

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

Operator: License # 5135
Name: John O. Farmer, Inc.
Address P.O. Box 352

City/State/Zip Russell, KS 67665

Purchaser: _____

Operator Contact Person: Marge Schulte
Phone (913) 483-3144

Contractor: Name: Abercrombie RTD, Inc.
License: 30684
Wellsite Geologist: Robert Stolzle

Designate Type of Completion
 New Well Re-Entry Workover

 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc.)
If Workover/Re-Entry: old well info. as follows:

Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____

 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

2-14-97 2-21-97
Spud Date Date Reached TD Completion Date

API No. 15- 193-20,657-00-00

County Thomas
50' NE of _____ E
- SW - NE - NW Sec. 22 Twp. 9S Rge. 32 X W

955 Feet from S (N) (circle one) Line of Section
1685 Feet from E (W) (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE (NW) or SW (circle one)

Lease Name Renner Well # 3
Field Name Ohl NW
Producing Formation _____

Elevation: Ground 3066' KB 3071'
Total Depth 4691' PBTD _____

Amount of Surface Pipe Set and Cemented at 288 Feet

Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan D+A 1-21-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 14,000 ppm Fluid volume 1,260 bbls
Dewatering method used evaporation

Location of fluid disposal if hauled offsite: _____
(not hauled)

Operator Name _____

Lease Name _____ License No. _____

_____ Quarter Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

RECEIVED
KANSAS CORP COM
1997 JUN 10 P 2:35
06-10-1997

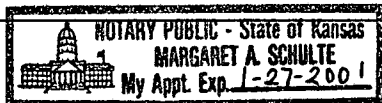
INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on 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 John O. Farmer III
John O. Farmer III
Title President Date 6-9-97
Subscribed and sworn to before me this 9th day of June,
19 97.

Notary Public Margaret A. Schulte
Margaret A. Schulte

Date Commission Expires _____



K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

111110

SIDE TWO

Operator Name John O. Farmer, Inc. Lease Name Renner Well # 3
 East County Thomas
 Sec. 22 Twp. 9S Rge. 32 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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	2645'	(+426)
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Base/Anhydrite	2673'	(+398)
List All E.Logs Run:		Heebner	4035'	(-964)
Dual Compensated Porosity Log		Lansing	4077'	(-1006)
Dual Induction Log		Muncie Creek	4206'	(-1135)
		Stark	4290'	(-1219)
		Pawnee	4471'	(-1400)
		Cherokee	4567'	(-1496)
		Johnson zone	4610'	(-1539)
		Mississippi	4651'	(-1580)
		L.T.D.	4692'	(-1621)

CASING RECORD <input checked="" type="checkbox"/> New <input 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"	20#	288'	60/40 Pozmix	200	3% C.C., 2% gel

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth		#Sacks Used	Type and Percent Additives
	Top	Bottom		
<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		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls. <u>N-A</u>	Gas Mcf <u>N-A</u>	Water Bbls.	Gas-Oil Ratio Gravity

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 _____

ALLIED CEMENTING CO., INC. 8385

Federal Tax I.D.# 40-0000000

REMIT TO: P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT

15-193-2067-00-00

OAKLEY

DATE <u>2-14-97</u>	SEC <u>22</u>	TWP <u>9S</u>	RANGE <u>32W</u>	CALLED OUT	ON LOCATION <u>9:45 PM</u>	JOB START <u>11:30 PM</u>	JOB FINISH <u>12:00 AM</u>
LEASE <u>RENNER</u>	WELL # <u>3</u>	LOCATION <u>OAKLEY 10N-1/2W</u>			COUNTY <u>THOMAS</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Abercrombie RTO RTO OWNER SAME

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4" T.D. 293' CEMENT

CASING SIZE 8 7/8" DEPTH 288' AMOUNT ORDERED 200 SKS 60/140 22 CC

TUBING SIZE DEPTH 2 7/8 GEL

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM COMMON 120 SKS @ 7.20 864.00

MEAS. LINE SHOE JOINT POZMIX 80 SKS @ 3.15 252.00

CEMENT LEFT IN CSG. 15' GEL 3 SKS @ 9.20 28.80

PERFS. CHLORIDE 6 SKS @ 2.80 168.00

DISPLACEMENT @

EQUIPMENT @

PUMP TRUCK CEMENTER TERRY

191 HELPER WAYNE

BULK TRUCK HANDLING 200 SKS @ 1.05 210.00

218 DRIVER DEAN MILEAGE 44 1/2 SKS @ 88.00

BULK TRUCK DRIVER TOTAL 1460.00

DRIVER

REMARKS: SERVICE

Displacement 1734

DEPTH OF JOB 288'

PUMP TRUCK CHARGE 445.00

EXTRA FOOTAGE @

MILEAGE 11 mile @ 2.85 31.35

PLUG 8 5/8 SURFACE @ 45.00

TOTAL 521.35

CHARGE TO: John O. Farmer

STREET Rd 352

CITY Russell STATE Kansas ZIP 67665

To Allied Cementing Co., Inc.

You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX

TOTAL CHARGE

DISCOUNT IF PAID IN 30 DAYS

SIGNATURE Anthony Ward PRINTED NAME Anthony Ward

RECEIVED
KANSAS CORP COMM
1997 JUN 10 PM 2:33

ALLIED CEMENTING CO., INC. 8392

Federal Tax I.D.#

REMIT TO: P.O. BOX 31, RUSSELL, KANSAS 67665

ORIGINAL

15-193-20657-00-00

SERVICE POINT: OAKLEY

DATE: <u>2-22-97</u>	SEC: <u>22</u>	TWP: <u>9S</u>	RANGE: <u>32W</u>	CALLED OUT: <u>9:30AM</u>	ON LOCATION: <u>9:30AM</u>	JOB START: <u>10:45AM</u>	JOB FINISH: <u>1:30PM</u>
LEASE: <u>RENNER</u>	WELL #: <u>3</u>	LOCATION: <u>OAKLEY 10N-1W</u>			COUNTY: <u>THOMAS</u>	STATE: <u>KS</u>	

OLD OR (NEW) (Circle one)

CONTRACTOR: Abercrombie RTD REC OWNER: S. AME

TYPE OF JOB: PTA

HOLE SIZE: 2 7/8" T.D. 4691' CEMENT AMOUNT ORDERED: 19056 60/40 poz 6866 1/4# SEA

CASING SIZE: DEPTH:

TUBING SIZE: DEPTH:

DRILL PIPE: 4 1/2" DEPTH: 2660'

TOOL: DEPTH:

PRES. MAX: MINIMUM: COMMON

MEAS. LINE: SHOE JOINT: POZMIX

CEMENT LEFT IN CSG: GEL: 10' SIK

PERFS: CHLORIDE:

DISPLACEMENT: Flu-Seal 48#

EQUIPMENT

PUMP TRUCK # 191 CEMENTER: TERRY MAX HELPER: TERRY

BULK TRUCK # 303 DRIVER: MAX

BULK TRUCK # DRIVER:

HANDLING: 190 SKS MILEAGE: 44 ps SK/mile

TOTAL: 1,493.50

REMARKS: 25 SKS AT 2660'

100 SKS AT 1820'

40 SKS AT 340'

10 SKS AT 40'

15 SKS AT RAT HOLE

DEPTH OF JOB: 2660'

PUMP TRUCK CHARGE: 550.00

EXTRA FOOTAGE:

MILEAGE: 11-miles

PLUG: 879 DRY HOLE

TOTAL: 604.35

CHARGE TO: John O. FARMER

STREET: P.O. Box 352

CITY: Russell STATE: Kan ZIP: 67665

FLOAT EQUIPMENT

TOTAL:

TAX:

TOTAL CHARGE:

DISCOUNT: IF PAID IN 30 DAYS

SIGNATURE: Anthony Ward PRINTED NAME: Anthony Ward

RECEIVED
KANSAS CORP COMM

ORIGINAL

DST REPORT

GENERAL INFORMATION

15-193-20 657-00-00

DATE	: 2/19/97	TICKET	: 21768
CUSTOMER	: J O FARMER	LEASE	: RENNER
WELL	: #3	TEST: 1	GEOLOGIST: STOLZH
ELEVATION	: 3070 EST	FORMATION	: L KANSAS CITY I J K
SECTION	: 22	TOWNSHIP	: 9S
RANGE	: 32W	COUNTY: THOMAS	STATE : KS
GAUGE SN#	: 13551	RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4238.00 ft	TO:	4312.00 ft	TVD:	4312.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4241.0 ft		4244.0 ft		
TEMPERATURE:	123.0				
DRILL COLLAR LENGTH:	0.0 ft	I.D.:	0.000 in		
WEIGHT PIPE LENGTH :	631.0 ft	I.D.:	3.200 in		
DRILL PIPE LENGTH :	3587.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	74.0 ft	ANCHOR SIZE:	5.500 in		
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in		
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5XH		
PACKER DEPTH:	4233.0 ft	SIZE:	6.750 in		
PACKER DEPTH:	4238.0 ft	SIZE:	6.750 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		

MUD INFORMATION

DRILLING CON. :	ABERCROMBIE RIG 8	VISCOSITY :	47.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	9.400 cc
WEIGHT :	9.300 ppg	SERIAL NUMBER:	
CHLORIDES :	1600 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

OPENED WEAK - INCREASED TO 10 INCHES IN WATER ON BOTH INITIAL AND FINAL FLOW PERIODS.

15-193-20657-00-00

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
30.0	100.0	0.0	0.0	0.0	OIL
62.0	50.0	0.0	0.0	50.0	OIL CUT MUD
62.0	20.0	0.0	0.0	80.0	OIL CUT MUD

RATE INFORMATION

OIL VOLUME:	0.7301	STB	TOTAL FLOW TIME:	90.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	24.5086	STB/D
MUD VOLUME:	0.8017	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	1.5318	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2112.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	41.00	52.00
INITIAL SHUT-IN	45.00		1275.00
FINAL FLOW	45.00	62.00	73.00
FINAL SHUT-IN	60.00		1275.00

FINAL HYDROSTATIC PRESSURE: 2081.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2104.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	43.16	54.09
INITIAL SHUT-IN	45.00		1276.30
FINAL FLOW	45.00	85.08	84.68
FINAL SHUT-IN	60.00		1286.66

