

ORIGINAL

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

API NO. 15- 109-20,589-00-00
County Logan
-Appx.- C - S/2 Sec. 6 Twp. 13S Rge. 33 X W

Operator: License # 5135
Name: John O. Farmer, Inc.
Address P.O. Box 352
City/State/Zip Russell, KS 67665

1200 Feet from (S)N (circle one) Line of Section
2610 Feet from (E)W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, (SE) NW or SW (circle one)

Purchaser: Farmland Industries, Inc.

Lease Name Ruby Dirks Well # 4
Field Name Logansport
Producing Formation Johnson

Operator Contact Person: John O. Farmer III
Phone (913) 483-3144

Elevation: Ground 3006' KB 3011'
Total Depth 4635' PBSD

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

Amount of Surface Pipe Set and Cemented at 217 Feet

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc.)

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

If Alternate II completion, cement circulated from 1942'
feet depth to surface w/ 400 sx cmt.

If Workover/Re-Entry: old well info. as follows:

Drilling Fluid Management Plan ALT 2 JFH 11-21-95
(Data must be collected from the Reserve Pit)

Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back _____ PBSD
 Commingled _____ Docket No. _____
 Dual Completion _____ Docket No. _____
 Other (SWD or Inj?) _____ Docket No. _____
6-20-95 6-29-95 7-31-95
Spud Date Date Reached TD Completion Date

Chloride content 36,000 ppm Fluid volume 1,500 bbls
Dewatering method used evaporation

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

Operator Name _____
Lease Name _____ License No. _____
_____ Quarter Sec. _____ Twp. _____ S Rng. _____ E/W
County _____ Docket No. _____

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.

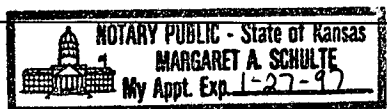
Signature John O. Farmer III
Title President Date 10-10-95
Subscribed and sworn to before me this 10th day of October,
19 95.

Notary Public Margaret A. Schulte
Margaret A. Schulte

Date Commission Expires _____

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

OCT 10 1995



ORIGINAL

SIDE TWO

Operator Name John O. Farmer, Inc. Lease Name Ruby Dirks Well # 4

Sec. 6 Twp. 13S Rge. 33 East West County Logan

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

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Base/Anhydrite	2464' (+547)
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner Shale	3876' (-865)
List All E.Logs Run:		Lansing	3922' (-911)
	Dual Induction & Compensated Density/Neutron	Stark Shale	4174' (-1163)
		Base/K.C.	4252' (-1241)
		Pawnee	4368' (-1357)
		Fort Scott	4426' (-1415)
		Cherokee	4453' (-1442)
		Johnson zone	4500' (-1489)
		Mississippi	4604' (-1593)
		L.T.D.	4635' (-1624)

CASING RECORD <input type="checkbox"/> New <input checked="" 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#	217'	60-40 Pozmix	150	3% C.C., 2% gel
Production	7-7/8"	4-1/2"	10.5#	4549'	ASC	200	10% salt
D.V. Tool				1942'	60-40 Pozmix	400	6% gel, 1/4# Floseal

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate	Top Bottom			
<input type="checkbox"/> Protect Casing	3922-3984'	Common	150	
<input type="checkbox"/> Plug Back TD				
<input checked="" 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)	
4 SPF	4502-14 (12')		1000 gals. 15% NE + 1500 gals. 28% NE	Depth 4502-14'

TUBING RECORD	Size 2-3/8"	Set At	Packer At 3531'	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)			
August 3, 1995				
Estimated Production Per 24 Hours	Oil 30 Bbls.	Gas Mcf	Water 4 Bbls.	Gas-Oil Ratio Gravity 31°

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: 4502-14 (12')

ORIGINAL

DRILL-STEM TEST DATA

15-109-20589-0000

Well Name:	RUBY DIRKS #4		
Company :	JOHN O FARMER INC		
Location - Sec:	6	Twp: 13S	Rge: 33W
County:	LOGAN	State: KS	
Date:	06/28/95		

TRILOBITE TESTING L.L.C.

DATE 06/24/95

OPERATOR : JOHN O FARMER INC
 WELL NAME: RUBY DIRKS #4
 LOCATION : 6-13S-33W, LOGAN COUNTY
 INTERVAL : 3877.00 To 3910.00 ft

KB 3011.00 ft
 GR 3006.00 ft
 TD 3910.00 ft
 TICKET NO: 8117 DST #1
 FORMATION: TORONTO
 TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----		
PF	30	Rec.	AK-1	AK-1	AK-1		PF Fr.	30 to	hr
SI	30	Range(Psi)	4500.0	4500.0	4500.0	0.0	IS Fr.	30 to	hr
SF	30	Clock(hrs)	21048	21048	7452		SF Fr.	30 to	hr
FS	30	Depth(ft)	3900.0	3900.0	3905.0	0.0	FS Fr.	30 to	hr

	Field	1	2	3	4		
A. Init Hydro	1892.0	1897.0	0.0	0.0	0.0	T STARTED	hr
B. First Flow	201.0	206.0	0.0	0.0	0.0	T ON BOTM	hr
B1. Final Flow	560.0	556.0	0.0	0.0	0.0	T OPEN	1147 hr
C. In Shut-in	1130.0	1129.0	0.0	0.0	0.0	T PULLED	1347 hr
D. Init Flow	649.0	649.0	0.0	0.0	0.0	T OUT	hr
E. Final Flow	816.0	817.0	0.0	0.0	0.0		
F. Fl Shut-in	1130.0	1129.0	0.0	0.0	0.0		
G. Final Hydro	1847.0	1852.0	0.0	0.0	0.0		
Inside/Outside	I	O	O				

TOOL DATA-----

Tool Wt.	0.00 lbs
Wt Set On Packer	0.00 lbs
Wt Pulled Loose	0.00 lbs
Initial Str Wt	0.00 lbs
Unseated Str Wt	0.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	0.00 in
D. Pipe ID	3.80 in
D.C. Length	0.00 ft
D.P. Length	0.00 ft
H.W. I.D	2.70 in
H.W. Length	506.00 ft

RECOVERY
 Tot Fluid 1610.00 ft of 0.00 ft in DC and 1610.00 ft in DP
 190.00 ft of MUD CUT WATERY OIL - 5% OIL, 47% H2O, 48% MUD
 120.00 ft of MUDDY WATER, TRACE OF OIL - 3% OIL, 82% H2O,
 0.00 ft of 15% MUD
 120.00 ft of WATERY MUD, TRACE OF OIL - 3% OIL, 92% H2O,
 0.00 ft of 5% MUD
 1180.00 ft of SALT WATER, TRACE OF OIL - 100% H2O
 0.00 ft of
 RW .2 @ 66 F
 SALINITY 37500.00 P.P.M. A.P.I. Gravity 0:00

MUD DATA-----

Mud Type	CHEMICAL
Weight	8.90 lb/cf
Vis.	49.00 S/L
W.L.	11.20 in3
F.C.	0.00 in
Mud Drop	

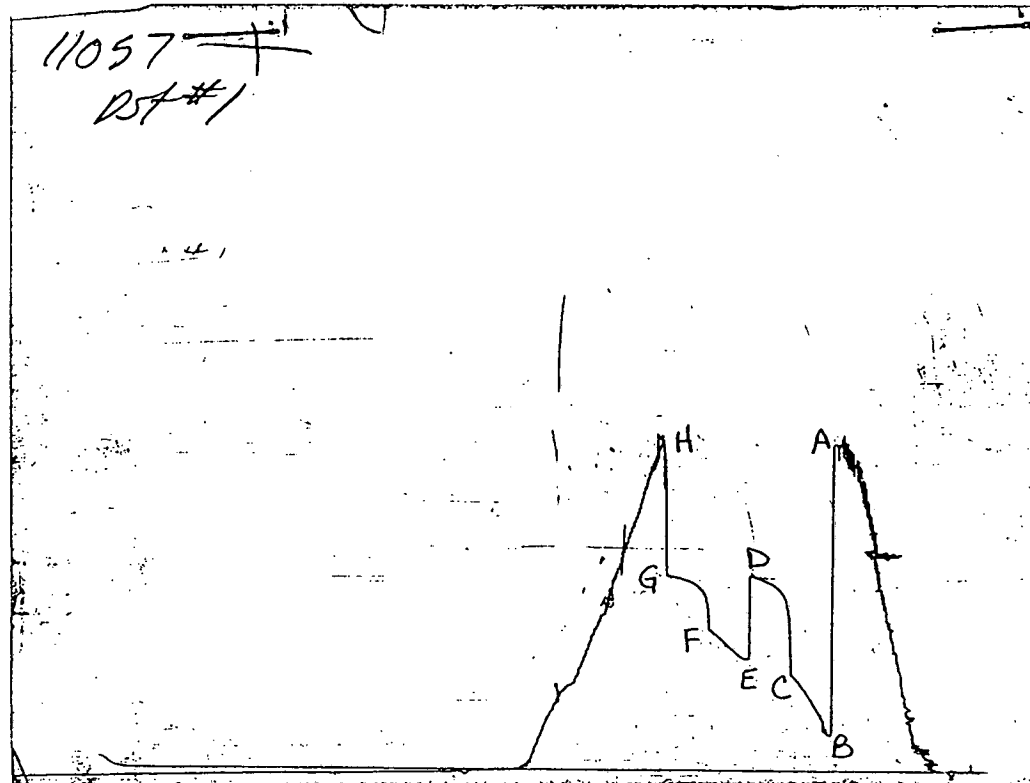
BLOW DESCRIPTION
 INITIAL BLOW -
 BOTTOM OF BUCKET IN 4 MIN, BLEW BOTTOM
 OF BUCKET THROUGHOUT
 INITIAL SHUTIN -
 BLED OFF BLOW, NO RETURN BLOW
 FINAL BLOW -
 BOTTOM OF BUCKET IN 4 MIN, BLEW BOTTOM
 OF BUCKET THROUGHOUT
 FINAL SHUTIN -
 BLED OFF BLOW, NO RETURN BLOW

Amt. of fill	0.00 ft
Btm. H. Temp.	114.00 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	SHANE MCBRIDE
Co. Rep.	JOHN O FARMER IV
Contr.	ABERCROMBIE
Rig #	8
Unit #	
Pump T.	

