ORIGINAL

FORM MUST BE TYPED SIDE ONE

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: N/A 6-14-00

Operator Contact Person: John O. Farmer III
Phone (785) 483-3144

Contractor: Name: Discovery Drilling Co., Inc.
License: 31548
Wellsite Geologist: Robert Stolzle

Designate Type of Completion
X New Well Re-Entry Workover

Oil SWD SIOW XX Temp. Abd.
Gas ENHR SIGW
Dry SI 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.

3-15-00 3-23-00 3-24-00
Spud Date Date Reached TD Completion Date

API NO. 15- 009-24,667-00-00

County Barton
75' North & 40' East of E
S/2 - N/2 - SW - SW Sec. 7 Twp. 16S Rge. 13 X W

900 Feet from (S)N (circle one) Line of Section
700 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 HOFFMAN "A" Well # 15
Field Name Trapp
Producing Formation None Yet

Elevation: Ground 1915' KB 1923'
Total Depth 3380' PBTD

Amount of Surface Pipe Set and Cemented at 890 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 ALT I JH 7-13-00
(Data must be collected from the Reserve Pit)

Chloride content 12,000 ppm Fluid volume 480 bbls
Dewatering method used allow to dry by evaporation

Location of fluid disposal if hauled offsite:

Operator Name NA

Lease Name License No.

Quarter Sec. Twp. S Rng. E/W

County Docket No.

RECEIVED
STATE CORPORATION COMMISSION
JUN 14 2000
CONSERVATION DIVISION
Wichita, Kansas

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
John O. Farmer III
Title President Date 6-13-00
Subscribed and sworn to before me this 13th day of June, 20 00 .

Notary Public Margaret A. Schulte
Margaret A. Schulte

Date Commission Expires

NOTARY PUBLIC - State of Kansas
MARGARET A. SCHULTE
My Appt. Exp. 1-27-01

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)

7

15-009-24667-0000

SIDE TWO

Operator Name John O. Farmer, Inc. Lease Name Hoffman "A" Well # 15

☐ East

Sec. 7 Twp. 16S Rge. 13 ☒ West County Barton

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:
Dual Compensated Porosity Log
Dual Induction Log

☒ Log ☐ Sample

Formation (Top), Depth and Datums

Name Top Datum

(SEE GEOLOGICAL REPORT)

CASING RECORD 8-5/8" casing ☒ New ☒ Used 5-1/2" casing

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"	24#	890'	60/40 Pozmix	350	3% CC, 2% gel
Production	7-7/8"	5-1/2"	14#	3377'	ASC	150	10% salt, 2% gel

ADDITIONAL CEMENTING/SQUEEZE RECORD

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

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. Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	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

ORIGINAL

Discovery Drilling

P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

DRILLER'S LOG

Operator: **John O Farmer, Inc.**
PO Box 352
Russell, KS 67665

Contractor: **Discovery Drilling Co., Inc.**
P.O. Box 763
Hays, KS 67601

Lease: Hoffman "A" #15

Location: S/2 N/2 / SW / SW
Sec. 7/16S/13W
Barton Co., KS

Loggers Total Depth: 3380'
Rotary Total Depth: 3380'
Commenced: 3/15/00
Casing: 8 5/8" @ 890' w/350 sks
5 1/2" @ 3377' w/150 sks

Elevation: 1913 Gr./1921 KB
Completed: 3/24/00
Status: Oil Well

DEPTHS & FORMATIONS
(All from KB)

Surface, Sand & Shales	0'	Shales	903'
Dakota Sand	109'	Shales & Lime	1146'
Shales	224'	Shales	1312'
Cedar Hill Sand	457'	Shales & Lime	1574'
Red Bed Shale	619'	Lime & Shales	2892'
Anhydrite	874'	RTD	3380'
Base Anhydrite	903'		

STATE OF KANSAS)
) ss
COUNTY OF ELLIS)

Thomas H. Alm of Discovery Drilling 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

Subscribed and sworn to before me on 3-27-00

My Commission expires: 8-9-03

(Place stamp or seal below)

Glenna S. Alm
Notary Public

NOTARY PUBLIC - State of Kansas
GLENNA S. ALM
My Appt. Exp. 8-9-03

JOHN O. FARMER, INC.
OIL PRODUCERS AND DRILLING CONTRACTORS
BOX 352
RUSSELL, KANSAS 67665

913-483-3144
(FAX) 913-483-6020

June 13, 2000

Kansas Corporation Commission
Conservation Division
130 South Market, Room 2078
Wichita, KS 67202

Re: John O. Farmer, Inc. HOFFMAN "A" #15
API# 15-009-24,667-00-00
75' North & 40' East of S/2 N/2 SW SW
Sec. 7-16S-13W
Barton County, Kansas

Gentlemen:

Please be advised that 5-1/2" casing was set on the above-referenced well drilled in March. However, it is "shut in" and will remain so until a later date when it will be converted to a waterflood injection well.

Very truly yours,

JOHN O. FARMER, INC.

Marge Schulte
Marge Schulte

ms

Enclosures

ALLIED CEMENTING CO., INC.

3889

Federal Tax I.D.# 48-0727860

ORIGINAL

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

SERVICE POINT:
Mt Bend

DATE 3-16-00	SEC. 7	TWP. 16	RANGE 13	CALLED OUT 1:45 AM	ON LOCATION 4:00 AM	JOB START 6:25 AM	JOB FINISH 7:00 AM
LEASE Hoffman	WELL # A-15	LOCATION Sussock - 2N - 2 [redacted] 1/4 N, E/S				COUNTY Barton	STATE Ks.
OLD OR (NEW) (Circle one)							

CONTRACTOR Discovery Drlg
TYPE OF JOB Surface
HOLE SIZE 12¼" T.D. 890'
CASING SIZE 8⅝" New 24# DEPTH 890'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 20'
PERFS.
DISPLACEMENT 55½ bbls

OWNER Same

CEMENT

AMOUNT ORDERED 350 sks 60/40, 3% CC, 2% Gel,

EQUIPMENT

PUMP TRUCK CEMENTER Tim W
181 HELPER Bob B
BULK TRUCK
344 DRIVER Rick W
BULK TRUCK
DRIVER

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
	@		
	@		
	@		
	@		
	@		
HANDLING	@		
MILEAGE			
		TOTAL	

REMARKS:

Ran 890' of 8⅝" csg. Broke Circulation
Mixed 350 sks 60/40 3% CC, 2% Gel,
Released Plug. Displaced with fresh
H²O.

Cement Did Circulate

Thanks

SERVICE

DEPTH OF JOB 890'
PUMP TRUCK CHARGE
EXTRA FOOTAGE @
MILEAGE @
PLUG 1-8⅝ Rubber @
@
@
TOTAL

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

FLOAT EQUIPMENT

@
@
@
@
@
TOTAL

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

ALLIED CEMENTING CO., INC.