FINAL HYDROSTATIC PRESSURE: 2095.00

15-193-20657-00-00

Company: JOHN O. FARMER
 Well: RENNER #3 DST #1
 Field: TKT #21768

[Wednesday: Feb. 19, 1997
 Page 1

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
START FLOW 1				
1	0	0: 0: 0	0.0000	43.16
6	0	0: 0:36	0.0100	42.28
11	0	0: 1:12	0.0200	40.54
16	0	0: 1:48	0.0300	37.92
21	0	0: 2:24	0.0399	36.17
26	0	0: 3: 0	0.0499	35.29
31	0	0: 3:36	0.0599	35.29
36	0	0: 4:12	0.0699	34.41
41	0	0: 4:48	0.0799	34.41
46	0	0: 5:24	0.0899	34.40
51	0	0: 6: 0	0.0999	33.53
56	0	0: 6:36	0.1099	33.52
61	0	0: 7:12	0.1199	33.52
66	0	0: 7:48	0.1299	33.51
71	0	0: 8:24	0.1399	33.51
76	0	0: 9: 0	0.1498	32.63
81	0	0: 9:36	0.1598	32.63
86	0	0:10:12	0.1698	32.62
91	0	0:10:48	0.1798	32.62
96	0	0:11:24	0.1898	32.61
101	0	0:12: 0	0.1998	32.61
106	0	0:12:36	0.2098	33.47
111	0	0:13:12	0.2198	33.47
116	0	0:13:48	0.2298	33.46
121	0	0:14:24	0.2398	33.46
126	0	0:15: 0	0.2498	33.45
131	0	0:15:36	0.2598	33.45
136	0	0:16:11	0.2697	33.44
141	0	0:16:47	0.2797	33.44
146	0	0:17:23	0.2897	33.43
151	0	0:17:59	0.2997	33.43
156	0	0:18:35	0.3097	34.29
161	0	0:19:11	0.3197	34.29
166	0	0:19:47	0.3297	34.28
171	0	0:20:23	0.3397	34.28
176	0	0:20:59	0.3497	35.15
181	0	0:21:35	0.3597	35.14
186	0	0:22:11	0.3697	35.14
191	0	0:22:47	0.3797	35.13
196	0	0:23:23	0.3897	36.00
201	0	0:23:59	0.3997	35.99
206	0	0:24:35	0.4096	35.99
211	0	0:25:11	0.4196	35.98
216	0	0:25:47	0.4296	36.85
221	0	0:26:23	0.4396	36.84
226	0	0:26:59	0.4496	37.71
231	0	0:27:35	0.4596	37.70
236	0	0:28:11	0.4696	37.70
241	0	0:28:47	0.4796	37.69
246	0	0:29:23	0.4896	38.56
251	0	0:29:59	0.4996	38.55
256	0	0:30:35	0.5096	38.55
261	0	0:31:11	0.5196	38.54
266	0	0:31:47	0.5296	39.41

15-193-20657-00-00

Company: JOHN O. FARMER
 Well: RENNER #3 DST #1
 Field: TKT #21768

[Wednesday: Feb. 19, 1997
 Page 2

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
271	0	0:32:23	0.5395	39.41
276	0	0:32:59	0.5495	39.40
281	0	0:33:35	0.5595	40.27
286	0	0:34:11	0.5695	40.26
291	0	0:34:47	0.5795	40.26
296	0	0:35:23	0.5895	41.12
301	0	0:35:59	0.5995	41.12
306	0	0:36:35	0.6095	41.11
311	0	0:37:11	0.6195	41.11
316	0	0:37:46	0.6295	41.97
321	0	0:38:22	0.6395	41.97
326	0	0:38:58	0.6495	41.96
331	0	0:39:34	0.6595	42.83
336	0	0:40:10	0.6694	42.82
341	0	0:40:46	0.6794	42.82
346	0	0:41:22	0.6894	42.81
351	0	0:41:58	0.6994	42.81
356	0	0:42:34	0.7094	43.68
361	0	0:43:10	0.7194	43.67
366	0	0:43:46	0.7294	43.67
371	0	0:44:22	0.7394	43.66
376	0	0:44:58	0.7494	45.40
381	0	0:45:34	0.7594	47.13
386	0	0:46:10	0.7694	49.74
391	0	0:46:46	0.7794	54.09
END FLOW 1				
START SHUTIN 1				
392	0	0:46:53	0.7814	54.96
396	0	0:47:22	0.7894	58.44
401	0	0:47:58	0.7994	64.53
406	0	0:48:34	0.8094	75.85
411	0	0:49:10	0.8195	91.52
416	0	0:49:47	0.8295	108.94
421	0	0:50:23	0.8395	133.32
426	0	0:50:59	0.8496	164.67
431	0	0:51:35	0.8597	209.95
436	0	0:52:12	0.8698	258.72
441	0	0:52:49	0.8801	351.91
446	0	0:53:26	0.8903	445.10
451	0	0:54: 2	0.9005	534.80
456	0	0:54:39	0.9108	648.02
461	0	0:55:16	0.9210	714.21
466	0	0:55:52	0.9311	762.11
471	0	0:56:29	0.9412	806.52
476	0	0:57: 5	0.9514	871.84
481	0	0:57:42	0.9615	897.96
486	0	0:58:18	0.9715	933.67
491	0	0:58:54	0.9816	972.86
496	0	0:59:30	0.9917	989.40
501	0	1: 0: 7	1.0017	1009.39
506	0	1: 0:43	1.0117	1029.33
511	0	1: 1:19	1.0218	1045.81
516	0	1: 1:55	1.0318	1064.88
521	0	1: 2:31	1.0418	1077.02
526	0	1: 3: 7	1.0519	1090.02

WESTERN TESTING CO., INC.

15-193-20657-00-00

Company: JOHN O. FARMER
 Well: RENNER #3 DST #1
 Field: TKT #21768

[Wednesday: Feb. 19, 1997
 Page 3

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
531	0	1: 3:43	1.0619	1107.37
536	0	1: 4:19	1.0719	1119.50
541	0	1: 4:55	1.0820	1130.77
546	0	1: 5:31	1.0920	1138.58
551	0	1: 6: 8	1.1020	1148.11
556	0	1: 6:44	1.1120	1156.78
561	0	1: 7:20	1.1220	1163.71
566	0	1: 7:56	1.1320	1168.91
571	0	1: 8:32	1.1420	1174.98
576	0	1: 9: 8	1.1520	1180.18
581	0	1: 9:44	1.1620	1186.24
586	0	1:10:20	1.1720	1190.58
591	0	1:10:56	1.1820	1195.77
596	0	1:11:32	1.1921	1200.97
601	0	1:12: 8	1.2021	1205.31
606	0	1:12:44	1.2121	1209.64
611	0	1:13:20	1.2221	1213.97
616	0	1:13:56	1.2321	1218.30
621	0	1:14:32	1.2421	1222.63
626	0	1:15: 8	1.2521	1226.96
631	0	1:15:44	1.2621	1230.43
636	0	1:16:20	1.2721	1233.89
641	0	1:16:56	1.2821	1236.49
646	0	1:17:32	1.2921	1239.95
651	0	1:18: 8	1.3021	1242.55
656	0	1:18:44	1.3121	1245.15
661	0	1:19:20	1.3221	1246.88
666	0	1:19:56	1.3321	1249.47
671	0	1:20:32	1.3421	1251.20
676	0	1:21: 8	1.3521	1253.80
681	0	1:21:44	1.3621	1255.53
686	0	1:22:20	1.3721	1258.13
691	0	1:22:56	1.3820	1259.86
696	0	1:23:32	1.3921	1262.45
701	0	1:24: 8	1.4021	1265.05
706	0	1:24:44	1.4121	1266.78
711	0	1:25:20	1.4220	1268.51
716	0	1:25:56	1.4320	1270.24
721	0	1:26:32	1.4420	1271.97
726	0	1:27: 8	1.4520	1274.57
731	0	1:27:44	1.4620	1276.30
END SHUTIN 1				
START FLOW 2				
733	0	1:30:25	1.5069	85.08
738	0	1:31: 1	1.5168	85.08
743	0	1:31:37	1.5268	81.59
748	0	1:32:13	1.5368	78.97
753	0	1:32:49	1.5468	77.23
758	0	1:33:25	1.5568	76.35
763	0	1:34: 1	1.5668	74.60
768	0	1:34:37	1.5768	73.73
773	0	1:35:13	1.5868	73.72
778	0	1:35:49	1.5968	73.72
783	0	1:36:25	1.6067	71.97

WESTERN TESTING CO., INC.

15-193-20657-00-00

Company: JOHN O. FARMER
 Well: RENNER #3 DST #1
 Field: TKT #21768

[Wednesday: Feb. 19, 1997
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
788	0	1:37: 1	1.6167	71.09
793	0	1:37:37	1.6267	71.09
798	0	1:38:13	1.6367	70.21
803	0	1:38:49	1.6467	70.21
808	0	1:39:24	1.6567	70.20
813	0	1:40: 0	1.6667	70.20
818	0	1:40:36	1.6767	69.32
823	0	1:41:12	1.6867	69.32
828	0	1:41:48	1.6967	69.31
833	0	1:42:24	1.7067	69.31
838	0	1:43: 0	1.7166	69.30
843	0	1:43:36	1.7266	69.30
848	0	1:44:12	1.7366	69.29
853	0	1:44:48	1.7466	69.29
858	0	1:45:24	1.7566	70.15
863	0	1:46: 0	1.7666	70.15
868	0	1:46:36	1.7766	70.14
873	0	1:47:12	1.7866	70.14
878	0	1:47:48	1.7966	70.13
883	0	1:48:24	1.8066	70.13
888	0	1:49: 0	1.8166	70.12
893	0	1:49:36	1.8266	70.12
898	0	1:50:12	1.8365	70.98
903	0	1:50:48	1.8465	70.98
908	0	1:51:24	1.8565	70.97
913	0	1:52: 0	1.8665	70.97
918	0	1:52:36	1.8765	70.96
923	0	1:53:12	1.8865	70.96
928	0	1:53:48	1.8965	71.82
933	0	1:54:24	1.9065	71.82
938	0	1:55: 0	1.9165	71.81
943	0	1:55:36	1.9265	72.68
948	0	1:56:12	1.9365	72.68
953	0	1:56:48	1.9465	72.67
958	0	1:57:24	1.9564	72.67
963	0	1:58: 0	1.9664	72.66
968	0	1:58:36	1.9764	73.53
973	0	1:59:12	1.9864	73.52
978	0	1:59:48	1.9964	74.39
983	0	2: 0:23	2.0064	74.38
988	0	2: 0:59	2.0164	74.38
993	0	2: 1:35	2.0264	74.37
998	0	2: 2:11	2.0364	75.24
1003	0	2: 2:47	2.0464	75.23
1008	0	2: 3:23	2.0564	75.23
1013	0	2: 3:59	2.0664	75.22
1018	0	2: 4:35	2.0764	76.09
1023	0	2: 5:11	2.0864	76.08
1028	0	2: 5:47	2.0963	76.08
1033	0	2: 6:23	2.1063	76.95
1038	0	2: 6:59	2.1163	76.94
1043	0	2: 7:35	2.1263	76.94
1048	0	2: 8:11	2.1363	76.93
1053	0	2: 8:47	2.1463	76.93
1058	0	2: 9:23	2.1563	76.92

WESTERN TESTING CO., INC.

