FORM MUST BE TYPED **ORIGINAL** SIDE ONE **CONFIDENTIAL**

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

RELEASED
JAN 29 1999
FROM CONFIDENTIAL

API NO. 15- 193-20,665-00-00

County Thomas plugged 11-3-97

___ - S/2 - N/2 - SW Sec. 25 Twp. 10S Rge. 34 E X W

1650 Feet from (S)/N (circle one) Line of Section
1320 Feet from E/(W) (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE NW or (SW) (circle one)

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 (785) 483-3144

Contractor: Name: Abercrombie RTD, Inc.
License: 30684
Wellsite Geologist: Martin K. Dubois/John O. Farmer IV

Designate Type of Completion
X New Well ___ Re-Entry ___ Workover

___ Oil ___ SWD ___ SIOW ___ Temp. Abd.
___ Gas ___ ENHR ___ SIGW
X 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.

10-23-97 Spud Date
11-2-97 Date Reached TD
11-3-97 Completion Date

Lease Name Dumler Well # 1
Field Name (wildcat)
Producing Formation

Elevation: Ground 3162' KB 3167'
Total Depth 4745' PBTD

Amount of Surface Pipe Set and Cemented at 257 Feet

Multiple Stage Cementing Collar Used? ___ Yes X 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, 7-7-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 30,000 ppm Fluid volume 1,800 bbls
Dewatering method used evaporation

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

Operator Name K.C.C.
Lease Name NOV 20 License No.
Quarter Sec. CONFIDENTIAL Twp. S Rng. E/W
County Docket No.

11-24-97 L

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 atached 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

Title President Date 11-20-97

Subscribed and sworn to before me this 20th day of November, 19 97.

Notary Public Margaret A. Schulte
Margaret A. Schulte

Date Commission Expires

NOTARY PUBLIC - State of Kansas
MARGARET A. SCHULTE
My Appt. Exp. 1-27-2001

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)

Form ACO-1 (7-91)

SIDE TWO

ORIGINAL

Operator Name John O. Farmer, Inc. Lease Name Dumler Well # 1

Sec. 25 Twp. 10S Rge. 34 ☐ East ☒ West County Thomas

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.) ☒ Yes ☐ No

Samples Sent to Geological Survey ☒ Yes ☐ No

Cores Taken ☐ Yes ☒ No

Electric Log Run (Submit Copy.) ☒ Yes ☐ No

List All E.Logs Run:

Radiation Guard Log, Borehole Compensated Sonic Log

☒ Log	Formation (Top), Depth and Datums	☐ Sample
Name	Top	Datum
Base/Anhydrite	2674'	(+493)
Wabaunsee	3696'	(-529)
Heebner	4050'	(-883)
Lansing	4093'	(-926)
Stark	4320'	(-1153)
Pawnee	4513'	(-1346)
Cherokee	4594'	(-1427)
Johnson	4640'	(-1473)
Mississippi	4708'	(-1541)
L.T.D.	4750'	(-1583)

CASING RECORD ☒ New ☐ 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#	257'	60/40 Pozmix	180	4% C.C., 2% gel

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top	Depth Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate					
___ Protect Casing					
___ Plug Back TD					
___ 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

TUBING RECORD Size Set At Packer At Liner Run ☐ Yes ☐ No

Date of First, Resumed Production, SWD or Inj. D&A Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	N-A				

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. 8610

Federal Tax I.D.# [redacted] 15-193-20665-00-00

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

ORIGINAL

SERVICE POINT: Oakley

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
10-23-97	25	10	34		7:00 PM		8:00 PM

LEASE	WELL #	LOCATION	COUNTY	STATE
Dumler	1	Monument 1½W-3N-½W	Thomas	Kan.

OLD OR (NEW) (Circle one)

CONTRACTOR Abercrombie RTD #8
TYPE OF JOB Surface
HOLE SIZE 12¼ T.D. 262'
CASING SIZE 8⅝ DEPTH 257'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT

OWNER Same

CEMENT
AMOUNT ORDERED 180 sks 60/40 por 4%cc-2%gel

COMMON	108 sks	@ 7.55	815.40
POZMIX	72 sks	@ 3.25	234.00
GEL	3 sks	@ 9.50	28.50
CHLORIDE	8 sks	@ 28.00	224.00
		@	
		@	
		@	
		@	
		@	
HANDLING	180 sks	@ 1.05	189.00
MILEAGE	44 per sk/mile		100.00
		TOTAL	1,590.90

EQUIPMENT

PUMP TRUCK CEMENTER Walt
102 HELPER Walt
BULK TRUCK
212 DRIVER Lonnie
BULK TRUCK
DRIVER

CONFIDENTIAL

REMARKS:

Cement Did Circ.

SERVICE

DEPTH OF JOB	257'		
PUMP TRUCK CHARGE			470.00
EXTRA FOOTAGE		@	
MILEAGE	13-miles	@ 2.85	37.05
PLUG	8⅝ Surface	@	45.00
		@	
		@	
		TOTAL	552.05

CHARGE TO: John O. Farmer
STREET P.O. Box 352
CITY Russell STATE Kan. ZIP 67665

FLOAT EQUIPMENT

	@	
	@	
	@	RELEASED
	@	
	@	JAN 29 1999
	TOTAL	

FROM CONFIDENTIAL

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.

NOV 20

CONFIDENTIAL

TAX
TOTAL CHARGE
DISCOUNT IF PAID IN 30 DAYS

SIGNATURE Anthony Ward

PRINTED NAME

RECEIVED
KANSAS CORPORATION COMMISSION
NOV 20 1997
CONSERVATION DIVISION

ALLIED CEMENTING CO., INC. 8613

Federal Tax I.D.# [redacted] 15-193-20665-00-00

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

ORIGINAL

SERVICE POINT: Oakley

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
11-3-97	25	10 S	34 W		2:45 AM	4:15 AM	7:30 AM

LEASE	WELL #	LOCATION	COUNTY	STATE
Dumler	1	Monument 2W-3N-½W	Thomas	Kan

OLD OR (NEW) (Circle one)

CONTRACTOR Abercrombie RTD #8
TYPE OF JOB PTA
HOLE SIZE 7⅞ T.D. 4745'
CASING SIZE DEPTH
TUBING SIZE DEPTH
DRILL PIPE 4½ XH DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT

OWNER Same

CEMENT

AMOUNT ORDERED 190 sks 60/40 poz 6% Gel ¼# Flo-Seal

EQUIPMENT

PUMP TRUCK CEMENTER Walt
102 HELPER Lonnie
BULK TRUCK
212 DRIVER Andrew
BULK TRUCK
DRIVER

COMMON	114 sks	@ 7.55	860.70
POZMIX	76 sks	@ 3.25	247.00
GEL	10 sks	@ 9.50	95.00
CHLORIDE		@	
Flo-Seal	48#	@ 1.15	55.20
		@	
		@	
		@	
HANDLING	190 sks	@ 1.05	199.50
MILEAGE	4¢ per sk/mile		100.00
		TOTAL	1,557.40

CONFIDENTIAL

REMARKS:

25 sks @ 2660'
100 sks @ 1650'
40 sks @ 300'
10 sks @ 40'
15 sks in R.H.