3758

Federal Tax I.D.# 48-0727860

ORIGINAL

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

SERVICE POINT: Russell

DATE 3-24-00	SEC 7	TWP 16	RANGE 13	CALLED OUT	ON LOCATION	JOB START	JOB FINISH 7:30 AM
LEASE Hoffman	WELL # A-15		LOCATION S to County Line on 281			COUNTY Barton	STATE Ks
OLD OR NEW (Circle one)			2E N to E				

CONTRACTOR Discovery Drlg
TYPE OF JOB Prod String
HOLE SIZE 7 7/8 T.D. 3380
CASING SIZE 5 1/2 DEPTH 3376
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 32'
PERFS.
DISPLACEMENT 14Bbl 81.59

EQUIPMENT

PUMP TRUCK # 343 CEMENTER Dave
HELPER Mark
BULK TRUCK # DRIVER
BULK TRUCK # 213 DRIVER Jason

OWNER

CEMENT
AMOUNT ORDERED 165 ASC 10% of salt 2% gel 500 gal WFR-2

COMMON		@		
POZMIX		@		
GEL	3	@	9.50	28.50
CHLORIDE		@		
ASC	165	@	8.25	1361.25
WFR-2	500 gals	@	1.00	500.00
Salt	15	@	7.00	105.00
		@		
		@		
HANDLING		@	1.05	173.25
MILEAGE	44/sk/mile			105.00
			TOTAL	2265.00

REMARKS:

Cement on 1, 5, 7, 8, 10, 14
Plug Rathole w/ 15sk
mousehole 10 sk
float held

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			1080.00
EXTRA FOOTAGE		@	
MILEAGE	16	@ 3.00	48.00
PLUG 5½ Rubber		@	50.00
		@	
		@	
		TOTAL	1178.00

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

FLOAT EQUIPMENT

6 Centralizers (Turbo)	60.00		360.00
1 AFU Insert	@		235.00
1 Guide Shoe	@		150.00
	@		
	@		
	@		
	TOTAL		745.00

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 Ricky Popp

PRINTED NAME

WELL NAME:	Hoffman "A" #15
COMPANY:	John O. Farmer, Inc.
LOCATION:	7-16s-13w
	Barton co Kansas
DATE:	3/24/00

ORIGINAL

TRILOBITE TESTING L.L.C. ORIGINAL

OPERATOR : John O. Farmer, Inc. DATE 3-19-00
WELL NAME: Hoffman "A" #15 KB 1921.00 ft TICKET NO: 12934 DST #1
LOCATION : 7-16s-13w Barton co KS GR 1913.00 ft FORMATION: Plattsmouth
INTERVAL : 2945.00 To 2965.00 ft TD 2965.00 ft TEST TYPE: CONVETIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 15	Rec.	11085	11085			
SI 30	Range(Psi)	4300.0	4300.0	0.0	0.0	0.0
SF 15	Clock(hrs)	12	12			
FS 15	Depth(ft)	2956.0	2956.0	0.0	0.0	0.0

TIME DATA----------
PF Fr. 1545 to 1600 hr
IS Fr. 1600 to 1630 hr
SF Fr. 1630 to 1645 hr
FS Fr. 1645 to 1700 hr

	Field	1	2	3	4
A. Init Hydro	1419.0	1429.0	0.0	0.0	0.0
B. First Flow	66.0	89.0	0.0	0.0	0.0
B1. Final Flow	66.0	73.0	0.0	0.0	0.0
C. In Shut-in	77.0	78.0	0.0	0.0	0.0
D. Init Flow	66.0	70.0	0.0	0.0	0.0
E. Final Flow	66.0	56.0	0.0	0.0	0.0
F. Fl Shut-in	66.0	58.0	0.0	0.0	0.0
G. Final Hydro	1397.0	1352.0	0.0	0.0	0.0
Inside/Outside	I	I			

T STARTED 1430 hr
T ON BOTM 1540 hr
T OPEN 1545 hr
T PULLED 1700 hr
T OUT 1825 hr

RECOVERY
Tot Fluid 20.00 ft of 20.00 ft in DC and 0.00 ft in DP
20.00 ft of Mud w/ show of oil
0.00 ft of 100% mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

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

Tool Wt.	2000.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	48000.00 lbs
Initial Str Wt	40000.00 lbs
Unseated Str Wt	40000.00 lbs
Bot Choke	0.75 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	30.00 ft
D.P. Length	2895.00 ft

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

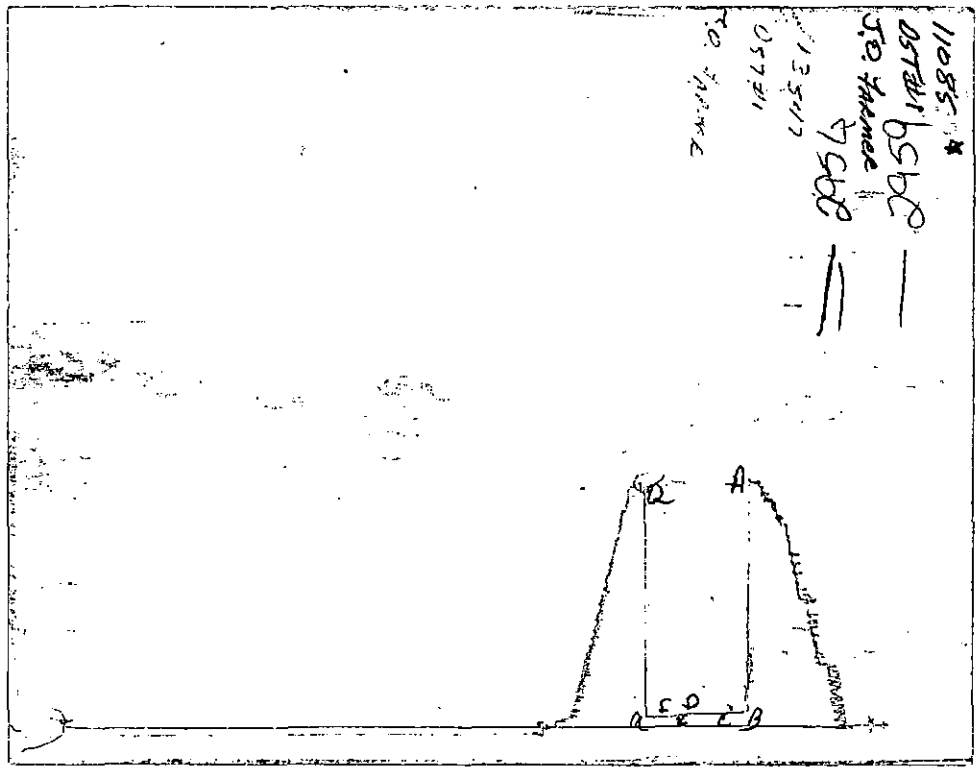
Mud Type	Chemical
Weight	9.20 lb/
Vis.	40.00 S/L
W.L.	11.20 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	1000.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Ray Schwager
Co. Rep.	Robert Stolzle
Contr.	Discovery
Rig #	2
Unit #	
Pump T.	

BLOW DESCRIPTION
Initial Flow:
Weak surface blow throughout
Final Flow:
No blow.

