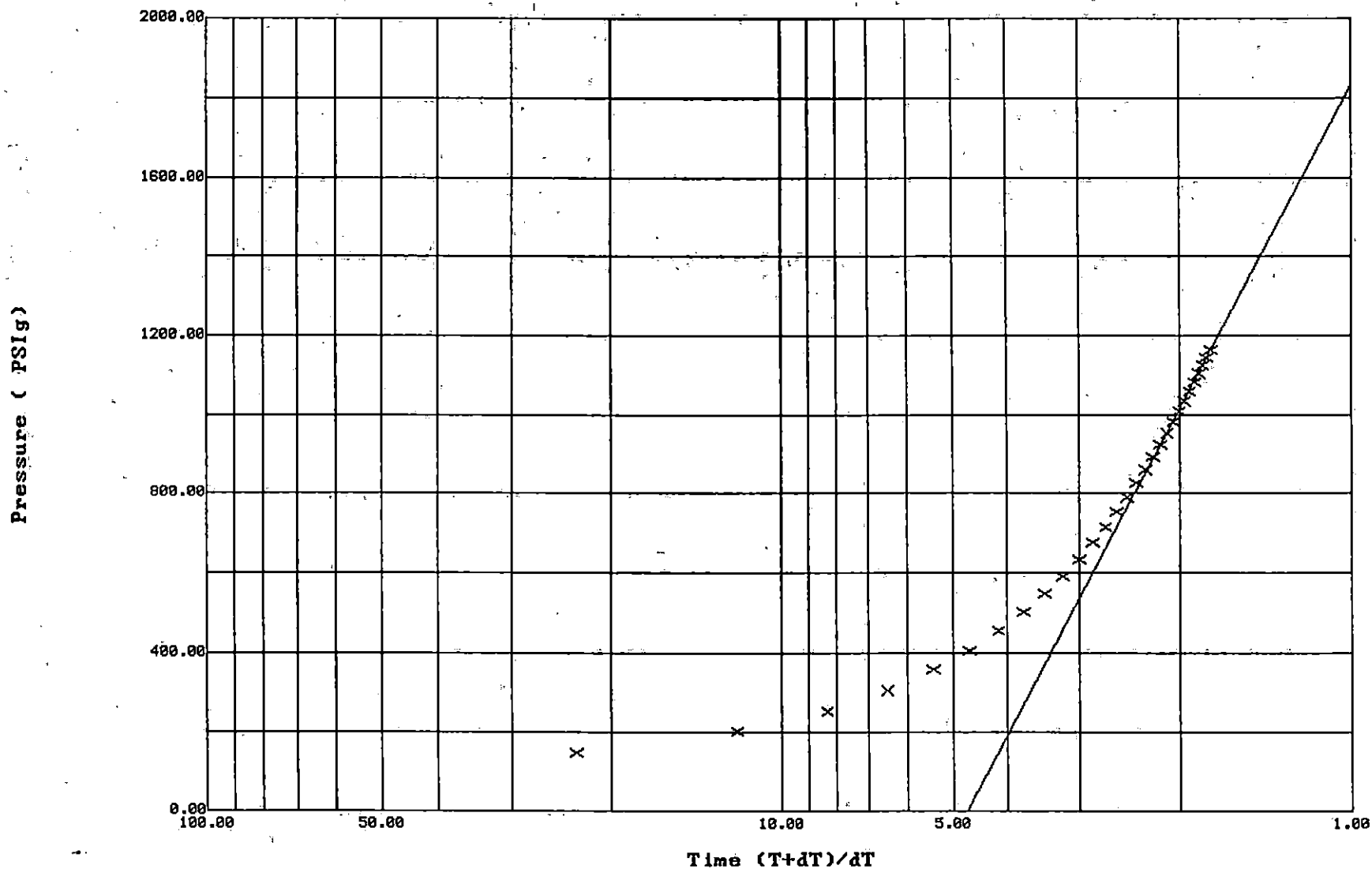
Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.75	0	.40	89.8
10	0.75	0	20	63.5
15	0.50	0	20	28.0
20	0.50	0	12	21.9
25	0.25	0	20	7.5
30	0.25	0	26	8.6
35	0.25	0	28	8.9
40	0.25	0	30	9.2
45	0.25	0	32	9.5
50	0.25	0	32	9.5
55	0.25	0	34	9.8
60	0.25	0	35	9.9