Company: JOHN O. FARMER
 Well: RENNER #3 DST #1
 Field: TKT #21768

[Wednesday: Feb. 19, 1997
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1063	0	2: 9:59	2.1663	76.92
1068	0	2:10:35	2.1763	76.91
1073	0	2:11:11	2.1863	77.78
1078	0	2:11:47	2.1963	77.77
1083	0	2:12:23	2.2063	77.77
1088	0	2:12:59	2.2163	77.76
1093	0	2:13:35	2.2262	77.76
1098	0	2:14:11	2.2362	78.62
1103	0	2:14:47	2.2462	78.62
1108	0	2:15:23	2.2562	79.48
1113	0	2:15:59	2.2662	80.35
1118	0	2:16:35	2.2762	80.35
1123	0	2:17:11	2.2862	81.21
1128	0	2:17:47	2.2962	82.08
1133	0	2:18:23	2.3062	84.68
END FLOW 2				
START SHUTIN 2				
1138	0	2:18:59	2.3162	87.29
1143	0	2:19:35	2.3262	91.64
1148	0	2:20:11	2.3362	96.86
1153	0	2:20:47	2.3462	106.44
1158	0	2:21:23	2.3563	132.56
1163	0	2:21:59	2.3663	155.20
1168	0	2:22:35	2.3764	182.20
1173	0	2:23:12	2.3864	197.87
1178	0	2:23:48	2.3966	250.12
1183	0	2:24:24	2.4067	299.76
1188	0	2:25: 1	2.4169	382.50
1193	0	2:25:38	2.4270	433.88
1198	0	2:26:15	2.4373	553.20
1203	0	2:26:51	2.4474	595.00
1208	0	2:27:28	2.4576	682.09
1213	0	2:28: 4	2.4677	719.54
1218	0	2:28:41	2.4779	769.18
1223	0	2:29:17	2.4880	812.72
1228	0	2:29:53	2.4980	843.20
1233	0	2:30:30	2.5081	888.48
1238	0	2:31: 6	2.5182	905.03
1243	0	2:31:42	2.5282	935.50
1248	0	2:32:18	2.5383	952.92
1253	0	2:32:54	2.5483	974.69
1258	0	2:33:30	2.5584	990.36
1263	0	2:34: 7	2.5684	1004.27
1268	0	2:34:43	2.5784	1023.35
1273	0	2:35:19	2.5885	1033.75
1278	0	2:35:55	2.5985	1046.76
1283	0	2:36:31	2.6085	1059.76
1288	0	2:37: 7	2.6185	1071.03
1293	0	2:37:43	2.6286	1083.17
1298	0	2:38:19	2.6386	1092.71
1303	0	2:38:55	2.6486	1101.37
1308	0	2:39:31	2.6586	1110.04
1313	0	2:40: 7	2.6686	1117.84
1318	0	2:40:43	2.6786	1128.25
1323	0	2:41:19	2.6886	1134.31

Company: JOHN O. FARMER
 Well: RENNER #3 DST #1
 Field: TKT #21768

[Wednesday: Feb. 19, 1997]
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1328	0	2:41:56	2.6986	1141.25
1333	0	2:42:32	2.7087	1147.31
1338	0	2:43: 8	2.7187	1153.38
1343	0	2:43:44	2.7287	1158.58
1348	0	2:44:20	2.7387	1163.78
1353	0	2:44:56	2.7487	1170.71
1358	0	2:45:32	2.7587	1175.04
1363	0	2:46: 8	2.7687	1180.24
1368	0	2:46:44	2.7787	1184.57
1373	0	2:47:20	2.7887	1188.04
1378	0	2:47:56	2.7987	1192.37
1383	0	2:48:32	2.8087	1195.83
1388	0	2:49: 8	2.8187	1199.30
1393	0	2:49:44	2.8287	1202.76
1398	0	2:50:20	2.8387	1205.36
1403	0	2:50:56	2.8487	1209.69
1408	0	2:51:32	2.8587	1213.16
1413	0	2:52: 8	2.8687	1216.62
1418	0	2:52:44	2.8787	1219.22
1423	0	2:53:20	2.8887	1223.55
1428	0	2:53:56	2.8987	1227.01
1433	0	2:54:32	2.9087	1229.61
1438	0	2:55: 8	2.9187	1232.21
1443	0	2:55:44	2.9287	1234.80
1448	0	2:56:20	2.9387	1237.40
1453	0	2:56:56	2.9487	1239.13
1458	0	2:57:32	2.9587	1241.73
1463	0	2:58: 8	2.9687	1243.46
1468	0	2:58:44	2.9787	1245.19
1473	0	2:59:20	2.9887	1246.92
1478	0	2:59:56	2.9987	1248.65
1483	0	3: 0:32	3.0087	1250.38
1488	0	3: 1: 8	3.0187	1252.11
1493	0	3: 1:44	3.0287	1253.84
1498	0	3: 2:20	3.0387	1255.57
1503	0	3: 2:56	3.0487	1256.43
1508	0	3: 3:32	3.0587	1258.16
1513	0	3: 4: 8	3.0687	1259.02
1518	0	3: 4:43	3.0786	1260.75
1523	0	3: 5:19	3.0886	1261.61
1528	0	3: 5:55	3.0986	1263.34
1533	0	3: 6:31	3.1086	1265.07
1538	0	3: 7: 7	3.1186	1265.93
1543	0	3: 7:43	3.1286	1266.80
1548	0	3: 8:19	3.1386	1268.53
1553	0	3: 8:55	3.1486	1269.39
1558	0	3: 9:31	3.1586	1270.25
1563	0	3:10: 7	3.1686	1271.98
1568	0	3:10:43	3.1786	1272.84
1573	0	3:11:19	3.1886	1273.70
1578	0	3:11:55	3.1986	1274.57
1583	0	3:12:31	3.2086	1275.43
1588	0	3:13: 7	3.2186	1276.29
1593	0	3:13:43	3.2286	1277.15
1598	0	3:14:19	3.2386	1278.02

WESTERN TESTING CO., INC.

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Company: JOHN O. FARMER
Well: RENNER #3 DST #1
Field: TKT #21768

[Wednesday: Feb. 19, 1997
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1603	0	3:14:55	3.2486	1279.75
1608	0	3:15:31	3.2586	1280.61
1613	0	3:16: 7	3.2685	1282.34
1618	0	3:16:43	3.2785	1283.20
1623	0	3:17:19	3.2885	1284.06
1628	0	3:17:55	3.2985	1285.79
1633	0	3:18:31	3.3085	1286.66

WESTERN TESTING CO., INC.

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21768
 RENNER
 STOLZH
 L KANSAS CITY I J K
 9S
 KS
 12

TICKET
 LEASE
 GEOLOGIST
 FORMATION
 TOWNSHIP
 STATE
 CLOCK

TEST 1

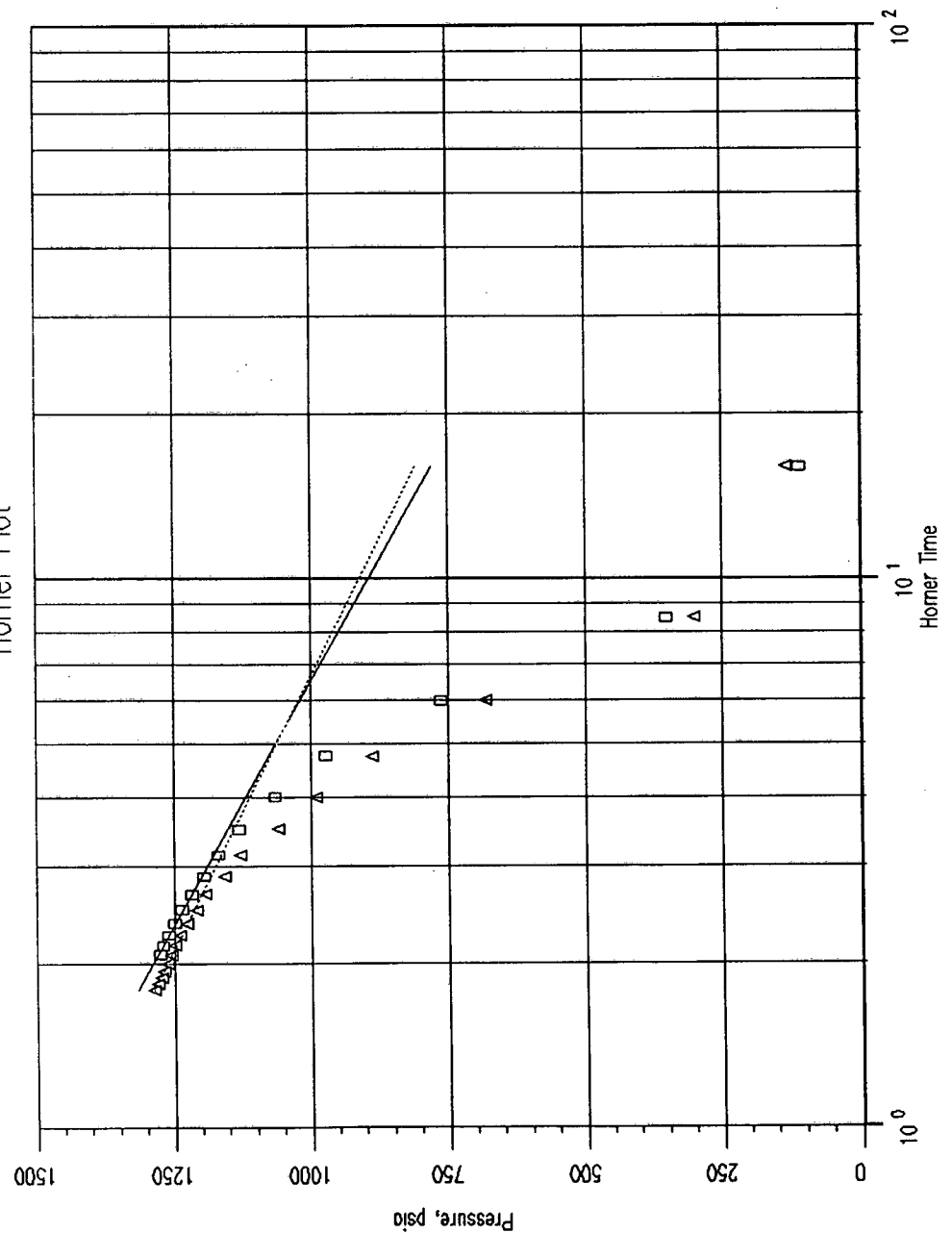
COUNTY THOMAS
 RANGE 4150

DATE 2/19/97
 CUSTOMER J O FARMER
 WELL #3
 ELEVATION 3070 EST
 SECTION 22
 RANGE 32W
 GAUGE SN# 13551

Result

tp, hrs	#1 0.75	#2 0.75
Slope	-565.67	-503.46
Pstar, psig	1458.55	1414.16
P1hr, psig	1321.07	1291.80
Skin	7.86	7.98
k, md	1.84	2.07
kh/u, md-ft/cp	8.06	9.06
ri, ft	0.00	0.00
DR, %	-0.53	-0.58
Drawdown Factor, %	-0.812	
Drawdown P*, %	3.044	

Horner Plot



— BUILD 1
 BUILD 2

15-193-20657-00-00

HORNER ANALYSIS REPORT

GENERAL INFORMATION

DATE : 2/19/97	TICKET : 21768
CUSTOMER : J O FARMER	LEASE : RENNER
WELL : #3	GEOLOGIST: STOLZH
ELEVATION: 3070 EST	FORMATION: L KANSAS CITY I J K
SECTION : 22	TOWNSHIP : 9S
RANGE : 32W	STATE : KS
GAUGE SN#: 13551	CLOCK : 12
TEST: 1	
COUNTY: THOMAS	
RANGE : 4150	

Input Data

Porosity 0.900 Rw: 0.328 ft h: 4.000 ft
 qo 24.5 STB GOR 300.8 SCF/STB

Pvt Data
 Evaluation Pressure : 1276.3
 Evaluation Temperature: 123.0

Oil Grav 38.00 API	Gas Grav 0.65 API	Pb 1276.30 PSIA
Bo 1.144 RBL/STB	Vis 1.000 cp	Ct 2.0322E+002 1/PSI

