

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

ORIGINAL

Operator: License # 5135

Name: JOHN O. FARMER, INC.

Address P.O. Box 352

City/State/Zip Russell, Kansas 67665

Purchaser: _____

Operator Contact Person: John O. Farmer, IV

Phone (785) 483-3144

Contractor: Name: Discovery Drilling, Inc.

License: 31548

Wellsite Geologist: John O. Farmer IV

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/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. _____

12/15/97 12/23/97 12/23/97

Spud Date Date Reached TD Completion Date

API NO. 15- 135-24043-0000

County Ness

-NE-NE-SW Sec. 6 Twp. 17S Rge. 24W X ^E_V

2310 Feet from S/N (circle one) Line of Section

2970 Feet from E/W (circle one) Line of Section

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

Lease Name Potter "C" Well # 1

Field Name Wildcat

Producing Formation None

Elevation: Ground 2467 KB 2475

Total Depth 4505 PBTD _____

Amount of Surface Pipe Set and Cemented at 201.25 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/ _____ in cmt.

Drilling Fluid Management Plan DFA, 5-6-98 OR.
(Data must be collected from the Reserve Pit)

Chloride content 8,200 ppm Fluid volume 1500 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

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

County _____ Docket No. _____

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.

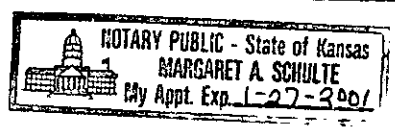
Signature John O. Farmer III

Title President Date 1-21-98

Subscribed and sworn to before me this 21st day of January 19 98.

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
JAN 21 1998
Distribution
KCC _____ SWD/Rep _____ NGPA _____
KGS _____ Plug _____ Other _____
(Specify)

Operator Name JOHN O. FARMER INC.

Lease Name Pot "C"

Well # 1

Sec. 6 Twp. 17S Rge. 24W
 East
 West

County Ness

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 sheets 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.)

List All E.Logs Run:

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Anhydrite	1817'	(+658)
Base/Anhydrite	1850'	(+625)
Heebner Shale	3830'	(-1355)
Lansing	3870'	(-1395)
Stark Shale	4108'	(-1633)
Pawnee	4289'	(-1814)
Fort Scott	4372'	(-1897)
Cherokee Shale	4400'	(-1925)
Cherokee Sand	4463'	(-1988)
Mississippi	4469'	(-1994)
R.T.D.	4505'	(-2030)

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 Pipe	12 1/4	8 5/8	20	201.25	60/40Poz	150	2%Gel&3%CC

ADDITIONAL CEMENTING/SQUEEZE RECORD

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

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No

Date of First, Resumed Production, SMD 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
	<u>N-A</u>				

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 _____



Discovery
Drilling

ORIGINAL

P.O. Box 763 • Hays, KS 67601 • OFFICE (913) 623-2920 • CELLULAR (913) 635-1511

DRILLER'S LOG

Operator: **JOHN O. FARMER, INC.**
P.O. Box 352
Russell, KS 67665

Contractor: **DISCOVERY DRILLING, INC.**
P.O. Box 763
Hays, KS 67601

Lease: Potter "C" #1
15-135-24043-00-00

Location: NE/NE/SW
Sec. 6/17S/24W
Ness Co., KS

NO LOG

Rotary Total Depth: 4505'
Commenced: 12/15/97
Casing: 8 5/8" @ 201.25 w/150sk

Elevation: 2467' Gr/2475'KB
Completed: 12/23/97
Status: D&A

DEPTHS & FORMATIONS

(All measurements from K.B.)

Surface, Sand & Shale	0'	Shales	1850'
Dakota Sand	512'	Shales & Lime	2063'
Shales	608'	Shales	2231'
Cedar Hill Sand	1251'	Shales & Lime	2480'
Red Bed Shale	1545'	Lime & Shales	3989'
Anhydrite	1817'	RTD	4505'
Base Anhydrite	1850'		

STATE OF KANSAS)
) ss
COUNTY OF ELLIS)

Thomas H. Alm of Discovery Drilling, Inc. states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.

Thomas H. Alm
Thomas H. Alm

Subscribed and sworn to before me on 12-24-97

My Commission Expires: 10-12-98

Christine Schlyer
Notary Public

(Place stamp or seal below.)



1998
JAN 23 1998

Phone 913-483-2627, Russell, KS
Phone 316-793-5861, Great Bend, KS

Phone 913-625-5516, Hays, KS
Phone 913-672-3471, Oakley, KS

Phone 316-886-5926, Medicine Lodge, KS
Phone 913-798-3843, Ness City, KS

ALLIED CEMENTING CO., INC.

7195

Home Office P. O. Box 31

Russell, Kansas 67665

"New"

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
12-15-97	6	17	24	4:30 PM	6:15 PM	9:15 AM	9:30 PM
Lease Potter "C"	Well No. 1	Location Arnold 3/4 E, 3 S, 1/2 E, N into			County Ness	State Kas	

Contractor <i>Discovery Drilling ORIGINAL</i>	Owner <i>John O. Farmer</i>
Type Job <i>Surface</i>	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 listed.
Hole Size <i>12 1/4</i>	T.D. <i>203'</i>
Csg. <i>8 5/8</i>	Depth <i>201'</i>
Tbg. Size	Depth
Drill Pipe	Depth
Tool	Depth
Cement Left in Csg. <i>15'</i>	Shoe Joint
Press Max.	Minimum
Meas Line <i>NO</i>	Displace <i>12.1 BBL</i>
Perf.	

Charge To <i>John O. Farmer</i>
Street <i>PO Box 352</i>
City <i>Russell</i> State <i>Ks</i> <i>67665</i>
The above was done to satisfaction and supervision of owner agent or contractor.
Purchase Order No.
X <i>Thomas Ahn</i>

CEMENT

Amount Ordered <i>150 ox 60/40 poz 2% GEL 3% CC</i>
Consisting of
Common <i>90</i> <i>1.35</i> <i>571.50</i>
Poz. Mix <i>60</i> <i>3.25</i> <i>195.00</i>
Gel. <i>3</i> <i>9.50</i> <i>28.50</i>
Chloride <i>5</i> <i>28.00</i> <i>140.00</i>
Quickset

EQUIPMENT

<i>New</i>	No.	Cementor	<i>J.A. Drilling</i>
Pump truck # <i>224</i>		Helper	
Pump truck	No.	Cementor	
		Helper	<i>Bill White</i>
Bulk truck # <i>311</i>		Driver	
Bulk truck		Driver	<i>Steweyne Walls</i>

Handling <i>150</i> <i>1.05</i> <i>157.50</i>
Mileage <i>18</i> <i>108.00</i>
Total <i>1200.50</i>

DEPTH of Job

Reference:	<i>Pump truck charge</i>	<i>470.00</i>
<i>18</i>	<i>Mileage</i>	<i>51.30</i>
<i>1-8 5/8 TWP</i>		<i>45.00</i>
	Total	<i>566.30</i>

Floating Equipment
Total # <i>1766.80</i>
Disc <i>265.02</i>
<i>15.00</i>

Remarks: *Safety meeting, rig was 130' when arrived. Ran 4 gts new 20" 8 5/8 casing. Set @ 201' cement w / 150 ox 60/40 2+3. release 8 5/8 plug, change valves, displace w 12.1 bbls fresh h²⁰ cement did circulate, shut in, release psi, Rack up pump truck.*

THANK YOU.