Horner Plot: shut-in #1

Crossbar Petroleum #1-24 Jenkins DST #5

Slope: 2729.9314 PSig/cycle

Ext. Pressure: 1838.8364 PSig

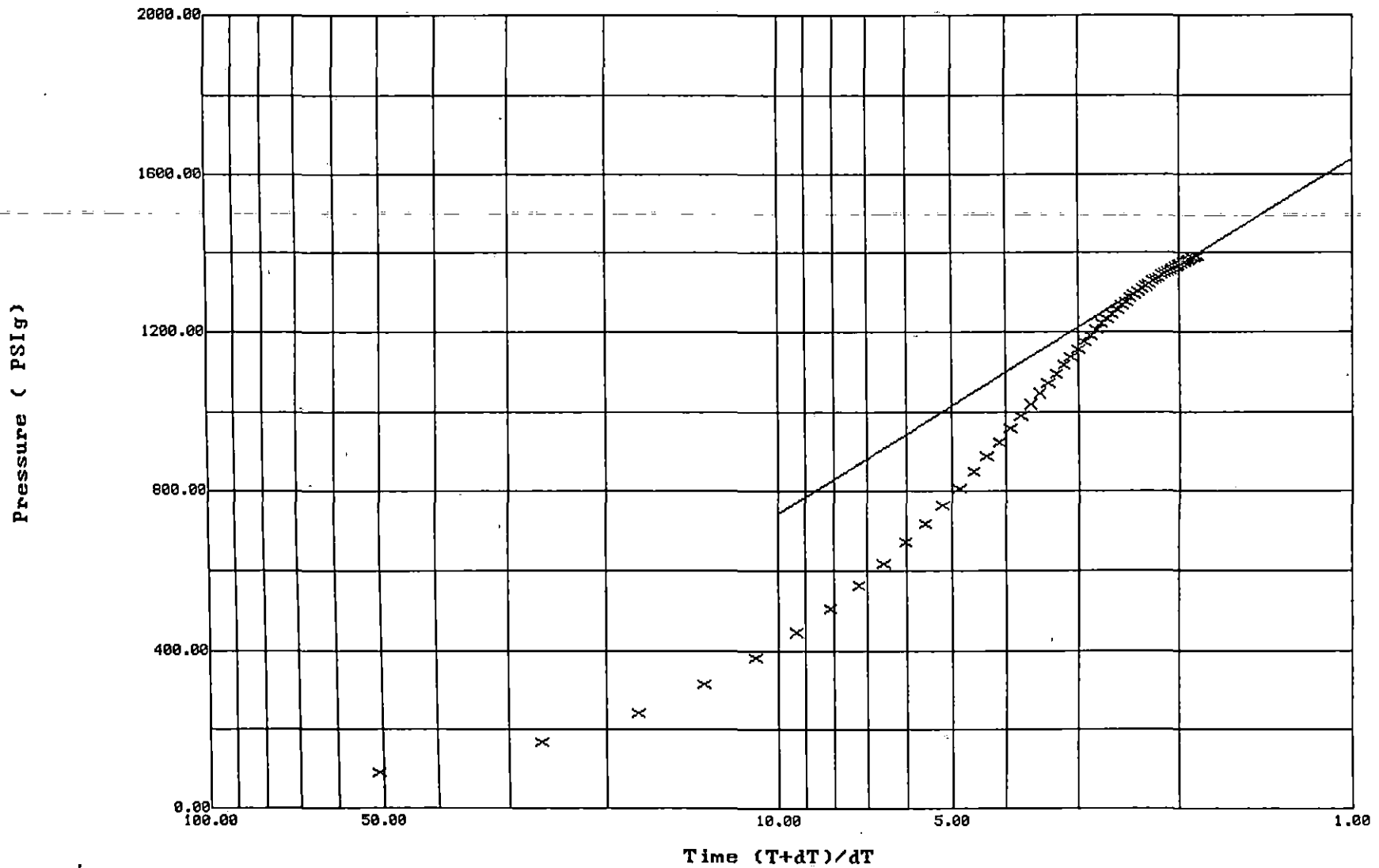


Horner Plot: shut-in #2

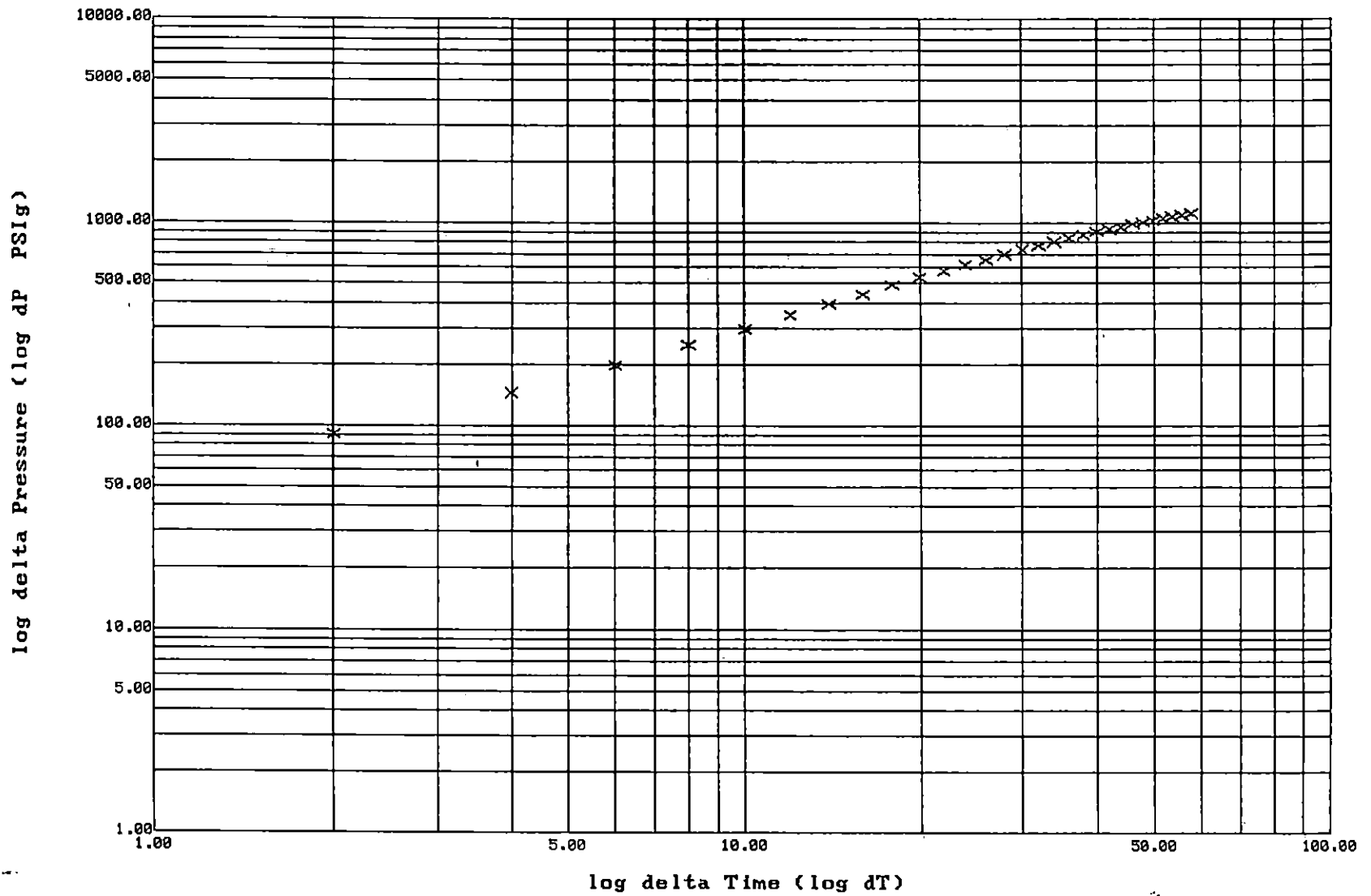
Crossbar Petroleum #1-24 Jenkins DST #5

Slope: 892.9788 PSig/cycle

Ext. Pressure: 1635.9445 PSig

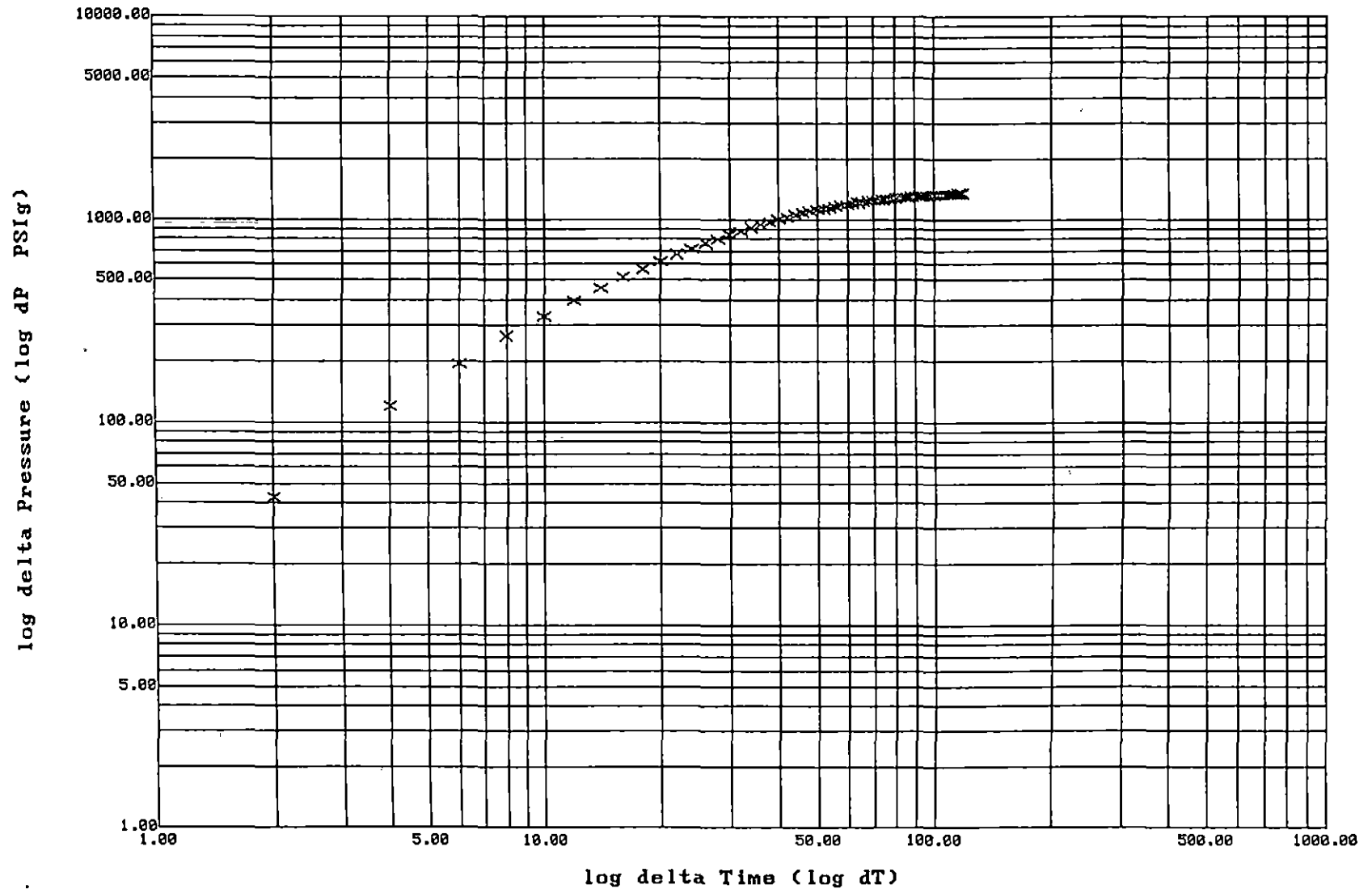


Ramey Plot: shut-in #1
Crossbar Petroleum #1-24 Jenkins DST #5



Ramey Plot: shut-in #2

Crossbar Petroleum #1-24 Jenkins DST #5



NATURAL GAS ANALYSIS REPORT

Sampled by:
 Trilobite Testing, L.L.C.
 Hays, Kansas
 Scott City, Kansas
 Phone: 800-728-5369
 Fax: 913-625-5620

Analyzed by:
 Caraway Analytical, L.L.C.
 728 North Roosevelt
 Liberal, Kansas 67901
 Phone: 316-624-5389
 Fax: 316-626-7108

Lab Number:	950179	Analyzed:	04/05/95
Sample From:	Jenkins 1-24 DST 5	Pressure:	
Producer:	Cross Bar Petroleum	Temperature:	
Date:		Location:	24-29-18
Time:		County:	Kiowa
Sampler:		State:	Kansas
Source:		Formation:	Mississippi

	Mole %	GPM
