

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

API NO. 15- 109-20,570-00-00

ORIGINAL

County Logan
45' East of
- NE - SW - SE Sec. 6 Twp. 13S Rge. 33W X W

Operator: License # 5135

Name: John O. Farmer, Inc.

Address P.O. Box 252

CONFIDENTIAL

City/State/Zip Russell, KS 67665

Purchaser: Farmland Industries, Inc.

Operator Contact Person: John O. Farmer III

Phone (913) 483-3144

Contractor: Name: Emphasis Oil Operations

License: 8241

Wellsite Geologist: Martin K. Dubois

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD S10W 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 PBDT
Commingled Docket No.
Dual Completion Docket No.
Other (SWD or Inj?) Docket No.

9-21-94 10-1-94 10-14-94
Spud Date Date Reached TD Completion Date

990 Feet from (S)N (circle one) Line of Section
1605 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 Ruby Dirks Well # 3

Field Name Logansport NW

Producing Formation Lansing "K"

Elevation: Ground 3007' KB 3012'

Total Depth 4625' PBDT

Amount of Surface Pipe Set and Cemented at 243 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 1956 Feet

If Alternate II completion, cement circulated from 1956

feet depth to surface w/ 400 sx cmt.

Drilling Fluid Management Plan ALT 2 11-22-95
(Data must be collected from the Reserve Pit)

Chloride content 29,000 ppm Fluid volume 1,800 bbls

Dewatering method used evaporation

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

Operator Name

Lease Name License No. 2

Quarter Sec. Twp. **CONFIDENTIAL**

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 this 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-114 form with all temporarily abandoned wells.

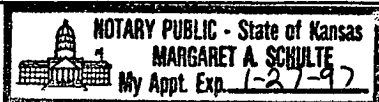
All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature John O. Farmer III
Title President Date 1-12-95

Subscribed and sworn to before me this 12th day of January, 1995.

Notary Public Margaret A. Schulte
Margaret A. Schulte

Date Commission Expires



K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received

Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

ORIGINAL

Operator Name John O. Farmer, Inc. Lease Name Ruby Dirks Well #
 County Logan
 Sec. 6 Twp. 13S Rge. 33W
 East
 West

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

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<table border="0"> <tr> <td><input checked="" type="checkbox"/> Log</td> <td>Formation (Top), Depth and Datum</td> <td><input type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>Base/Anhydrite</td> <td>2463'</td> <td>(+549)</td> </tr> <tr> <td>Wabaunsee</td> <td>3529'</td> <td>(-517)</td> </tr> <tr> <td>Heebner</td> <td>3878'</td> <td>((-866)</td> </tr> <tr> <td>Lansing</td> <td>3921'</td> <td>(-909)</td> </tr> <tr> <td>Stark</td> <td>4168'</td> <td>(-1156)</td> </tr> <tr> <td>Base/Kansas City</td> <td>4246'</td> <td>(-1234)</td> </tr> <tr> <td>Cherokee</td> <td>4445'</td> <td>(-1433)</td> </tr> <tr> <td>Johnson zone</td> <td>4493'</td> <td>(-1481)</td> </tr> <tr> <td>Cherokee Sand</td> <td>4562'</td> <td>(-1550)</td> </tr> <tr> <td>Mississippi</td> <td>4602'</td> <td>(-1590)</td> </tr> <tr> <td>L.T.D.</td> <td>4626'</td> <td>(-1614)</td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample	Name	Top	Datum	Base/Anhydrite	2463'	(+549)	Wabaunsee	3529'	(-517)	Heebner	3878'	((-866)	Lansing	3921'	(-909)	Stark	4168'	(-1156)	Base/Kansas City	4246'	(-1234)	Cherokee	4445'	(-1433)	Johnson zone	4493'	(-1481)	Cherokee Sand	4562'	(-1550)	Mississippi	4602'	(-1590)	L.T.D.	4626'	(-1614)
<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum		<input type="checkbox"/> Sample																																						
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Mississippi	4602'	(-1590)																																							
L.T.D.	4626'	(-1614)																																							
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																								
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																								
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																								
List All E.Logs Run:																																									
Compensated Neutron Density																																									
Dual Induction																																									
Cement Bond																																									

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	23#	243'	60/40 Pozmix	150	2% 3% C.C., gel
Production	7-7/8"	5-1/2"	17# & 15 1/2#	4304'	EA-2	175	10% salt
D.V. Tool				1956'	60/40 Pozmix	400	6% gel

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	Acid, Fracture, Shot, Cement Squeeze Record
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used) Depth
4 SPF	4180-85'	1000 gals. 15% NE 4180-85'

TUBING RECORD	Size <u>2-1/2"</u>	Set At <u>4264'</u>	Packer At <u>--</u>	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
October 19, 1994				
Estimated Production Per 24 Hours	Oil 20 Bbls.	Gas -- Mcf	Water 20 Bbls.	Gas-Oil Ratio -- Gravity 30° API

Disposition of Gas:	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, submit ACO-18.)	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify)	<u>4180-85'</u>

CONFIDENTIAL

ORIGINAL

EMPHASIS OIL OPERATIONS

A Division of N-B Company, Inc.

P. O. BOX 506

RUSSELL, KS 67665

DRILLERS LOG

API # 15-109-20570.0000

OPERATOR: John O. Farmer, Inc.
P. O. Box 352
Russell, Kansas 67665

CONTRACTOR: Emphasis Oil Operations
Box 506
Russell, KS 67665

LEASE: Ruby Dirks WELL #3

45' East of
LOCATION: NE SW SE
Section 6-13S-33W
Logan County, Kansas

RELEASED

LOGGERS TOTAL DEPTH: ~~4625'~~ 4626'

MAR 14 1996

ROTARY TOTAL DEPTH: 4625'

FROM CONFIDENTIAL

ELEVATION: 3012' K.B.

COMMENCED: 9/21/94

COMPLETED: 10/2/94

CASING: 8-5/8" @ 243' w/150 sks cement
5-1/2" @ 4303' w/175 sks cement (First Stage)
w/400 sks cement (Second Stage)

STATUS: Oil Well

KCC
JAN 12
CONFIDENTIAL

DEPTHS & FORMATIONS

(All measurements from K.B.)