SAMPLES:
SENT TO:

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

№ 12934

Test Ticket

Well Name & No. Hoffman "A" #15 Test No. 1 Date 3-19-00

Company John O. Farmer, Inc Zone Tested Plattsmouth

Address P.O. Box 352 Russell, Ks 67665 Elevation 1921 KB 1913 GL

Co. Rep / Geo. Bob Cont. Discovery rig 2 Est. Ft. of Pay — Por. — %

Location: Sec. 7 Twp. 16S Rge. 13W Co. Barton State Ks

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

Interval Tested 2945-2965 Initial Str Wt./Lbs. 40000 Unseated Str Wt./Lbs. 40000

Anchor Length 20 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 48000

Top Packer Depth 2940 Tool Weight 2000

Bottom Packer Depth 2945 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes

Total Depth 2965 Wt. Pipe Run — Drill Collar Run 30

Mud Wt. 9.2 LCM — Vis. 40 WL 11.2 Drill Pipe Size 4½ XH Ft. Run 2895

Blow Description IFP - Weak surface blow throughout

FFP - No blow

Recovery — Total Feet 20 GIP — Ft. in DC 20 Ft. in DP —

Rec. 20	Feet Of Mud	%gas	%oil	%water	%mud	
Rec.	Feet Of w/show of oil	%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 100 °F Gravity — °API D@ — °F Corrected Gravity — °API

RW — @ — °F Chlorides — ppm Recovery Chlorides 7200 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	1419		PSI	Recorder No.	11085	T-On Location 1400
(B) First Initial Flow Pressure	66		PSI	(depth)	~~2930~~ 2951	T-Started 1430
(C) First Final Flow Pressure	66		PSI	Recorder No.	13547	T-Open 1545
(D) Initial Shut-In Pressure	77		PSI	(depth)	~~2925~~ 2959	T-Pulled ~~1700~~
(E) Second Initial Flow Pressure	66		PSI	Recorder No.	—	T-Out 1825
(F) Second Final Flow Pressure	66		PSI	(depth)	—	T-Off Location 1835
(G) Final Shut-in Pressure	66		PSI	Initial Opening	15	Test ✓
(Q) Final Hydrostatic Mud	1397		PSI	Initial Shut-in	30	Jars
				Final Flow	~~30~~ 15	Safety Joint ✓
				Final Shut-in	~~30~~ 15	Straddle
						Circ. Sub
						Sampler
						Extra Packer
						Elec. Rec.
						Mileage
						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 Robert Stafford

Our Representative Ray Schwager Thank you

TRILOBITE TESTING L.L.C.

OPERATOR : John O. Farmer, Inc. DATE 3-20-00
WELL NAME: Hoffman "A" #15 KB 1921.00 ft TICKET NO: 12935 DST #2
LOCATION : 7-16s-13w Barton co KS GR 1913.00 ft FORMATION: Lansing "B"
INTERVAL : 3081.00 To 3096.00 ft TD 3096.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins			Field	1	2	3	4
PF	15	Rec.	11085				
SI	30	Range(Psi)	4300.0	0.0	0.0	0.0	0.0
SF	30	Clock(hrs)	12	mis-	run		
FS	60	Depth(ft)	3087.0	0.0	0.0	0.0	0.0

TIME DATA----------
PF Fr. 1115 to 1130 hr
IS Fr. 1130 to 1200 hr
SF Fr. 1200 to 1230 hr
FS Fr. 1230 to 1330 hr

	Field	1	2	3	4
A. Init Hydro	0.0	0.0	0.0	0.0	0.0
B. First Flow	0.0	0.0	0.0	0.0	0.0
B1. Final Flow	0.0	0.0	0.0	0.0	0.0
C. In Shut-in	0.0	0.0	0.0	0.0	0.0
D. Init Flow	0.0	0.0	0.0	0.0	0.0
E. Final Flow	0.0	0.0	0.0	0.0	0.0
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0
G. Final Hydro	0.0	0.0	0.0	0.0	0.0

Inside/Outside

T STARTED 1015 hr
T ON BOTM 1110 hr
T OPEN 1115 hr
T PULLED 1330 hr
T OUT 1500 hr

RECOVERY
Tot Fluid 45.00 ft of 30.00 ft in DC and 15.00 ft in DP
45.00 ft of Mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

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

Tool Wt.	2000.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	80000.00 lbs
Initial Str Wt	40000.00 lbs
Unseated Str Wt	40000.00 lbs
Bot Choke	0.75 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	30.00 ft
D.P. Length	3031.00 ft

BLOW DESCRIPTION
Initial Flow:
Weak blow throughout 3" to 1 1/2"
blow.
Final Flow:
No blow.
Tool slid approximately 6 feet to bottom
misrun

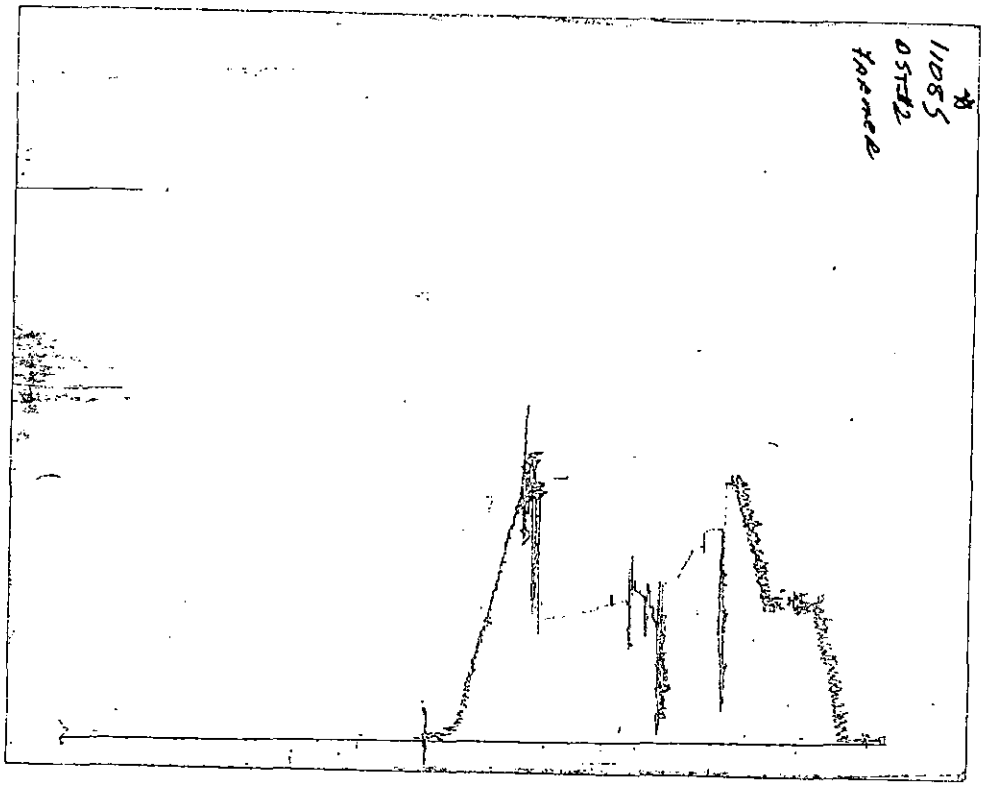
MUD DATA----------

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	39.00 S/L
W.L.	10.00 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	1000.00 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	Ray Schwager
Co. Rep.	Robert Stolzle
Contr.	Discovery
Rig #	2
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: N

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

№ 12935

Test Ticket

Well Name & No. Hoffman "A" #15 Test No. 2 Date 3-20-00

Company John O. Farmer, Inc Zone Tested Lansing "B"