Thank You

SERVICE

DEPTH OF JOB	2660'		
PUMP TRUCK CHARGE			580.00
EXTRA FOOTAGE		@	
MILEAGE	13 miles	@ 2.85	37.05
PLUG	8⅝ D.H.	@	23.00
		@	
RELEASED		@	
JAN 29 1999		TOTAL	640.05

CHARGE TO: John O. Farmer
STREET Box 352
CITY Russell STATE Kansas ZIP 67665

FROM CONFIDENTIAL

FLOAT EQUIPMENT

		@	
		@	
		@	
		@	
		@	
		TOTAL	

KCC
NOV 20
CONFIDENTIAL

TAX
TOTAL CHARGE
DISCOUNT IF PAID IN 30 DAYS

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.

SIGNATURE Anthony Martin

Anthony Martin
PRINTED NAME

CONFIDENTIAL

DST Information

15-193-20665-00-00

WELL NAME: Dumler #1
COMPANY: John O Farmer, Inc.
LOCATION: 25-10S-34W
Thomas County Kansas
DATE: 11/03/97

ORIGINAL

RELEASED
JAN 29 1999
FROM CONFIDENTIAL

KCC
NOV 20
CONFIDENTIAL

RECEIVED
KANSAS CORP COMM
NOV 24 P 2 11

TRILOBITE TESTING L.L.C.

OPERATOR : John O Farmer,Inc
WELL NAME: Dumler #1
LOCATION : 25-10S-34W Thomas Co Ks
INTERVAL : 4292.00 To 4315.00 ft

DATE 10-30-97
KB 3167.00 ft TICKET NO: 10705 DST #1
GR 3162.00 ft FORMATION: Lansing KC "J"
TD 4315.00 ft TEST TYPE: CONV

RECORDER DATA

	Mins		Field	1	2	3	4
PF	30	Rec.	13754	13754	3227		
SI	30	Range(Psi)	4000.0	4000.0	4985.0	0.0	0.0
SF	30	Clock(hrs)	12 hr	12 hr	Elec		
FS	30	Depth(ft)	4312.0	4312.0	4296.0	0.0	0.0

TIME DATA----------
PF Fr. 2040 to 2110 hr
IS Fr. 2110 to 2140 hr
SF Fr. 2140 to 2210 hr
FS Fr. 2210 to 2240 hr

	Field	1	2	3	4
A. Init Hydro	2107.0	2083.0	2104.0	0.0	0.0
B. First Flow	9.0	26.0	20.0	0.0	0.0
B1. Final Flow	19.0	37.0	39.0	0.0	0.0
C. In Shut-in	976.0	982.0	1010.0	0.0	0.0
D. Init Flow	39.0	59.0	42.0	0.0	0.0
E. Final Flow	59.0	68.0	57.0	0.0	0.0
F. Fl Shut-in	887.0	878.0	901.0	0.0	0.0
G. Final Hydro	2046.0	2063.0	2050.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 1833 hr
T ON BOTM 2038 hr
T OPEN 2040 hr
T PULLED 2240 hr
T OUT 0100 hr

RECOVERY
Tot Fluid 80.00 ft of 0.00 ft in DC and 80.00 ft in DP
20.00 ft of Mud Cut Oil
0.00 ft of 20%mud 80%oil
60.00 ft of Oil Cut Mud
0.00 ft of 20%oil 80%mud
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

TOOL DATA----------

Tool Wt.	1000.00 lbs
Wt Set On Packer	30000.00 lbs
Wt Pulled Loose	50000.00 lbs
Initial Str Wt	42000.00 lbs
Unseated Str Wt	42000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	0.00 in
D. Pipe ID	3.80 in
D.C. Length	0.00 ft
D.P. Length	4288.00 ft
H.W. I.D	2.70 in
H.W. Length	598.00 ft

MUD DATA----------

Mud Type	Chemical
Weight	9.30 lb/cf
Vis.	45.00 S/L
W.L.	12.00 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	116.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Dan Bangle
Co. Rep.	Martin Dubois
Contr.	Abercrombie
Rig #	8
Unit #	
Pump T.	

BLOW DESCRIPTION
Hit bridge @ 2645

Initial blow - Weak building to 1"

Final blow - Weak died in 20 min

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV 15-193-20665-00-00

WELL NAME: Dumler #1

LOCATION : 25-10-34-Thomas Co Ks

TICKET No. 10705 D.S.T. No. 1 DATE 10-30-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 23

TOTAL TOOL 43

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 43

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands69 Single 1 Total 4288

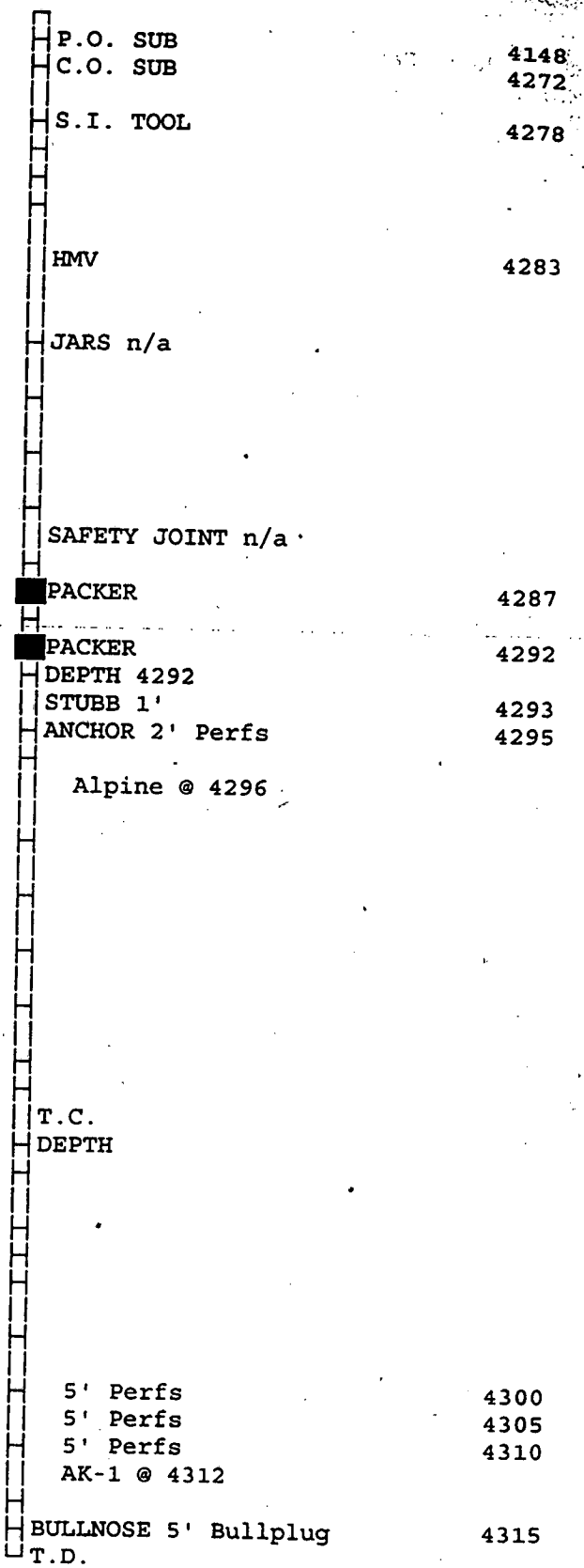
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4331