Sand & Shale	245'	Lansing-Kansas City	3966'
Shale	2114'	Shale & Lime	4190'
Anhydrite	2442'	Lime	4300'
Shale	2464'	Johnston	4510'

RECEIVED
STATE CORPORATION COMMISSION

JAN 13 1995

CONSERVATION DIVISION
MONTANA, KANSAS

CONFIDENTIAL

TRILOBITE TESTING, L.L.C. ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data *API #15-109-20570*

Well Name RUBY DIRKS #3 Test No. 1 Date 9/26/94
 Company JOHN O FARMER INC Zone TORONTO
 Address P.O. BOX 352 RUSSELL KS 67665 Elevation 3010
 Co. Rep./Geo. MARTIN DUBDIS Cont. EMPHASIS #7 Est. Ft. of Pay _____
 Location: Sec. 6 Twp. 13S Rge. 33W Co. LOGAN State KS

Interval Tested 3877-3908 Drill Pipe Size 4.5" XH
 Anchor Length 31 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 3872 Drill Collar - 2.25 Ft. Run 29
 Bottom Packer Depth 3877 Mud Wt. _____ lb/Gal. 8.8
 Total Depth 3908 Viscosity 46 Filtrate 8.8

Tool Open @ 7:30 A.M. Initial Blow SURFACE TO BOTTOM OF BUCKET IN 3 1/2 MIN - ISI: NO RET
 Final Blow SURFACE TO BOTTOM OF BUCKET IN 4 1/2 MIN - FSI: NO RETURN BLOW

RELEASED

Recovery - Total Feet 1320 Flush Tool? NO

Rec. 60 Feet of GAS IN PIPE
 Rec. 2 Feet of CLEAN GAS OIL 5%GAS/95%OIL
 Rec. 180 Feet of GAS OIL WATER CUT MUD 5%GAS/15%OIL/20%WATER 60%MUD
 Rec. 240 Feet of GAS OIL MUD CUT WATER 5%GAS/10%OIL/70%WATER/15%MUD
 Rec. 898 Feet of SLIGHT MUD CUT WATER 95%WATER/5%MUD

SBHT 119 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.3 @ _____ °F Chlorides 23000 ppm Recovery Chlorides 4000 ppm System

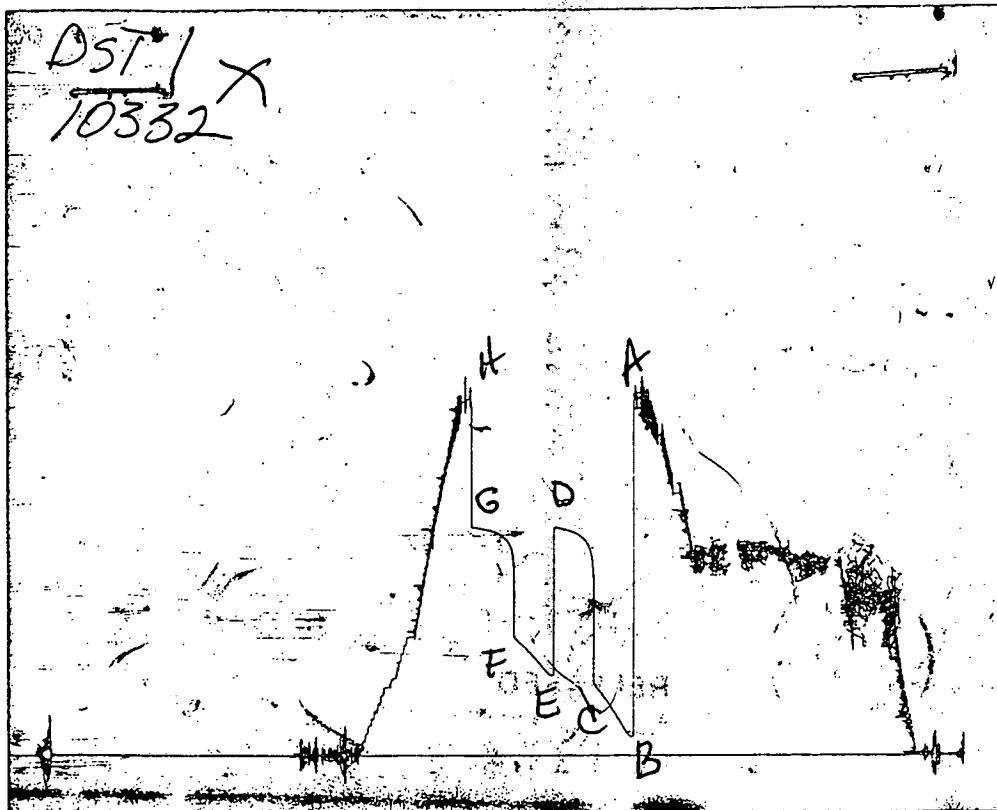
(A) Initial Hydrostatic Mud 1891.8 PSI AK1 Recorder No. 11086 Range 4350
 (B) First Initial Flow Pressure 109.3 PSI @ (depth) 3883 w/ Clock No. 25828
 (C) First Final Flow Pressure 373.4 PSI AK1 Recorder No. 10332 Range 4050
 (D) Initial Shut-in Pressure 1169.3 PSI @ (depth) 3902' w/ Clock No. 25114
 (E) Second Initial Flow Pressure 414.9 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 606.7 PSI @ (depth) _____ w/ Clock No. _____
 (G) Final Shut-in Pressure 1168.3 PSI Initial Opening 30 Final Flow 30
 (H) Final Hydrostatic Mud 1882.6 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative GARY SPEER

not
JAN 12
CONFIDENTIAL

AMIRAO

CHART PAGE



This is an actual photograph of recorder chart 10332

	FIELD READING	OFFICE READING
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(A) INITIAL HYDROSTATIC MUD	1855	1891.8
(B) FIRST INITIAL FLOW PRESSURE	101	109.3
(C) FIRST FINAL FLOW PRESSURE	374	373.4
(D) INITIAL CLOSED-IN PRESSURE	1175	1169.3
(E) SECOND INITIAL FLOW PRESSURE	425	414.9
(F) SECOND FINAL FLOW PRESSURE	617	606.7
(G) FINAL CLOSED-IN PRESSURE	1175	1168.3
(H) FINAL HYDROSTATIC MUD	1834	1882.6

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name RUBY DIRKS #3 Test No. 2 Date 9/26/94
Company JOHN O FARMER INC Zone LANSING "A"
Address P.O. BOX 352 RUSSELL KS 67665 Elevation 3010
Co. Rep./Geo. MARTIN DUBDIS Cont. EMPHASIS #7 Est. Ft. of Pay _____
Location: Sec. 6 Twp. 13S Rge. 33W Co. LOGAN State KS

Interval Tested 3917-3930 Drill Pipe Size 4.5" XH
Anchor Length 13 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3912 Drill Collar - 2.25 Ft. Run 29
Bottom Packer Depth 3917 Mud Wt. 8.8 lb/Gal.
Total Depth 3930 Viscosity 46 Filtrate 8.8