ALLIED CEMENTING CO., INC. 4602

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

SERVICE POINT: Neosho City

ORIGINAL

DATE <u>12-23-97</u>	SEC. <u>6</u>	TWP. <u>17</u>	RANGE <u>24</u>	CALLED OUT <u>4:00AM</u>	ON LOCATION <u>6:30AM</u>	JOB START <u>9:15AM</u>	JOB FINISH <u>12:00PM</u>
LEASE <u>Patten</u>		WELL# <u>C-1</u>		LOCATION <u>Arnold 3/4 E 35 1/2 N.S.</u>		COUNTY <u>Neosho</u>	STATE <u>KS</u>

OLD OR NEW (Circle one)

CONTRACTOR <u>Discovery Digs 2</u>	
TYPE OF JOB <u>Rotary Plug</u>	
HOLE SIZE <u>7 7/8</u>	T.D. <u>4505</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>201</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	

OWNER _____ CEMENT _____

AMOUNT ORDERED
235 60/40 60/200
1/4" 7lb Seal per sk

COMMON	@	_____
POZMIX	@	_____
GEL	@	_____
CHLORIDE	@	_____
<u>7lb Seal</u>	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
HANDLING	@	_____
MILEAGE <u>23</u>	@	_____

EQUIPMENT

PUMP TRUCK # <u>224</u>	CEMENTER <u>A. W. Johnson</u>	HELPER <u>B. White</u>
BULK TRUCK # <u>222</u>	DRIVER <u>B. Norton</u>	
BULK TRUCK # _____	DRIVER _____	

TOTAL _____

REMARKS:

<u>Max 50 x 2 1850</u>
<u>80 x 2 1110</u>
<u>40 x 2 650</u>
<u>40 x 2 240</u>
<u>15 x RH</u>
<u>10 x MH</u>

SERVICE

DEPTH OF JOB <u>1850</u>	_____
PUMP TRUCK CHARGE	_____
EXTRA FOOTAGE	@ _____
MILEAGE <u>23</u>	@ _____
PLUG <u>Tap Wood</u>	@ _____
_____	@ _____
_____	@ _____

TOTAL _____

CHARGE TO: John O. Farmer
STREET _____
CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

TOTAL _____

WELL NAME:
COMPANY:
LOCATION:

Potter C #1
John O Farmer
6-17S-24W
Ness County, Kansas
12/23/97

ORIGINAL

DATE:

15-135-24043-0000

TRILOBITE TESTING L.L.C.

OPERATOR : Potter C #1 DATE 12/21/97
 WELL NAME: John O Farmer KB 2475.00 ft TICKET NO: 10719 DST #1
 LOCATION : 6-17S-24W Ness Co KS GR 2467.00 ft FORMATION: Fort Scott
 INTERVAL : 4362.00 To 4400.00 ft TD 4400.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13754	13754	13248			PF Fr. 1110 to 1140 hr
SI 30	Range(Psi)	4550.0	4550.0	4250.0	0.0	0.0	IS Fr. 1140 to 1210 hr
SF 30	Clock(hrs)	12 hr	12 hr	12 hr			SF Fr. 1210 to 1240 hr
FS 30	Depth(ft)	4365.0	4365.0	4397.0	0.0	0.0	FS Fr. 1240 to 1310 hr

	Field	1	2	3	4	
A. Init Hydro	2168.0	2178.0	0.0	0.0	0.0	T STARTED 0930 hr
B. First Flow	19.0	14.0	0.0	0.0	0.0	T ON BOTM 1105 hr
B1. Final Flow	19.0	14.0	0.0	0.0	0.0	T OPEN 1110 hr
C. In Shut-in	650.0	650.0	0.0	0.0	0.0	T PULLED 1310 hr
D. Init Flow	59.0	33.0	0.0	0.0	0.0	T OUT 1430 hr
E. Final Flow	59.0	33.0	0.0	0.0	0.0	
F. Fl Shut-in	354.0	310.0	0.0	0.0	0.0	
G. Final Hydro	2036.0	2147.0	0.0	0.0	0.0	
Inside/Outside	0	0	I			

RECOVERY

Tot Fluid 10.00 ft of 10.00 ft in DC and 0.00 ft in DP
 10.00 ft of Drilling mud with 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
 0.00 ft of

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

BLOW DESCRIPTION

Initial Flow:
 Weak steady surface blow

Final Flow:
 Weak steady surface blow

SAMPLES:
 SENT TO:

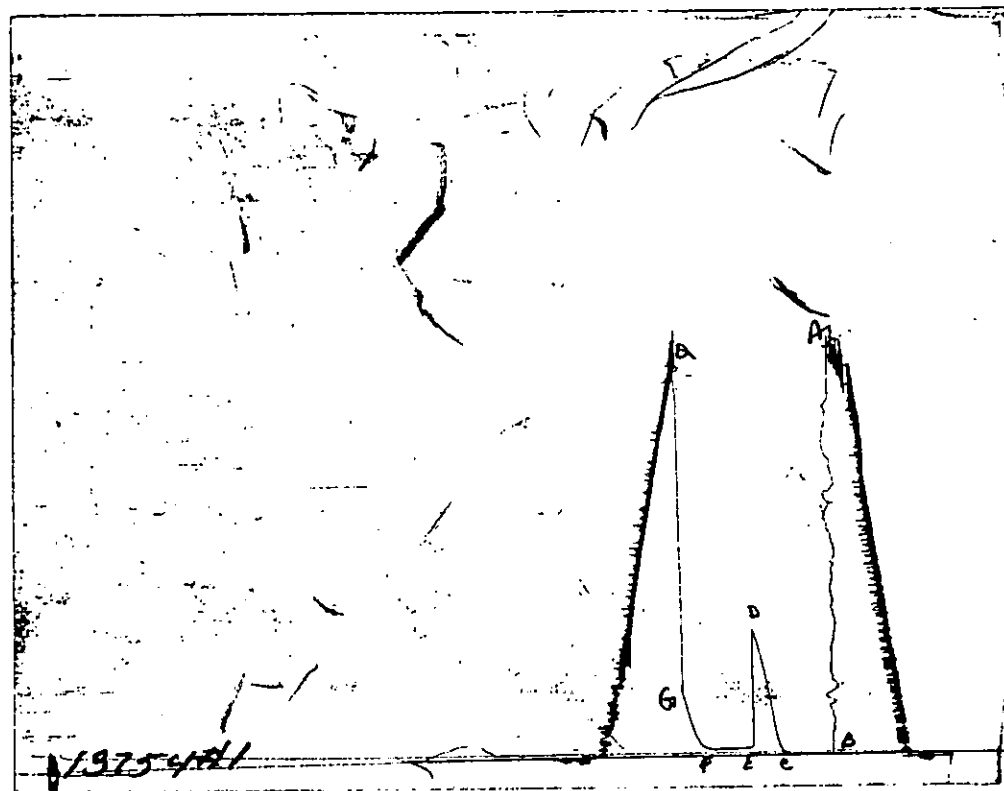
TOOL DATA-----
 Tool Wt. 1000.00 lbs
 Wt Set On Packer 30000.00 lbs
 Wt Pulled Loose 60000.00 lbs
 Initial Str Wt 42000.00 lbs
 Unseated Str Wt 42000.00 lbs
 Bot Choke 0.75 in
 Hole Size 7.88 in
 D Col. ID 2.25 in
 D. Pipe ID 3.80 in
 D.C. Length 30.00 ft
 D.P. Length 4320.00 ft

MUD DATA-----
 Mud Type Chemical
 Weight 9.30 lb/c
 Vis. 50.00 S/L
 W.L. 9.00 in3
 F.C. 0.00 in
 Mud Drop

Amt. of fill 0.00 ft
 Btm. H. Temp. 112.00 F
 Hole Condition
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out
 Tool Chased
 Tester Dan Bangle
 Co. Rep. John Farmer IV
 Contr. Discovery
 Rig # 2
 Unit #
 Pump T.