SAMPLES:
 SENT TO:

Test Successful: Y

CHART PAGE



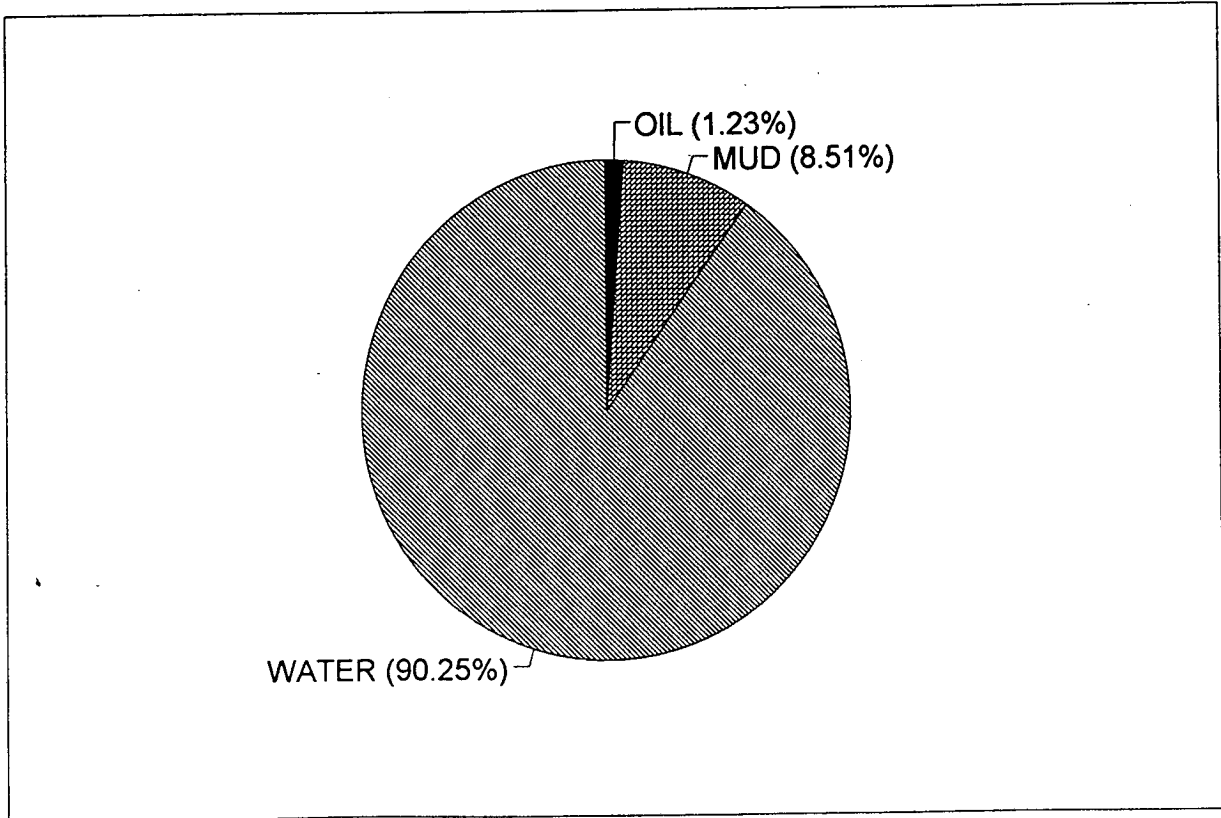
This is an actual photograph of an AK1 recorder chart

CALCULATED RECOVERY ANALYSIS

DST # 1

TICKET # 8117

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL PIPE 1	190		0	5	9.5	47	89.3	48	91.2
2	120		0	3	3.6	82	98.4	15	18
3	120		0	3	3.6	92	110.4	5	6
4	674		0		0	100	674		0
5			0		0		0		0
6			0		0		0		0
WEIGHT PIPE 1	506		0		0	100	506		0
2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRL COLLAR 1			0		0		0		0
2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	1610	0	0	1.037267	16.7	91.80745	1478.1	7.15528	115.2
				HRS OPE BBL/DAY					
BBL OIL=	0.237474	*		1.00	5.699376				
BBL WATER=	17.36526	*			416.7663				
BBL MUD=	1.638144								
BBL GAS =	0								



TRILOBITE TESTING L.L.C.

OPERATOR : JOHN O FARMER INC

DATE 06/25/95

WELL NAME: RUBY DIRKS #4

KB 3011.00 ft

TICKET NO: 8118 DST #2

LOCATION : 6-13S-33W, LOGAN COUNTY

GR 3006.00 ft

FORMATION: LANSING "A"

INTERVAL : 3917.00 To 3942.00 ft

TD 3942.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 45	Rec.	AK-1	AK-1	AK-1			PF Fr. 45 to hr
SI 45	Range(Psi)	4500.0	4500.0	4500.0	0.0	0.0	IS Fr. 45 to hr
SF 45	Clock(hrs)	21048	21048	7452			SF Fr. 45 to hr
FS 60	Depth(ft)	3939.0	3939.0	3918.0	0.0	0.0	FS Fr. to 1 hr

	Field	1	2	3	4	
A. Init Hydro	1914.0	1909.0	0.0	0.0	0.0	T STARTED hr
B. First Flow	33.0	27.0	0.0	0.0	0.0	T ON BOTM hr
Bl. Final Flow	33.0	27.0	0.0	0.0	0.0	T OPEN 0147 hr
C. In Shut-in	1163.0	1157.0	0.0	0.0	0.0	T PULLED 0502 hr
D. Init Flow	44.0	43.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	44.0	43.0	0.0	0.0	0.0	
F. Fl Shut-in	1169.0	1155.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1881.0	1843.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 0.00 lbs
						Wt Pulled Loose 0.00 lbs
						Initial Str Wt 0.00 lbs
						Unseated Str Wt 0.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 0.00 ft
						H.W. I.D 2.70 in
						H.W. Length 506.00 ft

RECOVERY

Tot Fluid 61.00 ft of 0.00 ft in DC and 61.00 ft in DP
 1.00 ft of FREE OIL - 100% OIL
 60.00 ft of MUDDY WATER - 35% WATER, 65% MUD
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

RW .52 @ 53 F

SALINITY 19000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

INITIAL BLOW -
 SURFACE BLOW BUILT TO 1"