Tool Open @ 7:10 P.M. Initial Blow SURFACE TO BOTTOM OF BUCKET IN 2 1/2 MIN - ISI: NO RET
Final Blow SURFACE TO BOTTOM OF BUCKET IN 4 MIN - FSI: NO RETURN BLOW

Recovery - Total Feet 1210 Flush Tool? NO

Rec. 120 Feet of GAS IN PIPE
Rec. 520 Feet of CLEAN GAS OIL 30%GAS/70%OIL
Rec. 150 Feet of SLIGHT MUD GAS OIL CUT WATER 30%GAS/30%OIL/35%WATER/5%
Rec. 120 Feet of SLIGHT OIL CUT MUD WATER 5%OIL/50%WATER/45%MUD
Rec. 420 Feet of MUD CUT WATER 90%WATER/10%MUD

BHT 122 °F Gravity 32 °API @ 70 °F Corrected Gravity 31 °API
RW 0.38 @ 60 °F Chlorides 21000 ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 1879.5 PSI AK1 Recorder No. 11086 Range 4350

(B) First Initial Flow Pressure 156.8 PSI @ (depth) 3919 w / Clock No. 25828

(C) First Final Flow Pressure 340.0 PSI AK1 Recorder No. 10332 Range 4050

(D) Initial Shut-in Pressure 1149.2 PSI @ (depth) 3917' w / Clock No. 25114

(E) Second Initial Flow Pressure 371.4 PSI AK1 Recorder No. _____ Range _____

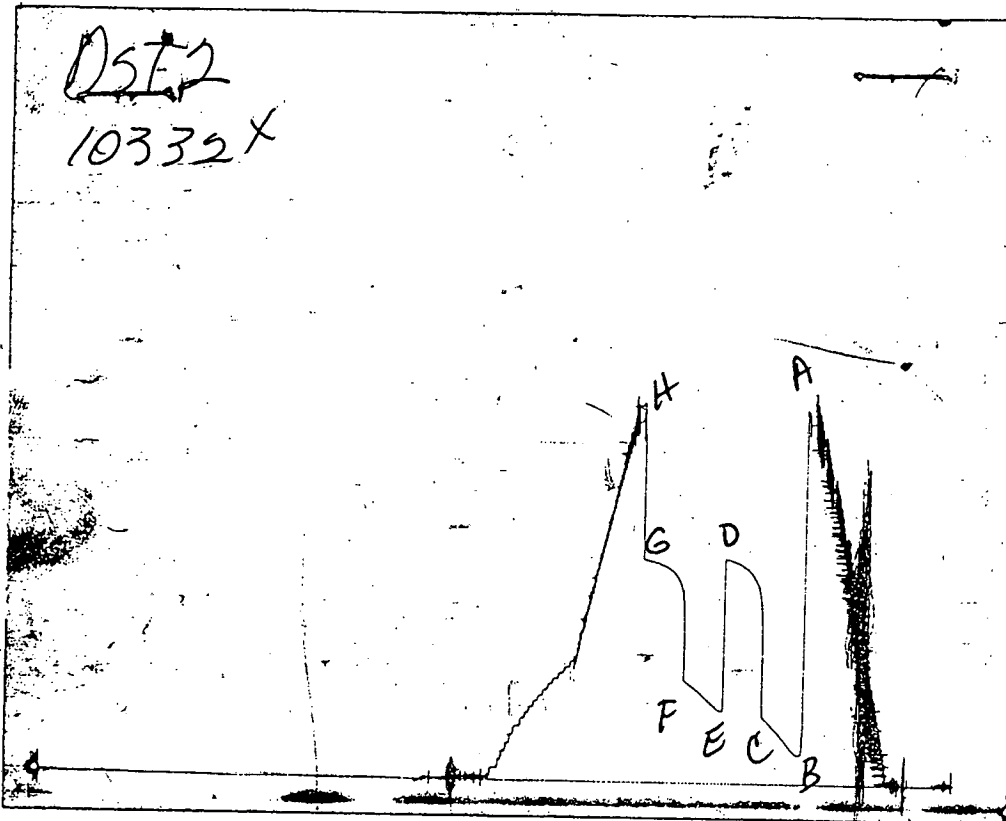
(F) Second Final Flow Pressure 521.3 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1139.1 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1916.3 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative GARY SPEER

CHART PAGE



This is an actual photograph of recorder chart 10332

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1844	1879.5
(B) FIRST INITIAL FLOW PRESSURE	151	156.8
(C) FIRST FINAL FLOW PRESSURE	344	340
(D) INITIAL CLOSED-IN PRESSURE	1145	1149.2
(E) SECOND INITIAL FLOW PRESSURE	364	371.4
(F) SECOND FINAL FLOW PRESSURE	506	521.3
(G) FINAL CLOSED-IN PRESSURE	1145	1139.1
(H) FINAL HYDROSTATIC MUD	1926	1916.3

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name RUBY DIRKS #3 Test No. 3 Date 9/27/94
Company JOHN O FARMER INC Zone LANSING "B"
Address P.O. BOX 352 RUSSELL KS 67665 Elevation 3010
Co. Rep./Geo. MARTIN DUBDIS Cont. EMPHASIS #7 Est. Ft. of Pay _____
Location: Sec. 6 Twp. 13S Rge. 33W Co. LOGAN State KS

Interval Tested 3942-3966 Drill Pipe Size 4.5" XH
Anchor Length 24 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3935 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3942 Mud Wt. 8.9 lb/Gal.
Total Depth 3966 Viscosity 49 Filtrate 8.8

Tool Open @ 10:30 Initial Blow FAIR STEADY BLOW FROM SURFACE TO 12" IN 30 MIN
ISI: NO RETURN BLOW
Final Blow FAIR STEADY BLOW FROM SURFACE TO 12" IN 35 MIN
FSI: NO RETURN BLOW