Test Successful: Y

CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 10719

Well Name & No. POTTER "C" #1 Test No. 1 Date 12-21-97
Company John O. Farmer Inc Zone Tested EAST SCOTT
Address P.O. Box 352, Russell, Ks. 67665 Elevation 2475 KB 2467 GL
Co. Rep / Geo. John Farmer III Cont. Discovery #2 Est. Ft. of Pay Por. %
Location: Sec. 6 Twp. 17 Rge. 24 Co. NESS State Ks
No. of Copies STD Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N)

Interval Tested 4362 - 4400 Initial Str Wt./Lbs. 42,000 Unseated Str Wt./Lbs. 42,000
Anchor Length 38 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 60,000
Top Packer Depth 4357 Tool Weight 1000
Bottom Packer Depth 4362 Hole Size — 7 7/8" Rubber Size — 6 3/4"
Total Depth 4400 Wt. Pipe Run Drill Collar Run 30
Mud Wt. 9.3 LCM 1# Vis. 50 WL 9 Drill Pipe Size 4.5XH Ft. Run 4320
Blow Description I.F. Weak steady surface blow

E.F. Weak steady surface blow

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
<u>10</u>			<u>10</u>				
Rec. <u>10</u> Feet Of <u>D.M w/few oil spots</u>							
Rec. <u> </u> Feet Of <u> </u>							
Rec. <u> </u> Feet Of <u> </u>							
Rec. <u> </u> Feet Of <u> </u>							
Rec. <u> </u> Feet Of <u> </u>							

BHT 112 °F Gravity °API D@ °F Corrected Gravity °API
RW @ °F Chlorides ppm Recovery Chlorides 1400 ppm System
(A) Initial Hydrostatic Mud 2168 PSI Recorder No. 13754 T-Started 09:20
(B) First Initial Flow Pressure 19 PSI (depth) 4365 T-Open 11:10
(C) First Final Flow Pressure 19 PSI Recorder No. 13248 T-Pulled 13:10
(D) Initial Shut-in Pressure 650 PSI (depth) 4397 T-Out 14:30
(E) Second Initial Flow Pressure 59 PSI Recorder No.
(F) Second Final Flow Pressure 59 PSI (depth)
(G) Final Shut-in Pressure 354 PSI Initial Opening 30 Test
(H) Final Hydrostatic Mud 2036 PSI Initial Shut-in 30 Jars
Final Flow 30 Safety Joint
Final Shut-in 30 Straddle
Circ. Sub
Sampler
Extra Packer
Elect. Rec.
Other
TOTAL PRICE \$

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By
Our Representative Dan Bangle

TRILOBITE TESTING L.L.C.

OPERATOR : John O Farmer Inc
 WELL NAME: Potter "C" #1
 LOCATION : 6-17S-24W Ness Co Ks
 INTERVAL : 4445.00 To 4472.00 ft

DATE 12-22-97

KB 2475.00 ft TICKET NO: 10720 DST #2
 GR 2467.00 ft FORMATION: Sand/MISS
 TD 4472.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13754	13754	2341			PF Fr. 0555 to 0625 hr
SI 30	Range(Psi)	4000.0	4000.0	4995.0	0.0	0.0	IS Fr. 0625 to 0655 hr
SF 30	Clock(hrs)	12	12	Elect			SF Fr. 0655 to 0725 hr
FS 30	Depth(ft)	4469.0	4469.0	4448.0	0.0	0.0	FS Fr. 0725 to 0755 hr

	Field	1	2	3	4	
A. Init Hydro	2228.0	2240.0	2209.0	0.0	0.0	T STARTED 0405 hr
B. First Flow	9.0	20.0	2.0	0.0	0.0	T ON BOTM 0552 hr
B1. Final Flow	9.0	20.0	4.0	0.0	0.0	T OPEN 0555 hr
C. In Shut-in	9.0	27.0	10.0	0.0	0.0	T PULLED 0755 hr
D. Init Flow	9.0	20.0	3.0	0.0	0.0	T OUT 0930 hr
E. Final Flow	9.0	20.0	4.0	0.0	0.0	
F. Fl Shut-in	9.0	23.0	8.0	0.0	0.0	
G. Final Hydro	2006.0	2217.0	2203.0	0.0	0.0	
Inside/Outside	0	0	I			

RECOVERY

Tot Fluid 1.00 ft of 0.00 ft in DC and 1.00 ft in DP
 1.00 ft of Drilling mud w/ 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
 0.00 ft of

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

BLOW DESCRIPTION

Initial blow - Weak died in 10 min

Final blow - No blow

SAMPLES:
 SENT TO:

TOOL DATA-----
 Tool Wt. 1000.00 lbs
 Wt Set On Packer 30000.00 lbs
 Wt Pulled Loose 45000.00 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 2.25 in
 D. Pipe ID 3.80 in
 D.C. Length 30.00 ft
 D.P. Length 4409.00 ft

MUD DATA-----

Mud Type	Chem
Weight	9.30 lb/c
Vis.	48.00 S/L
W.L.	9.00 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	113.00 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 Farmer 4th
Contr.	Discovery
Rig #	2
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Potter "C" #1

LOCATION : 6-17S-24W Ness Co Ks

TICKET No. 10720 D.S.T. No. 2 DATE 12-22-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 27

TOTAL TOOL 47

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 47

D.C. ABOVE TOOLS.Stands Single 1 Total 30

D.P. ABOVE TOOLS.Stands72 Single Total 4409

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4486

TOTAL DEPTH 4472

TOTAL DRILL PIPE ABOVE K.B. 14

REMARKS:

"TIGHT HOLE"

P.O. SUB	4301
C.O. SUB	4425
S.I. TOOL	4431
HMV	4436
JARS n/a	
SAFETY JOINT n/a	
PACKER	4440
PACKER	4445
DEPTH 4445	
STUBB 1'	4446
ANCHOR 1' Perfs	4447
Alpine @ 4448	
T.C. DEPTH	
5' Perfs	4452
5' Perfs	4457
5' Perfs	4462
5' Perfs	4467
AK-1 @ 4469	
BULLNOSE 5' Bullplug	4472
T.D.	