TOTAL DEPTH 4315

TOTAL DRILL PIPE ABOVE K.B. 16

REMARKS:

Hit bridge @ 2645



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk #10705 DST #1 Dumler #1 John O Farmer Inc

DATE: 10/30/97 TIME: 18:33:58

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	125.00	2103.8	0.0	107.55		
****** Start Flow 1	0.00	20.5	0.0	109.40		
	1.00	16.8	-3.6	109.53		
	2.00	18.8	-1.6	109.59		
	3.00	20.4	-0.1	109.61		
	4.00	21.4	0.9	109.62		
	5.00	22.6	2.1	109.65		
	6.00	23.5	3.0	109.77		
	7.00	24.3	3.8	110.00		
	8.00	25.0	4.6	110.29		
	9.00	26.1	5.6	110.57		
	10.00	27.1	6.6	110.82		
	11.00	27.8	7.4	111.05		
	12.00	28.6	8.2	111.24		
	13.00	29.3	8.9	111.40		
	14.00	30.0	9.6	111.54		
	15.00	30.7	10.2	111.66		
	16.00	31.5	11.0	111.74		
	17.00	32.1	11.6	111.81		
	18.00	32.7	12.3	111.85		
	19.00	33.3	12.8	111.86		
	20.00	34.0	13.5	111.85		
	21.00	34.6	14.1	111.82		
	22.00	35.3	14.8	111.79		
	23.00	35.8	15.3	111.77		
	24.00	36.4	15.9	111.76		
	25.00	36.9	16.4	111.76		
	26.00	37.4	16.9	111.76		
	27.00	38.0	17.5	111.78		
	28.00	38.6	18.1	111.80		
****** End Flow 1	29.00	39.0	18.5	111.82		
****** Start Shutin 1	0.00	39.0	0.0	111.82	0.0000	0.002
	1.00	43.1	4.2	111.86	30.0000	0.002
	2.00	55.9	17.0	111.91	15.5000	0.003
	3.00	73.3	34.3	111.98	10.6667	0.005
	4.00	99.4	60.5	112.05	8.2500	0.01
	5.00	141.5	102.5	112.13	6.8000	0.020
	6.00	215.0	176.1	112.19	5.8333	0.046
	7.00	331.9	292.9	112.26	5.1429	0.110
	8.00	454.4	415.4	112.32	4.6250	0.206
	9.00	547.6	508.7	112.39	4.2222	0.300
	10.00	614.9	575.9	112.45	3.9000	0.378
	11.00	672.7	633.8	112.52	3.6364	0.453
	12.00	717.7	678.8	112.59	3.4167	0.515
	13.00	755.3	716.4	112.63	3.2308	0.571
	14.00	786.1	747.2	112.68	3.0714	0.618
	15.00	813.0	774.0	112.72	2.9333	0.661
	16.00	836.0	797.0	112.76	2.8125	0.699
	17.00	854.2	815.2	112.80	2.7059	0.730
	18.00	873.9	834.9	112.83	2.6111	0.764
	19.00	890.8	851.8	112.86	2.5263	0.794

15-193-20665-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

'EST: Tk #10705 DST #1 Dumler #1 John O Farmer Inc

)ATE: 10/30/97 TIME: 18:33:58

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	20.00	906.1	867.1	112.89	2.4500	0.821
	21.00	920.2	881.2	112.92	2.3810	0.847
	22.00	933.9	895.0	112.94	2.3182	0.872
	23.00	944.6	905.6	112.97	2.2609	0.892
	24.00	957.2	918.2	112.99	2.2083	0.916
	25.00	966.8	927.9	113.02	2.1600	0.935
	26.00	974.5	935.5	113.04	2.1154	0.950
	27.00	984.8	945.9	113.06	2.0741	0.970
	28.00	994.2	955.3	113.08	2.0357	0.988
	29.00	1002.1	963.2	113.10	2.0000	1.004
	30.00	1009.0	970.0	113.12	1.9667	1.018
**** End Shut-in 1	31.00	1010.1	971.1	113.14	1.9355	1.020
**** Start Flow 2	0.00	41.7	0.0	113.13		
	1.00	42.4	0.7	113.10		
	2.00	42.9	1.2	113.12		
	3.00	43.6	1.9	113.19		
	4.00	44.3	2.6	113.33		
	5.00	45.2	3.5	113.50		
	6.00	45.7	4.0	113.70		
	7.00	46.3	4.6	113.92		
	8.00	47.0	5.2	114.14		
	9.00	47.4	5.6	114.29		
	10.00	47.9	6.2	114.45		
	11.00	48.4	6.7	114.60		
	12.00	49.0	7.2	114.73		
	13.00	49.4	7.7	114.86		
	14.00	50.0	8.3	114.97		
	15.00	50.3	8.6	115.07		
	16.00	50.8	9.0	115.16		
	17.00	51.2	9.5	115.25		
	18.00	51.7	9.9	115.32		
	19.00	52.1	10.4	115.38		
	20.00	52.6	10.9	115.43		
	21.00	53.0	11.3	115.47		
	22.00	53.4	11.6	115.50		
	23.00	53.8	12.1	115.53		
	24.00	54.2	12.5	115.56		
	25.00	54.5	12.8	115.59		
	26.00	55.0	13.3	115.62		
	27.00	55.3	13.6	115.64		
	28.00	55.7	14.0	115.66		
	29.00	56.2	14.4	115.68		
**** End Flow 2	30.00	56.6	14.9	115.70		
**** Start Shutin 2	0.00	56.6	0.0	115.70	0.0000	0.003
	1.00	65.1	8.5	115.72	60.0000	0.004
	2.00	77.1	20.5	115.74	30.5000	0.006
	3.00	92.0	35.4	115.75	20.6667	0.008
	4.00	111.1	54.5	115.78	15.7500	0.012
	5.00	136.3	79.8	115.81	12.8000	0.019
	6.00	171.1	114.5	115.84	10.8333	0.029
	7.00	219.6	163.0	115.87	9.4286	0.048