Helium	He: 0.385	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 2.248	0.000
Carbon Dioxide	CO2: 0.000	0.000
Methane	C1: 88.719	0.000
Ethane	C2: 3.818	1.021
Propane	C3: 1.858	0.512
Iso Butane	iC4: 0.340	0.111
Normal Butane	nC4: 0.839	0.265
Iso Pentane	iC5: 0.293	0.107
Normal Pentane	nC5: 0.371	0.134
Hexanes Plus	C6+: 1.129	0.493
TOTAL:	100.000	2.643
Z Fact:	0.9973	
SP.GR.:	0.6599	
BTU (SAT):	1119.2	@ 14.73 psia
BTU (DRY):	1139.0	@ 14.73 psia
OCTANE RATING:	122.8	

COMMENTS: Sample entered under vacuum

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name CROSS BAR PETROLEUM Test No. 6 Date 4/1/95
Company JENKINS 1-24 Zone MISSISSIPPI
Address 151 N. MAIN #630, WICHITA, KS 67202-1407 Elevation 2152
Co. Rep./Geo. TOM BLAIR Cont. MURFIN #21 Est. Ft. of Pay _____
Location: Sec. 24 Twp. 29S Rge. 18W Co. KIOWA State KS

Interval Tested 4870-4882 Drill Pipe Size 4.5" XH
Anchor Length 12 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4865 Drill Collar - 2.25 Ft. Run 116
Bottom Packer Depth 4870 Mud Wt. 9.3 lb/Gal.