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk #10720 DST #2 Potter "C" #1 John O Farmer Inc

DATE: 12/22/97

TIME: 04:05:45

	Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	106.00	2209.4	0.0	106.97		
***** Start Flow 1	0.00	2.3	0.0	107.69		
	1.00	2.5	0.2	108.03		
	2.00	2.8	0.6	108.28		
	3.00	2.9	0.6	108.48		
	4.00	2.9	0.6	108.62		
	5.00	2.9	0.7	108.72		
	6.00	3.1	0.8	108.81		
	7.00	3.1	0.8	108.88		
	8.00	3.0	0.7	108.92		
	9.00	3.0	0.8	108.97		
	10.00	3.2	0.9	109.00		
	11.00	3.2	0.9	109.02		
	12.00	3.1	0.9	109.04		
	13.00	3.2	0.9	109.06		
	14.00	3.2	1	109.07		
	15.00	3.3	1.1	109.09		
	16.00	3.3	1.1	109.10		
	17.00	3.4	1.1	109.11		
	18.00	3.4	1.1	109.13		
	19.00	3.4	1.1	109.14		
	20.00	3.4	1.1	109.16		
	21.00	3.4	1.2	109.17		
	22.00	3.4	1.2	109.19		
	23.00	3.5	1.2	109.21		
	24.00	3.5	1.2	109.23		
	25.00	3.5	1.2	109.25		
	26.00	3.5	1.3	109.27		
	27.00	3.5	1.3	109.29		
	28.00	3.5	1.3	109.32		
***** End Flow 1	29.00	3.5	1.3	109.35		
***** Start Shutin 1	0.00	3.5	0.0	109.35	0.0000	0.000
	1.00	2.1	-1.4	109.38	30.0000	0.000
	2.00	2.2	-1.4	109.41	15.5000	0.000
	3.00	2.4	-1.1	109.44	10.6667	0.000
	4.00	2.7	-0.8	109.47	8.2500	0.000
	5.00	3.0	-0.5	109.51	6.8000	0.000
	6.00	3.3	-0.3	109.55	5.8333	0.000
	7.00	3.6	0.1	109.58	5.1429	0.000
	8.00	3.9	0.4	109.62	4.6250	0.000
	9.00	4.4	0.9	109.66	4.2222	0.000
	10.00	4.6	1.1	109.69	3.9000	0.000
	11.00	4.9	1.3	109.73	3.6364	0.000
	12.00	5.0	1.4	109.77	3.4167	0.000
	13.00	5.4	1.9	109.81	3.2308	0.000
	14.00	5.7	2.2	109.85	3.0714	0.000
	15.00	6.0	2.4	109.89	2.9333	0.000
	16.00	6.4	2.9	109.93	2.8125	0.000
	17.00	6.8	3.2	109.97	2.7059	0.000
	18.00	6.9	3.4	110.01	2.6111	0.000
	19.00	7.4	3.8	110.06	2.5263	0.000

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk #10720 DST #2 Potter "C" #1 John O Farmer Inc

DATE: 12/22/97

TIME: 04:05:45

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	20.00	7.9	4.3	110.09	2.4500	0.000
	21.00	7.9	4.4	110.14	2.3810	0.000
	22.00	8.4	4.8	110.19	2.3182	0.000
	23.00	8.6	5.1	110.22	2.2609	0.000
	24.00	9.1	5.6	110.27	2.2083	0.000
	25.00	9.3	5.8	110.32	2.1600	0.000
	26.00	9.6	6.0	110.36	2.1154	0.000
	27.00	9.7	6.1	110.40	2.0741	0.000
	28.00	9.7	6.1	110.45	2.0357	0.000
***** End Shut-in 1	29.00	10.0	6.5	110.49	2.0000	0.000
***** Start Flow 2	0.00	3.3	0.0	110.53		
	1.00	3.3	0.0	110.57		
	2.00	3.4	0.1	110.62		
	3.00	3.4	0.1	110.66		
	4.00	3.4	0.2	110.71		
	5.00	3.4	0.1	110.75		
	6.00	3.5	0.2	110.79		
	7.00	3.6	0.3	110.84		
	8.00	3.5	0.2	110.88		
	9.00	3.4	0.2	110.93		
	10.00	3.4	0.2	110.97		
	11.00	3.5	0.2	111.01		
	12.00	3.5	0.2	111.06		
	13.00	3.6	0.3	111.10		
	14.00	3.5	0.3	111.14		
	15.00	3.5	0.2	111.18		
	16.00	3.6	0.3	111.23		
	17.00	3.6	0.3	111.27		
	18.00	3.5	0.2	111.32		
	19.00	3.6	0.3	111.36		
	20.00	3.6	0.3	111.40		
	21.00	3.6	0.3	111.44		
	22.00	3.7	0.4	111.48		
	23.00	3.7	0.4	111.53		
	24.00	3.7	0.4	111.57		
	25.00	3.7	0.4	111.61		
	26.00	3.7	0.4	111.65		
	27.00	3.7	0.4	111.69		
	28.00	3.8	0.5	111.73		
***** End Flow 2	29.00	3.8	0.5	111.77		
***** Start Shutin 2	0.00	3.8	0.0	111.77	0.0000	0.000
	1.00	3.8	0.0	111.81	59.0000	0.000
	2.00	2.3	-1.4	111.85	30.0000	0.000
	3.00	2.5	-1.3	111.89	20.3333	0.000
	4.00	2.7	-1.1	111.94	15.5000	0.000
	5.00	2.9	-0.8	111.97	12.6000	0.000
	6.00	3.2	-0.6	112.01	10.6667	0.000
	7.00	3.3	-0.5	112.06	9.2857	0.000
	8.00	3.4	-0.4	112.09	8.2500	0.000
	9.00	3.6	-0.2	112.13	7.4444	0.000
	10.00	3.9	0.1	112.17	6.8000	0.000

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk #10720 DST #2 Potter "C" #1 John O Farmer Inc

DATE: 12/22/97 TIME: 04:05:45

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	11.00	3.9	0.1	112.21	6.2727	0.000
	12.00	4.3	0.5	112.25	5.8333	0.000
	13.00	4.4	0.6	112.29	5.4615	0.000
	14.00	4.4	0.6	112.33	5.1429	0.000
	15.00	4.6	0.9	112.37	4.8667	0.000
	16.00	4.8	1	112.40	4.6250	0.000
	17.00	5.0	1.2	112.43	4.4118	0.000
	18.00	5.1	1.3	112.47	4.2222	0.000
	19.00	5.1	1.3	112.51	4.0526	0.000
	20.00	5.1	1.3	112.54	3.9000	0.000
	21.00	5.1	1.3	112.58	3.7619	0.000
	22.00	6.5	2.8	112.62	3.6364	0.000
	23.00	6.6	2.8	112.66	3.5217	0.000
	24.00	6.7	2.9	112.69	3.4167	0.000
	25.00	7.4	3.6	112.73	3.3200	0.000
	26.00	7.5	3.7	112.76	3.2308	0.000
	27.00	7.8	4.0	112.80	3.1481	0.000
	28.00	8.0	4.2	112.83	3.0714	0.000
	29.00	8.2	4.4	112.86	3.0000	0.000
***** End Shut-in 2	30.00	8.4	4.6	112.90	2.9333	0.000
***** Final Hydro.	228.00	2202.6	0.0	113.07		

TEST HISTORY

Tk #10720 DST #2 Potter "C" #1 John O Farmer Inc

Flag Points
t(Min.) P(PSig)