INITIAL SHUTIN -
 BLED OFF BLOW, NO BLOW

FINAL BLOW -
 SURFACE BLOW TO OPEN TOOL, BLOW DIED,
 BLOW RETURNED 35 MIN INTO OPEN - VERY
 WEAK SURFACE BLOW

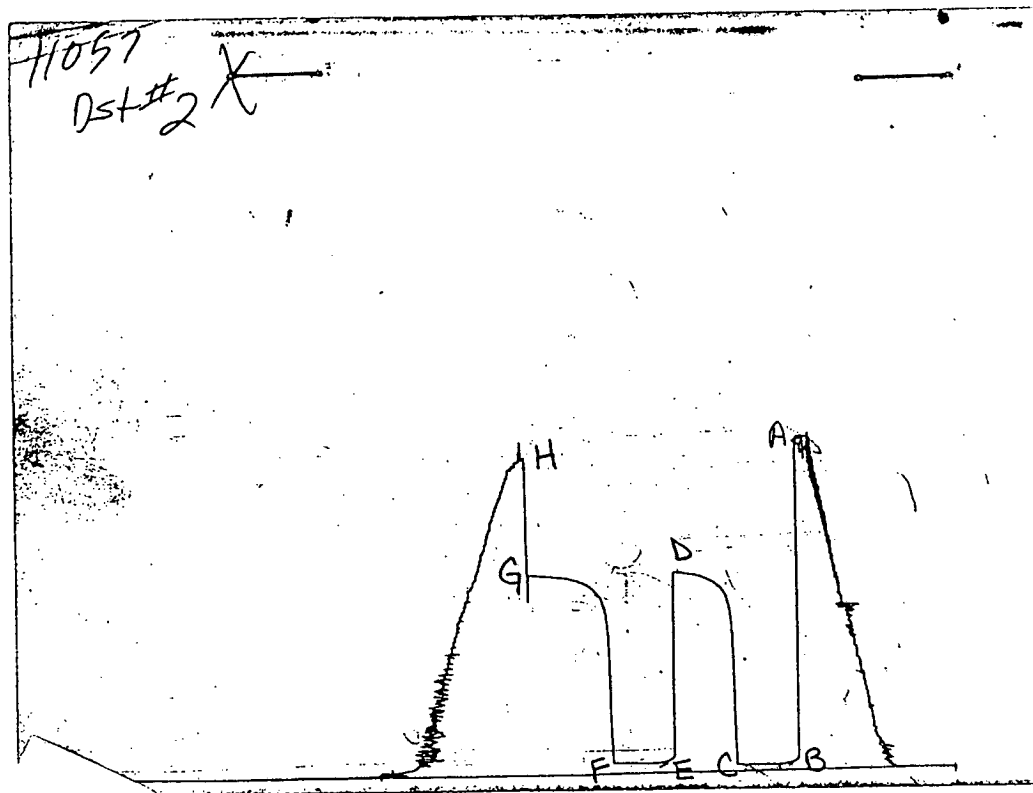
FINAL SHUTIN -
 BLED OFF BLOW, NO RETURN BLOW

SAMPLES:
 SENT TO:

MUD DATA-----	
Mud Type	CHEMICAL
Weight	9.30 lb/cf
Vis.	50.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	114.00 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	SHANE MCBRIDE
Co. Rep.	JOHN O FARMER IV
Contr.	ABERCROMBIE
Rig #	8
Unit #	
Pump T.	

Test Successful: Y

CHART PAGE



This is an actual photograph of an AK1 recorder chart

CALCULATED RECOVERY ANALYSIS WEIGHT PIPE

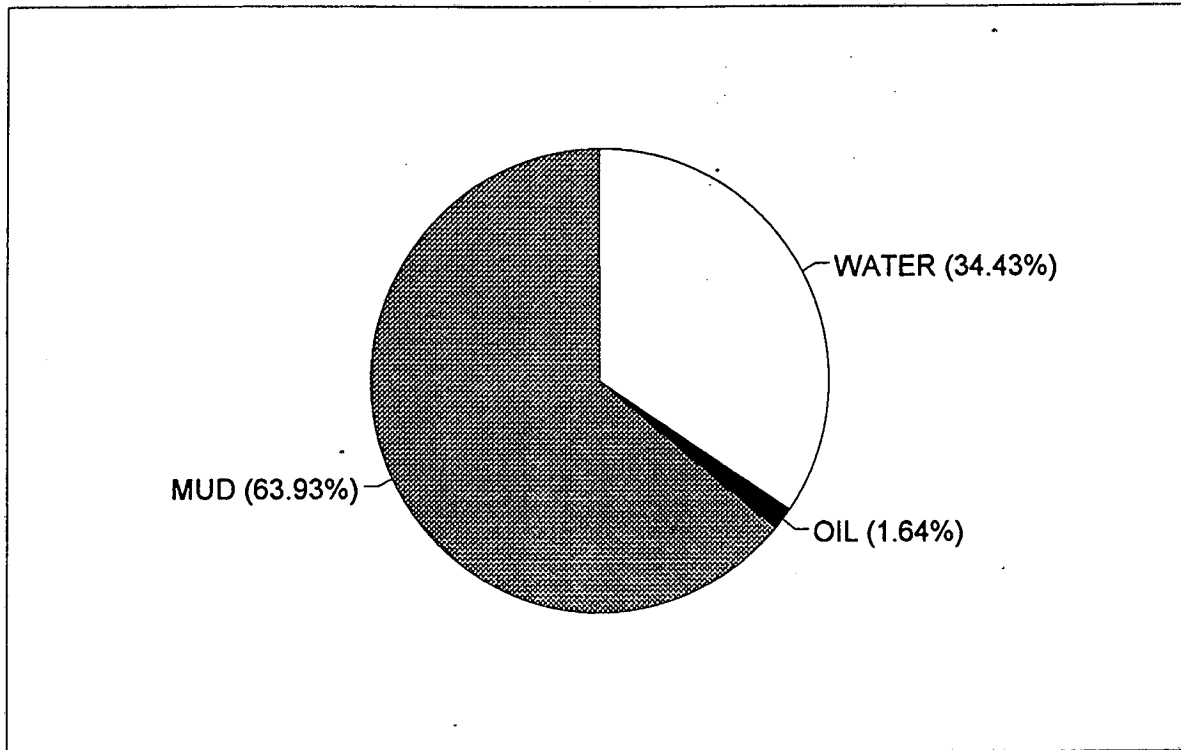
DST # 2

TICKET # 8118

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	1		0	100	1		0		0
2	60		0		0	35	21	65	39
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	61	0	0	1.639344	1	34.42623	21	63.93443	39

HRS OPE BBL/DAY

BBL OIL=	0.007	*	1.50	0.112
BBL WAT	0.147	*		2.352
BBL MUD	0.273			
BBL GAS	0			



TRILOBITE TESTING L.L.C.

OPERATOR : JOHN O FARMER INC

DATE 06/25/95

WELL NAME: RUBY DIRKS #4

KB 3011.00 ft

TICKET NO: 8119

DST #3

LOCATION : 6-13S-33W, LOGAN COUNTY

GR 3006.00 ft

FORMATION: LANSING "B"

INTERVAL : 3945.00 To 3975.00 ft

TD 3975.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 45	Rec.	AK-1	AK-1	AK-1			PF Fr. 45 to hr
SI 45	Range(Psi)	4500.0	4500.0	4500.0	0.0	0.0	IS Fr. 45 to hr
SF 60	Clock(hrs)	21048	21048	7452			SF Fr. to 1 hr
FS 60	Depth(ft)	3966.0	3966.0	3970.0	0.0	0.0	FS Fr. to 1 hr

	Field	1	2	3	4	
A. Init Hydro	1959.0	1960.0	0.0	0.0	0.0	T STARTED hr
B. First Flow	56.0	64.0	0.0	0.0	0.0	T ON BOTM hr
B1. Final Flow	145.0	149.0	0.0	0.0	0.0	T OPEN 1503 hr
C. In Shut-in	1174.0	1184.0	0.0	0.0	0.0	T PULLED 1833 hr
D. Init Flow	179.0	196.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	269.0	286.0	0.0	0.0	0.0	
F. Fl Shut-in	1152.0	1161.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1914.0	1932.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	I	I	O			Wt Set On Packer 0.00 lbs
						Wt Pulled Loose 0.00 lbs
						Initial Str Wt 0.00 lbs
						Unseated Str Wt 0.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 0.00 ft
						H.W. I.D 2.70 in
						H.W. Length 506.00 ft

RECOVERY

Tot Fluid 650.00 ft of 0.00 ft in DC and 650.00 ft in DP
 150.00 ft of WATERY MUD - 50% WATER, 50% MUD
 250.00 ft of MUDDY WATER - 90% WATER, 10% MUD
 250.00 ft of SALT WATER W/ TRACE OF MUD - 100% WATER
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

RW .14 @ 80 F

SALINITY 55000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

INITIAL BLOW -
 SURFACE BLOW BUILT TO BOTTOM OF BUCKET
 IN 41 MIN

INITIAL SHUTIN -
 BLED OFF BLOW, NO RETURN BLOW

FINAL BLOW -
 SURFACE BLOW BUILT TO BOTTOM OF BUCKET
 IN 42 MIN

FINAL SHUTIN -
 NO RETURN BLOW

SAMPLES:
 SENT TO:

MUD DATA-----

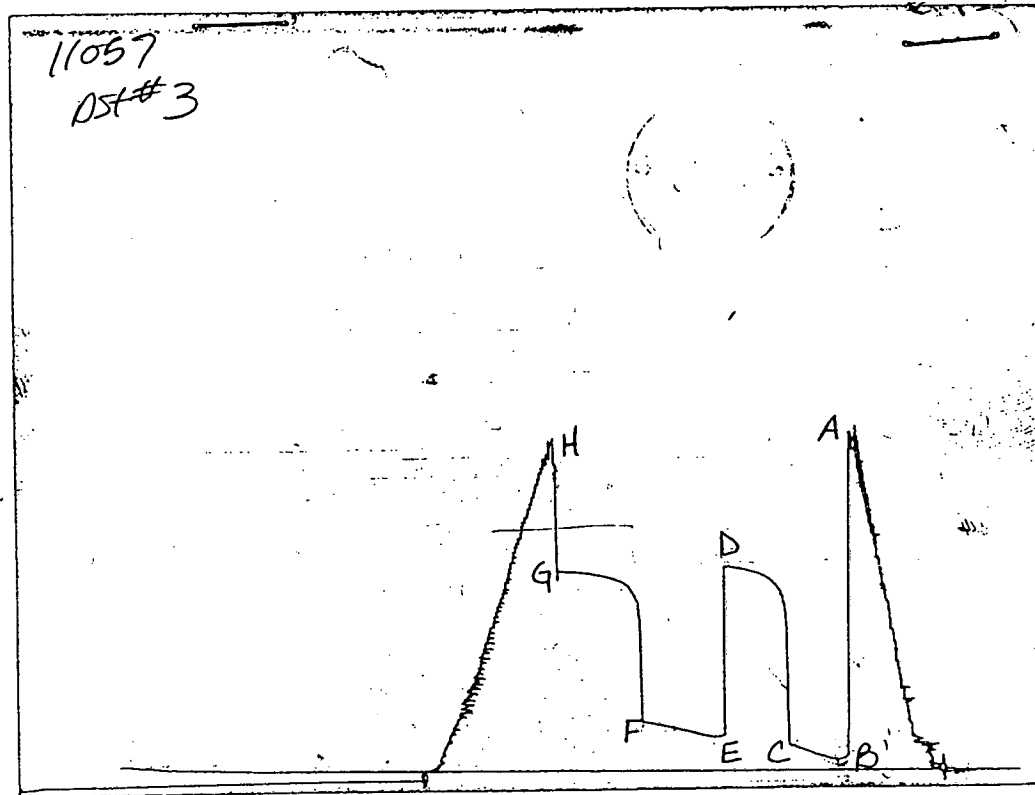
Mud Type	CHEMICAL
Weight	9.30 lb/c
Vis.	53.00 S/L
W.L.	8.40 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	116.00 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 SHANE MCBRIDE
 Co. Rep. JOHN O FARMER IV
 Contr. ABERCROMBIE
 Rig # 8
 Unit #
 Pump T.

Test Successful: Y

CHART PAGE



This is an actual photograph of an AK1 recorder chart

15.109.20589.0000

TRILOBITE TESTING L.L.C.

OPERATOR : JOHN O FARMER INC
 WELL NAME: RUBY DIRKS #4
 LOCATION : 6-13S-33W, LOGAN COUNTY
 INTERVAL : 3974.00 To 4014.00 ft

DATE 06/26/95
 KB 3011.00 ft TICKET NO: 8120 DST #4
 GR 3006.00 ft FORMATION: LANSING D & E
 TD 4014.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins			Field	1	2	3	4	TIME DATA-----		
PF	30	Rec.	AK-1	AK-1	AK-1			PF Fr.	30 to	hr
SI	30	Range(Psi)	4500.0	4500.0	4500.0	0.0	0.0	IS Fr.	30 to	hr
SF	30	Clock(hrs)	21048	21048	7452			SF Fr.	30 to	hr
FS	30	Depth(ft)	4005.0	4005.0	4009.0	0.0	0.0	FS Fr.	30 to	hr

		Field	1	2	3	4		
A.	Init Hydro	1970.0	1970.0	0.0	0.0	0.0	T STARTED	hr
B.	First Flow	22.0	34.0	0.0	0.0	0.0	T ON BOTM	hr
B1.	Final Flow	22.0	34.0	0.0	0.0	0.0	T OPEN	0601 hr
C.	In Shut-in	526.0	527.0	0.0	0.0	0.0	T PULLED	0801 hr
D.	Init Flow	22.0	35.0	0.0	0.0	0.0	T OUT	hr
E.	Final Flow	22.0	35.0	0.0	0.0	0.0		
F.	Fl Shut-in	280.0	286.0	0.0	0.0	0.0	TOOL DATA-----	
G.	Final Hydro	1948.0	1950.0	0.0	0.0	0.0	Tool Wt.	0.00 lbs
	Inside/Outside	I	I	O			Wt Set On Packer	0.00 lbs
							Wt Pulled Loose	0.00 lbs
							Initial Str Wt	0.00 lbs
							Unseated Str Wt	0.00 lbs
							Bot Choke	0.75 in
							Hole Size	7.88 in
							D Col. ID	0.00 in
							D. Pipe ID	3.80 in
							D.C. Length	0.00 ft
							D.P. Length	0.00 ft
							H.W. I.D	2.70 in
							H.W. Length	506.00 ft

RECOVERY

Tot Fluid 17.00 ft of 0.00 ft in DC and 17.00 ft in DP
 2.00 ft of FREE OIL - 100% OIL
 5.00 ft of MUD CUT OIL - 85% OIL, 15% MUD
 10.00 ft of OIL CUT MUD - 20% OIL, 80% MUD
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

RW .98 @ 70 F

SALINITY 6150.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

INITIAL BLOW -
 SURFACE BLOW BUILT TO 1/2"

INITIAL SHUTIN -
 NO RETURN BLOW

FINAL BLOW -
 BUBBLE TO OPEN TOOL, NO BLOW

FINAL SHUTIN -
 NO RETURN BLOW

SAMPLES:
 SENT TO:

MUD DATA-----

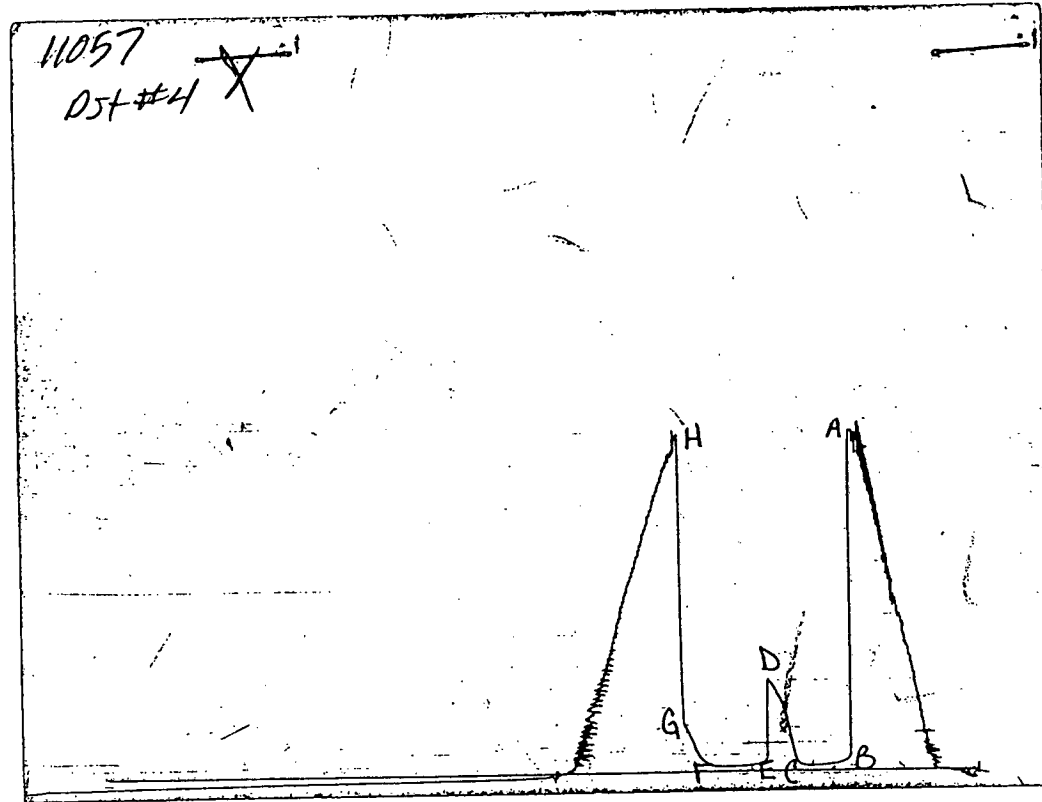
Mud Type	CHEMICAL
Weight	9.30 lb/c
Vis.	53.00 S/L
W.L.	8.40 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	114.00 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 SHANE MCBRIDE
 Co. Rep. JOHN O FARMER IV
 Contr. ABERCROMBIE
 Rig # 8
 Unit #
 Pump T.