Total Depth 4882 Viscosity 48 Filtrate _____

Tool Open @ 9:34PM Initial Blow 3 INCH BLOW DIED IN 3 MINUTES. FLUSHED TOOL - NO HELP
ROTATED TOOL FORWARD AND BACKWARD TRYING TO GET A BLOW
Final Blow WITH NO SUCCESS - PULLED TOOL.

Recovery - Total Feet 20 Flush Tool? YES

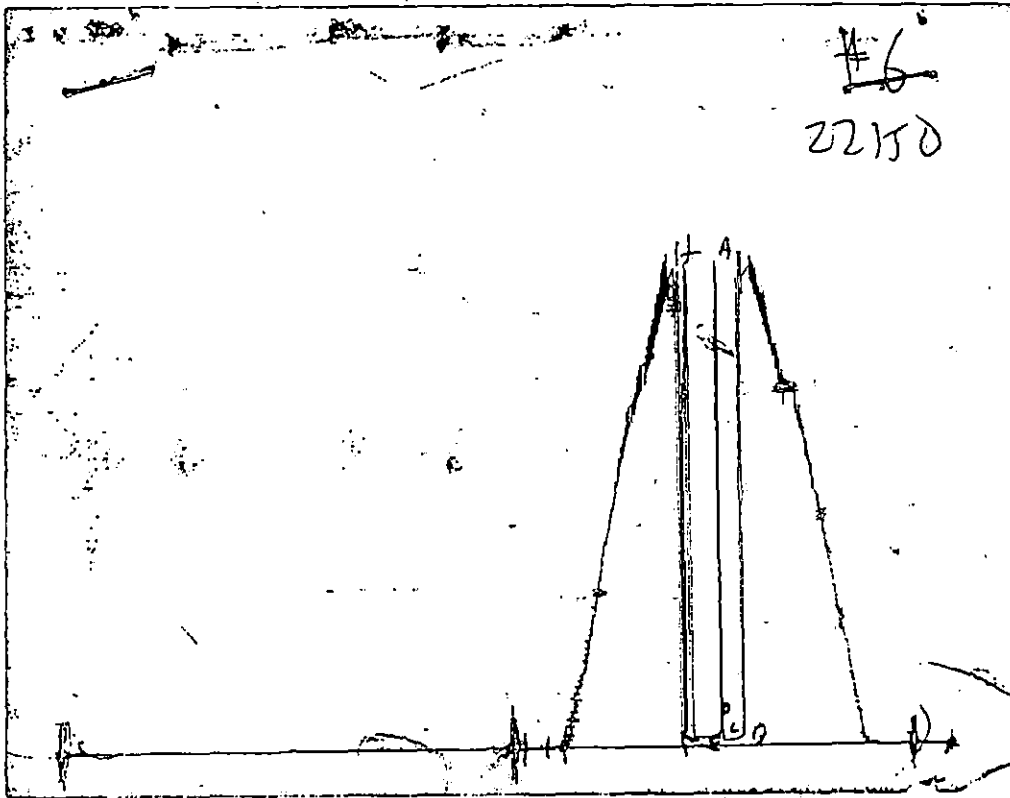
Rec. 40 Feet of GAS IN PIPE.
Rec. 20 Feet of MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 109 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 2478.72 PSI AK1 Recorder No. 2346 Range 4995
(B) First Initial Flow Pressure 20.30 PSI @ (depth) 4871 w / Clock No. ALPINE
(C) First Final Flow Pressure 19.21 PSI AK1 Recorder No. 22150 Range 3925
(D) Initial Shut-in Pressure 36.58 PSI @ (depth) 4875 w / Clock No. 23839
(E) Second Initial Flow Pressure 29.53 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 40.61 PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure _____ PSI Initial Opening 14 Final Flow 8
(H) Final Hydrostatic Mud 2397.39 PSI Initial Shut-in 16 Final Shut-in _____