Horner Results

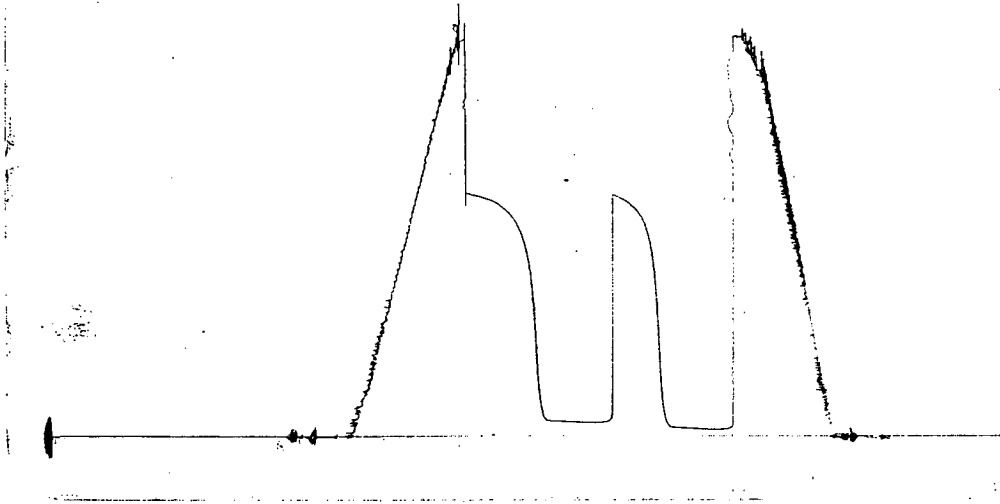
	Initial Shut-In	Final Shut-In
pseudo pressure time	0.75 hrs	0.75 hrs
slope	-565.67	-503.46
pstar	1458.55 psig	1414.16 psig
plhr	1321.07 psig	1291.80 psig
skin	7.86	7.98
permeability	1.84 md	2.07 md
transmissibility	8.06 md-ft/cp	9.06 md-ft/cp
radius of investigation	0.00 ft	0.00 ft
Damage-Ratio	-0.53 percent	-0.58 percent
Drawdown Factor		-0.812 percent
Drawdown P*		3.044 percent

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KT 21768

13551

CSF 2/1

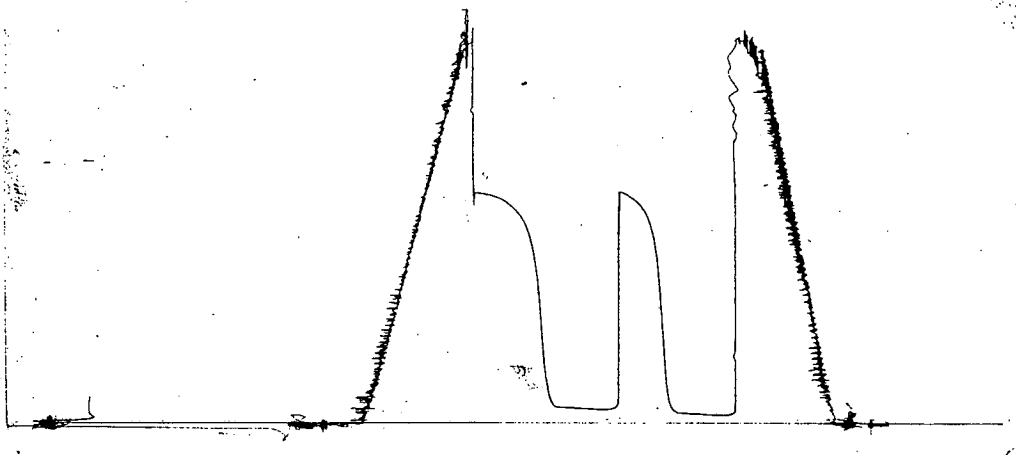


Inside Recorder

KT 21768

13260

CSF 2/1



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 2/20/97	TICKET : 21769
CUSTOMER : J O FARMER	LEASE : RENNER
WELL : #3	GEOLOGIST: STOLZH
ELEVATION: 3070 EST	FORMATION: L KANSAS CITY L
SECTION : 22	TOWNSHIP : 9S
RANGE : 32W	COUNTY: THOMAS
GAUGE SN#: 3026	STATE : KS
	RANGE : 5000
	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4323.00 ft	TO: 4343.00 ft	TVD: 4343.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 4332.0 ft	4326.0 ft	
TEMPERATURE: 120.0		
DRILL COLLAR LENGTH: 0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH : 631.0 ft	I.D.:	3.200 in
DRILL PIPE LENGTH : 3672.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 20.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE : 0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE : 7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH: 4318.0 ft	SIZE:	6.750 in
PACKER DEPTH: 4323.0 ft	SIZE:	6.750 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : ABERCROMBIE RIG 8	VISCOSITY : 44.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 9.200 cc
WEIGHT : 9.300 ppg	SERIAL NUMBER:
CHLORIDES : 1400 ppm	REVERSED OUT?: NO
JARS-MAKE :	
DID WELL FLOW?: NO	

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW - DIED IN 20 MINUTES
FINAL FLOW PERIOD NO BLOW.

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DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
2.0	0.0	0.0	0.0	100.0	MUD

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	65.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.0199 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.0199 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2124.00

Description	Duration	p1	p End
INITIAL FLOW	35.00	31.00	33.00
INITIAL SHUT-IN	30.00		34.00
FINAL FLOW	30.00	35.00	33.00
FINAL SHUT-IN	30.00		34.00

FINAL HYDROSTATIC PRESSURE: 2109.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2124.90

Description	Duration	p1	p End
INITIAL FLOW	35.00	31.70	33.40
INITIAL SHUT-IN	30.00		35.20
FINAL FLOW	30.00	32.90	33.40
FINAL SHUT-IN	30.00		34.40

FINAL HYDROSTATIC PRESSURE: 2109.70

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: J.O. Farmer #3 Renner DST # 2 TK. # 21769
 DATE: 02/20/97 TIME: 08:26:47

	Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	86.00	2124.9	0.0	113.66		
***** Start Flow 1	0.00	31.7	0.0	115.37		
	0.50	32.3	0.6	115.60		
	1.00	32.5	0.8	115.73		
	1.50	32.6	0.9	115.82		
	2.00	32.7	1	115.91		
	2.50	32.8	1.0	115.97		
	3.00	32.8	1.1	116.03		
	3.50	32.8	1.1	116.09		
	4.00	32.9	1.2	116.13		
	4.50	32.9	1.2	116.17		
	5.00	33.0	1.2	116.20		
	5.50	33.0	1.2	116.23		
	6.00	33.0	1.3	116.26		
	6.50	33.0	1.3	116.27		
	7.00	33.0	1.3	116.31		
	7.50	33.0	1.3	116.32		
	8.00	33.0	1.3	116.34		
	8.50	33.0	1.3	116.35		
	9.00	33.1	1.3	116.38		
	9.50	33.1	1.3	116.38		
	10.00	33.1	1.3	116.40		
	10.50	33.1	1.3	116.41		
	11.00	33.1	1.4	116.42		
	11.50	33.1	1.4	116.43		
	12.00	33.1	1.4	116.44		
	12.50	33.1	1.4	116.44		
	13.00	33.1	1.4	116.45		
	13.50	33.2	1.4	116.46		
	14.00	33.2	1.4	116.47		
	14.50	33.2	1.4	116.48		
	15.00	33.2	1.4	116.48		
	15.50	33.2	1.4	116.49		
	16.00	33.2	1.5	116.51		
	16.50	33.2	1.5	116.51		
	17.00	33.2	1.5	116.51		
	17.50	33.2	1.5	116.53		
	18.00	33.3	1.5	116.54		
	18.50	33.3	1.6	116.54		
	19.00	33.3	1.6	116.54		
	19.50	33.3	1.6	116.56		
	20.00	33.3	1.6	116.57		
	20.50	33.3	1.6	116.58		
	21.00	33.3	1.6	116.59		
	21.50	33.3	1.6	116.59		
	22.00	33.3	1.6	116.60		
	22.50	33.4	1.6	116.61		
	23.00	33.4	1.6	116.61		
	23.50	33.4	1.6	116.62		
	24.00	33.4	1.6	116.63		
	24.50	33.3	1.6	116.64		

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: J.O. Farmer #3 Renner DST # 2 TK. # 21769
 DATE: 02/20/97 TIME: 08:26:47

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6	
25.00	33.3	1.6	116.66			
25.50	33.4	1.6	116.66			
26.00	33.4	1.6	116.68			
26.50	33.4	1.6	116.69			
27.00	33.4	1.6	116.70			
27.50	33.4	1.6	116.71			
28.00	33.4	1.6	116.72			
28.50	33.4	1.6	116.74			
29.00	33.4	1.6	116.75			
29.50	33.4	1.6	116.77			
30.00	33.4	1.6	116.77			
30.50	33.4	1.7	116.79			
31.00	33.4	1.7	116.81			
31.50	33.4	1.7	116.82			
32.00	33.4	1.7	116.83			
32.50	33.4	1.7	116.84			
33.00	33.4	1.7	116.87			
33.50	33.4	1.7	116.88			
34.00	33.4	1.7	116.89			
34.50	33.4	1.7	116.91			
35.00	33.4	1.7	116.93			
***** End Flow 1						
***** Start Shutin 1	0.00	33.4	0.0	116.93	0.0000	0.001
	0.50	33.4	0.0	116.93	71.0000	0.001
	1.00	33.4	0.0	116.95	36.0000	0.001
	1.50	33.4	-0.0	116.97	24.3333	0.001
	2.00	33.4	-0.0	116.98	18.5000	0.001
	2.50	33.4	-0.0	117.00	15.0000	0.001
	3.00	33.4	-0.0	117.01	12.6667	0.001
	3.50	33.0	-0.4	117.03	11.0000	0.001
	4.00	33.0	-0.4	117.05	9.7500	0.001
	4.50	33.0	-0.3	117.07	8.7778	0.001
	5.00	33.1	-0.3	117.08	8.0000	0.001
	5.50	33.1	-0.2	117.09	7.3636	0.001
	6.00	33.2	-0.2	117.11	6.8333	0.001
	6.50	33.2	-0.2	117.13	6.3846	0.001
	7.00	33.2	-0.1	117.14	6.0000	0.001
	7.50	33.3	-0.1	117.17	5.6667	0.001
	8.00	33.3	-0.1	117.19	5.3750	0.001
	8.50	33.3	-0.1	117.20	5.1176	0.001
	9.00	33.3	-0.0	117.22	4.8889	0.001
	9.50	33.4	-0.0	117.23	4.6842	0.001
	10.00	33.4	0.0	117.25	4.5000	0.001
	10.50	33.4	0.1	117.29	4.3333	0.001
	11.00	33.5	0.1	117.29	4.1818	0.001
	11.50	33.5	0.1	117.31	4.0435	0.001
	12.00	33.6	0.2	117.32	3.9167	0.001
	12.50	33.6	0.2	117.35	3.8000	0.001
	13.00	33.7	0.3	117.36	3.6923	0.001
	13.50	33.7	0.3	117.38	3.5926	0.001
	14.00	33.8	0.4	117.40	3.5000	0.001
	14.50	33.8	0.4	117.42	3.4138	0.001

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: J.O. Farmer #3 Renner DST # 2 TK. # 21769
DATE: 02/20/97 TIME: 08:26:47