Test Successful: Y

CHART PAGE



This is an actual photograph of an AK1 recorder chart

CALCULATED RECOVERY ANALYSIS WEIGHT PIPE

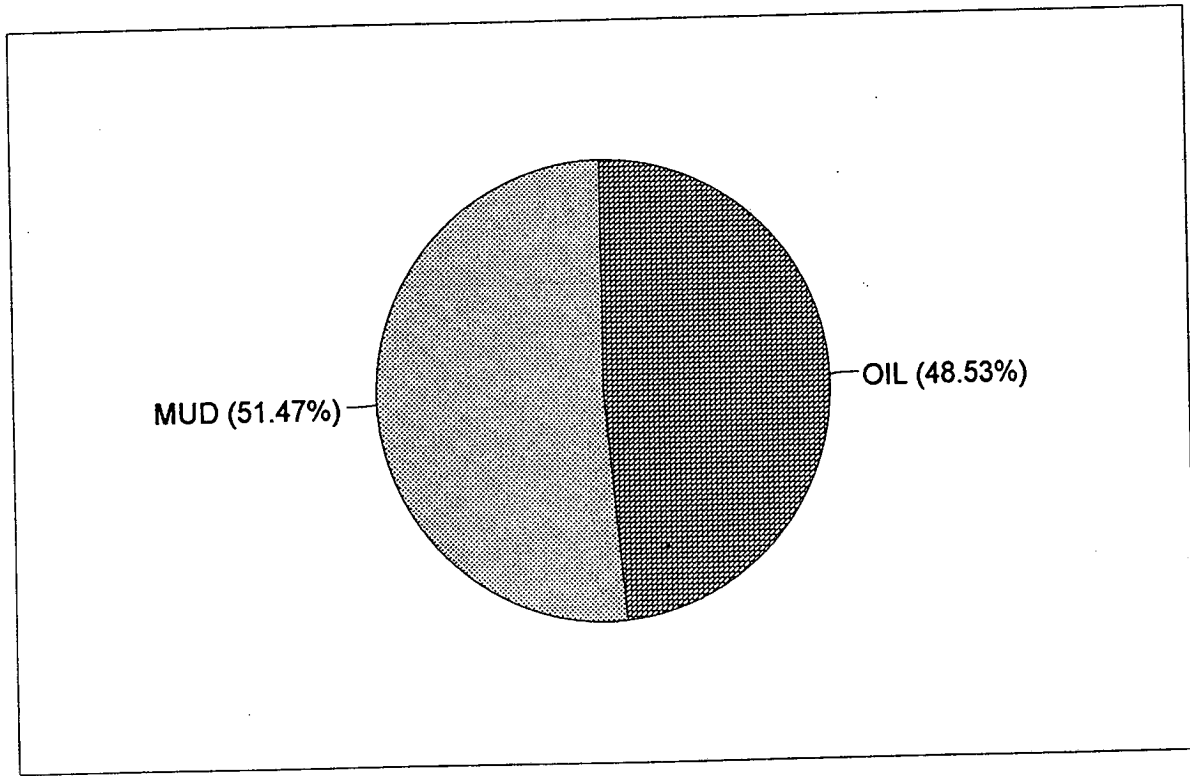
DST # 4

TICKET # 8120

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	2		0	100	2		0		0
2	5		0	85	4.25		0	15	0.75
3	10		0	20	2		0	80	8
4			0		0		0		0
5			0		0		0		0
TOTAL	17	0	0	48.52941	8.25	0	0	51.47059	8.75

HRS OPE BBL/DAY

BBL OIL=	0.05775	*	1.00	1.386
BBL WAT	0	*		0
BBL MUD	0.06125			
BBL GAS	0			



TRILOBITE TESTING L.L.C.

OPERATOR : JOHN O FARMER INC

DATE 06/27/95

WELL NAME: RUBY DIRKS #4

KB 3011.00 ft TICKET NO: 8121 DST #5

LOCATION : 6-13S-33W, LOGAN COUNTY

GR 3006.00 ft FORMATION: LANSING H, I, J

INTERVAL : 4078.00 To 4179.00 ft

TD 4179.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	AK-1	AK-1	AK-1			PF Fr. 30 to hr
SI 30 Range(Psi)	4500.0	4500.0	4500.0	0.0	0.0	IS Fr. 30 to hr
SF 30 Clock(hrs)	21048	21048	7452			SF Fr. 30 to hr
FS 30 Depth(ft)	4079.0	4079.0	4176.0	0.0	0.0	FS Fr. 30 to hr

	Field	1	2	3	4	
A. Init Hydro	2015.0	2014.0	0.0	0.0	0.0	T STARTED hr
B. First Flow	11.0	14.0	0.0	0.0	0.0	T ON BOTM hr
Bl. Final Flow	11.0	14.0	0.0	0.0	0.0	T OPEN 0303 hr
C. In Shut-in	1107.0	1108.0	0.0	0.0	0.0	T PULLED 0503 hr
D. Init Flow	22.0	36.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	22.0	36.0	0.0	0.0	0.0	
F. Fl Shut-in	1040.0	1053.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1993.0	2009.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	I	I	O			Wt Set On Packer 0.00 lbs
						Wt Pulled Loose 0.00 lbs
						Initial Str Wt 0.00 lbs
						Unseated Str Wt 0.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 0.00 ft
						H.W. I.D 2.70 in
						H.W. Length 506.00 ft

RECOVERY

Tot Fluid 70.00 ft of 0.00 ft in DC and 70.00 ft in DP
 70.00 ft of WATERY MUD - 32% WATER, 68% 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

RW .29 @ 70 F

SALINITY 24000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

INITIAL BLOW -
 SURFACE BLOW BUILT TO 3/4"

INITIAL SHUTIN -
 NO RETURN BLOW

FINAL BLOW -
 BUBBLE TO OPEN TOOL, NO BLOW, BLOW IN
 15 MIN BUILT TO 1/4"

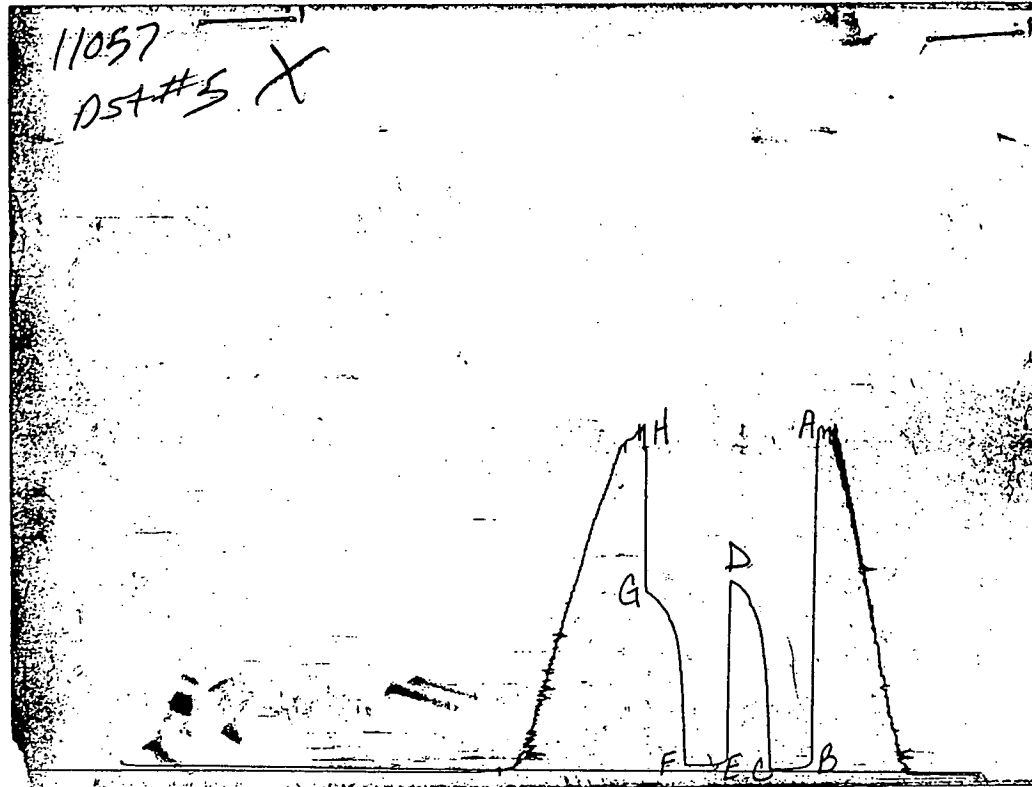
FINAL SHUTIN -
 NO RETURN BLOW

SAMPLES:
 SENT TO:

MUD DATA-----	CHEMICAL
Mud Type	
Weight	9.10 lb/c
Vis.	48.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	115.00 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	SHANE MCBRIDE
Co. Rep.	JOHN O FARMER IV
Contr.	ABERCROMBIE
Rig #	8
Unit #	
Pump T.	

Test Successful: Y

CHART PAGE



This is an actual photograph of an AK1 recorder chart

TRILOBITE TESTING L.L.C.