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of an AK1 recorder chart

	FIELD READING	AK1 READING	ALPINE READING
(A) INITIAL HYDROSTATIC MUD	2495	2478	2478.72
(B) FIRST INITIAL FLOW PRESSURE	34.5	20	20.30
(C) FIRST FINAL FLOW PRESSURE	30.7	19	19.21
(D) INITIAL CLOSED-IN PRESSURE	67	36	36.58
(E) SECOND INITIAL FLOW PRESSURE	44.1	29	29.53
(F) SECOND FINAL FLOW PRESSURE	42.1	40	40.61
(G) FINAL CLOSED-IN PRESSURE			
(H) FINAL HYDROSTATIC MUD	2396	2397	2397.39

TRILOBITE TESTING L.L.C.

OPERATOR : Crossbar Petroleum, Inc.
 WELL NAME: Jenkins #1-24
 LOCATION : 24-29s-18w
 INTERVAL : 4870.00 To 4882.00 ft

DATE 4-01-95

KB 2161.00 ft TICKET NO: 7903 DST #6
 GR 2152.00 ft FORMATION: Mississippi
 TD 4882.00 ft TEST TYPE: CONVENTIONAL

RECORDED DATA

Mins	Field	1	2	3	4	TIME DATA-----
45 Rec.	22150	22150	2356			PF Fr. 14 to hr
60 Range(Psi)	3925.0	3925.0	4996.0	0.0	0.0	IS Fr. 16 to hr
45 Clock(hrs)	12hr	12HR	alp			SF Fr. 8 to hr
90 Depth(ft)	4864.0	4875.0	4871.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
Init Hydro	2478.0	2494.0	2478.0	0.0	0.0	T STARTED 2004 hr
First Flow	20.0	34.0	20.0	0.0	0.0	T ON BOTM 2133 hr
Final Flow	19.0	31.0	19.0	0.0	0.0	T OPEN 2134 hr
In Shut-in	36.0	67.0	36.0	0.0	0.0	T PULLED 2220 hr
Init Flow	29.0	44.0	29.0	0.0	0.0	T OUT 2357 hr
Final Flow	40.0	42.0	40.0	0.0	0.0	
F1 Shut-in	0.0	2396.0	0.0	0.0	0.0	TOOL DATA-----
Final Hydro	2397.0	0.0	2397.0	0.0	0.0	Tool Wt. 1200.00 lbs
Inside/Outside	I		i			Wt Set On Packer 20000.00 lbs

RECOVERY
 Lost Fluid 70.00 ft of 70.00 ft in DC and 0.00 ft in DP
 0.00 ft of gassy mud
 .00 ft of
 .00 ft of
 .00 ft of
 .00 ft of
 .00 ft of
 .00 ft of
 .00 ft of
 .00 ft of

TOOL DATA-----
 Tool Wt. 1200.00 lbs
 Wt Set On Packer 20000.00 lbs
 Wt Pulled Loose 64000.00 lbs
 Initial Str Wt 62000.00 lbs
 Unseated Str Wt 62000.00 lbs
 Bot Choke 0.75 in
 Hole Size 7.88 in
 D Col. ID 2.25 in
 D. Pipe ID 3.80 in
 D.C. Length 116.00 ft
 D.P. Length 4645.00 ft

DENSITY 0.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----
 Mud Type chemical
 Weight 9.30 lb/cf
 Vis. 48.00 S/L
 W.L. 8.40 in3
 F.C. 0.00 in
 Mud Drop

BLOW DESCRIPTION

Blow died in 3 minutes flushed tool-
 to help rotated tool forward and
 backward trying to get a blow. no
 success pulled tool

Amt. of fill 0.00 ft
 Btm. H. Temp. 109.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out
 Tool Chased
 Tester Paul Simpson
 Co. Rep. Tom Blair
 Contr. Murfin
 Rig # 21
 Unit #
 Pump T.