Recovery - Total Feet 545 Flush Tool? NO

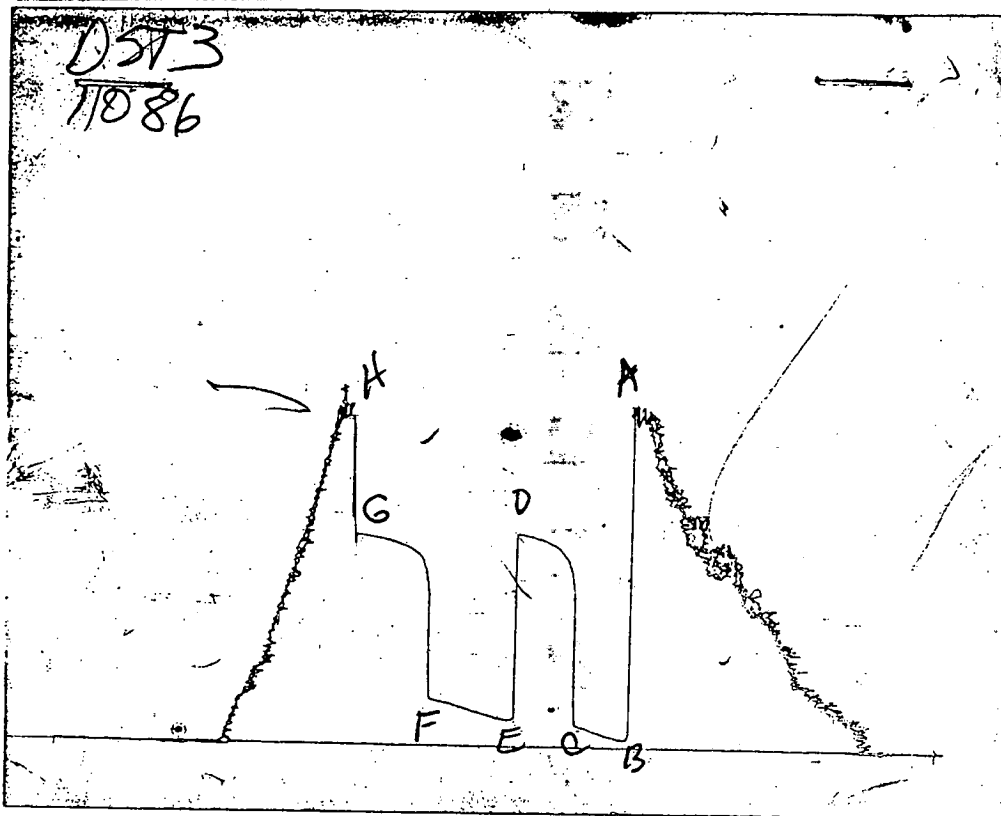
Rec. 185 Feet of WATER CUT MUD 40%WATER/60%MUD
Rec. 360 Feet of SLIGHT MUD CUT STAINED WATER 95%WATER/5%MUD
Rec. _____ Feet of SLIGHT SHOW OF OIL
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 122 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.19 @ 88 °F Chlorides 30000 ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 1819.5 PSI AK1 Recorder No. 11086 Range 4350
(B) First Initial Flow Pressure 46.9 PSI @ (depth) 3945 w / Clock No. 25828
(C) First Final Flow Pressure 122.2 PSI AK1 Recorder No. 10332 Range 4050
(D) Initial Shut-in Pressure 1180.1 PSI @ (depth) 3960' w / Clock No. 25114
(E) Second Initial Flow Pressure 149.5 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 258.7 PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure 1168.1 PSI Initial Opening _____ Final Flow _____
(H) Final Hydrostatic Mud 1786.9 PSI Initial Shut-in _____ Final Shut-in _____

Our Representative GARY SPEER

CHART PAGE



This is an actual photograph of recorder chart 11086

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1804	1819.5
(B) FIRST INITIAL FLOW PRESSURE	32	46.9
(C) FIRST FINAL FLOW PRESSURE	109	122.2
(D) INITIAL CLOSED-IN PRESSURE	1172	1180.1
(E) SECOND INITIAL FLOW PRESSURE	141	149.5
(F) SECOND FINAL FLOW PRESSURE	240	258.7
(G) FINAL CLOSED-IN PRESSURE	1205	1168.1
(H) FINAL HYDROSTATIC MUD	1793	1786.9

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name RUBY DIRKS #3 Test No. 4 Date 9/28/94
Company JOHN O FARMER INC Zone KC "D&E"
Address P.O. BOX 352 RUSSELL KS 67665 Elevation 3010
Co. Rep./Geo. MARTIN DUBDIS Cont. EMPHASIS #7 Est. Ft. of Pay _____
Location: Sec. 6 Twp. 13S Rge. 33W Co. LOGAN State KS

Interval Tested 3971-4017 Drill Pipe Size 4.5" XH
Anchor Length 46 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3966 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3971 Mud Wt. 8.9 lb/Gal.
Total Depth 4017 Viscosity 49 Filtrate 8.8

Tool Open @ 2:55 A.M. Initial Blow FAIR STEADY BLOW FROM SURFACE TO 11"
ISI: NO RETURN BLOW
Final Blow FAIR STEADY BLOW FROM SURFACE TO 11"
FSI: NO RETURN BLOW