Address P.O. Box 352 Russell, Ks 67665 Elevation 1921 KB 1913 GL

Co. Rep / Geo. Bob Stolzle Cont. Discovery rig 2 Est. Ft. of Pay — Por. — %

Location: Sec. 7 Twp. 16S Rge. 13W Co. BARTON State Ks

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

Interval Tested 3081-3096 Initial Str Wt./Lbs. 40000 Unseated Str Wt./Lbs. 46000

Anchor Length 15 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 80000

Top Packer Depth 3076 Tool Weight 2000

Bottom Packer Depth 3081 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes

Total Depth 3096 Wt. Pipe Run — Drill Collar Run 30

Mud Wt. 9.1 LCM 2# Vis. 39 WL 10 Drill Pipe Size 4½XH Ft. Run 3031

Blow Description IFP - Weak Blow Throughout 3" To 1½" Blow

FFP - NO Blow

Slid Tool Approx 6 ft To Bottom

Recovery — Total Feet 45 GIP — Ft. in DC 30 Ft. in DP 15

Rec. 45	Feet Of Mud	%gas	%oil	%water	%mud
Rec.	Feet Of Misrun	%gas	%oil	%water	%mud
Rec.	Feet Of plugged Tool	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud

BHT 100 °F Gravity — °API D@ — °F Corrected Gravity — °API

RW — @ — °F Chlorides — ppm Recovery Chlorides 8500 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud			PSI	Recorder No.	11085	T-On Location 1000
(B) First Initial Flow Pressure			PSI	(depth)	3087	T-Started 1015
(C) First Final Flow Pressure			PSI	Recorder No.	13542	T-Open 1115
(D) Initial Shut-In Pressure			PSI	(depth)	3090	T-Pulled 1330
(E) Second Initial Flow Pressure			PSI	Recorder No.	—	T-Out 1500
(F) Second Final Flow Pressure			PSI	(depth)	—	T-Off Location 1510
(G) Final Shut-in Pressure			PSI	Initial Opening	15	Test ✓
(Q) Final Hydrostatic Mud			PSI	Initial Shut-in	30	Jars
				Final Flow	30	Safety Joint ✓
				Final Shut-in	60	Straddle
						Circ. Sub
						Sampler
						Extra Packer
						Elec. Rec.
						Mileage
						Other
						TOTAL PRICE $ ✓

Approved By Robert Stolzle

Our Representative Ray Schwager Thank you

TRILOBITE TESTING L.L.C.

OPERATOR : John O. Farmer, Inc. DATE 3-21-00
WELL NAME: Hoffman "A" #15 KB 1921.00 ft TICKET NO: 12936 DST #3
LOCATION : 7-16s-13w Barton co KS GR 1913.00 ft FORMATION: Lansing C & D
INTERVAL : 3101.00 To 3130.00 ft TD 3130.00 ft TEST TYPE: CONVETIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 15	Rec.	11085	11085			
SI 30	Range(Psi)	4300.0	4300.0	0.0	0.0	0.0
SF 60	Clock(hrs)	12	12			
FS 120	Depth(ft)	3121.0	3121.0	0.0	0.0	0.0

TIME DATA----------
PF Fr. 0250 to 0305 hr
IS Fr. 0305 to 0335 hr
SF Fr. 0335 to 0435 hr
FS Fr. 0435 to 0635 hr

	Field	1	2	3	4
A. Init Hydro	1528.0	1535.0	0.0	0.0	0.0
B. First Flow	88.0	107.0	0.0	0.0	0.0
B1. Final Flow	88.0	95.0	0.0	0.0	0.0
C. In Shut-in	99.0	94.0	0.0	0.0	0.0
D. Init Flow	77.0	83.0	0.0	0.0	0.0
E. Final Flow	77.0	60.0	0.0	0.0	0.0
F. Fl Shut-in	110.0	103.0	0.0	0.0	0.0
G. Final Hydro	1528.0	1511.0	0.0	0.0	0.0
Inside/Outside	O	O			

T STARTED 0130 hr
T ON BOTM 0245 hr
T OPEN 0250 hr
T PULLED 0635 hr
T OUT 0820 hr

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

Tool Wt.	2000.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	84000.00 lbs
Initial Str Wt	43000.00 lbs
Unseated Str Wt	43000.00 lbs
Bot Choke	0.75 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	30.00 ft
D.P. Length	3049.00 ft

RECOVERY
Tot Fluid 91.00 ft of 30.00 ft in DC and 61.00 ft in DP
1.00 ft of Oil
90.00 ft of Muddy water
0.00 ft of 70% water 30% mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 36000.00 P.P.M. A.P.I. Gravity 0.00

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

Mud Type	Chemical
Weight	9.20 lb/c
Vis.	53.00 S/L
W.L.	10.00 in3
F.C.	0.00 in
Mud Drop	

BLOW DESCRIPTION
Initial Flow:
Weak blow throughout. 1/2" to 2" blow
Final Flow:
Weak blow throughout. 1" blow.

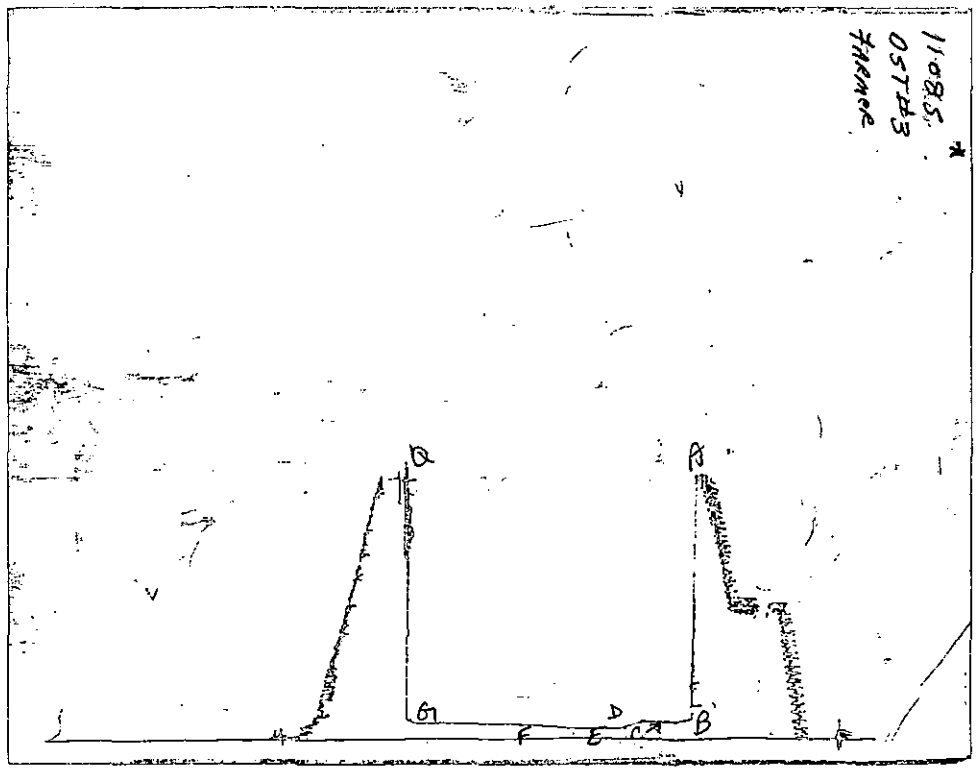
Tool Slid aprrox 5 feet to bottom.