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk #10705 DST #1 Dumler #1 John O Farmer Inc

DATE: 10/30/97 TIME: 18:33:58

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	8.00	284.9	228.3	115.90	8.3750	0.081
	9.00	361.8	305.2	115.94	7.5556	0.131
	10.00	437.7	381.1	115.97	6.9000	0.192
	11.00	501.2	444.7	116.00	6.3636	0.251
	12.00	554.6	498.1	116.04	5.9167	0.308
	13.00	600.0	543.4	116.07	5.5385	0.360
	14.00	640.8	584.3	116.10	5.2143	0.411
	15.00	676.0	619.4	116.13	4.9333	0.457
	16.00	703.6	647.0	116.17	4.6875	0.495
	17.00	730.7	674.1	116.20	4.4706	0.534
	18.00	753.6	697.0	116.23	4.2778	0.568
	19.00	773.7	717.1	116.26	4.1053	0.599
	20.00	791.9	735.3	116.28	3.9500	0.627
	21.00	807.3	750.7	116.31	3.8095	0.652
	22.00	822.3	765.7	116.33	3.6818	0.676
	23.00	836.1	779.5	116.36	3.5652	0.699
	24.00	848.7	792.1	116.38	3.4583	0.720
	25.00	860.6	804.0	116.39	3.3600	0.741
	26.00	871.6	815.1	116.41	3.2692	0.760
	27.00	882.2	825.7	116.43	3.1852	0.778
	28.00	891.9	835.3	116.44	3.1071	0.795
****** End Shut-in 2	29.00	901.4	844.8	116.46	3.0345	0.812
****** Final Hydro.	252.00	2050.4	0.0	116.56		

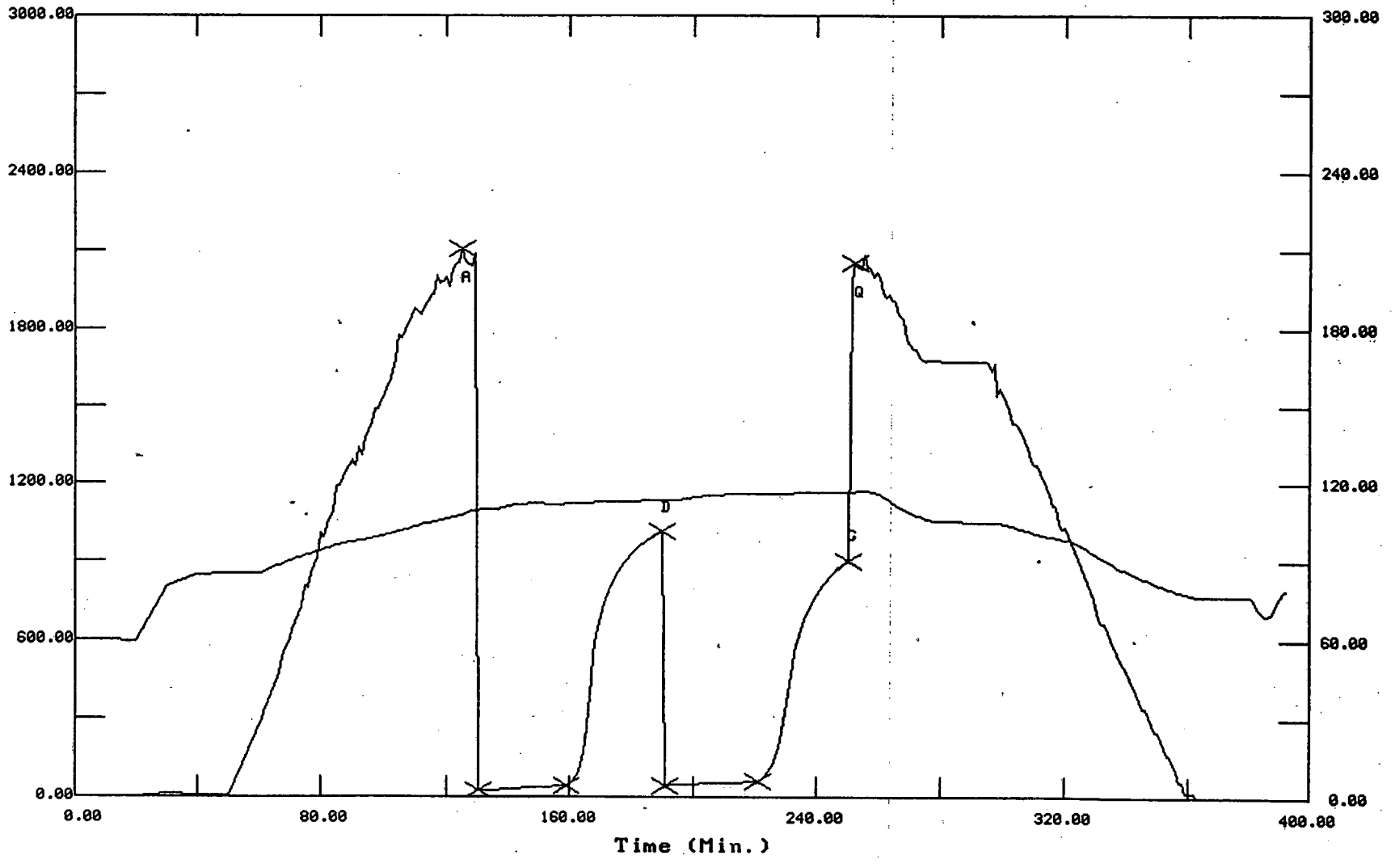
15-193-20665-00-00

TEST HISTORY

TR #10705 DST #1 Dumler #1 John O Farmer Inc

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2103.77
B:	0.00	20.47
C:	29.00	38.96
D:	31.00	1010.08
E:	0.00	41.72
F:	30.00	56.58
G:	29.00	901.37
Q:	0.00	2050.35