OPERATOR : JOHN O FARMER INC

DATE 06/28/95

WELL NAME: RUBY DIRKS #4

KB 3011.00 ft

TICKET NO: 8122

DST #6

LOCATION : 6-13S-33W, LOGAN COUNTY

GR 3006.00 ft

FORMATION: JOHNSON

INTERVAL : 4476.00 To 4520.00 ft

TD 4520.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 45	Rec.	AK-1	AK-1	AK-1			PF Fr. 45 to hr
SI 45	Range(Psi)	4500.0	4500.0	4500.0	0.0	0.0	IS Fr. 45 to hr
SF 45	Clock(hrs)	21048	21048	7452			SF Fr. 45 to hr
FS 45	Depth(ft)	4477.0	4477.0	4517.0	0.0	0.0	FS Fr. 45 to hr

	Field	1	2	3	4	
A. Init Hydro	2298.0	2296.0	0.0	0.0	0.0	T STARTED hr
B. First Flow	56.0	61.0	0.0	0.0	0.0	T ON BOTM hr
B1. Final Flow	78.0	80.0	0.0	0.0	0.0	T OPEN 0855 hr
C. In Shut-in	257.0	257.0	0.0	0.0	0.0	T PULLED 1155 hr
D. Init Flow	112.0	108.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	123.0	121.0	0.0	0.0	0.0	
F. Fl Shut-in	257.0	258.0	0.0	0.0	0.0	
G. Final Hydro	2276.0	2266.0	0.0	0.0	0.0	TOOL DATA-----
Inside/Outside	I	I	O			Tool Wt. 0.00 lbs

RECOVERY

Tot Fluid 313.00 ft of 0.00 ft in DC and 313.00 ft in DP
 2448.00 ft of GAS IN PIPE
 3.00 ft of FREE OIL - 100% OIL
 10.00 ft of CLEAN GASSY OIL - 30% GAS, 70% OIL
 300.00 ft of SLIGHTLY GASSY HEAVY OIL CUT MUD - 8% GAS,
 0.00 ft of 35% OIL, 57% MUD
 0.00 ft of
 0.00 ft of

RW .99 @ 70 F

SALINITY 6150.00 P.P.M. A.P.I. Gravity 31.00

BLOW DESCRIPTION

INITIAL BLOW -
 BOTTOM OF BUCKET IN 6 MIN

 INITIAL SHUTIN -
 BLED OFF BLOW, NO RETURN BLOW

FINAL BLOW -
 BOTTOM OF BUCKET IN 3 MIN

FINAL SHUTIN -
 BLED OFF BLOW, RETURN BLOW IN 10 MIN,
 BLOW DIED 10 MIN

SAMPLES:
 SENT TO:

MUD DATA-----

Mud Type CHEMICAL
 Weight 9.20 lb/c
 Vis. 47.00 S/L
 W.L. 10.40 in3
 F.C. 0.00 in
 Mud Drop

Amt. of fill 0.00 ft
 Btm. H. Temp. 123.00 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 SHANE MCBRIDE
 Co. Rep. JOHN O FARMER IV
 Contr. ABERCROMBIE
 Rig # 8
 Unit #
 Pump T.

Test Successful: Y

COMPUTER OIL EVALUATION BY TRILOBITE TESTING, L.L.C.

JOHN O FARMER INC

RUBY DIRKS #4

DST 6

6 13S 33W

LOGAN KS

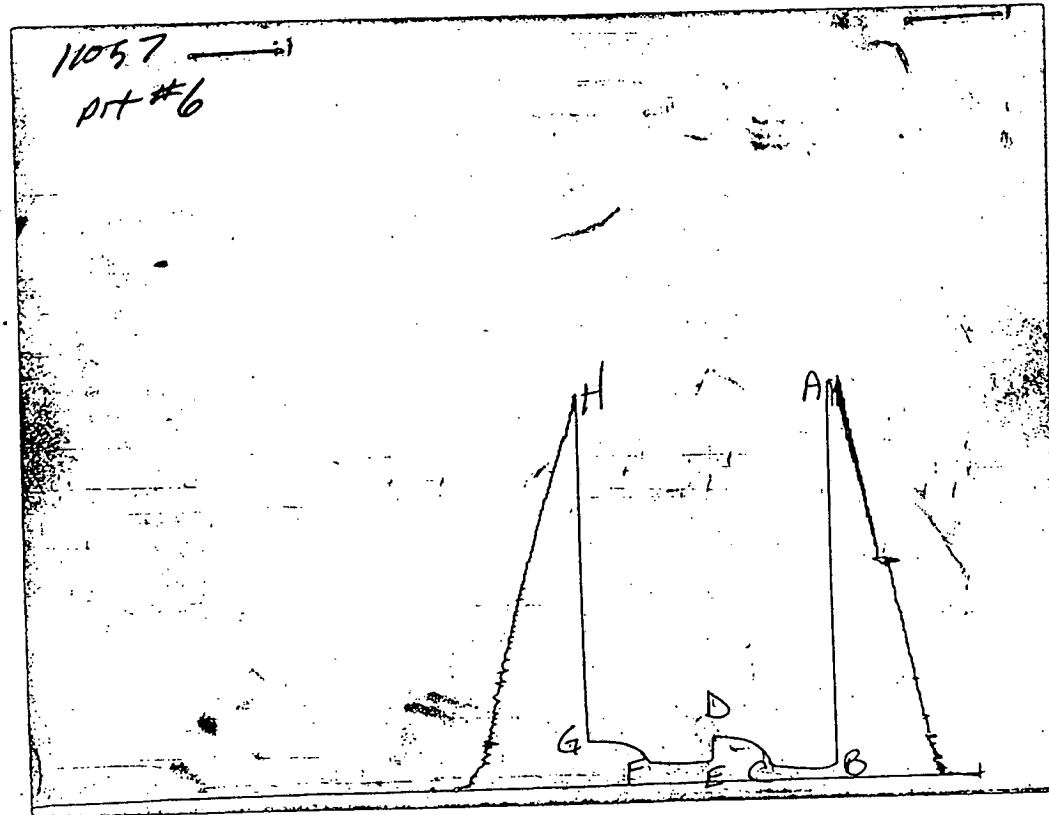
LEVATION:	3006	KB	EST. PAY	3 FT
ATUM:	-1472		ZONE TESTED:	JOHNSON
EST INTERVAL:	4476-4520		TIME INTERVALS:	45-45-45-45
RECORDER DEPTH:	4477		VISCOSITY:	7.78 CP
OTTOM HOLE TEMP:	123		HOLE SIZE:	7.875 IN

CUBIC FEET OF GAS IN PIPE:	188			
TOTAL FEET OF RECOVERY:	313.00	CORRECTED PIPE FILLUP:	326.260	
TOTAL BARRELS OF RECOVERY:	2.19	CORR. BARRELS OF RECOVERY:	2.191	BBL
BARRELS IN DRILL PIPE:	0.00	API GRAVITY:	31	
BARRELS IN WEIGHT PIPE:	2.19	FLUID GRADIENT:	0.377	
BARRELS IN DRILL COLLARS:	0.00			
AS OIL RATIO:	85.61	CU.FT/BBL		
BUBBLE POINT PRESSURE:	293			
UNCORRECTED INITIAL PRODUCTION:			35.06	BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE:			35.06	BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:			13.988	

INITIAL SLOPE	171.41	PSI/CYCLE	FINAL SLOPE	77.11	PSI/CYCLE
INITIAL P*	294.76	PSI	FINAL P*	293.22	PSI

TRANSMISSIBILITY	73.92	(MD.-FT./CP.)
PERMEABILITY	191.66	(MD.)
INDICATED FLOW CAPACITY	574.98	(MD.FT)
PRODUCTIVITY INDEX	0.08	(BBL/DAY/PSI)
DAMAGE RATIO	0.40	
RADIUS OF INVESTIGATION	131.34	(FT.)
POTENTIOMETRIC SURFACE	-791.03	(FT.)
RAWDOWN FACTOR	0.522	(%)

CHART PAGE



This is an actual photograph of an AK1 recorder chart

INITIAL FLOW

DST # 6
RECORDER 11057

		<>
<u>TIME(MIN)</u>	<u>PRESSURE</u>	<u>PRESSURE</u>
0	60.5	60.5
3	60.5	0.0
6	60.5	0.0
9	60.5	0.0
12	60.5	0.0
15	60.5	0.0
18	60.5	0.0
21	60.5	0.0
24	62.8	2.2
27	65.0	2.2
30	67.3	2.2
33	69.5	2.2
36	74.0	4.5
39	74.0	0.0
42	78.5	4.5
45	79.6	1.1