Amt. of fill	0.00 ft
Btm. H. Temp.	1030.00 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	Ray Schwager
Co. Rep.	Robert Stolzle
Contr.	Discovery
Rig #	2
Unit #	
Pump T.	

SAMPLES:
SENT TO:

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

№ 12936

Test Ticket

Well Name & No. Hoffman "A" #15 Test No. 3 Date 3-21-00

Company John O. Farmer, Inc Zone Tested Lansing C & D

Address P.O. Box 352 Russell, Ks 67665 Elevation 1921 KB 1913 GL

Co. Rep / Geo. Bob Stolzle Cont. Discovery rig 2 Est. Ft. of Pay — Por. — %

Location: Sec. 7 Twp. 16 S Rge. 13 W Co. Barton State Ks

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

Interval Tested 3101 - 3130 Initial Str Wt./Lbs. 43000 Unseated Str Wt./Lbs. 43000

Anchor Length 29 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 84000

Top Packer Depth 3096 Tool Weight 2000

Bottom Packer Depth 3101 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes

Total Depth 3130 Wt. Pipe Run — Drill Collar Run 30

Mud Wt. 9.2 LCM 2# Vis. 53 WL 10 Drill Pipe Size 4½ XH Ft. Run 3049

Blow Description IFP - Weak Blow Throughout ½" To 2" Blow

FFP - Weak Blow Throughout 1" Blow

Slid Tool Approx 5' To bottom

Recovery — Total Feet 91 GIP — Ft. in DC 30 Ft. in DP 61

Rec. 1	Feet Of Oil	%gas	%oil		%water	%mud
Rec. 90	Feet Of MW	%gas	%oil	70	%water	30 %mud
Rec.	Feet Of	%gas	%oil		%water	%mud
Rec.	Feet Of	%gas	%oil		%water	%mud
Rec.	Feet Of	%gas	%oil		%water	%mud

BHT 103 °F Gravity — °API D@ — °F Corrected Gravity — °API

RW .31 @ 48 °F Chlorides 36000 ppm Recovery Chlorides 8400 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	1528		PSI	Recorder No.	11085	T-On Location 1:00 am
(B) First Initial Flow Pressure	88		PSI	(depth)	3121	T-Started 1:30
(C) First Final Flow Pressure	88		PSI	Recorder No.	13547	T-Open 2:50
(D) Initial Shut-In Pressure	99		PSI	(depth)	3124	T-Pulled 6:35
(E) Second Initial Flow Pressure	77		PSI	Recorder No.	—	T-Out 8:20
(F) Second Final Flow Pressure	77		PSI	(depth)	—	T-Off Location 9:30
(G) Final Shut-in Pressure	110		PSI	Initial Opening	15	Test ✓
(Q) Final Hydrostatic Mud	1528		PSI	Initial Shut-in	30	Jars
				Final Flow	60	Safety Joint ✓
				Final Shut-in	120	Straddle
						Circ. Sub
						Sampler
						Extra Packer
						Elec. Rec.
						Mileage
						Other
						TOTAL PRICE $ ✓

Approved By Robert Stolzle

Our Representative Ray Schwager Thank you

TRILOBITE TESTING L.L.C.

OPERATOR : John O. Farmer, Inc. DATE 3-21-00
WELL NAME: Hoffman "A" #15 KB 1921.00 ft TICKET NO: 12937 DST #4
LOCATION : 7-16s-13w Barton co KS GR 1913.00 ft FORMATION: Lansing E & F
INTERVAL : 3140.00 To 3171.00 ft TD 3171.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 15	Rec.	11085	11085	13547		
SI 30	Range(Psi)	4300.0	4300.0	4200.0	0.0	0.0
SF 30	Clock(hrs)	12	12	12		
FS 60	Depth(ft)	3163.0	3163.0	3166.0	0.0	0.0

TIME DATA----------
PF Fr. 1740 to 1755 hr
IS Fr. 1755 to 1825 hr
SF Fr. 1825 to 1855 hr
FS Fr. 1855 to 1955 hr

	Field	1	2	3	4
A. Init Hydro	1571.0	1569.0	0.0	0.0	0.0
B. First Flow	88.0	118.0	0.0	0.0	0.0
B1. Final Flow	88.0	109.0	0.0	0.0	0.0
C. In Shut-in	143.0	142.0	0.0	0.0	0.0
D. Init Flow	88.0	128.0	0.0	0.0	0.0
E. Final Flow	88.0	96.0	0.0	0.0	0.0
F. Fl Shut-in	143.0	136.0	0.0	0.0	0.0
G. Final Hydro	1571.0	1569.0	0.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 1630 hr
T ON BOTM 1735 hr
T OPEN 1740 hr
T PULLED 1955 hr
T OUT 2115 hr

RECOVERY
Tot Fluid 50.00 ft of 30.00 ft in DC and 20.00 ft in DP
50.00 ft of Oil cut mud
0.00 ft of 12% oil 88% mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

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

Tool Wt.	2000.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	48000.00 lbs
Initial Str Wt	43000.00 lbs
Unseated Str Wt	43000.00 lbs
Bot Choke	0.75 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	30.00 ft
D.P. Length	3078.00 ft

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

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	46.00 S/L
W.L.	9.20 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	1020.00 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	Ray Schwager
Co. Rep.	Robert Stolzle
Contr.	Discovery
Rig #	2
Unit #	
Pump T.	

BLOW DESCRIPTION
Initial Flow:
Weak blow throughout. 1/4" blow.
Final Flow:
Very weak surface blow throughout.

SAMPLES:
SENT TO:

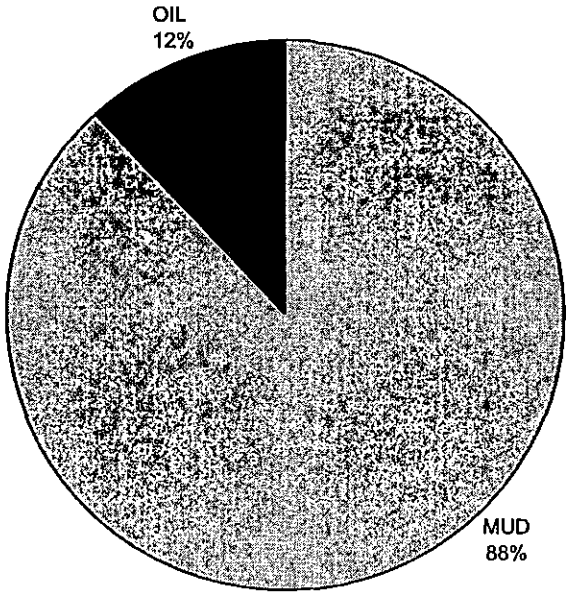
Test Successful: Y

CALCULATED RECOVERY ANALYSIS

DST 4 TICKET 12937

SAMPLE	#	TOTAL FEET	GAS %	GAS FEET	OIL %	OIL FEET	WATER %	WATER FEET	MUD %	MUD FEET
DRILL	1	20	0	0	12	2.4	0	0	88	17.6
PIPE	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0	0
WEIGHT	1	0	0	0	0	0	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
DRILL	1	30	0	0	12	3.6	0	0	88	26.4
COLLARS	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
TOTAL		50	0	0	0	6	0	0	0	44