A:	0.00	2209.37
B:	0.00	2.27
C:	29.00	3.55
D:	29.00	10.03
E:	0.00	3.29
F:	29.00	3.78
G:	30.00	8.40
Q:	0.00	2202.61

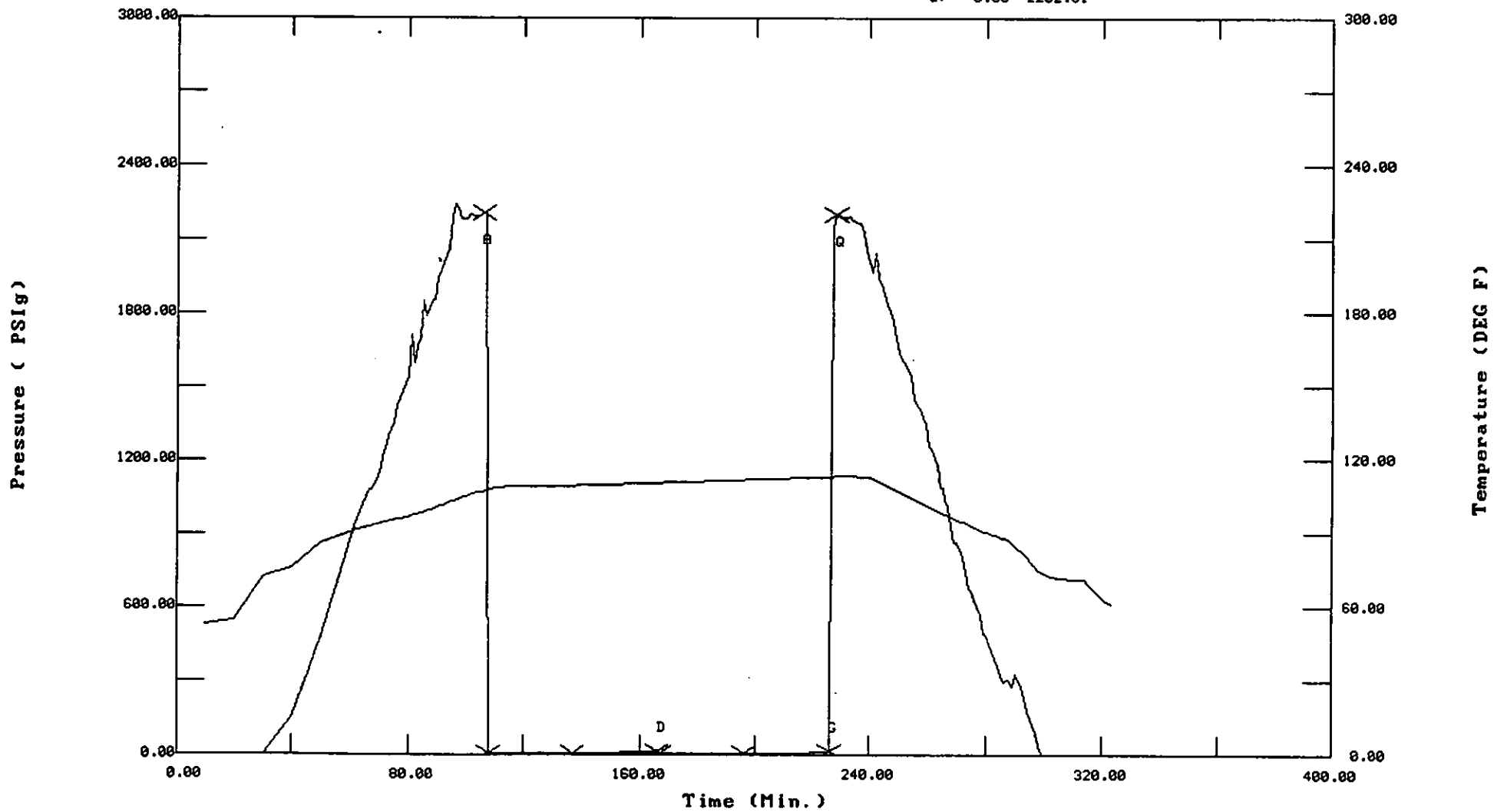
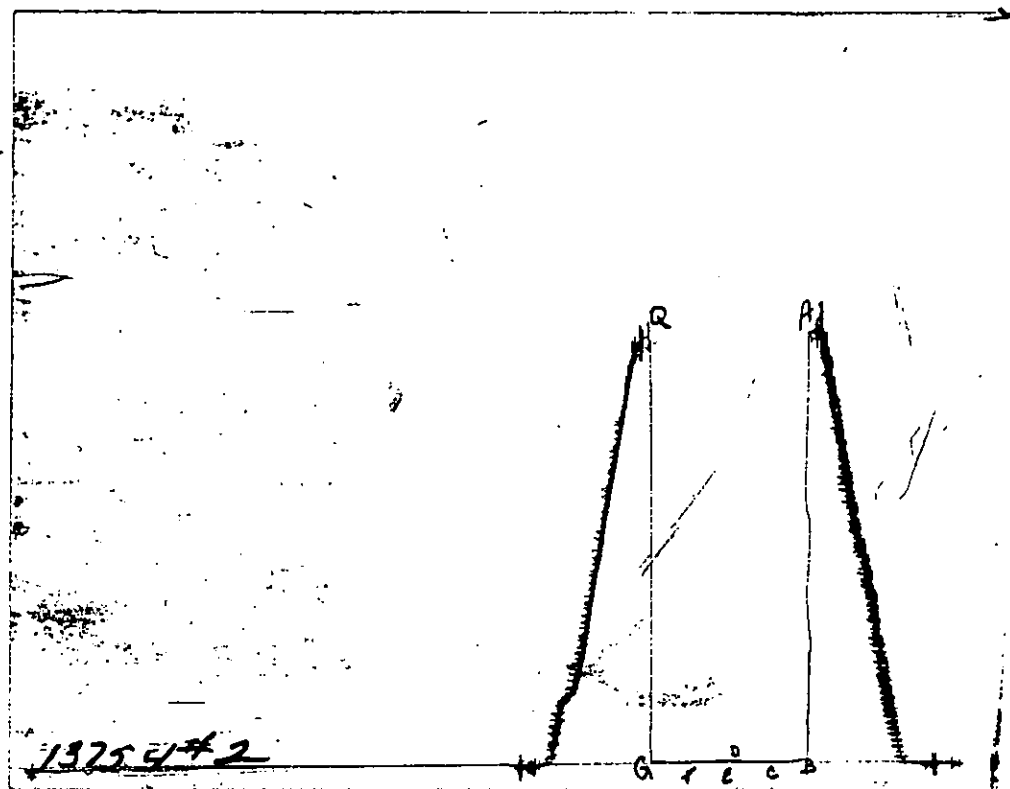


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 10720

Well Name & No. <u>Patterson "C" #1</u>	Test No. <u>2</u>	Date <u>12-22-97</u>
Company <u>John O. Farmer Inc</u>	Zone Tested <u>Miss/ sand</u>	
Address _____	Elevation <u>2475</u> KB <u>2467</u> GL	
Co. Rep / Geo. <u>John Farmer III</u>	Cont. <u>Discovery #2</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>6</u> Twp. <u>17</u> Rge. <u>24</u>	Co. <u>Ness</u> State <u>KS.</u>	
No. of Copies <u>std</u> Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) _____

Interval Tested 4445 - 4472 Initial Str Wt./Lbs. 42,000 Unseated Str Wt./Lbs. 42,000
Anchor Length 27 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. _____
Top Packer Depth 4440 Tool Weight 1000
Bottom Packer Depth 4445 Hole Size — 7 7/8" Rubber Size — 6 3/4"
Total Depth 4472 Wt. Pipe Run _____ Drill Collar Run 30
Mud Wt. 9.3 LCM 1# Vis. 48 WL 9 Drill Pipe Size 4.5 XH Ft. Run 4409
Blow Description J.F. weak - Died in 10 min.