Recovery - Total Feet 235 Flush Tool? NO

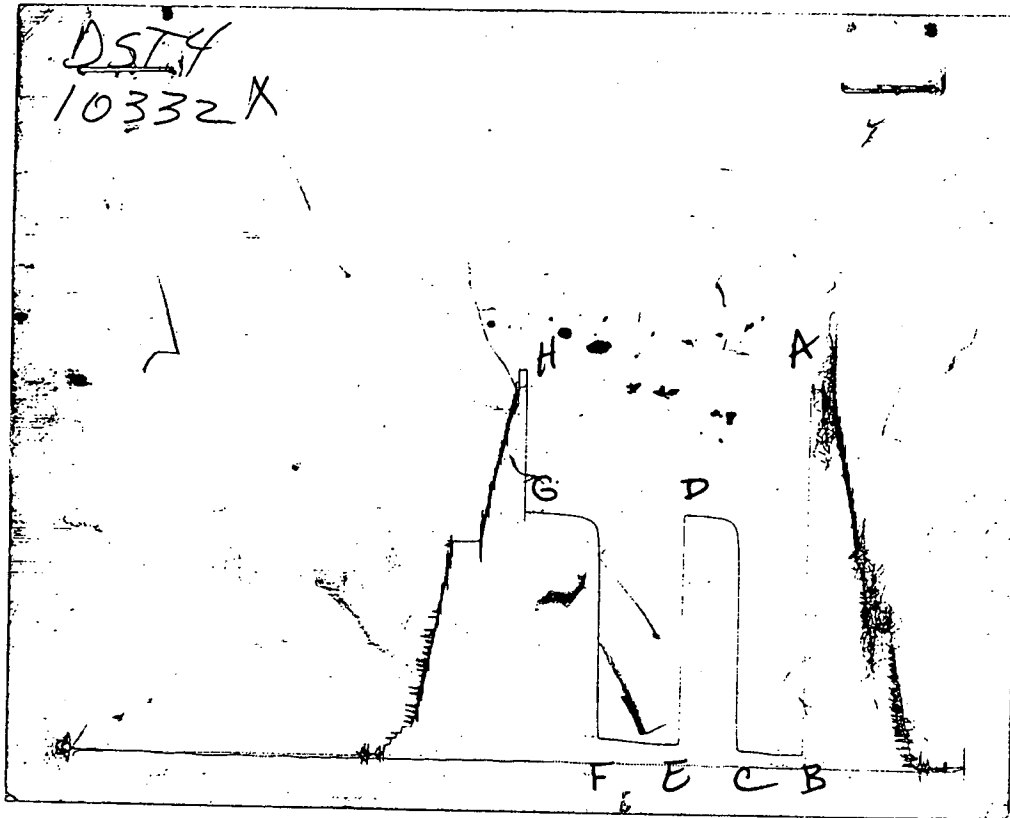
Rec. 125 Feet of GAS IN PIPE
Rec. 195 Feet of CLEAN GAS & OIL 15%GAS/85%OIL
Rec. 40 Feet of GAS OIL CUT MUD 10%GAS/10%OIL/80%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 120 °F Gravity 37 °API @ 80 °F Corrected Gravity 35 °API
RW 0.8 @ 90 °F Chlorides 6000 ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 1928.5 PSI AK1 Recorder No. 11086 Range 4350
(B) First Initial Flow Pressure 69.8 PSI @ (depth) 3974 w / Clock No. 25828
(C) First Final Flow Pressure 87.0 PSI AK1 Recorder No. 10332 Range 4050
(D) Initial Shut-in Pressure 1283.2 PSI @ (depth) 3965' w / Clock No. 25114
(E) Second Initial Flow Pressure 108.3 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 134.6 PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure 1280.2 PSI Initial Opening 45 Final Flow 60
(H) Final Hydrostatic Mud 1910.1 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative GARY SPEER

CHART PAGE



This is an actual photograph of recorder chart 10332

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1936	1928.5
(B) FIRST INITIAL FLOW PRESSURE	70	69.8
(C) FIRST FINAL FLOW PRESSURE	80	87
(D) INITIAL CLOSED-IN PRESSURE	1276	1283.2
(E) SECOND INITIAL FLOW PRESSURE	101	108.3
(F) SECOND FINAL FLOW PRESSURE	121	134.6
(G) FINAL CLOSED-IN PRESSURE	1276	1280.2
(H) FINAL HYDROSTATIC MUD	1926	1910.1

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name RUBY DIRKS #3 Test No. 5 Date 9/28/94
Company JOHN O FARMER INC Zone KC "I"
Address P.O. BOX 352 RUSSELL KS 67665 Elevation 3010
Co. Rep./Geo. MARTIN DUBOIS Cont. EMPHASIS #7 Est. Ft. of Pay _____
Location: Sec. 6 Twp. 13S Rge. 33W Co. LOGAN State KS

Interval Tested 4108-4140 Drill Pipe Size 4.5" XH
Anchor Length 32 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4103 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4108 Mud Wt. 9.0 lb/Gal.
Total Depth 4140 Viscosity 45 Filtrate 8.4

Tool Open @ 12:10 A.M. Initial Blow FARI STEADY BUILDING BLOW FROM SURFACE TO BOTTOM OF BU
IN 22 MIN ISI:-NO RETURN BLOW
Final Blow FAIR STEADY BUILDING BLOW FROM SURFACE TO BOTTOM OF BUCKET IN 37 M
FSI: NO RETURN BLOW

Recovery - Total Feet _____ Flush Tool? NO

Rec. 40 Feet of GAS IN PIPE
Rec. 50 Feet of CLEAN GAS OIL 10%GAS/90%OIL
Rec. 120 Feet of GAS OIL WATER CUT MUD 10%GAS/10%OIL/10%WATER/70%MUD
Rec. 180 Feet of SLIGHT GAS OIL MUD CUT WATER 5%GAS/5%OIL/60%WATER/30%M
Rec. _____ Feet of _____

BHT 122 °F Gravity 35 °API @ 70 °F Corrected Gravity 34 °API
RW 0.27 @ 57 °F Chlorides 30000 ppm Recovery Chlorides 6500 ppm System

(A) Initial Hydrostatic Mud 1982.3 PSI AK1 Recorder No. 11086 Range 4350

(B) First Initial Flow Pressure 50.6 PSI @ (depth) 4111 w / Clock No. 26199

(C) First Final Flow Pressure 112.3 PSI AK1 Recorder No. 10332 Range 4050

(D) Initial Shut-in Pressure 1208.6 PSI @ (depth) 4136 w / Clock No. 25114

(E) Second Initial Flow Pressure 131.5 PSI AK1 Recorder No. _____ Range _____

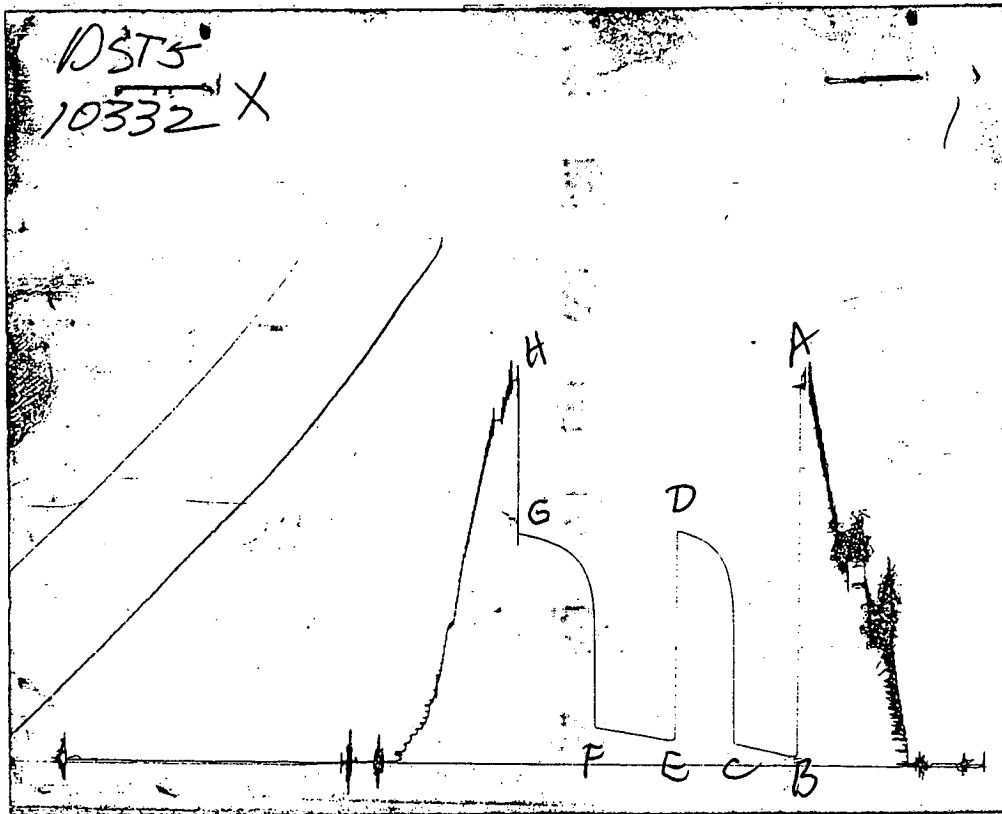
(F) Second Final Flow Pressure 192.3 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1190.5 PSI Initial Opening 45 Final Flow 60