			HRS OPEN		BBL/DAY
BBL OIL=	0.051732	*	0.75	=	1.655424
BBL WATER=	0	*		=	0
BBL MUD=	0.379368				
BBL GAS =	0				



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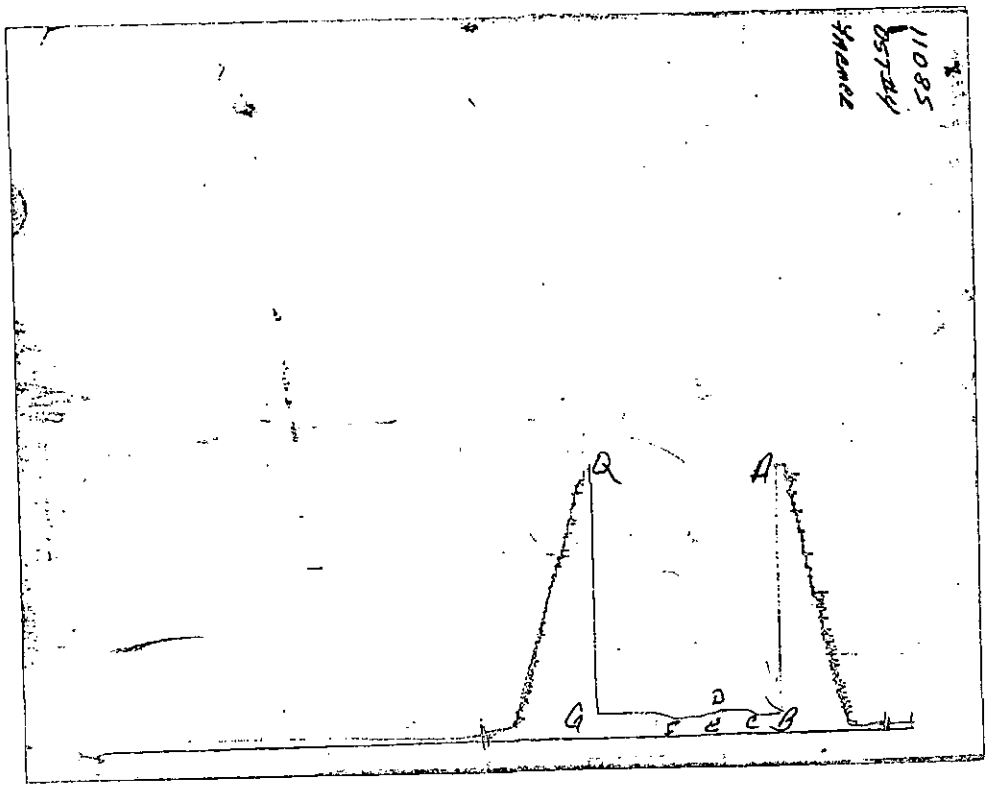


This is a photocopy of the actual AK-1 recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

№ 12937

Test Ticket

Well Name & No. Hoffman "A" #15 Test No. 4 Date 3-21-00

Company John O. Farmer, Inc Zone Tested Lansing E & F

Address P.O. Box 352 Russell, Ks 67665 Elevation 1921 KB 1913 GL

Co. Rep / Geo. Bob Stolzle Cont. Discovery rig 2 Est. Ft. of Pay — Por. — %

Location: Sec. 7 Twp. 16S Rge. 13W Co. BARTON State Ks

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

Interval Tested 3140 - 3171 Initial Str Wt./Lbs. 43000 Unseated Str Wt./Lbs. 43000

Anchor Length 31 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 48000

Top Packer Depth 3135 Tool Weight 2000

Bottom Packer Depth 3140 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes

Total Depth 3171 Wt. Pipe Run — Drill Collar Run 30

Mud Wt. 9.2 LCM 2# Vis. 46 WL 9.2 Drill Pipe Size 4½ XH Ft. Run 3078

Blow Description IFP - WEAK Blow Throughout 1/4" Blow

FFP - Very Weak Blow Throughout surface Blow

Recovery — Total Feet 50 GIP — Ft. in DC 30 Ft. in DP 20

Rec. 50	Feet Of OCM	%gas	12 %oil	%water	88 %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 102 °F Gravity — °API D@ — °F Corrected Gravity — °API

RW — @ — °F Chlorides — ppm Recovery Chlorides 6800 ppm System

	AK-1	Alpine					
(A) Initial Hydrostatic Mud	1571		PSI	Recorder No.	11085	T-On Location	1610
(B) First Initial Flow Pressure	88		PSI	(depth)	3163	T-Started	1630
(C) First Final Flow Pressure	88		PSI	Recorder No.	13547	T-Open	1740
(D) Initial Shut-In Pressure	143		PSI	(depth)	3166	T-Pulled	1955
(E) Second Initial Flow Pressure	88		PSI	Recorder No.	—	T-Out	2115
(F) Second Final Flow Pressure	88		PSI	(depth)	—	T-Off Location	2130
(G) Final Shut-in Pressure	143		PSI	Initial Opening	15	Test	✓
(Q) Final Hydrostatic Mud	1571		PSI	Initial Shut-in	30	Jars	
				Final Flow	30	Safety Joint	✓
				Final Shut-in	60	Straddle	
						Circ. Sub	
						Sampler	
						Extra Packer	
						Elec. Rec.	
						Mileage	
						Other	
						TOTAL PRICE $	✓

Approved By Robert Stolzle, Agent

Our Representative Ray Schwager Thank you

TRILOBITE TESTING L.L.C.

OPERATOR : John O. Farmer DATE 3-22-00
WELL NAME: Hoffman "A" #15 KB 1921.00 ft TICKET NO: 12938 DST #5
LOCATION : 7-16s-13w Barton co KS GR 1913.00 ft FORMATION: Lansing "G"
INTERVAL : 3172.00 To 3200.00 ft TD 3200.00 ft TEST TYPE: COVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 15	Rec.	11085	11085	13547		
SI 30	Range(Psi)	4300.0	4300.0	4200.0	0.0	0.0
SF 60	Clock(hrs)	12	12	12		
FS 120	Depth(ft)	3191.0	3191.0	3194.0	0.0	0.0

TIME DATA----------
PF Fr. 0345 to 0400 hr
IS Fr. 0400 to 0430 hr
SF Fr. 0430 to 0530 hr
FS Fr. 0530 to 0730 hr

	Field	1	2	3	4
A. Init Hydro	1560.0	1611.0	0.0	0.0	0.0
B. First Flow	88.0	128.0	0.0	0.0	0.0
B1. Final Flow	88.0	100.0	0.0	0.0	0.0
C. In Shut-in	154.0	134.0	0.0	0.0	0.0
D. Init Flow	88.0	122.0	0.0	0.0	0.0
E. Final Flow	88.0	91.0	0.0	0.0	0.0
F. Fl Shut-in	154.0	153.0	0.0	0.0	0.0
G. Final Hydro	1560.0	1592.0	0.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 0250 hr
T ON BOTM 0340 hr
T OPEN 0345 hr
T PULLED 0730 hr
T OUT 1030 hr

RECOVERY
Tot Fluid 71.00 ft of 30.00 ft in DC and 41.00 ft in DP
1.00 ft of Clean oil
).00 ft of 100% oil
10.00 ft of Oil cut mud
).00 ft of 5% oil 95% mud
30.00 ft of Slightly oil cut watery mud
).00 ft of 1% oil 40% water 59% mud
1.00 ft of
1.00 ft of
SALINITY 27000.00 P.P.M. A.P.I. Gravity 0.00

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

Tool Wt.	2000.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	60000.00 lbs
Initial Str Wt	43000.00 lbs
Unseated Str Wt	44000.00 lbs
Bot Choke	0.75 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	30.00 ft
D.P. Length	3120.00 ft

FLOW DESCRIPTION
Initial Flow:
Weak blow throughout. 1/2" to 2" blow
Final Flow:
Weak blow throughout. 1/2" blow.