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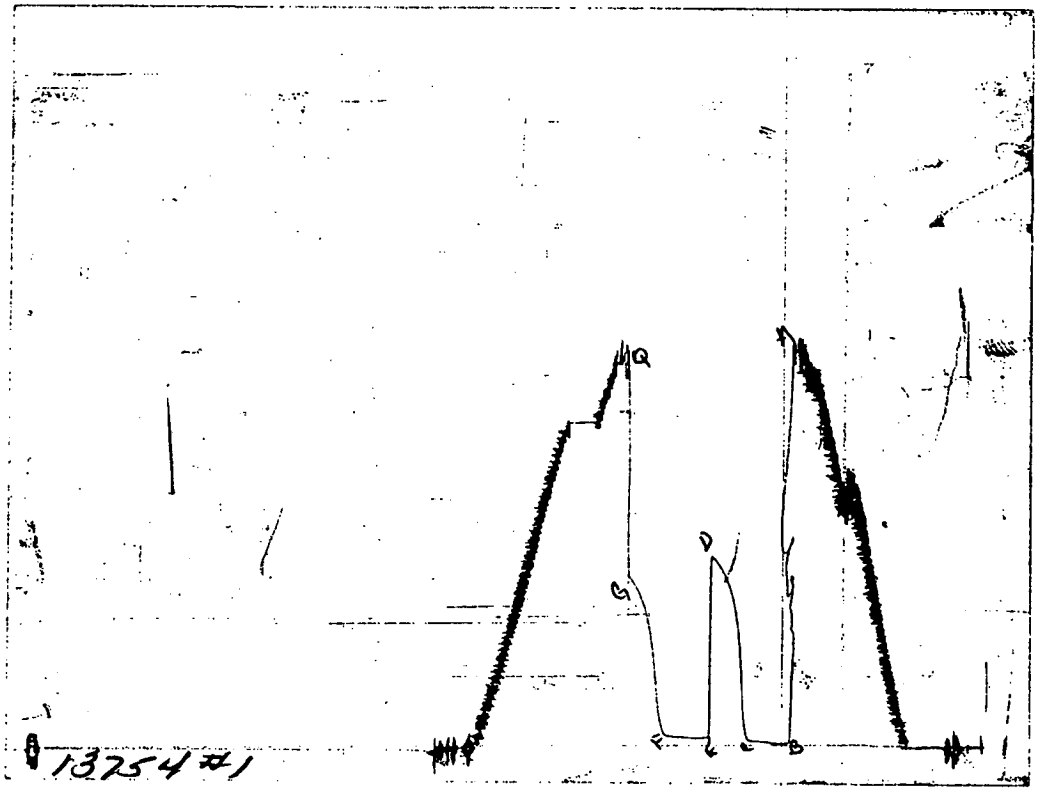


This is a photocopy of the actual AK-1 recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

15-193-20665-00-00

Test Ticket

№ 10705

Well Name & No. Dumler #1 Test No. 1 Date 10-30-97

Company John O. Farmer, Inc. Zone Tested "J" LKC

Address P.O. Box 352, Russell, Ks. 67665 Elevation 3167 KB 3162 GL

Co. Rep / Geo. Martin Dubois Cont. Abercrombie #8 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 25 Twp. 10 Rge. 34 Co. Thomas State Ks

No. of Copies Std Distribution Sheet (Y, N) ____ Turnkey (Y, N) ____ Evaluation (Y, N) ____

Interval Tested 4292 - 4315 Initial Str Wt./Lbs. 42,000 Unseated Str Wt./Lbs. 42,000

Anchor Length 23 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 50,000

Top Packer Depth 4287 Tool Weight 1000

Bottom Packer Depth 4292 Hole Size — 7 7/8" ____ Rubber Size — 6 3/4" ____

Total Depth 4315 Wt. Pipe Run 598 Drill Collar Run ____

Mud Wt. 9.3 LCM TR Vis. 45 WL 12 Drill Pipe Size 4.5 XH Ft. Run 4288

Blow Description Hit bridge @ 2645 I.F. weak - building to 1"

F.F. Weak - Died in 20 min.

Recovery — Total Feet 80 GIP ____ Ft. in DC ____ Ft. in DP 80

Rec. 20	Feet Of MCO	%gas	80	%oil	%water	20	%mud
Rec. 60	Feet Of OCM	%gas	20	%oil	%water	80	%mud
Rec. ____	Feet Of ____	%gas		%oil	%water		%mud
Rec. ____	Feet Of ____	%gas		%oil	%water		%mud
Rec. ____	Feet Of ____	%gas		%oil	%water		%mud

BHT 116 °F Gravity ____ °API D@ ____ °F Corrected Gravity ____ °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery Chlorides 6500 ppm System

(A) Initial Hydrostatic Mud	2107	2104	PSI	Recorder No.	3227	T-Started	18:33
(B) First Initial Flow Pressure	9	20	PSI	(depth)	4296	T-Open	20:40
(C) First Final Flow Pressure	19	39	PSI	Recorder No.	13754	T-Pulled	22:40
(D) Initial Shut-in Pressure	976	1010	PSI	(depth)	4312	T-Out	01:00
(E) Second Initial Flow Pressure	39	42	PSI	Recorder No.	____		
(F) Second Final Flow Pressure	59	57	PSI	(depth)	____		
(G) Final Shut-in Pressure	887	901	PSI	Initial Opening	30	Test	____
(H) Final Hydrostatic Mud	2046	2050	PSI	Initial Shut-in	30	Jars	____
	AK-1	Alpine		Final Flow	30	Safety Joint	____
				Final Shut-in	30	Straddle	____
				____		Circ. Sub	____
				____		Sampler	____
						Extra Packer	____
						Elect. Rec.	X
						Other	____
						TOTAL PRICE $	____

Approved By ____

Our Representative Dan Sample

TRILOBITE TESTING L.L.C.

OPERATOR : John O Farmer, Inc. DATE 11-1-97
WELL NAME: Dumler #1 KB 3167.00 ft TICKET NO: 10706 DST #2
LOCATION : 25-10S-34W Thomas Co Ks GR 3162.00 ft FORMATION: Johnson
INTERVAL : 4613.00 To 4655.00 ft TD 4655.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	13754	13754	3227		
SI 30	Range(Psi)	4000.0	4000.0	4985.0	0.0	0.0
SF 30	Clock(hrs)	12 hr	12 hr	Elec		
FS 30	Depth(ft)	4652.0	4652.0	4619.0	0.0	0.0

TIME DATA----------
PF Fr. 2115 to 2145 hr
IS Fr. 2145 to 2215 hr
SF Fr. 2215 to 2245 hr
FS Fr. 2245 to 2315 hr

	Field	1	2	3	4
A. Init Hydro	2380.0	2348.0	2306.0	0.0	0.0
B. First Flow	29.0	36.0	16.0	0.0	0.0
B1. Final Flow	29.0	38.0	19.0	0.0	0.0
C. In Shut-in	49.0	64.0	46.0	0.0	0.0
D. Init Flow	29.0	44.0	17.0	0.0	0.0
E. Final Flow	29.0	40.0	18.0	0.0	0.0
F. Fl Shut-in	49.0	58.0	38.0	0.0	0.0
G. Final Hydro	2299.0	2328.0	2297.0	0.0	0.0
Inside/Outside		O	O	I	