F.F. No blow

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
<u>1</u>			<u>1</u>				
Rec. <u>1</u> Feet Of <u>D.M w/oil spots</u>							
Rec. _____ Feet Of _____							
Rec. _____ Feet Of _____							
Rec. _____ Feet Of _____							
Rec. _____ Feet Of _____							

BHT 11.3 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1400 ppm System

(A) Initial Hydrostatic Mud	<u>2228</u> <u>2209</u> PSI	Recorder No. <u>2341</u>	T-Started <u>04:05</u>
(B) First Initial Flow Pressure	<u>9</u> <u>2</u> PSI	(depth) <u>4448</u>	T-Open <u>05:52</u>
(C) First Final Flow Pressure	<u>9</u> <u>4</u> PSI	Recorder No. <u>13754</u>	T-Pulled <u>07:55</u>
(D) Initial Shut-in Pressure	<u>9</u> <u>10</u> PSI	(depth) <u>4469</u>	T-Out <u>09:30</u>
(E) Second Initial Flow Pressure	<u>9</u> <u>3</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure	<u>9</u> <u>4</u> PSI	(depth) _____	
(G) Final Shut-in Pressure	<u>9</u> <u>8</u> PSI	Initial Opening <u>30</u>	Test _____
(H) Final Hydrostatic Mud	<u>2006</u> <u>2203</u> PSI	Initial Shut-in <u>30</u>	Jars _____
	<u>AK-1</u> <u>Alpine</u>	Final Flow <u>30</u>	Safety Joint _____
		Final Shut-in <u>30</u>	Straddle _____
			Circ. Sub _____
			Sampler _____
			Extra Packer _____
			Elect. Rec. <u>X</u>
			Other _____
			TOTAL PRICE \$ _____

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By _____
Our Representative Dan Rangle

TRILOBITE TESTING L.L.C.

OPERATOR : John O Farmer Inc

DATE 12-22-97

WELL NAME: Potter "C" #1

KB 2475.00 ft

TICKET NO: 10721

DST #3

LOCATION : 6-17S-24W Ness Co Ks

GR 2467.00 ft

FORMATION: Miss

INTERVAL : 4472.00 To 4485.00 ft

TD 4485.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13754	13754	2341			PF Fr. 1825 to 1855 hr
SI 30	Range(Psi)	4000.0	4000.0	4995.0	0.0	0.0	IS Fr. 1855 to 1925 hr
SF 30	Clock(hrs)	12	12	Elect			SF Fr. 1925 to 1955 hr
FS 30	Depth(ft)	4482.0	4482.0	4475.0	0.0	0.0	FS Fr. 1955 to 2025 hr

	Field	1	2	3	4	
A. Init Hydro	2228.0	2217.0	2206.0	0.0	0.0	T STARTED 1644 hr
B. First Flow	9.0	21.0	2.0	0.0	0.0	T ON BOTM 1822 hr
B1. Final Flow	9.0	21.0	4.0	0.0	0.0	T OPEN 1825 hr
C. In Shut-in	9.0	30.0	15.0	0.0	0.0	T PULLED 2025 hr
D. Init Flow	9.0	21.0	4.0	0.0	0.0	T OUT 2200 hr
E. Final Flow	9.0	21.0	5.0	0.0	0.0	
F. Fl Shut-in	9.0	26.0	12.0	0.0	0.0	
G. Final Hydro	2188.0	2199.0	2192.0	0.0	0.0	TOOL DATA-----
Inside/Outside	0	0	I			Tool Wt. 1000.00 lbs

RECOVERY

Tot Fluid 5.00 ft of 5.00 ft in DC and 0.00 ft in DP
 5.00 ft of Drilling mud w/ 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

Wt Set On Packer 30000.00 lbs
 Wt Pulled Loose 45000.00 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 2.25 in
 D. Pipe ID 3.80 in
 D.C. Length 30.00 ft
 D.P. Length 4440.00 ft

BLOW DESCRIPTION

Initial blow - Weak died in 15 min

Final blow - No blow

MUD DATA-----

Mud Type Chem
 Weight 9.30 lb/c:
 Vis. 47.00 S/L
 W.L. 9.20 in3
 F.C. 0.00 in
 Mud Drop N

Amt. of fill 0.00 ft
 Btm. H. Temp. 113.00 F
 Hole Condition Good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00

SAMPLES:
 SENT TO:

Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Dan Bangle
 Co. Rep. John Farmer 4th
 Contr. Discovery
 Rig # 2
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Potter "C" #1

LOCATION : 6-17S-24W Ness Co Ks

TICKET No. 10721 D.S.T. No. 3 DATE 12-22-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 13

TOTAL TOOL 33

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 33

D.C. ABOVE TOOLS.Stands Single 1 Total 30

D.P. ABOVE TOOLS.Stands Single Total 4440

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4503

TOTAL DEPTH 4485

TOTAL DRILL PIPE ABOVE K.B. 18

REMARKS:

"TIGHT HOLE"

┌	P.O. SUB	4328
├	C.O. SUB	4452
├	S.I. TOOL	4458
├		
├	HMV	4463
├	JARS n/a	
├		
├	SAFETY JOINT n/a	
├	PACKER	4467
├	PACKER	4472
├	DEPTH 4472	
├	STUBB 1'	4473
├	ANCHOR 2' Perfs	4475
├	Alpine @ 4475	
├		
├	T.C.	
├	DEPTH	
├		
├	5' Perfs	4480
├	AK-1 @ 4482	
├	BULLNOSE 5' Bullplug	4485
├	T.D.	

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk #10721 DST #3 Potter "C" #1 John O Farmer Inc

DATE: 12/22/97

TIME: 16:44:34

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	96.00	2206.2	0.0	103.31		
***** Start Flow 1	0.00	2.4	0.0	104.19		
	1.00	2.7	0.4	104.64		
	2.00	2.8	0.4	105.06		
	3.00	3.0	0.6	105.42		
	4.00	3.1	0.7	105.70		
	5.00	3.1	0.7	105.92		
	6.00	3.1	0.8	106.10		
	7.00	3.3	0.9	106.25		
	8.00	3.2	0.8	106.38		
	9.00	3.4	1.0	106.48		
	10.00	3.3	0.9	106.57		
	11.00	3.3	0.9	106.65		
	12.00	3.4	1.0	106.72		
	13.00	3.5	1.1	106.79		
	14.00	3.4	1.0	106.85		
	15.00	3.5	1.2	106.91		
	16.00	3.5	1.1	106.96		
	17.00	3.5	1.1	107.01		
	18.00	3.5	1.1	107.07		
	19.00	3.6	1.2	107.12		
	20.00	3.8	1.4	107.18		
	21.00	3.7	1.4	107.23		
	22.00	3.6	1.2	107.28		
	23.00	3.7	1.3	107.33		
	24.00	3.8	1.4	107.39		
	25.00	3.8	1.4	107.44		
	26.00	3.8	1.4	107.50		
	27.00	3.8	1.4	107.56		
	28.00	3.9	1.5	107.61		
	29.00	4.0	1.7	107.67		
	30.00	3.9	1.6	107.73		
	31.00	3.1	0.7	107.79		
***** End Flow 1	32.00	3.6	1.2	107.85		
***** Start Shutin 1	0.00	3.6	0.0	107.85	0.0000	0.000
	1.00	4.0	0.4	107.91	33.0000	0.000
	2.00	4.5	0.9	107.97	17.0000	0.000
	3.00	4.8	1.2	108.03	11.6667	0.000
	4.00	5.4	1.8	108.10	9.0000	0.000
	5.00	5.8	2.2	108.16	7.4000	0.000
	6.00	6.2	2.6	108.22	6.3333	0.000
	7.00	6.5	2.9	108.29	5.5714	0.000
	8.00	7.2	3.7	108.36	5.0000	0.000
	9.00	7.5	4.0	108.42	4.5556	0.000
	10.00	8.0	4.4	108.49	4.2000	0.000
	11.00	8.3	4.7	108.56	3.9091	0.000
	12.00	8.7	5.1	108.63	3.6667	0.000
	13.00	8.8	5.2	108.70	3.4615	0.000
	14.00	9.4	5.8	108.73	3.2857	0.000
	15.00	9.8	6.2	108.82	3.1333	0.000
	16.00	10.2	6.6	108.88	3.0000	0.000