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
15.00	33.9	0.5	117.44	3.3333	0.001
15.50	33.9	0.5	117.46	3.2581	0.001
16.00	34.0	0.6	117.48	3.1875	0.001
16.50	34.0	0.6	117.49	3.1212	0.001
17.00	34.1	0.7	117.51	3.0588	0.001
17.50	34.1	0.7	117.54	3.0000	0.001
18.00	34.2	0.8	117.55	2.9444	0.001
18.50	34.2	0.8	117.57	2.8919	0.001
19.00	34.2	0.8	117.59	2.8421	0.001
19.50	34.3	0.9	117.61	2.7949	0.001
20.00	34.3	0.9	117.63	2.7500	0.001
20.50	34.4	1	117.66	2.7073	0.001
21.00	34.4	1	117.67	2.6667	0.001
21.50	34.4	1.0	117.69	2.6279	0.001
22.00	34.5	1.1	117.71	2.5909	0.001
22.50	34.5	1.1	117.73	2.5556	0.001
23.00	34.5	1.1	117.75	2.5217	0.001
23.50	34.6	1.2	117.77	2.4894	0.001
24.00	34.6	1.2	117.79	2.4583	0.001
24.50	34.6	1.2	117.81	2.4286	0.001
25.00	34.7	1.3	117.83	2.4000	0.001
25.50	34.7	1.3	117.85	2.3725	0.001
26.00	34.7	1.3	117.86	2.3462	0.001
26.50	34.8	1.4	117.88	2.3208	0.001
27.00	34.8	1.4	117.91	2.2963	0.001
27.50	34.8	1.4	117.93	2.2727	0.001
28.00	34.9	1.5	117.95	2.2500	0.001
28.50	34.9	1.5	117.96	2.2281	0.001
29.00	35.0	1.6	117.98	2.2069	0.001
29.50	35.1	1.7	118.00	2.1864	0.001
30.00	35.1	1.7	118.03	2.1667	0.001
30.50	35.1	1.7	118.04	2.1475	0.001
31.00	35.2	1.8	118.06	2.1290	0.001
31.50	35.2	1.8	118.10	2.1111	0.001
32.00	35.2	1.8	118.10	2.0938	0.001
***** End Shut-in 1					
***** Start Flow 2					
0.00	32.9	0.0	118.12		
0.50	33.0	0.1	118.14		
1.00	33.1	0.2	118.17		
1.50	33.2	0.3	118.18		
2.00	33.2	0.3	118.20		
2.50	33.2	0.3	118.22		
3.00	33.2	0.3	118.25		
3.50	33.2	0.3	118.27		
4.00	33.2	0.3	118.29		
4.50	33.2	0.3	118.31		
5.00	33.2	0.3	118.32		
5.50	33.3	0.3	118.35		
6.00	33.3	0.3	118.37		
6.50	33.2	0.3	118.40		
7.00	33.2	0.3	118.41		
7.50	33.3	0.4	118.43		

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: J.O. Farmer #3 Renner DST # 2 TK. # 21769

DATE: 02/20/97 TIME: 08:26:47

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	8.00	33.3	0.4	118.45		
	8.50	33.3	0.4	118.47		
	9.00	33.3	0.4	118.49		
	9.50	33.3	0.4	118.52		
	10.00	33.3	0.4	118.53		
	10.50	33.3	0.3	118.56		
	11.00	33.3	0.3	118.58		
	11.50	33.3	0.4	118.59		
	12.00	33.3	0.4	118.61		
	12.50	33.3	0.4	118.64		
	13.00	33.3	0.4	118.66		
	13.50	33.3	0.4	118.67		
	14.00	33.3	0.4	118.71		
	14.50	33.3	0.4	118.73		
	15.00	33.3	0.4	118.73		
	15.50	33.3	0.4	118.76		
	16.00	33.3	0.4	118.78		
	16.50	33.3	0.4	118.80		
	17.00	33.3	0.4	118.81		
	17.50	33.3	0.4	118.83		
	18.00	33.3	0.4	118.86		
	18.50	33.4	0.4	118.88		
	19.00	33.4	0.4	118.90		
	19.50	33.4	0.4	118.91		
	20.00	33.4	0.4	118.94		
	20.50	33.4	0.4	118.95		
	21.00	33.3	0.4	118.98		
	21.50	33.3	0.4	119.00		
	22.00	33.3	0.4	119.01		
	22.50	33.4	0.5	119.04		
	23.00	33.4	0.5	119.05		
	23.50	33.4	0.5	119.07		
	24.00	33.4	0.5	119.10		
	24.50	33.4	0.5	119.12		
	25.00	33.4	0.4	119.13		
	25.50	33.4	0.4	119.16		
	26.00	33.4	0.4	119.19		
	26.50	33.4	0.5	119.22		
	27.00	33.4	0.5	119.23		
	27.50	33.4	0.5	119.26		
	28.00	33.4	0.5	119.27		
	28.50	33.4	0.5	119.29		
	29.00	33.4	0.5	119.31		
	29.50	33.4	0.5	119.33		
*****	End Flow 2	30.00	33.4	0.5	119.35	
*****	Start Shutin 2	0.00	33.4	0.0	119.35	0.0000
		0.50	33.4	0.0	119.37	131.0000
		1.00	33.4	0.0	119.39	66.0000
		1.50	33.4	0.0	119.42	44.3333
		2.00	33.4	0.0	119.43	33.5000
		2.50	33.1	-0.3	119.46	27.0000

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: J.O. Farmer #3 Renner DST # 2 TK. # 21769
 DATE: 02/20/97 TIME: 08:26:47

Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
3.00	33.0	-0.4	119.48	22.6667	0.001
3.50	33.1	-0.3	119.49	19.5714	0.001
4.00	33.1	-0.3	119.52	17.2500	0.001
4.50	33.1	-0.3	119.54	15.4444	0.001
5.00	33.1	-0.3	119.56	14.0000	0.001
5.50	33.1	-0.3	119.58	12.8182	0.001
6.00	33.2	-0.3	119.61	11.8333	0.001
6.50	33.2	-0.3	119.62	11.0000	0.001
7.00	33.2	-0.2	119.64	10.2857	0.001
7.50	33.2	-0.2	119.65	9.6667	0.001
8.00	33.3	-0.1	119.67	9.1250	0.001
8.50	33.3	-0.1	119.70	8.6471	0.001
9.00	33.3	-0.1	119.72	8.2222	0.001
9.50	33.3	-0.1	119.73	7.8421	0.001
10.00	33.3	-0.1	119.75	7.5000	0.001
10.50	33.4	-0.1	119.77	7.1905	0.001
11.00	33.4	-0.0	119.80	6.9091	0.001
11.50	33.4	-0.0	119.82	6.6522	0.001
12.00	33.4	-0.0	119.84	6.4167	0.001
12.50	33.5	0.0	119.86	6.2000	0.001
13.00	33.4	0.0	119.88	6.0000	0.001
13.50	33.5	0.1	119.89	5.8148	0.001
14.00	33.5	0.1	119.90	5.6429	0.001
14.50	33.5	0.1	119.94	5.4828	0.001
15.00	33.6	0.1	119.95	5.3333	0.001
15.50	33.6	0.2	119.97	5.1935	0.001
16.00	33.6	0.2	119.99	5.0625	0.001
16.50	33.6	0.2	120.01	4.9394	0.001
17.00	33.6	0.2	120.04	4.8235	0.001
17.50	33.6	0.2	120.04	4.7143	0.001
18.00	33.7	0.3	120.07	4.6111	0.001
18.50	33.7	0.3	120.08	4.5135	0.001
19.00	33.7	0.3	120.11	4.4211	0.001
19.50	33.8	0.3	120.13	4.3333	0.001
20.00	33.8	0.3	120.15	4.2500	0.001
20.50	33.8	0.4	120.17	4.1707	0.001
21.00	33.8	0.4	120.19	4.0952	0.001
21.50	33.9	0.4	120.20	4.0233	0.001
22.00	33.9	0.5	120.22	3.9545	0.001
22.50	33.9	0.5	120.23	3.8889	0.001
23.00	34.0	0.5	120.25	3.8261	0.001
23.50	34.0	0.5	120.27	3.7660	0.001
24.00	34.0	0.6	120.29	3.7083	0.001
24.50	34.1	0.7	120.31	3.6531	0.001
25.00	34.2	0.7	120.34	3.6000	0.001
25.50	34.2	0.7	120.35	3.5490	0.001
26.00	34.2	0.8	120.36	3.5000	0.001
26.50	34.2	0.8	120.38	3.4528	0.001
27.00	34.2	0.8	120.41	3.4074	0.001
27.50	34.2	0.8	120.42	3.3636	0.001
28.00	34.3	0.8	120.44	3.3214	0.001

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: J.O. Farmer #3 Renner DST # 2 TK. # 21769

DATE: 02/20/97 TIME: 08:26:47

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	28.50	34.3	0.9	120.46	3.2807	0.001
	29.00	34.3	0.9	120.48	3.2414	0.001
***** End Shut-in 2	29.50	34.4	0.9	120.50	3.2034	0.001
***** Final Hydro.	221.00	2109.7	0.0	120.86		

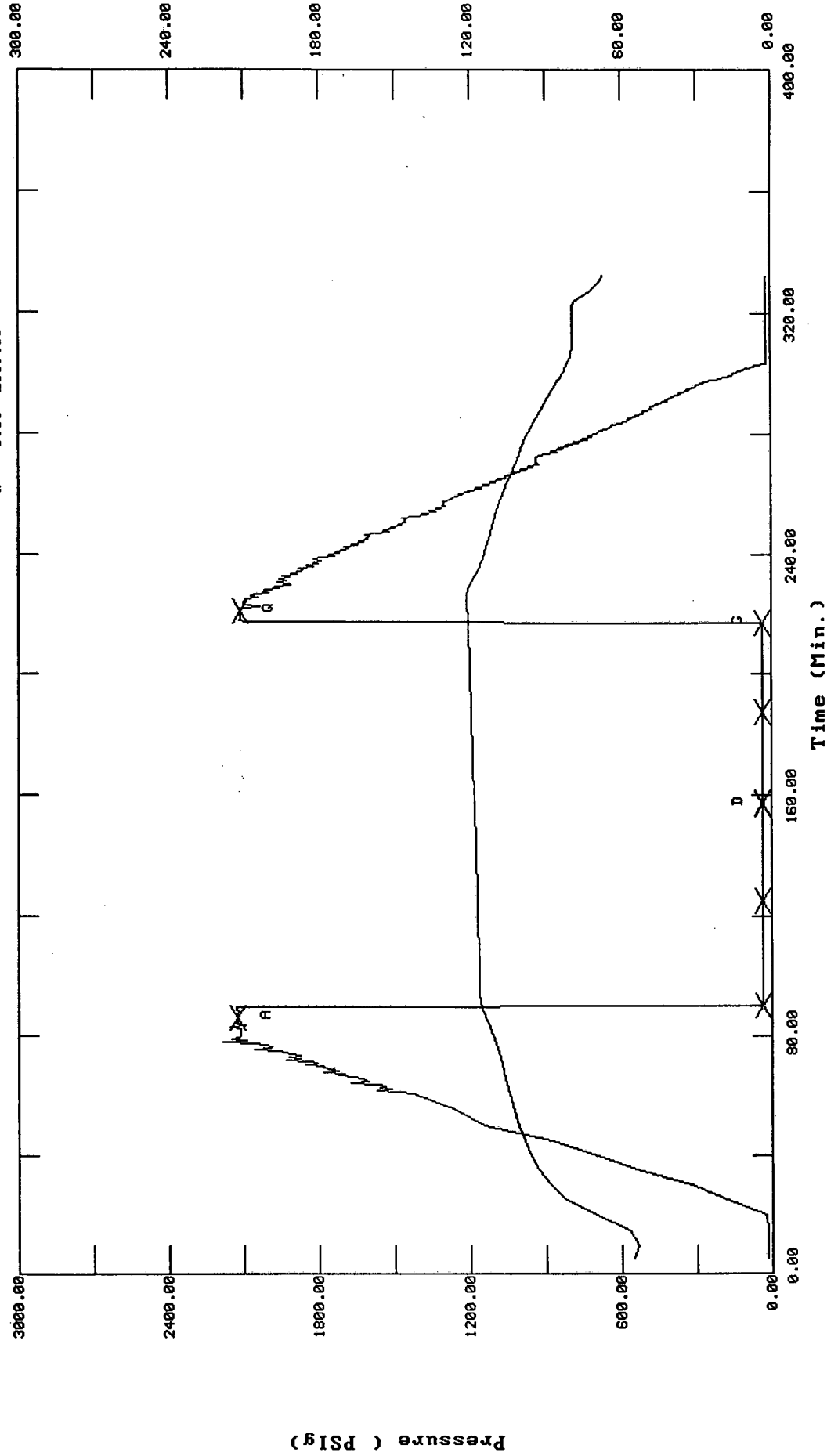
TEST HISTORY

J.O. Farmer #3 Renner DST # 2 TK. # 21769

Flag Points

t (Min.) P (PSig)