T STARTED 1930 hr
T ON BOTM 2113 hr
T OPEN 2115 hr
T PULLED 2315 hr
T OUT 0115 hr

RECOVERY
Tot Fluid 3.00 ft of 0.00 ft in DC and 3.00 ft in DP
3.00 ft of Mud w/ few oil spots
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

Initial blow:
Weak steady surface blow

Final blow:
No blow

SAMPLES:
SENT TO:

Test Successful: Y

TOOL DATA----------

Tool Wt.	1000.00 lbs
Wt Set On Packer	30000.00 lbs
Wt Pulled Loose	60000.00 lbs
Initial Str Wt	42000.00 lbs
Unseated Str Wt	42000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	0.00 in
D. Pipe ID	3.80 in
D.C. Length	0.00 ft
D.P. Length	4598.00 ft
H.W. I.D	3.80 in
H.W. Length	598.00 ft

MUD DATA----------

Mud Type	Chemical
Weight	9.40 lb/c
Vis.	45.00 S/L
W.L.	11.20 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	116.00 F
Hole Condition	GOOD
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Dan Bangle
Co. Rep.	John O Farmer4th
Contr.	Abercrombie
Rig #	8
Unit #	
Pump T.	

15-193-20665-00-00

*** TOOL DIAGRAM *** CONV

L NAME: Dumler #1

ATION : 25-10S-34W Thomas Co Ks

KET No. 10706 D.S.T. No. 2 DATE 11-1-97

AL TOOL TO BOTTOM OF TOP PACKERS 20

ERVAL TOOL .....

TOM PACKERS AND ANCHOR 11

AL TOOL 31

LL COLLAR ANCHOR IN INTERVAL .....

: ANCHOR STND.Stands Single Total

. ANCHOR STND.Stands Single 1 Total 31

AL ASSEMBLY 62

. ABOVE TOOLS.Stands Single Total

. ABOVE TOOLS.Stands75 Single Total 4598

AL DRILL COLLARS DRILL PIPE & TOOLS .. 4660

AL DEPTH 4655

AL DRILL PIPE ABOVE K.B. 5

MARKS:

P.O. SUB	4469
C.O. SUB	4593
S.I. TOOL	4599
HMV	4604
JARS n/a	
SAFETY JOINT n/a	
PACKER	4608
PACKER	4613
DEPTH 4613	
STUBB 1'	4614
ANCHOR 3' Perfs	4617
1' co sub	4618
Alpine @ 4619	
T.C.	
DEPTH	
1 jt dp 31'	4649
co sub	4650
AK-1 @ 4652	
BULLNOSE 5' Bullplug	4655
T.D.	

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk #10706 DST #2 Dumler #1 John O Farmer, Inc.

DATE: 11/01/97 TIME: 19:30:41

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	109.00	2306.1	0.0	110.26		
****** Start Flow 1	0.00	16.1	0.0	110.54		
	1.00	17.3	1.2	110.70		
	2.00	17.5	1.4	110.82		
	3.00	17.7	1.6	110.90		
	4.00	17.8	1.7	110.95		
	5.00	17.9	1.8	110.99		
	6.00	18.0	1.9	111.02		
	7.00	18.0	1.9	111.05		
	8.00	18.1	2.0	111.06		
	9.00	18.2	2.1	111.08		
	10.00	18.3	2.2	111.10		
	11.00	18.3	2.2	111.11		
	12.00	18.3	2.2	111.13		
	13.00	18.4	2.3	111.15		
	14.00	18.4	2.3	111.17		
	15.00	18.4	2.3	111.19		
	16.00	18.5	2.4	111.22		
	17.00	18.5	2.4	111.24		
	18.00	18.6	2.5	111.28		
	19.00	18.6	2.5	111.31		
	20.00	18.6	2.5	111.34		
	21.00	18.6	2.5	111.39		
	22.00	18.6	2.5	111.43		
	23.00	18.6	2.5	111.47		
	24.00	18.7	2.6	111.51		
	25.00	18.7	2.6	111.56		
	26.00	18.7	2.6	111.60		
	27.00	18.7	2.6	111.65		
	28.00	18.7	2.6	111.70		
****** End Flow 1	29.00	18.8	2.7	111.75		
****** Start Shutin 1	0.00	18.8	0.0	111.75	0.0000	0.000
	1.00	17.0	-1.8	111.80	30.0000	0.000
	2.00	17.5	-1.2	111.85	15.5000	0.000
	3.00	18.2	-0.6	111.90	10.6667	0.000
	4.00	18.8	0.0	111.95	8.2500	0.000
	5.00	19.5	0.7	112.01	6.8000	0.000
	6.00	20.1	1.4	112.06	5.8333	0.000
	7.00	20.9	2.1	112.12	5.1429	0.000
	8.00	21.6	2.8	112.17	4.6250	0.000
	9.00	22.3	3.5	112.23	4.2222	0.000
	10.00	23.1	4.4	112.28	3.9000	0.001
	11.00	23.9	5.2	112.34	3.6364	0.001
	12.00	24.8	6.1	112.39	3.4167	0.001
	13.00	25.8	7.0	112.45	3.2308	0.001
	14.00	26.7	7.9	112.50	3.0714	0.001
	15.00	27.6	8.9	112.56	2.9333	0.001
	16.00	28.7	9.9	112.62	2.8125	0.001
	17.00	29.7	11.0	112.67	2.7059	0.001
	18.00	30.9	12.2	112.73	2.6111	0.001
	19.00	32.1	13.3	112.78	2.5263	0.001

15-193-20665-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

EST: Tk #10706 DST #2 Dumler #1 John O Farmer, Inc.