SAMPLES:
 SENT TO:

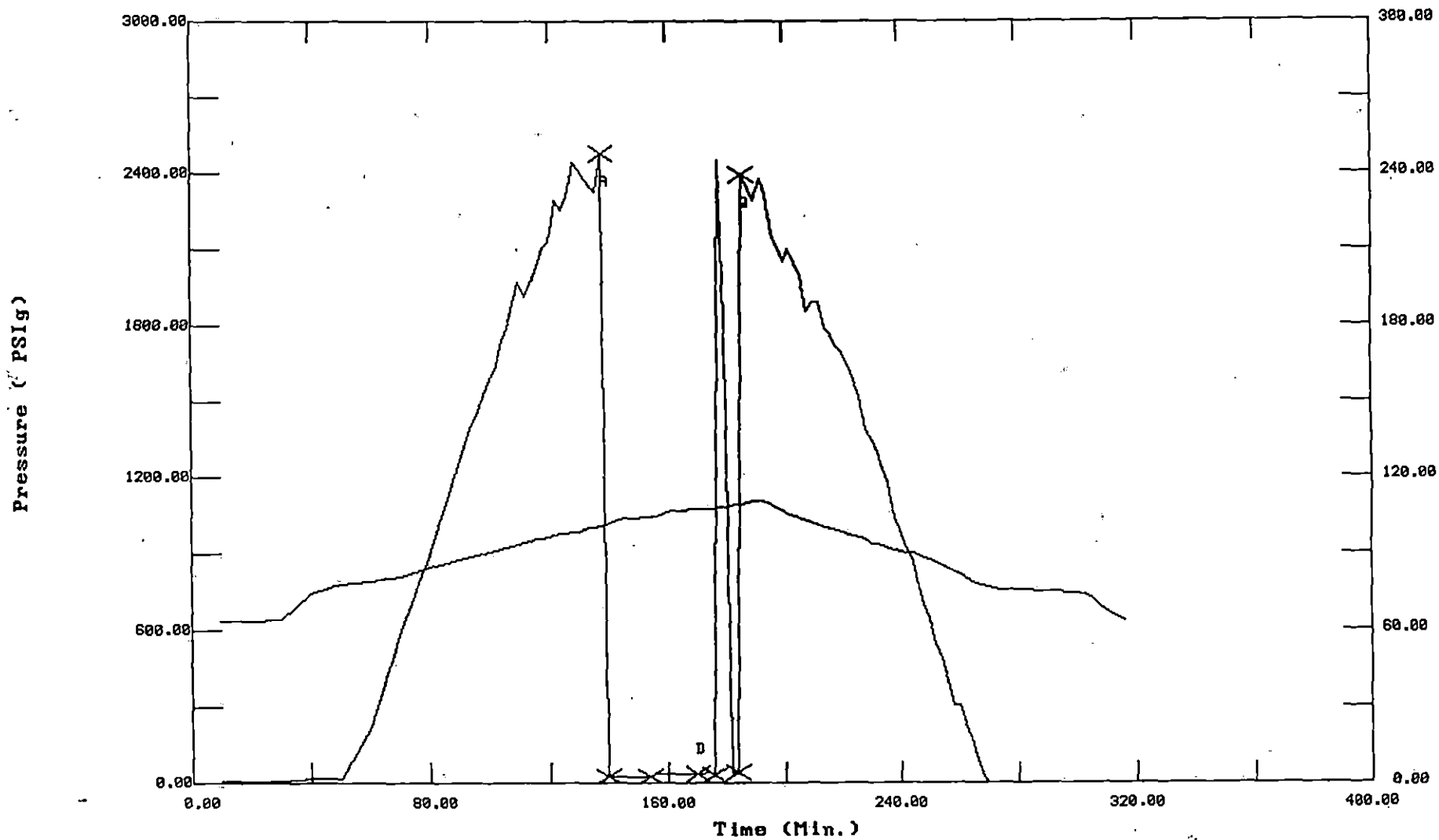
Test Successful: Y

TEST HISTORY

Crossbar Petroleum #1-24 Jenkins DST #6

Flag Points

	t (Min.)	P (PSig)
A	0.00	2478.72
B	0.00	20.30
C	14.00	19.21
D	16.00	36.58
E	0.00	29.53
F	0.00	40.61
G	0.00	2397.39



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

EST: Crossbar Petroleum #1-24 Jenkins DST #6

DATE: 04/01/95

TIME: 19:14:50

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
**** Initial Hydro.	138.00	2478.7	0.0	100.79		
**** Start Flow 1	0.00	20.3	0.0	101.56		
	2.00	19.4	-0.9	102.40		
	4.00	18.9	-1.4	103.06		
	6.00	21.6	1.3	103.46		
	8.00	20.0	-0.3	103.75		
	10.00	22.2	1.9	103.95		
	12.00	21.5	1.2	104.10		
**** End Flow 1	14.00	19.2	-1.1	104.21		
**** Start Shutin 1	0.00	19.2	0.0	104.21	0.0000	0.000
	2.00	31.9	12.7	104.48	8.0000	0.001
	4.00	31.6	12.4	105.16	4.5000	0.001
	6.00	32.0	12.8	105.90	3.3333	0.001
	8.00	32.6	13.4	106.42	2.7500	0.001
	10.00	32.8	13.6	106.72	2.4000	0.001
	12.00	35.8	16.6	106.92	2.1667	0.001
	14.00	33.4	14.2	107.05	2.0000	0.001
**** End Shut-in 1	16.00	36.6	17.4	107.13	1.8750	0.001
**** Start Flow 2	0.00	29.5	0.0	107.28		
	2.00	2450.9	2421.3	107.67		
	4.00	1806.7	1777.2	108.19		
	6.00	37.4	7.9	108.80		
**** End Flow 2	8.00	40.6	11.1	109.08		
**** Start Shutin 2	0.00	40.6	0.0	109.08	0.0000	0.002
**** End Shut-in 2	2.00	2397.4	2356.8	109.31	12.0000	5.747
**** Final Hydro.	186.00	2397.4	0.0	109.31		