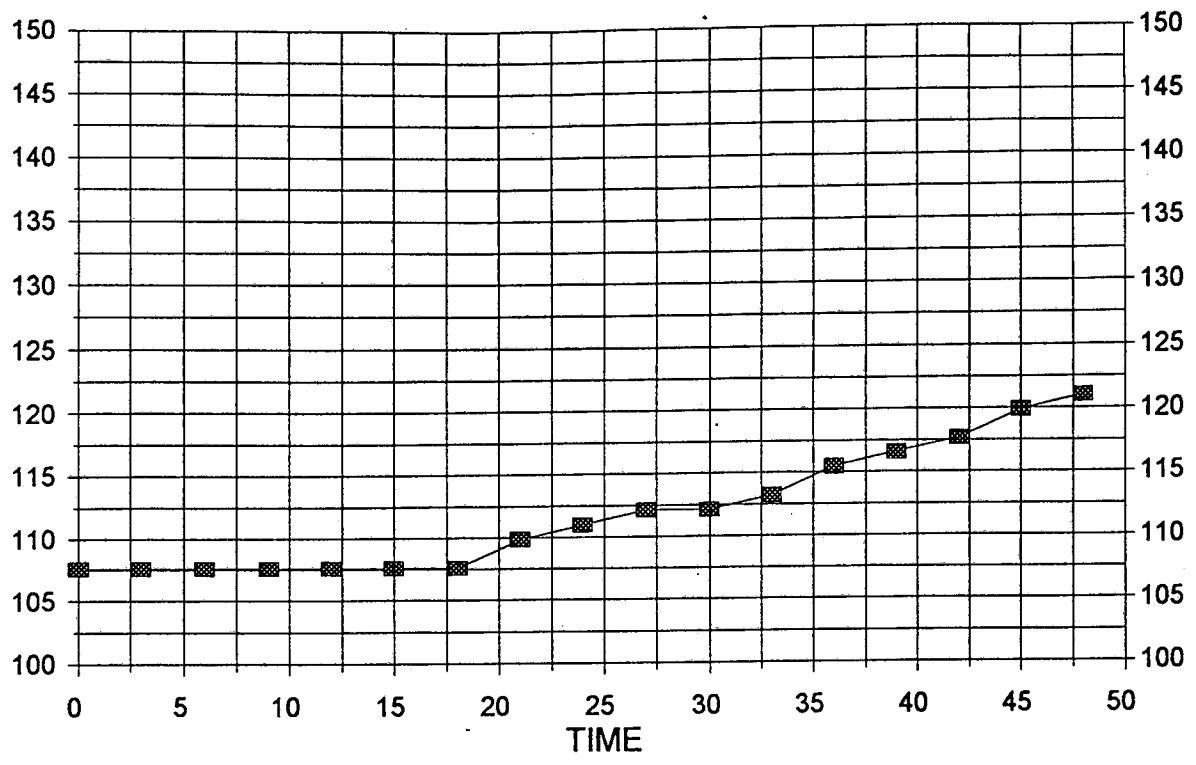
FINAL FLOW

DST # 6
RECORDER 11057

		<>
<u>TIME(MIN)</u>	<u>PRESSURE</u>	<u>PRESSURE</u>
0	107.6	107.6
3	107.6	0.0
6	107.6	0.0
9	107.6	0.0
12	107.6	0.0
15	107.6	0.0
18	107.6	0.0
21	109.9	2.2
24	111.0	1.1
27	112.1	1.1
30	112.1	0.0
33	113.2	1.1
36	115.5	2.2
39	116.6	1.1
42	117.7	1.1
45	120.0	2.2
48	121.1	1.1

DELTA T DELTA P

FINAL FLOW / DST #6



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE: 13.98757

INITIAL SHUT-IN

RUBY DIRKS #4

DST # 6

INITIAL FLOW TIME 45

SLOPE

171.4

PSI/CYCLE

P*

294.76

PSI

	<u>TIME(MIN)</u>	<u>Pws (psi)</u>	Log <u>Horn T</u>	<> <u>PRESSURE</u>	<u>Horn T</u>
	3	87.4	1.041	87.4	16
	6	103.1	0.778	15.7	9
	9	153.6	0.637	50.4	6
	12	179.4	0.544	25.8	5
	15	199.6	0.477	20.2	4
	18	210.8	0.426	11.2	4
Q	21	228.7	0.385	17.9	3
	24	235.4	0.352	6.7	3
	27	241.0	0.325	5.6	3
	30	246.6	0.301	5.6	3
	33	248.9	0.281	2.2	2
	36	252.2	0.263	3.4	2
	39	254.5	0.248	2.2	2
	42	255.6	0.234	1.1	2
X	45	256.7	0.222	1.1	2

FINAL SHUT-IN

RUBY DIRKS #4

DST # 6

TOTAL FLOW TIME 90

SLOPE

77.1

PSI/CYCLE

P*

293.22

PSI

	<u>TIME(MIN)</u>	<u>Pws (psi)</u>	Log <u>Horn T</u>	<> <u>PRESSURE</u>	<u>Horn T</u>
	3	127.8	1.491	127.8	31
	6	155.8	1.204	28.0	16
	9	181.6	1.041	25.8	11
	12	201.8	0.929	20.2	9
	15	216.4	0.845	14.6	7
	18	227.6	0.778	11.2	6
	21	233.2	0.723	5.6	5
Q	24	241.0	0.677	7.8	5
	27	245.5	0.637	4.5	4
	30	248.9	0.602	3.4	4
	33	250.0	0.571	1.1	4
	36	251.1	0.544	1.1	4
	39	253.4	0.520	2.2	3
	42	253.4	0.497	0.0	3
	45	255.6	0.477	2.2	3
X	48	257.9	0.459	2.2	3

INITIAL SHUT-IN

RUBY DIRKS #4

DST # 6

INITIAL FLOW TIME 45

SLOPE

171.4

PSI/CYCLE

P*

294.76

PSI

	<u>TIME(MIN)</u>	<u>Pws (psi)</u>	<u>Log Horn T</u>	<u><> PRESSURE</u>	<u>Horn T</u>
	3	87.4	1.041	87.4	16
	6	103.1	0.778	15.7	9
	9	153.6	0.637	50.4	6
	12	179.4	0.544	25.8	5
	15	199.6	0.477	20.2	4
	18	210.8	0.426	11.2	4
Q	21	228.7	0.385	17.9	3
	24	235.4	0.352	6.7	3
	27	241.0	0.325	5.6	3
	30	246.6	0.301	5.6	3
	33	248.9	0.281	2.2	2
	36	252.2	0.263	3.4	2
	39	254.5	0.248	2.2	2
	42	255.6	0.234	1.1	2
X	45	256.7	0.222	1.1	2