A:	0.00	2124.91
B:	0.00	31.73
C:	35.00	33.39
D:	32.00	35.19
E:	0.00	32.91
F:	30.00	33.43
G:	29.50	34.35
Q:	0.00	2109.65

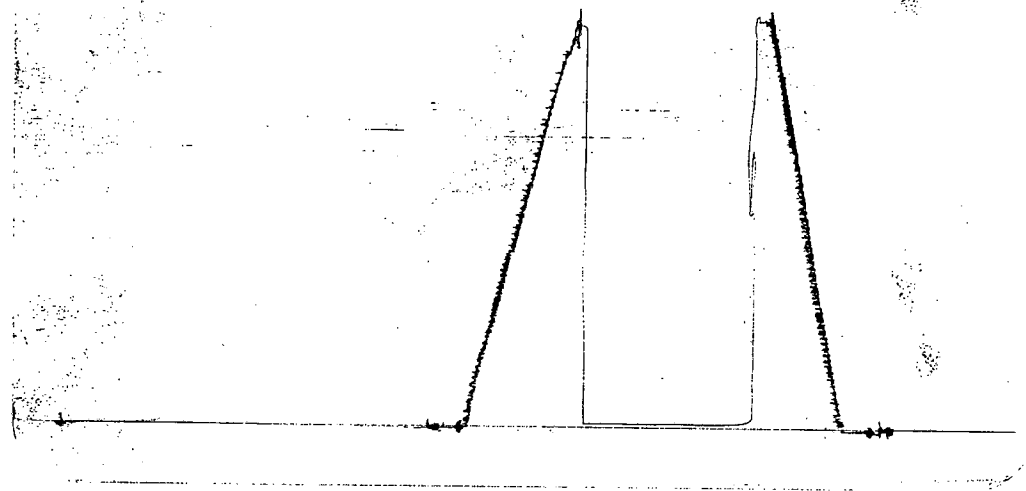


Temperature (DEG F)

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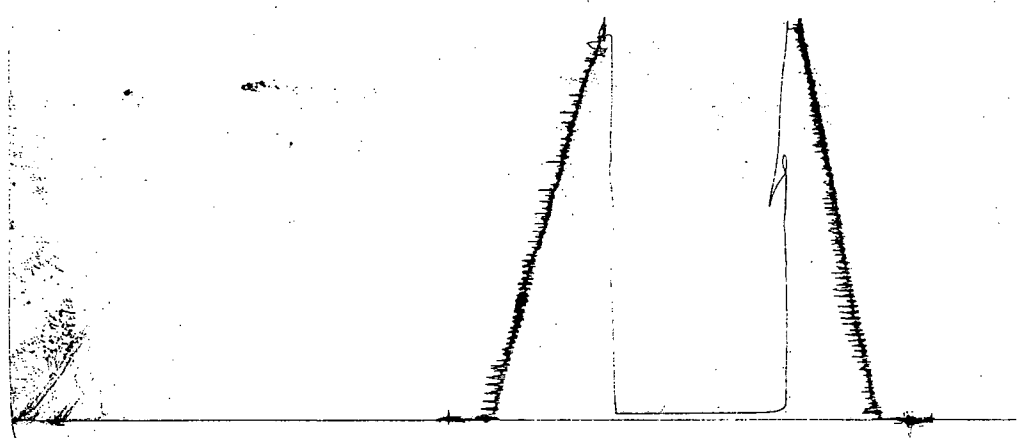
15-193-20657-0000

KT 21769 13SS1
dST#2



Inside Recorder

KT 21769 73268



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 2/21/97	TICKET : 21770
CUSTOMER : J O FARMER	LEASE : RENNER
WELL : #3	GEOLOGIST: STOLZH
ELEVATION: 3070 EST	FORMATION: PAWNEE
SECTION : 22	TOWNSHIP : 9S
RANGE : 32W	COUNTY: THOMAS
GAUGE SN#: 3026	STATE : KS
	RANGE : 5000
	CLOCK : 12
	TEST: 3

WELL INFORMATION

PERFORATION INTERVAL FROM: 4456.00 ft TO: 4494.00 ft TVD: 4692.0 ft
 DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
 DEPTH OF RECORDERS: 4459.0 ft 4462.0 ft
 TEMPERATURE: 133.0

DRILL COLLAR LENGTH: 0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH : 442.0 ft	I.D.:	3.200 in
DRILL PIPE LENGTH : 3994.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 25.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 38.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE : 0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE : 7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH: 4451.0 ft	SIZE:	6.750 in
PACKER DEPTH: 4456.0 ft	SIZE:	6.750 in
PACKER DEPTH: 4494.0 ft	SIZE:	6.750 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : ABERCROMBIE RIG 8	VISCOSITY : 48.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 9.200 cc
WEIGHT : 9.600 ppg	SERIAL NUMBER:
CHLORIDES : 1300 ppm	REVERSED OUT?: NO
JARS-MAKE :	
DID WELL FLOW?: NO	

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG ROLLING BLOW - BOTTOM OF BUCKET IN 1 MINUTE. FINAL FLOW PERIOD FAIR BLOW.

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DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
186.0	0.0	0.0	0.0	100.0	MUD
310.0	20.0	0.0	10.0	70.0	OIL CUT WATERY MUD
610.0	0.5	0.0	99.5	0.0	WATER W/FEW OIL SPOTS
0.0	0.0	0.0	0.0	0.0	OIL LESS THAN 1%
0.0	0.0	0.0	0.0	0.0	CHLORIDES 14000 PPM
0.0	0.0	0.0	0.0	0.0	RW .65 @ 60 DEGREES F

RATE INFORMATION

OIL VOLUME:	0.9034	STB	TOTAL FLOW TIME:	45.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	93.8414	STB/D
MUD VOLUME:	5.6526	STB	AVERAGE WATER RATE:	261.3914	STB/D
WATER VOLUME:	7.1539	STB			
TOTAL FLUID :	13.7099	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2289.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	387.00	397.00
INITIAL SHUT-IN	30.00		596.00
FINAL FLOW	15.00	481.00	481.00
FINAL SHUT-IN	30.00		533.00

FINAL HYDROSTATIC PRESSURE: 2185.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2248.80

Description	Duration	p1	p End
INITIAL FLOW	30.00	404.40	444.40
INITIAL SHUT-IN	30.00		555.80
FINAL FLOW	15.00	472.20	476.60
FINAL SHUT-IN	30.00		548.50

FINAL HYDROSTATIC PRESSURE: 2156.70

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: J.O. Farmer #3 Renner DST #3 TKT 21770
DATE: 02/21/97 TIME: 22:15:40

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	95.00	2248.8	0.0	120.06		
***** Start Flow 1	0.00	404.4	0.0	131.57		
	0.50	399.1	-5.2	132.31		
	1.00	396.4	-8.0	132.94		
	1.50	395.5	-8.9	133.50		
	2.00	396.1	-8.3	133.96		
	2.50	397.4	-7.0	134.33		
	3.00	399.0	-5.3	134.64		
	3.50	400.9	-3.5	134.89		
	4.00	402.6	-1.8	135.08		
	4.50	404.7	0.3	135.25		
	5.00	406.4	2.0	135.38		
	5.50	408.2	3.8	135.46		
	6.00	409.7	5.3	135.53		
	6.50	411.1	6.7	135.58		
	7.00	412.5	8.1	135.61		
	7.50	413.9	9.5	135.62		
	8.00	415.3	10.9	135.62		
	8.50	416.8	12.4	135.59		
	9.00	418.1	13.7	135.59		
	9.50	419.4	15.0	135.55		
	10.00	420.6	16.2	135.51		
	10.50	421.8	17.4	135.47		
	11.00	422.8	18.4	135.43		
	11.50	423.8	19.4	135.39		
	12.00	424.8	20.4	135.35		
	12.50	425.8	21.4	135.31		
	13.00	426.7	22.3	135.26		
	13.50	427.6	23.2	135.21		
	14.00	428.6	24.3	135.16		
	14.50	429.7	25.3	135.12		
	15.00	430.7	26.3	135.07		
	15.50	431.7	27.3	135.02		
	16.00	432.4	28.0	134.98		
	16.50	433.2	28.8	134.94		
	17.00	434.1	29.7	134.89		
	17.50	434.8	30.4	134.85		
	18.00	435.6	31.2	134.81		
	18.50	436.3	31.9	134.77		
	19.00	437.1	32.7	134.73		
	19.50	437.8	33.4	134.70		
	20.00	438.5	34.1	134.66		
	20.50	439.1	34.7	134.62		
	21.00	439.9	35.5	134.58		
	21.50	440.5	36.1	134.54		
	22.00	441.3	36.9	134.52		
	22.50	441.9	37.6	134.48		
	23.00	442.6	38.2	134.45		
	23.50	443.3	38.9	134.43		
	24.00	444.1	39.7	134.39		
***** End Flow 1	24.50	444.4	40.0	134.36		

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: J.O. Farmer #3 Renner DST #3 TKT 21770

