

ORIGINAL

CONFIDENTIAL SIDE ONE

FEB 2 8 1990

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

API NO. 15- 101-21,533 -00-00 FROM CONFIDENTIAL

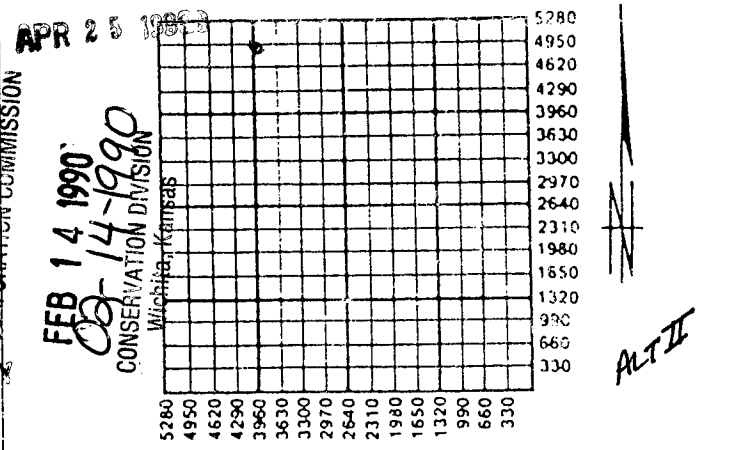
Operator: License # 5238
Name: Petroleum, Inc.
Address 301 N. Main, Suite 900
City/State/Zip Wichita, KS 67202
Purchaser: Koch Oil Company
Operator Contact Person: Everett Jones
Phone (913) 434-4647

County Lane
Irregular Section East
N/2 N/2 NW Sec. 31 Twp. 16 Rge. 29 West
4950 Ft. North from Southeast Corner of Section
3835 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Contractor: Name: Duke Drilling Co., Inc.
License: 5929
Wellsite Geologist: Tyler Sanders

Lease Name Dickey "C" Well # 1
Field Name Wildcat
Producing Formation Marmaton
Elevation: Ground 2833' KB 2841'
F.C. @ 4558'
Total Depth 4600' PBTD CIBP @ 4490'

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp. Abd.
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)



If ~~GW~~ old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
Drilling Method:
 Mud Rotary Air Rotary Cable
11-20-89 12-2-89 1-17-90
Spud Date Date Reached TD Completion Date

Amount of Surface Pipe Set and Cemented at 275 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 2245 Feet
If Alternate II completion, cement circulated from 2245
feet depth to Surface w/ 425 sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 Roy H. Julius
Title Drilling Superintendent Date 2-13-90
Subscribed and sworn to before me this 13 day of February,
19 90.
Notary Public Sherry Fraser
Date Commission Expires 3-20-90

K.C.C. OFFICE USE ONLY
 Letter of Confidentiality Attached
 Wireline Log Received
 Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)
NP 3902

SHERRY FRASER
NOTARY PUBLIC
STATE OF KANSAS
My Appl. Exp. 3-20-90

ORIGINAL

SIDE TWO

Operator Name Petroleum, Inc.

Lease Name Dickey "C"

Well # 1

Sec. 31 Twp. 16 Rge. 29
 East
 West

County Lane

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 Yes No
(Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy.)

*** SEE ATTACHMENTS**

Formation Description

2 8 1991

Log Sample FROM CONFIDENTIAL

Name	Top	Bottom
Anhydrite	2247	(+594)
B/Anhydrite	2275	(+566)
Tarkio	3531	(-690)
Howard	3639	(-793)
Topeka	3675	(-834)
Heebner	3911	(-1070)
Toronto	3932	(-1091)
Lansing	3948	(-1107)
Muncie Creek	4110	(-1269)
Stark	4206	(-1365)

CASING RECORD

New Used Marmaton
BKC 4281 (-1440)
4310 (-1469)

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 1/8"	8-5/8"	20#	275'	60/40poz	155	2% gel 3% cc.
Production	7-7/8"	5 1/2"	14#	4602'	Class "A"	25	2% gel 18% salt
					50/50poz	150	1% CRF3 4# Gilsonite
2nd Stage					Haliburton Lite	425	6# Gilsonite

PERFORATION RECORD

Shots Per Foot Specify Footage of Each Interval Perforated

Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth

4	Johnson Lime	4516-4519	500 gal. 15% MCA	4516-19
4	Lower Marmaton	4431-4438	250 gal. 15% MCA	4431-38
4	Upper Marmaton	4382-4388	250 gal. 15% MCA	4382-88

TUBING RECORD

Size 2 7/8 Set At 4444' Packer At

Liner Run Yes No

Date of First Production 1-19-90 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity
State test 2-6-90		90		0		0		

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

Vented Sold Used on Lease
(If vented, submit ACO-18.)

Open Hole Perforation Dually Completed Commingled
 Other (Specify)

4431-4438

4382-4388

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

15-101-21533-00-00
Drill-Stem Test Data *CONFIDENTIAL*

Well Name & No. <u>DICKEY "C" #1</u>	Test No. <u>1</u>	Date <u>11/25/89</u>
Company <u>PETROLEUM INC</u>	Zone Tested <u>KANSAS CITY</u>	
Address <u>301 N MAIN SWT 900 WICHITA KS 67202-1508</u>	Elevation <u>2841 KB</u>	
Co. Rep./Geo. <u>MR TYLER SANDERS</u>	Cont. <u>DUKE #4</u>	Est. Ft. of Pay <u>2</u>
Location: Sec. <u>31</u>	Twp. <u>16S</u>	Rge. <u>29W</u> Co. <u>LANE</u> State <u>KANSAS</u>