(H) Final Hydrostatic Mud 1982.3 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative GARY SPEER

CHART PAGE



This is an actual photograph of recorder chart 10332

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1977	1982.3
(B) FIRST INITIAL FLOW PRESSURE	40	50.6
(C) FIRST FINAL FLOW PRESSURE	111	112.3
(D) INITIAL CLOSED-IN PRESSURE	1195	1208.6
(E) SECOND INITIAL FLOW PRESSURE	121	131.5
(F) SECOND FINAL FLOW PRESSURE	202	192.3
(G) FINAL CLOSED-IN PRESSURE	1195	1190.5
(H) FINAL HYDROSTATIC MUD	1977	1982.3

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

15-109-20570-0000

Drill-Stem Test Data

Well Name RUBY DIRKS #3 Test No. 6 Date 9/29/94
Company JOHN O FARMER INC Zone KC "K"
Address P.O. BOX 352 RUSSELL KS 67665 Elevation 3010
Co. Rep./Geo. MARTIN DUBOIS Cont. EMPHASIS #7 Est. Ft. of Pay _____
Location: Sec. 6 Twp. 13S Rge. 33W Co. LOGAN State KS

Interval Tested 4166-4190 Drill Pipe Size 4.5" XH
Anchor Length 24 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4161 Drill Collar - 2:25 Ft. Run _____
Bottom Packer Depth 4166 Mud Wt. 9.1 lb/Gal.
Total Depth 4190 Viscosity 45 Filtrate 8.8

Tool Open @ 3:45 P.M. Initial Blow FROM SURFACE TO BOTTOM OF BUCKET IN 4 1/2 MIN
ISI: WEAK BLOW FROM SURFACE TO 2"
Final Blow FROM SURFACE TO BOTTOM OF BUCKET IN 5 MIN
FSI: WEAK STEADY BUILED TO 4"

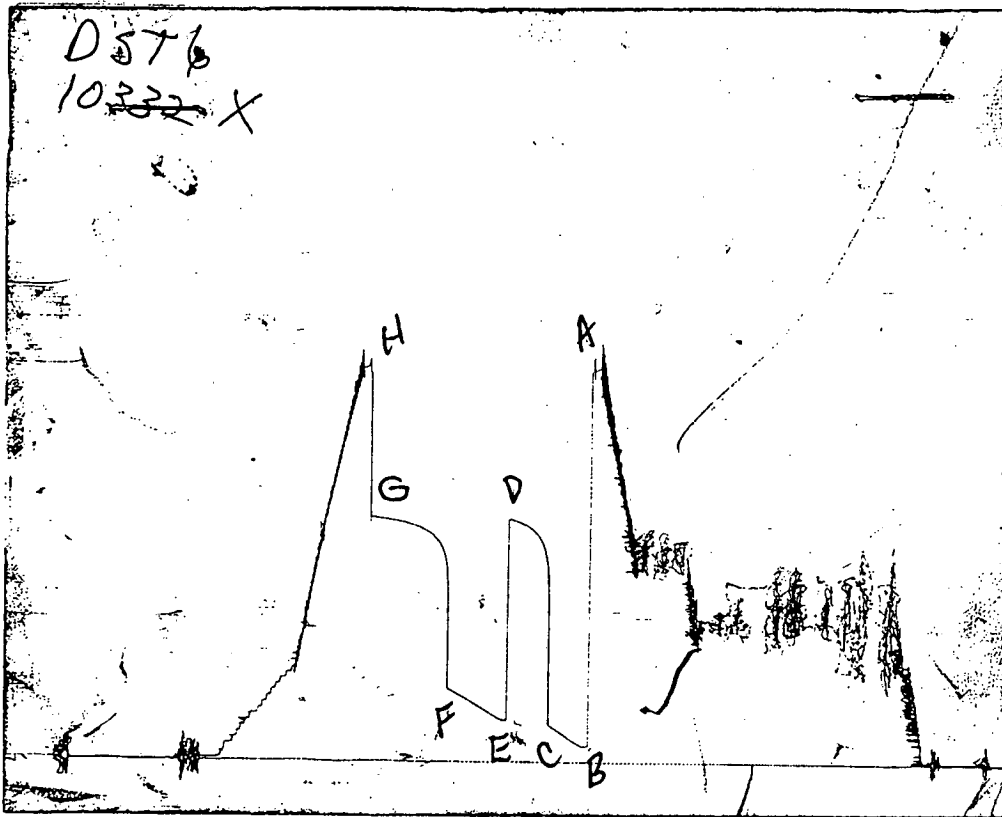
Recovery - Total Feet 860 Flush Tool? NO
Rec. 280 Feet of GAS IN PIPE
Rec. 620 Feet of CLEAN GAS & OIL 20%GAS/80%OIL
Rec. 240 Feet of OIL & GAS CUT MUD & WATER 20%GAS/15%OIL/30%WATER/35%MU
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 123 °F Gravity 31 °API @ 70 °F Corrected Gravity 30 °API
RW 0.23 @ 70 °F Chlorides 30000 ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 2079.0 PSI AK1 Recorder No. 11086 Range 4350
(B) First Initial Flow Pressure 80.9 PSI @ (depth) 4169 w / Clock No. 25828
(C) First Final Flow Pressure 191.2 PSI AK1 Recorder No. 10332 Range 4050
(D) Initial Shut-in Pressure 1243.9 PSI @ (depth) 4184 w / Clock No. 25114
(E) Second Initial Flow Pressure 218.6 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 371.4 PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure 1247.9 PSI Initial Opening 30 Final Flow 45
(H) Final Hydrostatic Mud 2065.0 PSI Initial Shut-in 30 Final Shut-in 60