DATE: 02/21/97 TIME: 22:15:40

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Start Shutin 1	0.00	444.4	0.0	134.36	0.0000	0.197
	0.50	448.1	3.7	134.33	50.0000	0.201
	1.00	451.5	7.1	134.30	25.5000	0.204
	1.50	454.6	10.2	134.29	17.3333	0.207
	2.00	457.5	13.1	134.25	13.2500	0.209
	2.50	460.3	16.0	134.23	10.8000	0.212
	3.00	463.1	18.7	134.22	9.1667	0.214
	3.50	465.7	21.3	134.20	8.0000	0.217
	4.00	468.2	23.8	134.19	7.1250	0.219
	4.50	470.7	26.3	134.18	6.4444	0.222
	5.00	473.1	28.7	134.18	5.9000	0.224
	5.50	475.5	31.1	134.17	5.4545	0.226
	6.00	477.8	33.4	134.17	5.0833	0.228
	6.50	480.0	35.6	134.17	4.7692	0.230
	7.00	482.2	37.9	134.17	4.5000	0.233
	7.50	484.4	40.0	134.17	4.2667	0.235
	8.00	486.5	42.1	134.17	4.0625	0.237
	8.50	488.6	44.2	134.18	3.8824	0.239
	9.00	490.6	46.2	134.18	3.7222	0.241
	9.50	492.6	48.2	134.18	3.5789	0.243
	10.00	494.6	50.2	134.17	3.4500	0.245
	10.50	496.6	52.2	134.18	3.3333	0.247
	11.00	498.5	54.1	134.18	3.2273	0.248
	11.50	500.3	56.0	134.18	3.1304	0.250
	12.00	502.2	57.8	134.18	3.0417	0.252
	12.50	504.0	59.6	134.17	2.9600	0.254
	13.00	505.8	61.4	134.18	2.8846	0.256
	13.50	507.6	63.2	134.19	2.8148	0.258
	14.00	509.3	64.9	134.18	2.7500	0.259
	14.50	511.0	66.7	134.17	2.6897	0.261
	15.00	512.7	68.4	134.18	2.6333	0.263
	15.50	514.4	70.0	134.17	2.5806	0.265
	16.00	516.1	71.7	134.17	2.5312	0.266
	16.50	517.7	73.3	134.17	2.4848	0.268
	17.00	519.3	74.9	134.16	2.4412	0.270
	17.50	520.9	76.5	134.16	2.4000	0.271
	18.00	522.5	78.1	134.15	2.3611	0.273
	18.50	524.0	79.6	134.15	2.3243	0.275
	19.00	525.5	81.2	134.15	2.2895	0.276
	19.50	527.1	82.7	134.14	2.2564	0.278
	20.00	528.6	84.2	134.12	2.2250	0.279
	20.50	530.0	85.7	134.12	2.1951	0.281
	21.00	531.5	87.2	134.11	2.1667	0.283
	21.50	533.0	88.6	134.11	2.1395	0.284
	22.00	534.4	90.1	134.11	2.1136	0.286
	22.50	535.8	91.5	134.09	2.0889	0.287
	23.00	537.3	92.9	134.08	2.0652	0.289
	23.50	538.7	94.3	134.08	2.0426	0.290
	24.00	540.1	95.7	134.06	2.0208	0.292
	24.50	541.4	97.1	134.05	2.0000	0.293
	25.00	542.8	98.4	134.04	1.9800	0.295

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: J.O. Farmer #3 Renner DST #3 TKT 21770
 DATE: 02/21/97 TIME: 22:15:40

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	25.50	544.1	99.8	134.02	1.9608	0.296
	26.00	545.4	101.1	134.01	1.9423	0.298
	26.50	546.8	102.4	134.00	1.9245	0.299
	27.00	548.1	103.7	133.99	1.9074	0.300
	27.50	549.4	105.0	133.97	1.8909	0.302
	28.00	550.7	106.4	133.96	1.8750	0.303
	28.50	552.0	107.6	133.94	1.8596	0.305
	29.00	553.3	108.9	133.93	1.8448	0.306
	29.50	554.5	110.2	133.92	1.8305	0.308
***** End Shut-in 1	30.00	555.8	111.4	133.90	1.8167	0.309
***** Start Flow 2	0.00	472.2	0.0	133.84		
	0.50	468.6	-3.6	133.81		
	1.00	467.9	-4.3	133.79		
	1.50	468.4	-3.8	133.82		
	2.00	469.0	-3.2	133.87		
	2.50	469.6	-2.6	133.90		
	3.00	470.2	-2.0	133.91		
	3.50	470.8	-1.4	133.92		
	4.00	471.2	-1	133.92		
	4.50	471.7	-0.5	133.90		
	5.00	472.1	-0.1	133.90		
	5.50	472.6	0.4	133.90		
	6.00	473.0	0.8	133.89		
	6.50	473.4	1.2	133.90		
	7.00	473.8	1.6	133.89		
	7.50	474.3	2.1	133.90		
	8.00	474.5	2.3	133.91		
	8.50	474.7	2.5	133.90		
	9.00	475.1	2.8	133.91		
	9.50	475.5	3.3	133.91		
	10.00	475.9	3.7	133.90		
	10.50	476.3	4.0	133.90		
***** End Flow 2	11.00	476.6	4.4	133.90		
***** Start Shutin 2	0.00	476.6	0.0	133.90	0.0000	0.227
	0.50	476.9	0.3	133.90	72.0000	0.227
	1.00	477.0	0.4	133.89	36.5000	0.228
	1.50	477.3	0.6	133.89	24.6667	0.228
	2.00	477.6	0.9	133.89	18.7500	0.228
	2.50	477.9	1.2	133.88	15.2000	0.228
	3.00	478.2	1.6	133.87	12.8333	0.229
	3.50	479.9	3.3	133.87	11.1429	0.230
	4.00	481.9	5.2	133.86	9.8750	0.232
	4.50	483.6	7.0	133.85	8.8889	0.234
	5.00	485.3	8.7	133.84	8.1000	0.235
	5.50	486.9	10.3	133.83	7.4545	0.237
	6.00	488.5	11.9	133.82	6.9167	0.239
	6.50	490.0	13.4	133.82	6.4615	0.240
	7.00	491.5	14.9	133.80	6.0714	0.242
	7.50	492.9	16.3	133.79	5.7333	0.243
	8.00	494.4	17.8	133.77	5.4375	0.244
	8.50	495.8	19.1	133.77	5.1765	0.246

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: J.O. Farmer #3 Renner DST #3 TKT 21770
DATE: 02/21/97 TIME: 22:15:40

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
9.00	497.1	20.5	133.76	4.9444	0.247
9.50	498.5	21.9	133.75	4.7368	0.249
10.00	499.8	23.2	133.74	4.5500	0.250
10.50	501.2	24.6	133.72	4.3810	0.251
11.00	502.4	25.8	133.71	4.2273	0.252
11.50	503.7	27.1	133.70	4.0870	0.254
12.00	505.0	28.4	133.69	3.9583	0.255
12.50	506.3	29.6	133.68	3.8400	0.256
13.00	507.5	30.9	133.68	3.7308	0.258
13.50	508.7	32.1	133.67	3.6296	0.259
14.00	509.9	33.3	133.66	3.5357	0.260
14.50	511.1	34.4	133.64	3.4483	0.261
15.00	512.2	35.6	133.64	3.3667	0.262
15.50	513.4	36.8	133.64	3.2903	0.264
16.00	514.6	38.0	133.63	3.2188	0.265
16.50	515.7	39.1	133.63	3.1515	0.266
17.00	516.8	40.2	133.61	3.0882	0.267
17.50	517.9	41.3	133.61	3.0286	0.268
18.00	519.1	42.5	133.60	2.9722	0.269
18.50	520.1	43.5	133.60	2.9189	0.271
19.00	521.3	44.6	133.59	2.8684	0.272
19.50	522.3	45.7	133.57	2.8205	0.273
20.00	523.4	46.8	133.57	2.7750	0.274
20.50	524.4	47.8	133.56	2.7317	0.275
21.00	525.5	48.9	133.56	2.6905	0.276
21.50	526.5	49.9	133.55	2.6512	0.277
22.00	527.6	51.0	133.54	2.6136	0.278
22.50	528.6	52.0	133.54	2.5778	0.279
23.00	529.6	53.0	133.52	2.5435	0.280
23.50	530.6	54.0	133.51	2.5106	0.282
24.00	531.6	55.0	133.52	2.4792	0.283
24.50	532.6	56.0	133.50	2.4490	0.284
25.00	533.6	57.0	133.50	2.4200	0.285
25.50	534.6	57.9	133.49	2.3922	0.286
26.00	535.5	58.9	133.48	2.3654	0.287
26.50	536.5	59.9	133.48	2.3396	0.288
27.00	537.5	60.8	133.47	2.3148	0.289
27.50	538.4	61.8	133.46	2.2909	0.290
28.00	539.3	62.7	133.45	2.2679	0.291
28.50	540.3	63.7	133.45	2.2456	0.292
29.00	541.2	64.6	133.45	2.2241	0.293
29.50	542.1	65.5	133.43	2.2034	0.294
30.00	543.1	66.5	133.42	2.1833	0.295
30.50	544.0	67.4	133.41	2.1639	0.296
31.00	544.9	68.3	133.41	2.1452	0.297
31.50	545.8	69.2	133.40	2.1270	0.298
32.00	546.7	70.1	133.40	2.1094	0.299
32.50	547.6	71.0	133.38	2.0923	0.300
33.00	548.5	71.9	133.38	2.0758	0.301
***** End Shut-in 2					
***** Final Hydro.	220.00	2156.7	0.0	132.05	