ATE: 11/01/97 TIME: 19:30:41

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	20.00	33.3	14.6	112.84	2.4500	0.001
	21.00	34.6	15.8	112.90	2.3810	0.001
	22.00	35.9	17.2	112.95	2.3182	0.001
	23.00	35.9	17.1	113.01	2.2609	0.001
	24.00	37.4	18.6	113.06	2.2083	0.001
	25.00	39.0	20.2	113.12	2.1600	0.002
	26.00	40.6	21.8	113.17	2.1154	0.002
	27.00	42.4	23.6	113.22	2.0741	0.002
	28.00	44.2	25.5	113.28	2.0357	0.002
**** End Shut-in 1	29.00	46.2	27.4	113.33	2.0000	0.002
**** Start Flow 2	0.00	17.3	0.0	113.39		
	1.00	17.1	-0.2	113.44		
	2.00	17.1	-0.2	113.48		
	3.00	17.1	-0.2	113.54		
	4.00	17.1	-0.2	113.59		
	5.00	17.2	-0.1	113.65		
	6.00	17.2	-0.1	113.69		
	7.00	17.2	-0.1	113.75		
	8.00	17.3	-0.0	113.80		
	9.00	17.3	-0.0	113.85		
	10.00	17.3	0.0	113.90		
	11.00	17.3	0.0	113.95		
	12.00	17.4	0.0	114.00		
	13.00	17.4	0.0	114.05		
	14.00	17.4	0.0	114.10		
	15.00	17.4	0.1	114.15		
	16.00	17.5	0.1	114.19		
	17.00	17.4	0.1	114.25		
	18.00	17.4	0.1	114.29		
	19.00	17.4	0.1	114.35		
	20.00	17.5	0.2	114.40		
	21.00	17.5	0.2	114.43		
	22.00	17.5	0.2	114.49		
	23.00	17.5	0.2	114.54		
	24.00	17.6	0.2	114.58		
	25.00	17.6	0.3	114.63		
	26.00	17.6	0.3	114.68		
	27.00	17.6	0.3	114.72		
	28.00	17.6	0.3	114.77		
**** End Flow 2	29.00	17.6	0.3	114.82		
**** Start Shutin 2	0.00	17.6	0.0	114.82	0.0000	0.000
	1.00	17.7	0.0	114.86	59.0000	0.000
	2.00	16.0	-1.6	114.91	30.0000	0.000
	3.00	16.4	-1.2	114.96	20.3333	0.000
	4.00	16.9	-0.7	115.00	15.5000	0.000
	5.00	17.4	-0.2	115.05	12.6000	0.000
	6.00	17.9	0.3	115.09	10.6667	0.000
	7.00	18.4	0.8	115.14	9.2857	0.000
	8.00	18.9	1.3	115.18	8.2500	0.000
	9.00	19.5	1.9	115.22	7.4444	0.000
	10.00	20.0	2.4	115.26	6.8000	0.000

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk #10706 DST #2 Dumler #1 John O Farmer, Inc.

DATE: 11/01/97 TIME: 19:30:41

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	11.00	20.6	3.0	115.31	6.2727	0.000
	12.00	21.2	3.5	115.35	5.8333	0.000
	13.00	21.8	4.1	115.39	5.4615	0.000
	14.00	22.4	4.7	115.44	5.1429	0.000
	15.00	22.9	5.3	115.48	4.8667	0.001
	16.00	23.6	6.0	115.53	4.6250	0.001
	17.00	24.3	6.6	115.57	4.4118	0.001
	18.00	24.9	7.3	115.61	4.2222	0.001
	19.00	25.6	8.0	115.65	4.0526	0.001
	20.00	26.3	8.7	115.70	3.9000	0.001
	21.00	27.1	9.5	115.75	3.7619	0.001
	22.00	27.8	10.2	115.78	3.6364	0.001
	23.00	28.7	11.0	115.82	3.5217	0.001
	24.00	29.5	11.8	115.86	3.4167	0.001
	25.00	30.3	12.7	115.90	3.3200	0.001
	26.00	31.2	13.6	115.94	3.2308	0.001
	27.00	32.1	14.5	115.98	3.1481	0.001
	28.00	33.0	15.4	116.03	3.0714	0.001
	29.00	34.0	16.4	116.07	3.0000	0.001
	30.00	35.1	17.5	116.11	2.9333	0.001
	31.00	36.2	18.5	116.15	2.8710	0.001
	32.00	37.3	19.7	116.19	2.8125	0.001
****** End Shut-in 2	33.00	37.8	20.1	116.23	2.7576	0.001
****** Final Hydro.	232.00	2296.6	0.0	116.35		