Our Representative GARY SPEER

CHART PAGE



This is an actual photograph of recorder chart 10332

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2028	2079
(B) FIRST INITIAL FLOW PRESSURE	80	80.9
(C) FIRST FINAL FLOW PRESSURE	202	191.2
(D) INITIAL CLOSED-IN PRESSURE	1215	1243.9
(E) SECOND INITIAL FLOW PRESSURE	202	218.6
(F) SECOND FINAL FLOW PRESSURE	354	371.4
(G) FINAL CLOSED-IN PRESSURE	1225	1247.9
(H) FINAL HYDROSTATIC MUD	2028	2065

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name RUBY DIRKS #3 Test No. 7 Date 10/1/94
Company JOHN O FARMER INC Zone JOHNSON
Address P.O. BOX 352 RUSSELL KS 67665 Elevation 3010
Co. Rep./Geo. MARTIN DUBOIS Cont. EMPHASIS #7 Est. Ft. of Pay _____
Location: Sec. 6 Twp. 13S Rge. 33W Co. LOGAN State KS

Interval Tested 4464-4510 Drill Pipe Size 4.5" XH
Anchor Length 46 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4459 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4464 Mud Wt. 9.1 lb/Gal.
Total Depth 4510 Viscosity 46 Filtrate 8.8

Tool Open @ 3:25 A.M. Initial Blow VERY WEAK SURFACE BLOW-DIED IN 25 MIN

Final Blow 1/2" BLOW DECLINING TO A VERY WEAK SURFACE BLOW

Recovery - Total Feet 30 Flush Tool? NO

Rec. 30 Feet of OIL CUT MUD 10%OIL/90%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 124 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 9500 ppm System

(A) Initial Hydrostatic Mud 2280.5 PSI AK1 Recorder No. 11086 Range 4350

(B) First Initial Flow Pressure 16.3 PSI @ (depth) 4467 w / Clock No. 25828

(C) First Final Flow Pressure 16.3 PSI AK1 Recorder No. 10332 Range 4050

(D) Initial Shut-in Pressure 41.4 PSI @ (depth) 4458 w / Clock No. 25114

(E) Second Initial Flow Pressure 18.5 PSI AK1 Recorder No. _____ Range _____

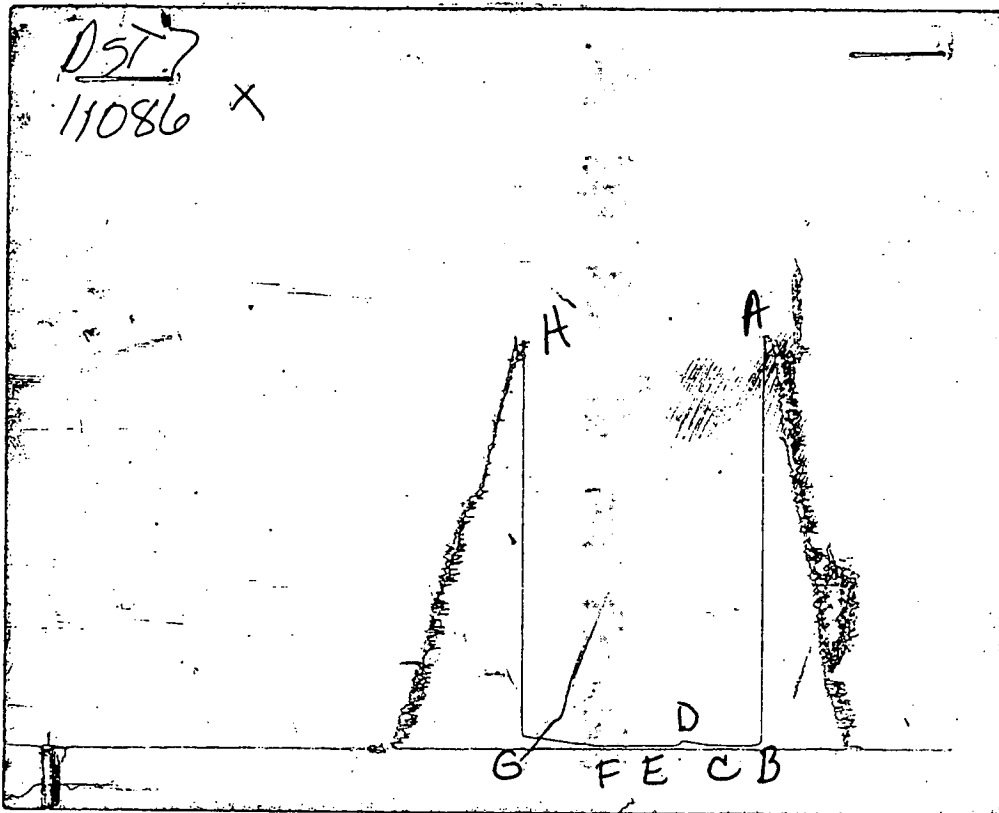
(F) Second Final Flow Pressure 18.5 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 69.8 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2255.4 PSI Initial Shut-in 30 Final Shut-in 60

Our Representative GARY SPEER

CHART PAGE



This is an actual photograph of recorder chart 11086

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2294	2280.5
(B) FIRST INITIAL FLOW PRESSURE	21	16.3
(C) FIRST FINAL FLOW PRESSURE	21	16.3
(D) INITIAL CLOSED-IN PRESSURE	54	41.4
(E) SECOND INITIAL FLOW PRESSURE	21	18.5
(F) SECOND FINAL FLOW PRESSURE	21	18.5
(G) FINAL CLOSED-IN PRESSURE	65	69.8
(H) FINAL HYDROSTATIC MUD	2240	2255.4

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. 0007361

Home Office P. O. Box 31 Russell, Kansas 67665

CONFIDENTIAL

ORIGINAL

New

Date	9-21-94	Sec.	6	Twp.	13S	Range	33W	Called Out		On Location	7:30 PM	Job Start	10:15 AM	Finish	10:45 PM
Lease	RUBY DIRKS	Well No.	#3	Location	MONUMENT 11/5	County	LOGAN	State	KS						
Contractor	EMPHASIS DRILLING RT 6 #7														
Type Job	SURFACE														
Hole Size	12 1/4	T.D.	245'												
Csg.	8 5/8	Depth	243'												
Tbg. Size		Depth													
Drill Pipe		Depth													
Tool		Depth													
Cement Left in Csg.	15'	Shoe Joint	15'												
Press Max.		Minimum													
Meas Line		Displace	7 1/2 BBL.												
Perf.															