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Jenkins #1-24

LOCATION : 24-29s-18w

TICKET No. 7903 D.S.T. No. 6 DATE 4-01-95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 12

TOTAL TOOL 39

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 39

D.C. ABOVE TOOLS.Stands2 Single Total 116

D.P. ABOVE TOOLS.Stands75 Single 1 Total 4738

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4893

TOTAL DEPTH 4882

TOTAL DRILL PIPE ABOVE K.B. 11

REMARKS:

P.O. SUB	
C.O. SUB double pin sub	4842
S.I. TOOL	4847
HMV hydraulic tool	4852
JARS	4857
SAFETY JOINT	4861
PACKER top packer	4765
PACKER bottom packer	4870
DEPTH 4870	
STUBB	4871
ANCHOR	
alpine recorder	4871
5' anchor	4876
3' anchor	4879
T.C.	
DEPTH	
akl recorder	4875
BULLNOSE	
T.D. bullplug	4882

GAS RECOVERY

COMPANY: Crossbar Petroleum, Inc.

DATE: 4-01-95

WELL NAME: Jenkins #1-24

KB Elev: 2161.00 ft TICKET #7903 DST #6

WELL LOCATION: 24-29s-18w

GR Elev: 2152.00 ft FORMATION: Mississippi

INTERVAL Fr.: 4870.00 To 4882.00 T.D.: 4882.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.75	0	40	89.8
10	0.75	0	20	63.5
15	0.50	0	20	28.0
20	0.50	0	12	21.9
25	0.25	0	20	7.5
30	0.25	0	26	8.6
35	0.25	0	28	8.9
40	0.25	0	30	9.2
45	0.25	0	32	9.5
50	0.25	0	32	9.5
55	0.25	0	34	9.8
60	0.25	0	35	9.9



CEMENTING LOG

STAGE NO.

ORIGINAL

Date 3/23/95 District Med. Lodge Ticket No. 1243
 Company Cross Bar Pot. Rig Max Fin #
 Lease Fendins Well No. 1-24
 County Kiowa State Ks
 Location 24-29s-19w Field _____
Crossbar 2 E Chs 4 E S15

CASING DATA: PTA Squeeze
 Surface Intermediate Production Litter
 Size 9 5/8 Type _____ Weight 24# Collar _____

CEMENT DATA:
 Spacer Type: Fresh H₂O
 Amt. _____ Sk_s Yield _____ ft³/sk Density _____ PPG _____

LEAD: Pump Time _____ hrs. Type 60' 1/4" 2 3/8" x 4"
3 7/8" Casing 4 1/2" Flow Seal Excess _____
 Amt. 250 Sk_s Yield 11 2/3 ft³/sk Density 14.8 PPG _____

TAIL: Pump Time _____ hrs. Type _____
 Excess _____
 Amt. _____ Sk_s Yield _____ ft³/sk Density _____ PPG _____

WATER: Lead 516 gals/sk Tail _____ gals/sk Total 33.3 Bbls.

Casing Depths: Top 0 Bottom 430

Pump Trucks Used 233-234 Justin Hart
 Bulk Equip. 259-314 John Kelly

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 12 1/4 T.D. 430 ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

Perforations: From _____ ft. to _____ ft. Amt. _____

Float Equip: Manufacturer Baker
 Shoe: Type Sawtooth Depth 430
 Float: Type Baffle Depth 388
 Centralizers: Quantity 1 Plugs Top Wooden Btm. _____
 Stage Collars _____
 Special Equip. 1 Cement Basket
 Disp. Fluid Type H₂O Amt. 24.7 Bbls. Weight _____ PPG _____
 Mud Type _____ Weight _____ PPG _____

COMPANY REPRESENTATIVE Bill Wynn

CEMENTER Max Ball

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS	
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period		RATE Bbls Min.
4:30						on loc rig up	
8:11		100			5	2.5	Pump H ₂ O ahead
8:15		200			56	4.5	Mix Cmt 250 sks 60' 1/4" 2 3/8" x 4" Flow Seal
8:28							Cmt mixed shut down deep plug
8:31		50			24.7	3	start displacement
8:40		500					Lead Plug close in head
							circulated to BBL Cmt To Pit

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FINAL DISP PRESS: 200 ... PSI BUMP PLUG TO 500 ... PSI BLEEDBACK _____ BBLs. Surface Casing THANK YOU