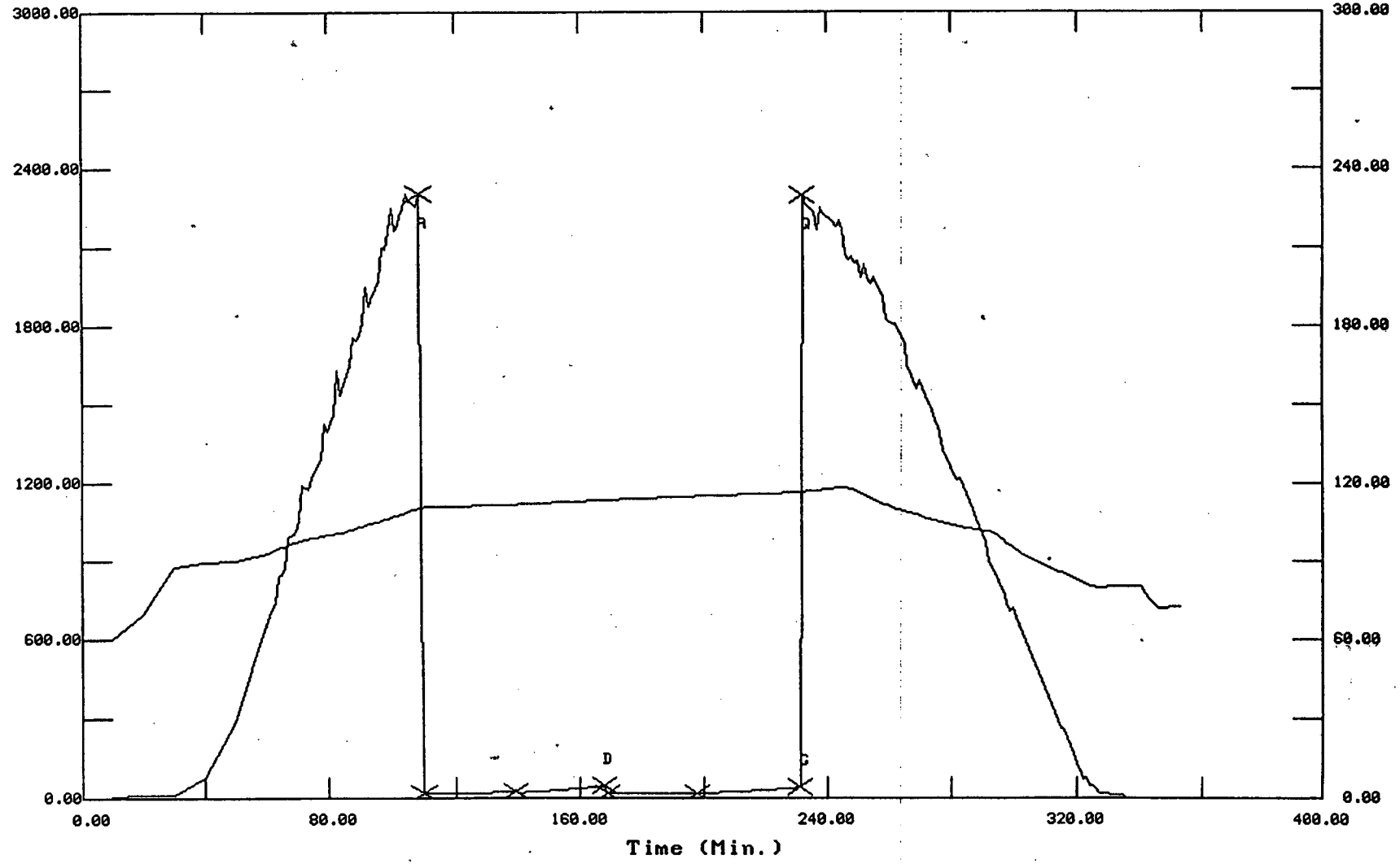
15-193-20465-00-00

TEST HISTORY

Tk #10706 DST #2 Dumler #1 John O Farmer, Inc.

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2306.08
B:	0.00	16.11
C:	29.00	18.77
D:	29.00	46.21
E:	0.00	17.31
F:	29.00	17.63
G:	33.00	37.76
Q:	0.00	2296.63



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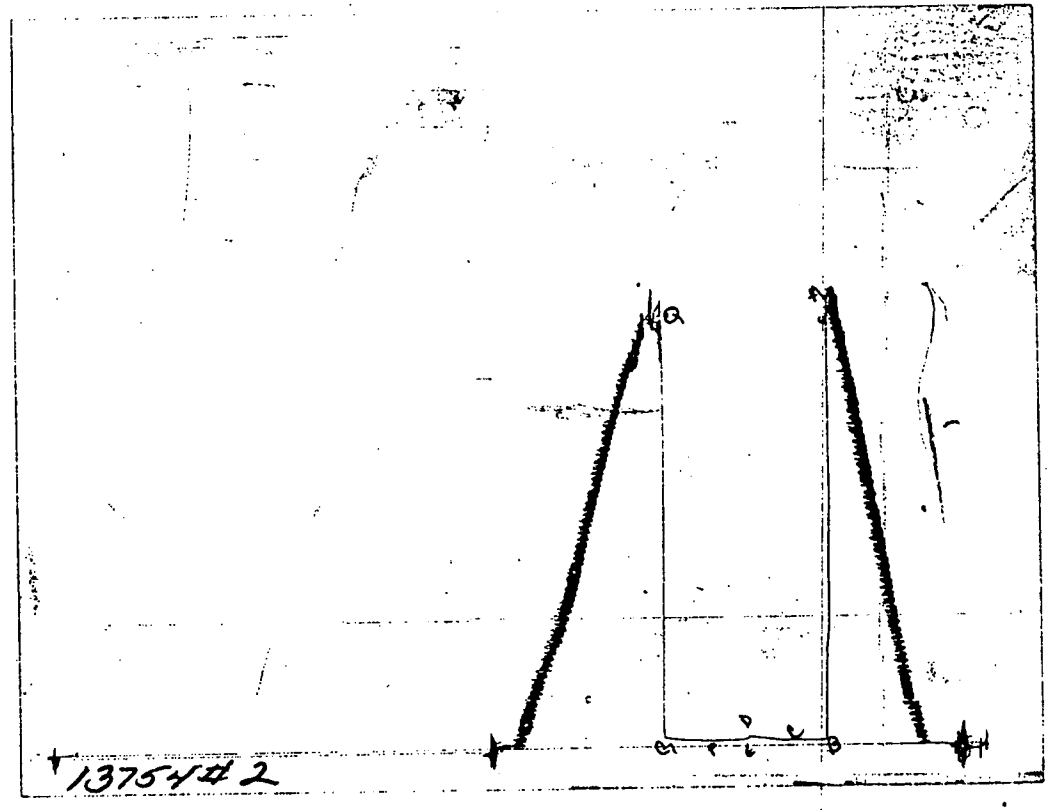

This is a photocopy of the actual AK-1 recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

15-193-20665-00-0

Test Ticket

№ 10706

Well Name & No. Dunler #1 Test No. 2 Date 11-1-97

Company John O. Farmer, Inc Zone Tested Johnson

Address _____ Elevation 3167 KB 3162 GL

Co. Rep / Geo. John Farmer IV Cont. Abercrombie #8 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 25 Twp. 10 Rge. 34 Co. Thomas State Ks

No. of Copies ____ Distribution Sheet (Y, N) ____ Turnkey (Y, N) ____ Evaluation (Y, N) ____

Interval Tested 4613 - 4655 Initial Str Wt./Lbs. 42,000 Unseated Str Wt./Lbs. 42,000

Anchor Length 42 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 60,000

Top Packer Depth 4608 Tool Weight 1000

Bottom Packer Depth 4613 Hole Size — 7 7/8" ____ Rubber Size — 6 3/4" ____

Total Depth 4655 Wt. Pipe Run 598 Drill Collar Run ____

Mud Wt. 9.4 LCM ____ Vis. 45 WL 11.2 Drill Pipe Size 4.5 XH Ft. Run 4598

Blow Description I.F. Weak steady surface blow

F.F. No blow

Recovery — Total Feet 3 GIP ____ Ft. in DC ____ Ft. in DP 3

Rec. 3	Feet Of Mud w/few oil spots	%gas	%oil	%water	%mud
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud

BHT 116 °F Gravity ____ °API D@ ____ °F Corrected Gravity ____ °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery Chlorides 8,000 ppm System

(A) Initial Hydrostatic Mud	2380	2306	PSI	Recorder No.	3227	T-Started	19:30
(B) First Initial Flow Pressure	29	16	PSI	(depth)	4619	T-Open	21:15
(C) First Final Flow Pressure	29	19	PSI	Recorder No.	13754	T-Pulled	23:15
(D) Initial Shut-in Pressure	49	46	PSI	(depth)	4652	T-Out	01:15
(E) Second Initial Flow Pressure	29	17	PSI	Recorder No.	____		
(F) Second Final Flow Pressure	29	18	PSI	(depth)	____		
(G) Final Shut-in Pressure	49	38	PSI	Initial Opening	30	Test	____
(H) Final Hydrostatic Mud	2299	2297	PSI	Initial Shut-in	30	Jars	____
	AK-1	Alpine		Final Flow	30	Safety Joint	____
				Final Shut-in	30	Straddle	____
				____		Circ. Sub	____
				____		Sampler	____
						Extra Packer	____
						Elect. Rec.	X
						Other	____
						TOTAL PRICE $	____

Approved By John O. Farmer IV

Our Representative Dan Bangle