Owner **SAME**
 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.

Charge To **JOHN O. FARMER, INC.**

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. **X Thomas Ah**

CEMENT

Amount Ordered **150 SKS 60/40 390CC 29 622**

Consisting of
 Common **REL**
 Poz. Mix **JAN 12**
 Gel. **CONFIDENTIAL**
 Chloride
 Quickset

Sales Tax

Handling **RELEASED**

Mileage **MAR 14 1996** Sub Total

FROM CONFIDENTIAL

Total

Floating Equipment

EQUIPMENT

Pumptrk	No.	Cementor	TERRY
	300	Helper	
Pumptrk	No.	Cementor	
		Helper	
Bulktrk	212	Driver	R.G.
		Driver	

DEPTH of Job

Reference:	Pump Truck	
	8 5/8 SURFACE Plus 6"	
	2.25 PER MILE	
	Sub Total	
	Tax	
	Total	

Remarks:

CEMENT DIO CIRC

RECEIVED STATE CORPORATION COMMISSION

THANK YOU

JAN 3 1995

CONSERVATION DIVISION WICHITA, KANSAS

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.

Home Office P. O. Box 31 Russell, Kansas 67665

CONFIDENTIAL

7767
ORIGINAL

NOON

Date	10-2-94	Sec.	6	Twp.	13	Range	33	Called Out	12:01AM	On Location	4:45AM	Job Start	12:30PM	Finish	1:10PM	
Lease	RUBY DIKES	Well No.	#3	Location				MONUMENT 11 S 1/4 W	County	LOGAN	State	KANSAS				
Contractor	EMPHASIS DRILG. RIG #7											Owner	Y4N			
Type Job	PRODUCTION STRING (D-V)											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	7 7/8		T.D.		4625											
Csg.	5 1/2		Depth		4303'											
Tbg. Size			Depth													
Drill Pipe			Depth													
Tool	BAKER INSERT		Depth		4270'											
Cement Left in Csg.	33"		Shoe Joint		33"											
Press Max.			Minimum													
Measure			Displace		104 BBL											
Perf.																

EQUIPMENT

#	No.	Cementer	Bill L.
Pumptrk	177	RELEASED	Will
#	No.	Cementer	
Pumptrk		Helper 4 1996	JAN 12
#		Driver	Paul
Bulktrk		FROM CONFIDENTIAL	CONFIDENTIAL
Bulktrk		Driver	

Charge To	JOHN O. FARMER INC		
Street	370 W Wichita		
City	Russell	State	Kansas
The above was done to satisfaction and supervision of owner agent or contractor.			
Purchase Order No.	X		
Amount Ordered	500 GAL WFR ² CEMENT 6% GIPSEAL 175 SK. COM. 10% SALT ASC		
Consisting of	Common ASC. 175 @ 8.35 = 1461.25		
Poz. Mix	Salt 160 @ 5.25 = 84.00		
Chloride			
Quickset	500 @ 1.00 = 500.00		
Sales Tax			
Handling	@ 1.00 = 175.00		
Mileage	4¢ / SA / Mile = 140.00		
20			
Sub Total			
Total	2360.25		

DEPTH of Job		
Reference:	Pump TRUCK CHRG	980.00
	225 Per Mile	45.00
	Sub Total	
	Tax	
	Total	1025.00

Remarks: (BOTTOM STAGE)
 FLOAT HELD
 12:30pm. Pump 500 GAL WFR² - 175 SK. COM. 10% SALT ASC
 56 BBL WATER - 46 BBL MUD - 2 BBL WATER
 LAND PLUG @ 1.00 # @ 1:10 PM
 (1:15 - DROP BAMS) - (1:30 opened DV TOOL JOINT) @ 900 #

Floating Equipment	BAKER 5 1/2 CSG.	
1-GUIDE SHOE	125.00	
1-AFU INSERT	189.00	
12-CENTRALIZERS @ 56.00	672.00	
5-SCRATCHERS @ 25.00	125.00	
2-BASKETS @ 127.00	254.00	
1-DV TOOL	3065.00	
2-STOP RINGS @ 25.00	50.00	
Total	4480.00	

RECEIVED
 OPERATIONS CO
 JAN 12 1995
 WICHITA, KANSAS

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.

Home Office P. O. Box 31

Russell, Kansas 67665

7768
ORIGINAL

New

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
10-2-94	6	13 s	33 w	12:01 AM	4:45 AM	2:15 PM	3:00 PM
Lease	Well No. #		Location		County	State	
RUBY DIRKS	# 3		MONUMENT 115 1/4 W		LOGAN	KANSAS	

Contractor **EMPHASIS DRIG. RIG #7**

Type Job **PRODUCTION STRING (D-V)**

Hole Size	T.D.
7 7/8	4625'
Csg.	Depth
5 1/2	4303'
Tbg. Size	Depth
Drill Pipe (OPENED @ 900 #)	Depth
TOOL BAKER D-V TOOL	Depth
	1955'
Cement Left in Csg.	Shoe Joint
Press Max.	Minimum
1200 #	
Meas Line	Displace
✓	47 3/4 BBL
Perf.	

Owner **Y4 N**

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.

Charge To **JOHN O. FARMER INC.**

Street **370 W Wichita**

City **RIAND** State **KANSAS 67665**

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.

X *Jim Lane*
CEMENT

EQUIPMENT

Pumptrk #177	No.	Cementer	<i>Bill L.</i>
	No.	Helper	<i>will RELEASE</i>
Pumptrk	No.	Cementer	
	No.	Helper	JAN 12
Bulktrk #	No.	Driver	<i>John</i>
	No.	Driver	CONFIDENTIAL

Amount Ordered **400 SK 60 62 GEL 1/4# F10-SEAL PER SK**

Consisting of		
Common	240 @ 1.65	396.00
Poz. Mix	140 @ 3.42	478.80
Gel.	20 @ 9.00	180.00
Chloride		
Quickset		
Handing	100 # @ 1.10 ea	110.00
Mileage	44 / SK / 7.27 ml	320.00
Sub Total		3134.00
Total		3134.00

DEPTH of Job

Reference:	Pump TRUCK CHRG	525.00
	Sub Total	
	Tax	
	Total	525.00

Remarks: **(TOP STAGE)**
Cement did circulate
15 SK @ RAT Hole 10 SK @ MOUSE HOLE
Land plus c/1200 PST

STATE CORPORATION COMMISSION

Thomas Al (TP Emphasis)
Jim Lane (ENB)
Beir Rfel
John D. Lanthier (Allied Cem)

JAN 13 1995