FINAL SHUT-IN

RUBY DIRKS #4

DST # 6

TOTAL FLOW TIME 90

SLOPE

77.1

PSI/CYCLE

P*

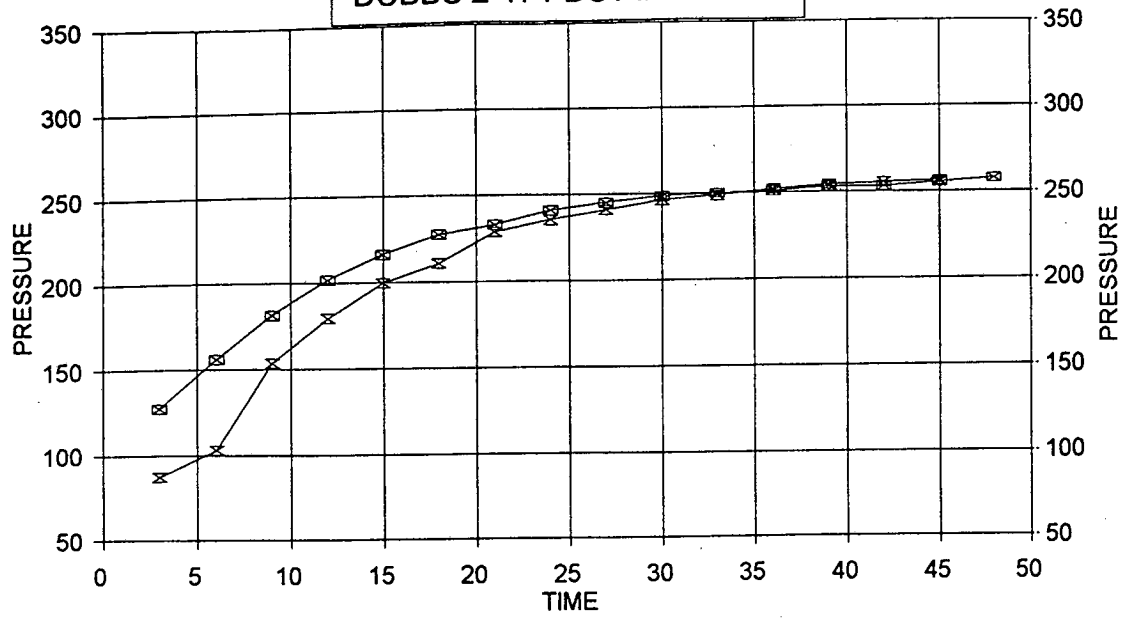
293.22

PSI

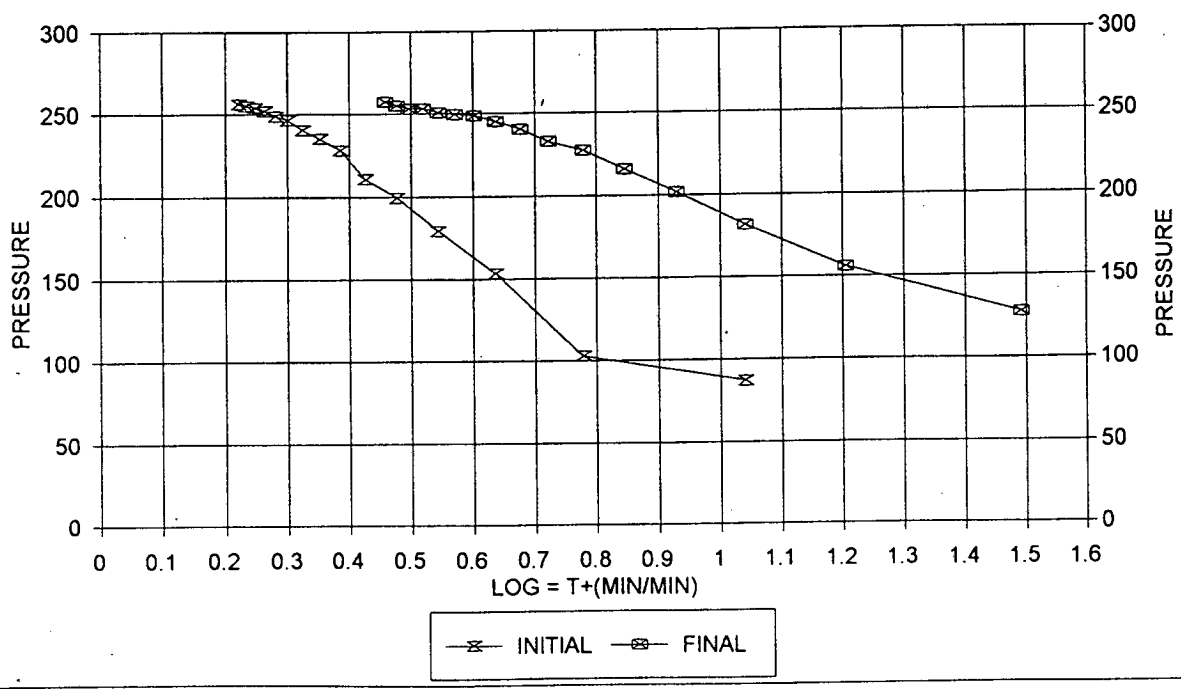
	<u>TIME(MIN)</u>	<u>Pws (psi)</u>	<u>Log Horn T</u>	<u><> PRESSURE</u>	<u>Horn T</u>
	3	127.8	1.491	127.8	31
	6	155.8	1.204	28.0	16
	9	181.6	1.041	25.8	11
	12	201.8	0.929	20.2	9
	15	216.4	0.845	14.6	7
	18	227.6	0.778	11.2	6
	21	233.2	0.723	5.6	5
Q	24	241.0	0.677	7.8	5
	27	245.5	0.637	4.5	4
	30	248.9	0.602	3.4	4
	33	250.0	0.571	1.1	4
	36	251.1	0.544	1.1	4
	39	253.4	0.520	2.2	3
	42	253.4	0.497	0.0	3
	45	255.6	0.477	2.2	3
X	48	257.9	0.459	2.2	3

DELTA T DELTA P

DUBBS 2-17 / DST #3



HORNER PLOT



15-109-20589-0000

CALCULATED RECOVERY ANALYSIS WEIGHT PIPE

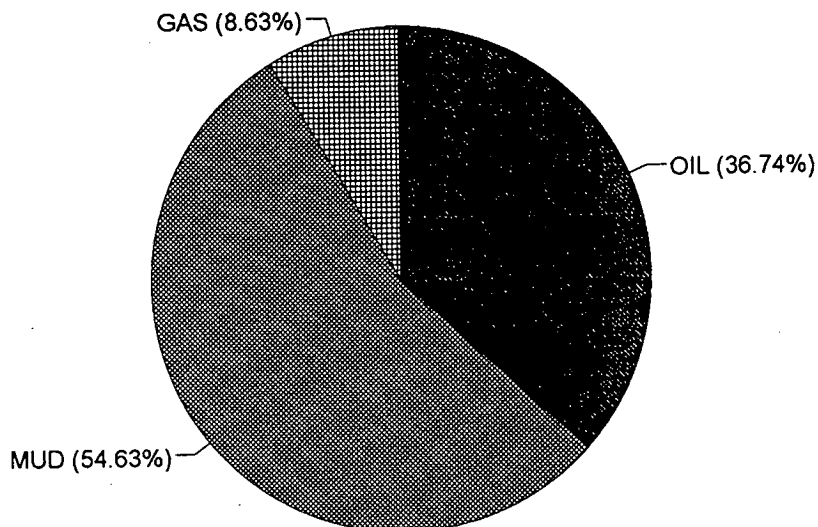
DST # 6

TICKET # 8122

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	3		0	100	3		0		0
2	10	30	3	70	7		0		0
3	300	8	24	35	105		0	57	171
4			0		0		0		0
5			0		0		0		0
TOTAL	313	8.626198	27	36.74121	115	0	0	54.63259	171

HRS OPE BBL/DAY

BBL OIL=	0.805	*	1.50	12.88
BBL WATER	0	*		0
BBL MUD=	1.197			
BBL GAS=	0.189			



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

ORIGINAL

New

Date	6-20-95	Sec.	6	Fwp.	13	Range	33W	Called Out	8:45 PM	On Location	10:45 PM	Job Start	11:15 PM	Finish
Case	Ruby Dicks	Well No.	4	Location	Monmouth - 115' 4" W			County	Logan	State	KS			

Contractor		Abiecrumbie Dely Rig Co	
Type Job		Surface	
Hole Size	12" 4	T.D.	217
Csg.	8"	Depth	217
Tbg. Size		Depth	
Drill Pipe		Depth	
Tool		Depth	
Cement Left in Csg.	10 15	Shoe Joint	
Press Max.		Minimum	
Meas Line	#23	Displace	12.84 GPM
Perf.			

Owner

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 T.O. Formit

Street P.O. 352

City Russell **State** Kan 67665

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

EQUIPMENT

Pumptrk	No.	Cementer	Dillon
	15.3	Helper	
Pumptrk	No.	Cementer	Terry
		Helper	
Bulktrk		Driver	
Bulktrk		Driver	

Purchase Order No.

X *Anthony W. B.*

CEMENT

Amount Ordered	150 lbs	24 gal
Consisting of		
Common	90	720 648.00
Poz. Mix	60	315 181.00
Gel.	3	4.50 28.50
Chloride	5	28.00 140.00
Quickset		
Sales Tax		
Handling	105	157.50
Mileage	20 mi	.04 120.00
Sub Total		1283.00
Total		

DEPTH of Job

Reference:	445.00
235 Per 1/2 in 20	47.00
Plug	45.00
Sub Total	537.00
Tax	
Total	

Remarks:

Cement Pir

Floating Equipment

RECEIVED

STATE CORPORATION COMMISSION

OCT 11 1995

CONSERVATION DIVISION
Wichita, Kansas

ALLIED CEMENTING CO., INC.

1256

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

SERVICE POINT: **ORIGINAL**
Oakley

DATE <u>6-29-95</u>	SEC. <u>6</u>	TWP. <u>13</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>2:15 PM</u>	JOB START	JOB FINISH <u>6:00 PM</u>
LEASE <u>Ruby Dirks</u>	WELL # <u>4</u>	LOCATION <u>Monument 115-6W</u>			COUNTY <u>Logan</u>	STATE <u>Kan</u>	

OLD OR (NEW) (Circle one)

CONTRACTOR Abecrambie R.T.D #8 OWNER Same
TYPE OF JOB Production String (Bottom) CEMENT

HOLE SIZE 7 1/8 T.D. 4635'
CASING SIZE 4 1/2 DEPTH 4549' AMOUNT ORDERED 200 sks Asc, 10% salt
TUBING SIZE DEPTH 500 gal WFR-2

DRILL PIPE DEPTH
TOOL D-V Tool DEPTH 1982'
MEAS. MAX MINIMUM
MEAS. LINE SHOE JOINT 13.98'
CEMENT LEFT IN CSG. 13.98'
PERFS.

EQUIPMENT

PUMP TRUCK CEMENTER	<u>Watt</u>
# <u>191</u> HELPER	<u>Wayne</u>
BULK TRUCK	
# <u>303</u> DRIVER	<u>Terry</u>
BULK TRUCK	
# <u>218</u> DRIVER	<u>Dean</u>

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
<u>ASC - 200 sks</u>	@	<u>8.70</u>	<u>1,740.00</u>
<u>Salt - 24 sks</u>	@	<u>7.00</u>	<u>168.00</u>
<u>WFR-2 - 500 gal</u>	@	<u>1.00</u>	<u>500.00</u>
	@		
HANDLING <u>200 sks</u>	@	<u>1.05</u>	<u>210.00</u>
MILEAGE <u>44 per sk/mile</u>			<u>160.00</u>
			TOTAL <u>2,778.00</u>

REMARKS:
Put Centralizers #1-#2-#8-13-16-66-67
Basket on 66-67

SERVICE

DEPTH OF JOB	<u>4549'</u>		
PUMP TRUCK CHARGE			<u>1,090.00</u>
EXTRA FOOTAGE	@		
MILEAGE <u>20 miles</u>	@	<u>2.35</u>	<u>47.00</u>
PLUG	@		
	@		
	@		
			TOTAL <u>1,137.00</u>

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

FLOAT EQUIPMENT

<u>4 1/2</u>			
1- Guide Shoe	@		<u>109.00</u>
1- AFD insert	@		<u>169.00</u>
2- Basket	@	<u>113.00</u>	<u>226.00</u>
7- Centralizers	@	<u>53.00</u>	<u>371.00</u>
5- Reciprocating Scratchers	@	<u>25</u>	<u>125.00</u>
1- Loc Ring			<u>20.00</u>
1- D-V Tool			<u>2740.00</u>
			TOTAL <u>3,760.00</u>

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

SIGNATURE John O. Farmer IV

TAX _____
TOTAL CHARGE _____
DISCOUNT _____ IF PAID IN 30 DAYS