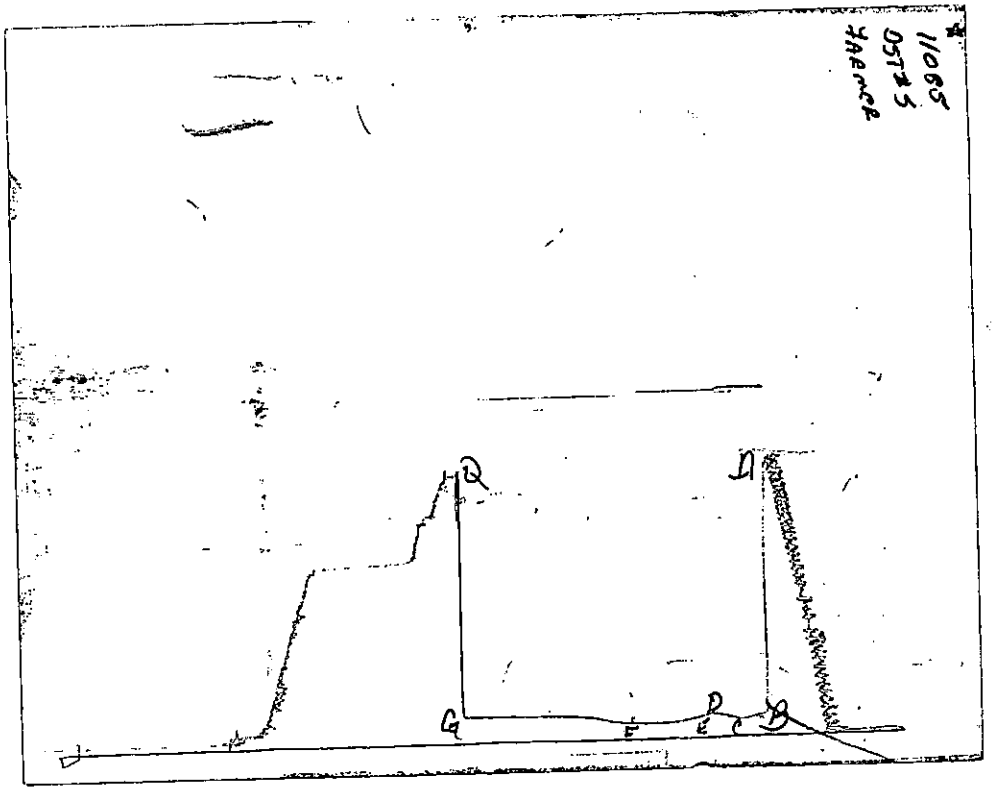
MUD DATA----------

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	46.00 S/L
W.L.	9.20 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	1040.00 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	Ray Schwager
Co. Rep.	Robert Stolzle
Contr.	Discovery
Rig #	2
Unit #	
Pump T.	

SAMPLES:
SENT TO:

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

№ 12938

Test Ticket

Well Name & No. Hoffman "A" #15 Test No. 5 Date 3-22-00

Company John O. Farmer, Inc Zone Tested Lansing "G"

Address P.O. Box 352 Russell, Ks 67665 Elevation 1921 KB 1913 GL

Co. Rep / Geo. Bob Stolzle Cont. Discovery rig 2 Est. Ft. of Pay — Por. — %

Location: Sec. 7 Twp. 16S Rge. 13W Co. BARTON State Ks

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

Interval Tested 3172 - 3200 Initial Str Wt./Lbs. 43000 Unseated Str Wt./Lbs. 44000

Anchor Length 28 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 60000

Top Packer Depth 3167 Tool Weight 2000

Bottom Packer Depth 3172 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes

Total Depth 3200 Wt. Pipe Run — Drill Collar Run 30

Mud Wt. 9.2 LCM 2# Vis. 46 WL 9.2 Drill Pipe Size 4½ XH Ft. Run 3120

Blow Description IFP - Weak Blow Throughout ½" To 2" Blow

FFP - Weak Blow Throughout ½" Blow

Recovery — Total Feet 71 GIP — Ft. in DC 30 Ft. in DP 41

Rec. 1	Feet Of CO	%gas	%oil	%water	%mud
Rec. 40	Feet Of OCM	%gas	5 %oil	%water	95 %mud
Rec. 30	Feet Of SOCWM	%gas	1 %oil	40 %water	59 %mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud

BHT 104° °F Gravity — °API D@ — °F Corrected Gravity — °API

RW .34 @ 57 °F Chlorides 27000 ppm Recovery Chlorides 6800 ppm System

	AK-1	Alpine					
(A) Initial Hydrostatic Mud	1560		PSI	Recorder No.	11085	T-On Location	230
(B) First Initial Flow Pressure	88		PSI	(depth)	3191	T-Started	250
(C) First Final Flow Pressure	88		PSI	Recorder No.	13547	T-Open	345
(D) Initial Shut-In Pressure	154		PSI	(depth)	3194	T-Pulled	730
(E) Second Initial Flow Pressure	88		PSI	Recorder No.	—	T-Out	1030
(F) Second Final Flow Pressure	88		PSI	(depth)	—	T-Off Location	1045
(G) Final Shut-in Pressure	154		PSI	Initial Opening	15	Test	✓
(Q) Final Hydrostatic Mud	1560		PSI	Initial Shut-in	30	Jars	
				Final Flow	60	Safety Joint	✓
				Final Shut-in	120	Straddle	
						Circ. Sub	
						Sampler	
						Extra Packer	
						Elec. Rec.	
						Mileage	
						Other	
						TOTAL PRICE $	✓

Approved By Robert Stolzle Agent

Our Representative Ray Schwager Thank you

TRILOBITE TESTING L.L.C.