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk #10721 DST #3 Potter "C" #1 John O Farmer Inc

DATE: 12/22/97 TIME: 16:44:34

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	17.00	10.5	7.0	108.95	2.8824	0.000
	18.00	11.0	7.5	109.01	2.7778	0.000
	19.00	11.5	7.9	109.08	2.6842	0.000
	20.00	11.8	8.2	109.15	2.6000	0.000
	21.00	12.1	8.6	109.22	2.5238	0.000
	22.00	12.4	8.8	109.28	2.4545	0.000
	23.00	12.6	9.0	109.35	2.3913	0.000
	24.00	13.0	9.5	109.42	2.3333	0.000
	25.00	13.4	9.8	109.48	2.2800	0.000
	26.00	13.8	10.2	109.55	2.2308	0.000
	27.00	14.4	10.8	109.61	2.1852	0.000
	28.00	14.5	11.0	109.69	2.1429	0.000
	29.00	14.9	11.4	109.75	2.1034	0.000
***** End Shut-in 1	30.00	15.3	11.7	109.82	2.0667	0.000
***** Start Flow 2	0.00	4.2	0.0	109.91		
	1.00	4.5	0.3	109.94		
	2.00	4.6	0.4	110.00		
	3.00	4.5	0.3	110.07		
	4.00	4.7	0.5	110.13		
	5.00	4.6	0.4	110.19		
	6.00	4.7	0.5	110.26		
	7.00	4.7	0.5	110.32		
	8.00	4.6	0.4	110.38		
	9.00	4.8	0.6	110.44		
	10.00	4.7	0.5	110.51		
	11.00	4.8	0.6	110.57		
	12.00	4.9	0.7	110.63		
	13.00	4.9	0.7	110.70		
	14.00	4.9	0.7	110.75		
	15.00	4.7	0.6	110.81		
	16.00	4.9	0.7	110.87		
	17.00	4.9	0.7	110.92		
	18.00	5.0	0.8	110.98		
	19.00	4.8	0.6	111.04		
	20.00	5.0	0.8	111.10		
	21.00	4.8	0.7	111.16		
	22.00	5.0	0.8	111.21		
	23.00	4.9	0.7	111.27		
	24.00	4.8	0.6	111.33		
	25.00	5.0	0.8	111.38		
	26.00	5.0	0.8	111.44		
***** End Flow 2	27.00	5.0	0.8	111.49		
***** Start Shutin 2	0.00	5.0	0.0	111.49	0.0000	0.000
	1.00	3.9	-1.0	111.54	60.0000	0.000
	2.00	4.3	-0.7	111.60	30.5000	0.000
	3.00	4.4	-0.6	111.66	20.6667	0.000
	4.00	4.7	-0.3	111.71	15.7500	0.000
	5.00	4.9	-0.1	111.77	12.8000	0.000
	6.00	5.1	0.1	111.82	10.8333	0.000
	7.00	5.4	0.4	111.88	9.4286	0.000
	8.00	5.6	0.6	111.92	8.3750	0.000

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk #10721 DST #3 Potter "C" #1 John O Farmer Inc

DATE: 12/22/97 TIME: 16:44:34

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	9.00	5.9	0.9	111.97	7.5556	0.000
	10.00	6.0	1.1	112.03	6.9000	0.000
	11.00	6.3	1.3	112.07	6.3636	0.000
	12.00	6.5	1.5	112.13	5.9167	0.000
	13.00	6.7	1.7	112.18	5.5385	0.000
	14.00	6.7	1.7	112.23	5.2143	0.000
	15.00	7.0	2.0	112.27	4.9333	0.000
	16.00	7.3	2.3	112.33	4.6875	0.000
	17.00	7.4	2.4	112.37	4.4706	0.000
	18.00	7.6	2.6	112.42	4.2778	0.000
	19.00	7.8	2.8	112.47	4.1053	0.000
	20.00	7.8	2.9	112.52	3.9500	0.000
	21.00	8.1	3.2	112.57	3.8095	0.000
	22.00	8.3	3.3	112.62	3.6818	0.000
	23.00	8.5	3.5	112.67	3.5652	0.000
	24.00	8.5	3.5	112.71	3.4583	0.000
	25.00	8.7	3.7	112.76	3.3600	0.000
	26.00	8.9	3.9	112.81	3.2692	0.000
	27.00	9.1	4.1	112.86	3.1852	0.000
	28.00	9.1	4.1	112.90	3.1071	0.000
	29.00	9.4	4.4	112.95	3.0345	0.000
	30.00	9.6	4.6	112.99	2.9667	0.000
***** End Shut-in 2	31.00	12.0	7.0	113.04	2.9032	0.000
***** Final Hydro.	220.00	2191.6	0.0	113.20		

TEST HISTORY

Tk #10721 DST #3 Potter "C" #1 John O Farmer Inc

Flag Points
t(Min.) P(PSig)