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

Mid Continent
Liberal KS

ORIGINAL

BILLED ON TICKET NO. 706283

WELL DATA

FIELD _____ SEC. 24 TWP 29 RNG 18 COUNTY KIOWA STATE KS

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
COMPLETION DATE _____ MUD TYPE _____ MUD WT. 8.9
PACKER TYPE _____ SET AT _____
BOTTOM HOLE TEMP. _____ PRESSURE _____
MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	14	5 1/2	KB	4938	
LINER						
TUBING						
OPEN HOLE			7 7/8			SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>4-3-95</u> TIME <u>0030</u>	DATE <u>4-3-95</u> TIME <u>0430</u>	DATE <u>4-3-95</u> TIME <u>0815</u>	DATE <u>4-3-95</u> TIME <u>0921</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		<u>Camp</u>
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

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MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API
DISPL. FLUID _____ DENSITY _____ LB/GAL. API
PROP. TYPE _____ SIZE _____
PROP. TYPE _____ SIZE _____
ACID TYPE _____ GAL. _____
ACID TYPE _____ GAL. _____
ACID TYPE _____ GAL. _____
SURFACTANT TYPE _____ GAL. _____
NE AGENT TYPE _____ GAL. _____ IN _____
FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN _____
GELLING AGENT TYPE _____ GAL.-LB. _____ IN _____
FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN _____
BREAKER TYPE _____ GAL.-LB. _____ IN _____
BLOCKING AGENT TYPE _____ GAL.-LB. _____
PERFPAC BALLS TYPE _____ QTY. _____
OTHER _____
OTHER _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>Tom Poyer</u>	<u>40048/</u>	<u>Liberal, KS</u>
<u>T. Davis</u>	<u>449120</u>	<u>" "</u>
<u>Pat Boone</u>	<u>75505/Bulk</u>	<u>Hugoton, KS</u>
<u>S. Porter</u>	<u>6610/Bulk</u>	<u>" "</u>

DEPARTMENT 500
DESCRIPTION OF JOB Plug Rat + mouse + set 5 1/2
Long string

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
CUSTOMER REPRESENTATIVE X T.C. Janson

HALLIBURTON OPERATOR Tom Poyer COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>80</u>	<u>HLC</u>		<u>B</u>	<u>1/4% sk Flo</u>	<u>2.1</u>	<u>12.4</u>
	<u>60</u>	<u>4 1/2 100% H</u>		<u>B</u>	<u>18% salt, 4 1/2% Hald 322, 7% Gilsomite</u>	<u>1.22</u>	<u>14.3</u>
	<u>45</u>	<u>Premium</u>		<u>B</u>	<u>5% EM, 18% salt, 4 1/2% Hald 322, 7% Gilsomite, 1/4% sk D-AIR-1</u>	<u>1.45</u>	<u>15.1</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH (BBL) GAL. 25, 150, 5 TYPE 20K, S.F., 20KCL
BREAKDOWN _____ MAXIMUM _____ LOAD & BKON: BBL.-GAL. _____ PAD: BBL.-GAL. _____
AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 119.5
SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY (BBL) GAL. 20 + 13 + 11.6
HYDRAULIC HORSEPOWER _____ TOTAL VOLUME (BBL) GAL. _____
ORDERED _____ AVAILABLE _____ USED _____ REMARKS
AVERAGE RATES IN BPM _____
TREATING _____ DISPL. _____ OVERALL _____
CEMENT LEFT IN PIPE _____
FEET 46.32 REASON Shoe Joint

Remarks: M.S. Dis E
Good mud returns

Production casing

CUSTOMER Class Bar
LEASE Newkins
WELL NO. 1-24
JOB TYPE OS (5 1/2 L.S.)
DATE 4-3-95



HALLIBURTON

ORIGINAL

DATE 4-3-95 PAGE NO.

JOB LOG HAL-2013-C

CUSTOMER *Class BAR* WELL NO. *1-24* LEASE *Jenkins* JOB TYPE *035 5 1/2 L.S.* TICKET NO. *706793*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0030							Called-out - Reg. 05000
	0430							ON Loc. - Running csq.
	0658							ON Bottom
	0600							Hook-up to circ. - Circ. breaks 0617
	0720							Bullstks. on loc.
	0740							mix SUPER Flush
	0815							Hook-up to plug ^{mouse} RAT hole @ HLC 13 1/4
	0829	0-5	25		✓		1/200	Pump 2% KCL
	0834	5	18		✓		250	Pump SUPER flush
	0838	5	5		✓		350	Pump 2%
	0844		4	✓		50		Pump RAT hole @ 15 sks - 12.9 #/g
	0848		3	✓		50		Pump RAT mouse hole @ 10 sks - 12.9 #/g
	0849	0-6	20	✓			1/300	Pump lead scavenger - Rotate csq.
	0852	6	13	✓			200	Pump lead anti @ 60 sks - 1/40 #/g
	0855	6	11	✓			100	Pump tail anti @ 45 sks - PAEM. Expanding
	0857	6-0					100%	Shut Down. - Drop plug - wash-up task.
	0901	0-7	119 1/2	✓			1/550	Pump Displ. - 1 st 25 BBLs 2% KCL.
	0917	7-3		✓			550/350	Reduce Rate - Stop rotating csq
	0919	3-0		✓			500/1150	Plug landed
	0921	0		✓			1050/0	Release Press. - float "hold"
								Good returns on mud
								M.S.D.S c. Tom Larson (consultant)
								Thanks For calling our SERVICES! Tom Poyer, Tice, Pat, Shawn
								Time on Location @ 5 hours Actual job time @ 52 minutes

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Production Casing