OPERATOR : John O. Farmer, Inc. DATE 3-23-00
WELL NAME: Hoffman "A" #15 KB 1921.00 ft TICKET NO: 12939 DST #6
LOCATION : 7-16s-13w Barton co KS GR 1913.00 ft FORMATION: Lansing
INTERVAL : 3215.00 To 3380.00 ft TD 3380.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

	Mins		Field	1	2	3	4
PF	15	Rec.	11085	11085	13547		
SI	30	Range(Psi)	4300.0	4300.0	4200.0	0.0	0.0
SF	30	Clock(hrs)	12	12	12		
FS	60	Depth(ft)	3218.0	3218.0	3221.0	0.0	0.0

TIME DATA----------
PF Fr. 1445 to 1500 hr
IS Fr. 1500 to 1530 hr
SF Fr. 1530 to 1600 hr
FS Fr. 1600 to 1700 hr

	Field	1	2	3	4
A. Init Hydro	1603.0	1584.0	0.0	0.0	0.0
B. First Flow	77.0	88.0	0.0	0.0	0.0
B1. Final Flow	66.0	80.0	0.0	0.0	0.0
C. In Shut-in	352.0	344.0	0.0	0.0	0.0
D. Init Flow	77.0	84.0	0.0	0.0	0.0
E. Final Flow	66.0	70.0	0.0	0.0	0.0
F. Fl Shut-in	319.0	325.0	0.0	0.0	0.0
G. Final Hydro	1625.0	1616.0	0.0	0.0	0.0
Inside/Outside	O	O			

T STARTED 1310 hr
T ON BOTM 1440 hr
T OPEN 1445 hr
T PULLED 1700 hr
T OUT 1845 hr

RECOVERY
Tot Fluid 20.00 ft of 20.00 ft in DC and 0.00 ft in DP
20.00 ft of Mud w/ slight show of oil
0.00 ft of 100% mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

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

Tool Wt.	2000.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	75000.00 lbs
Initial Str Wt	43000.00 lbs
Unseated Str Wt	43000.00 lbs
Bot Choke	0.75 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	30.00 ft
D.P. Length	3163.00 ft

BLOW DESCRIPTION
Initial Flow:
Weak blow throughout 1/4" blow.
Final Flow:
Very weak surface blow, died in approximately 15 minutes.

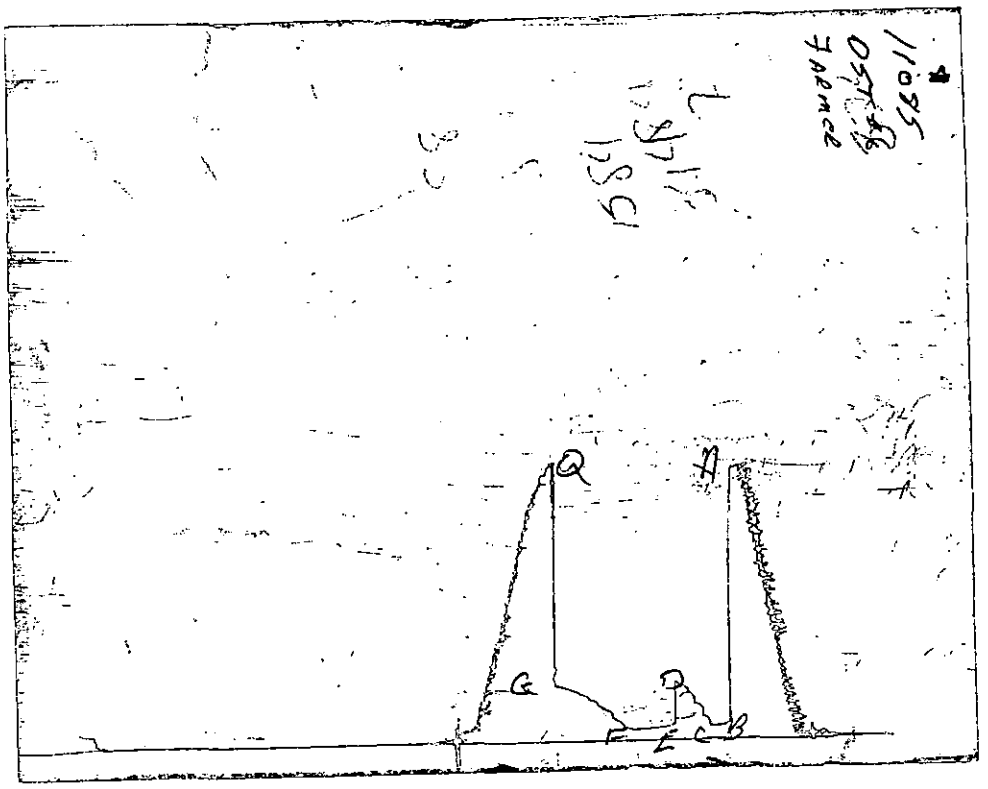
MUD DATA----------

Mud Type	Chemical
Weight	9.20 lb/c
Vis.	52.00 S/L
W.L.	9.00 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	1050.00 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	Ray Schwager
Co. Rep.	Robert Stolzle
Contr.	Discovery
Rig #	2
Unit #	
Pump T.	

SAMPLES:
SENT TO:

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

№ 12939

Test Ticket

Well Name & No. Hoffman "A" #15 Test No. 6 Date 3-23-00

Company John O. Farmer, Inc. Zone Tested Lansing

Address P.O. Box 352 Russell, KS 67665 Elevation 1921 KB 1913 GL

Co. Rep / Geo. Bob Stolzle Cont. Discovery Rig 2 Est. Ft. of Pay — Por. — %

Location: Sec. 7 Twp. 16S Rge. 13W Co. Barton State Ks

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

Interval Tested 3215 - 3380 Initial Str Wt./Lbs. 43000 Unseated Str Wt./Lbs. 43000

Anchor Length 165 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 75000

Top Packer Depth 3210 Tool Weight 2000

Bottom Packer Depth 3215 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes

Total Depth 3380 Wt. Pipe Run — Drill Collar Run 30

Mud Wt. 9.2 LCM 2# Vis. 42 WL 9 Drill Pipe Size 4½XH Ft. Run 3163

Blow Description IFP - Weak Blow Throughout ½" Blow

FFP - Very Weak surface Blow, died in Approx 15 min

Recovery — Total Feet 20 GIP — Ft. in DC 20 Ft. in DP —

Rec. 20	Feet Of Mud	%gas	%oil	%water	%mud
Rec.	Feet Of w/slight show of oil	%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 105 °F Gravity — °API D@ — °F Corrected Gravity — °API

RW — @ — °F Chlorides — ppm Recovery Chlorides 7800 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	1603		PSI	Recorder No.	11085	T-On Location 1200
(B) First Initial Flow Pressure	77		PSI	(depth)	3218	T-Started 1310
(C) First Final Flow Pressure	66		PSI	Recorder No.	13547	T-Open 1446
(D) Initial Shut-In Pressure	352		PSI	(depth)	3221	T-Pulled 1700
(E) Second Initial Flow Pressure	77		PSI	Recorder No.	—	T-Out 1845
(F) Second Final Flow Pressure	66		PSI	(depth)	—	T-Off Location 1930
(G) Final Shut-in Pressure	319		PSI	Initial Opening	15	Test ✓
(Q) Final Hydrostatic Mud	1625		PSI	Initial Shut-in	30	Jars
				Final Flow	30	Safety Joint ✓
				Final Shut-in	60	Straddle
						Circ. Sub
						Sampler
						Extra Packer
						Elec. Rec.
						Mileage
						Other
						TOTAL PRICE $ —

Approved By Robert Stolzle

Our Representative Ray Schwager Thank you