A:	0.00	2206.21
B:	0.00	2.38
C:	32.00	3.57
D:	30.00	15.26
E:	0.00	4.19
F:	27.00	4.99
G:	31.00	12.03
Q:	0.00	2191.61

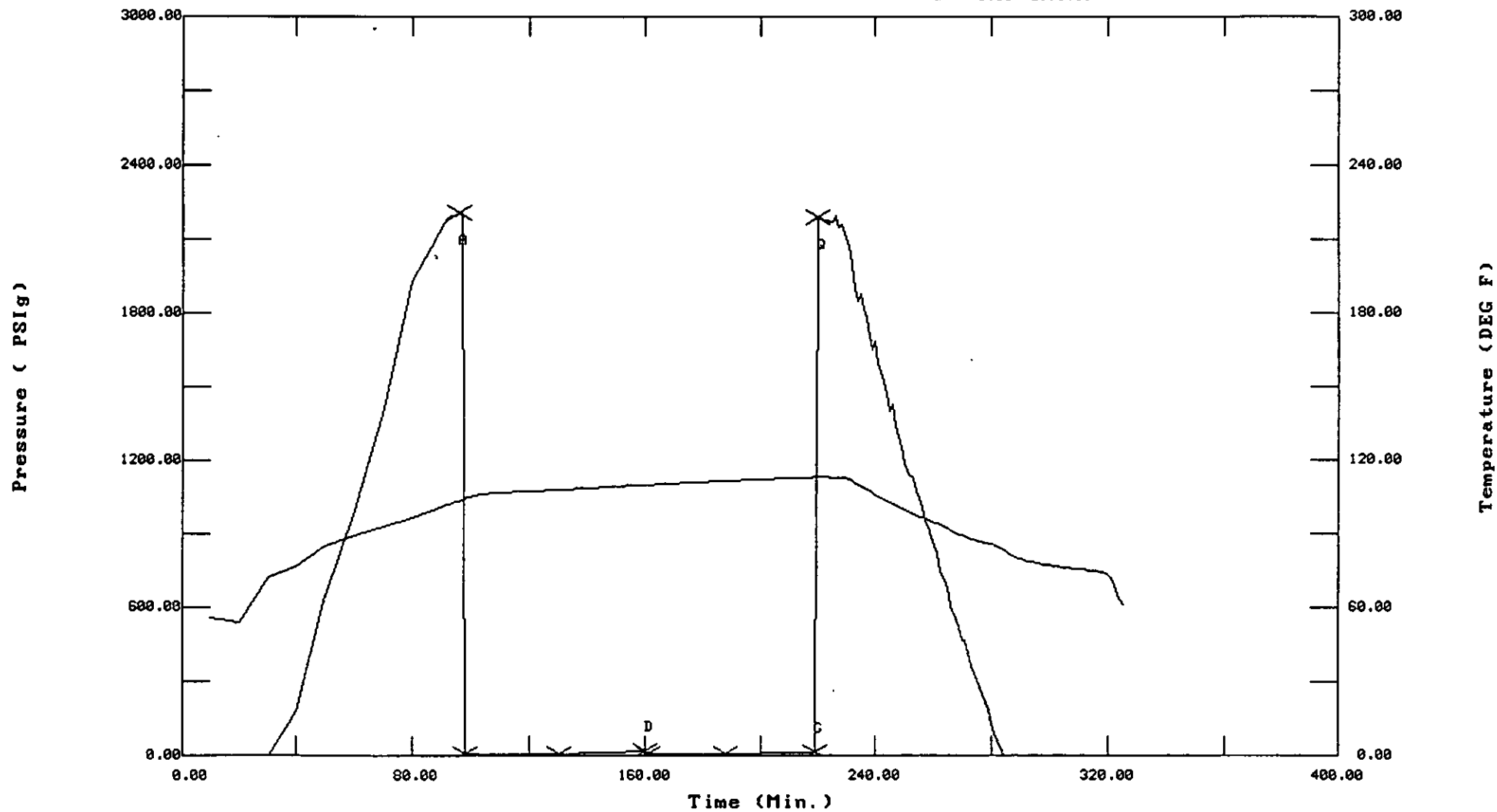
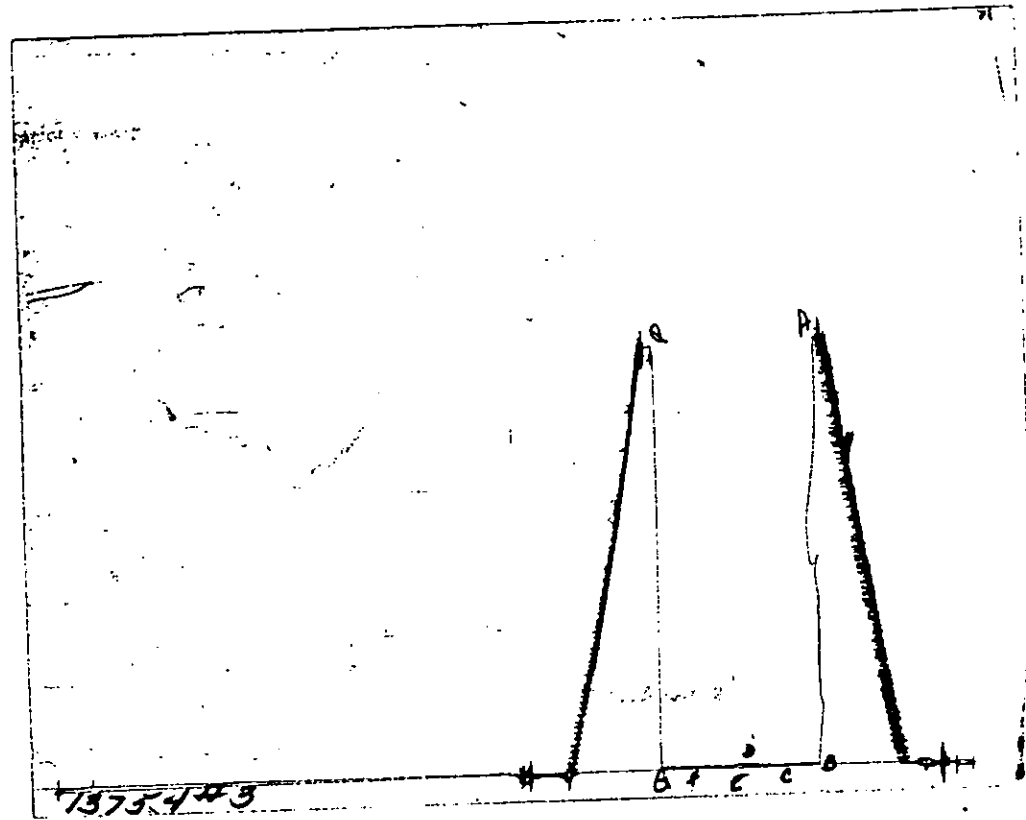


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 10721

Well Name & No. POTTER "C" #1 Test No. 3 Date 12-22-97
Company John O. Farmer Inc Zone Tested Miss
Address _____ Elevation 2475 KB 2467GL
Co. Rep / Geo. John Farmer III Cont. Discovery #2 Est. Ft. of Pay _____ Por. _____ %
Location: Sec. 6 Twp. 17 Rge. 24 Co. Ness State Ks
No. of Copies STD Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) _____

Interval Tested 4472 - 4485 Initial Str Wt./Lbs. 42,000 Unseated Str Wt./Lbs. 42,000
Anchor Length 13 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 45,000
Top Packer Depth 4467 Tool Weight 1,000
Bottom Packer Depth 4472 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Total Depth 4485 Wt. Pipe Run _____ Drill Collar Run 30
Mud Wt. 9.3 LCM 1# Vis. 47 WL 9.2 Drill Pipe Size 4.5XH Ft. Run 4440
Blow Description I.F. Weak - Died in 15 min.

E.F. No blow

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
<u>5</u>		<u>5</u>	<u>5</u>				
Rec. <u>5</u>	Feet Of <u>D.M w/oil spots</u>						
Rec. _____	Feet Of _____						
Rec. _____	Feet Of _____						
Rec. _____	Feet Of _____						
Rec. _____	Feet Of _____						

BHT 113 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1500 ppm System

(A) Initial Hydrostatic Mud	<u>2228</u> <u>2206</u> PSI	Recorder No. <u>2341</u>	T-Started <u>16:44</u>
(B) First Initial Flow Pressure	<u>9</u> <u>2</u> PSI	(depth) <u>4475</u>	T-Open <u>18:25</u>
(C) First Final Flow Pressure	<u>9</u> <u>4</u> PSI	Recorder No. <u>13754</u>	T-Pulled <u>20:25</u>
(D) Initial Shut-in Pressure	<u>9</u> <u>15</u> PSI	(depth) <u>4482</u>	T-Out <u>22:00</u>
(E) Second Initial Flow Pressure	<u>9</u> <u>4</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure	<u>9</u> <u>5</u> PSI	(depth) _____	
(G) Final Shut-in Pressure	<u>9</u> <u>12</u> PSI	Initial Opening <u>30</u>	Test _____
(H) Final Hydrostatic Mud	<u>2188</u> <u>2192</u> PSI	Initial Shut-in <u>30</u>	Jars _____
	<u>AK-1</u> <u>Alpine</u>	Final Flow <u>30</u>	Safety Joint _____
		Final Shut-in <u>30</u>	Straddle _____
			Circ. Sub _____
			Sampler _____
			Extra Packer _____
			Elect. Rec. <u>X</u>
			Other _____

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Approved By (Signature) R O.