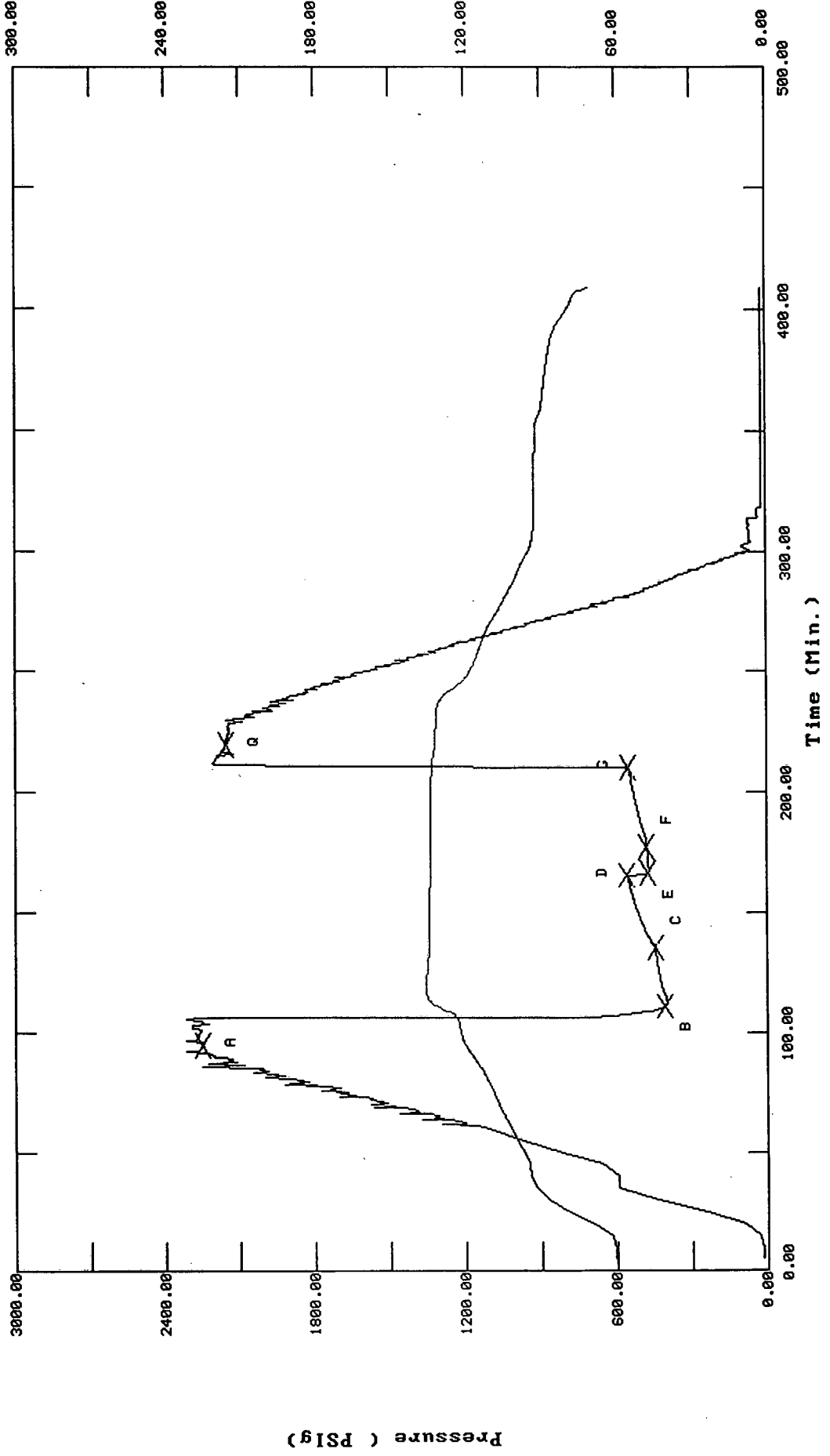
15-193-20657-00-00

TEST HISTORY

J.O. Farmer #3 Renner DST #3 TKT 21778

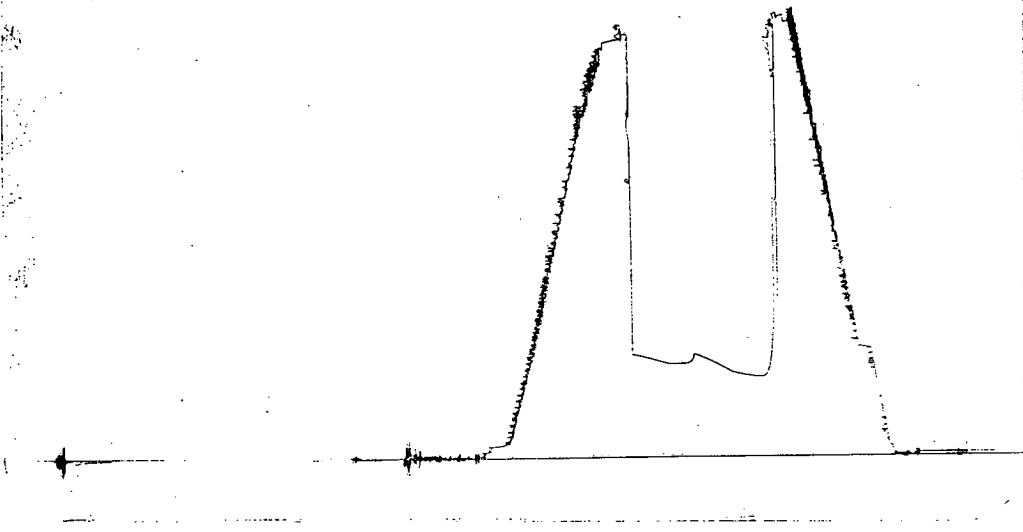
Flag Points

t (Min.)	P (PSig)
A: 0.00	2248.76
B: 0.00	404.39
C: 24.50	444.37
D: 30.00	555.80
E: 0.00	472.21
F: 11.00	476.61
G: 33.00	548.49
Q: 0.00	2156.74



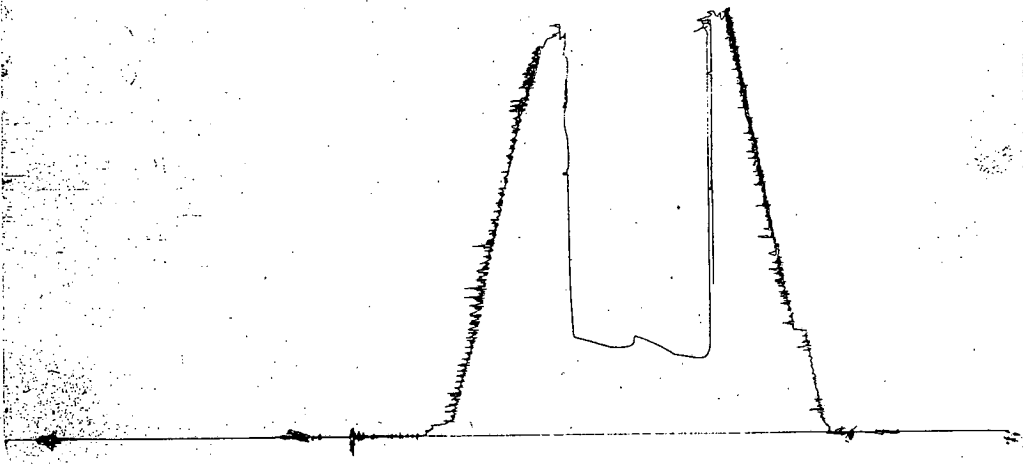
15-193-20657-00-00

21770 13551



Inside Recorder

21770 13268

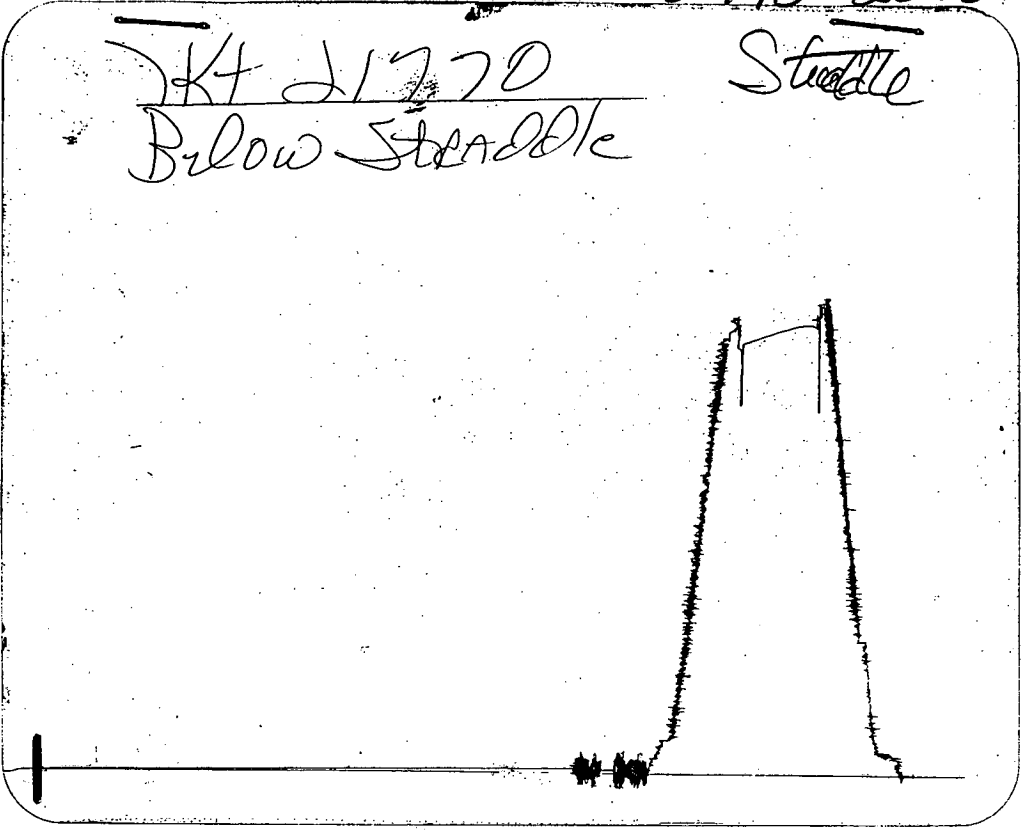


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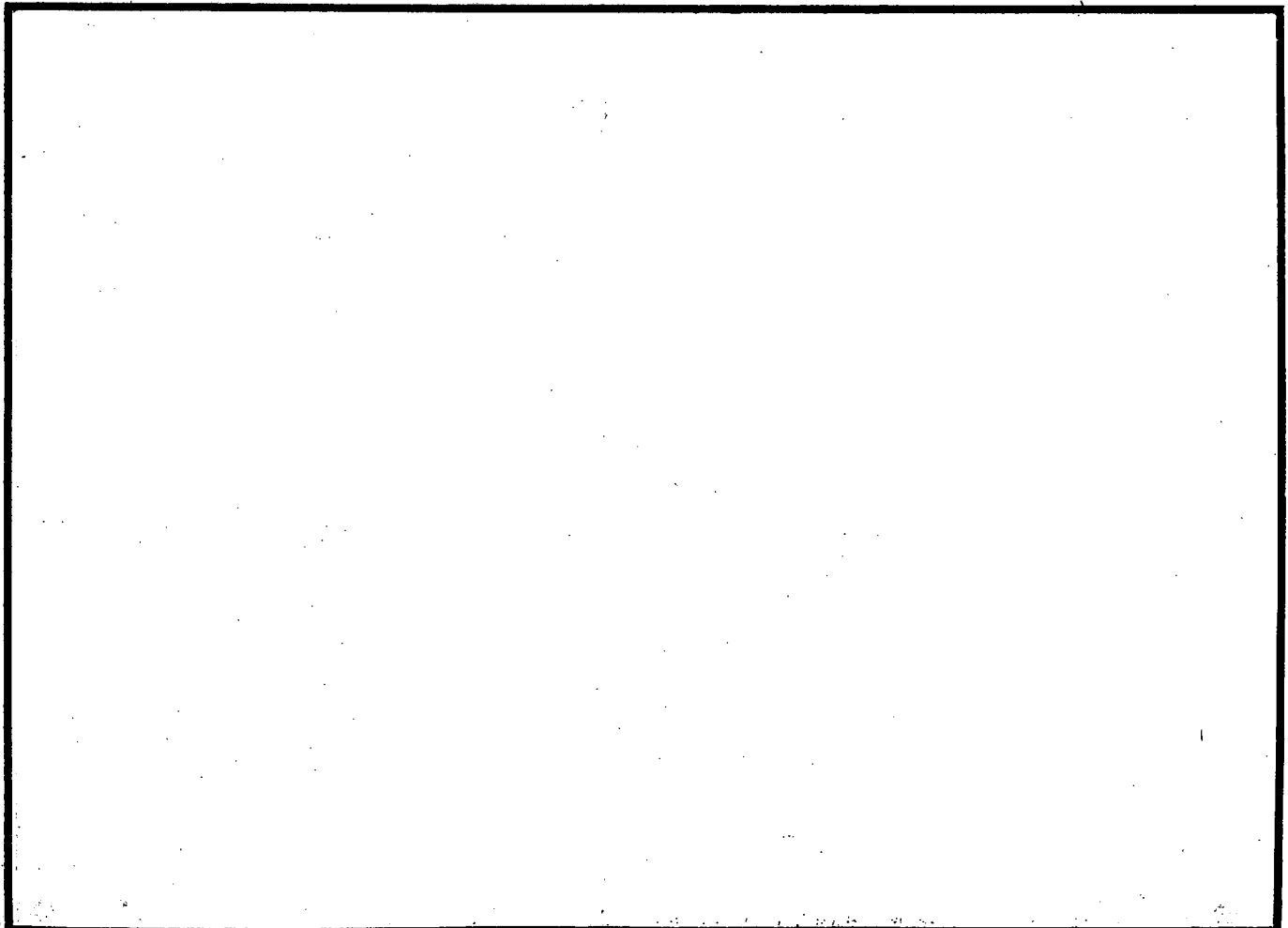
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KT 21770
Below Staddle

Staddle



Inside Recorder



Outside Recorder