Interval Tested <u>4105-4151</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>46</u>	Top Choke — 1" _____
Top Packer Depth <u>4100</u>	Bottom Choke — 3/4" _____
Bottom Packer Depth <u>4105</u>	Hole Size — 7 7/8" _____
Total Depth <u>4151</u>	Rubber Size — 6 3/4" _____
Wt. Pipe I.D. — 2.7 _____	Ft. Run <u>0</u> <i>FROM CONFIDENTIAL</i>
Drill Collar — 2.25 _____	Ft. Run <u>210</u>
Mud Wt. <u>9.2</u> lb./gal.	Viscosity <u>46</u> Filtrate <u>8.2</u>
Tool Open @ <u>3:30 PM</u>	Initial Blow <u>WEAK SURFACE BLOW DIED IN 10 MINUTES -</u>
	<u>FLUSHED TOOL IN INITIAL OPEN-NO HELP</u>
Final Blow <u>NO RETURN-FLUSHED TOOL-NO HELP-PULLED OUT BY</u>	
	<u>COMPANY ORDERS</u>

Recovery — Total Feet <u>2</u>	Flush Tool? <u>YES</u>
Rec. <u>2</u> Feet of <u>DRILLING MUD (NO SHOW OF OIL)</u>	
Rec. <u>0</u> Feet of _____	
Rec. <u>0</u> Feet of _____	
Rec. <u>0</u> Feet of _____	
Rec. <u>0</u> Feet of _____	

BHT 109 °F Gravity _____ °API @ 0 °F Corrected Gravity 0 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud <u>2066.4</u> PSI	AK1 Recorder No. <u>13339</u> Range <u>4700</u>
(B) First Initial Flow Pressure <u>22.3</u> PSI	@ (depth) <u>4110</u> w/Clock No. <u>25814</u>
(C) First Final Flow Pressure <u>22.3</u> PSI	AK1 Recorder No. <u>13309</u> Range <u>4025</u>
(D) Initial Shut-In Pressure <u>66.7</u> PSI	@ (depth) <u>4146</u> w/Clock No. <u>8376</u>
(E) Second Initial Flow Pressure <u>0</u> PSI	Initial Opening <u>15</u>
(F) Second Final Flow Pressure <u>0</u> PSI	Initial Shut-In <u>30</u>
(G) Final Shut-In Pressure _____ PSI	Final Flow <u>10</u>
(H) Final Hydrostatic Mud <u>2048</u> PSI	Final Shut-In <u>0</u>

RECEIVED
 STATE CORPORATION COMMISSION
 CONSERVATION DIVISION
 WICHITA, KANSAS
FEB 14 1990

Our Representative MR ROD STEINER TOTAL PRICE..... \$ 450

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No.	DICKEY "C" #1	Test No.	2	Date	11/26/89
Company	PETROLEUM INC	Zone Tested	KANSAS CITY -180'		
Address	301 N MAIN SWT 900 WICHITA KS 67202-150B		Elevation	2841 KB	
Co. Rep./Geo.	MR TYLER SANDERS	Cont.	DUKE #4	Est. Ft. of Pay	6
Location: Sec.	31	Twp.	16S	Rge.	29W
		Co.	LANE	State	KANSAS

Interval Tested	4167-4197	Drill Pipe Size	4.5" XH	
Anchor Length	30	Top Choke - 1"		
Top Packer Depth	4162	Bottom Choke - 3/4"		
Bottom Packer Depth	4167	Hole Size - 7 7/8"		
Total Depth	4197	Rubber Size - 6 3/4"		
Wt. Pipe I.D. - 2.7		Ft. Run	0	
Drill Collar - 2.25		Ft. Run	210	
Mud Wt.	9.3	Viscosity	51	
	lb./gal.	Filtrate	8.6"	
Tool Open @	4:02 AM	Initial Blow	SURFACE BLOW SLOWLY INCREASED TO 1"	
			THROUGHOUT-ISI: NO RETURN BLOW	

Final Blow SURFACE BLOW DIED IN 20 MINUTES-FLUSHED TOOL/GOOD
SURGE-WEAK SURFACE BLOW THOUGHOUT

Recovery - Total Feet	150	Flush Tool?	YES
Rec.	150	Feet of	WATERY MUD-55% MUD/45% WATER
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	

BHT 111 °F Gravity °API @ 0 °F Corrected Gravity 0 °API
RW .48 @ 60 °F Chlorides 16000 ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud	2119	PSI	AK1 Recorder No.	13339	Range	4700
(B) First Initial Flow Pressure	37.8	PSI	@(depth)	4170	w/Clock No.	25814
(C) First Final Flow Pressure	47.9	PSI	AK1 Recorder No.	13309	Range	4025
(D) Initial Shut-In Pressure	825.4	PSI	@(depth)	4192	w/Clock No.	8376
(E) Second Initial Flow Pressure	58	PSI	Initial Opening	15		
(F) Second Final Flow Pressure	825.4	PSI	Initial Shut-In	30		
(G) Final Shut-In Pressure	825.4	PSI	Final Flow	60		
(H) Final Hydrostatic Mud	4.9	PSI	Final Shut-In	120		

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CONSERVATION DIVISION
Wichita, Kansas

Our Representative MR ROD STEINBRINK TOTAL PRICE \$ 450
Printcraft Printers - Hays, KS

CONFIDENTIAL

Drill-Stem Test Data

Well Name & No. DICKEY "C" #1 Test No. 3 Date 11/26/89
 Company PETROLEUM INC Zone Tested KANSAS CITY-220"
 Address 301 N MAIN SWT 900 WICHITA KS 67202-150B Elevation 2841 KB
 Co. Rep./Geo. MR TYLER SANDERS Cont. DUKE #4 Est. Ft. of Pay 5
 Location: Sec. 31 Twp. 16S Rge. 29W Co. LANE State KANSAS

Interval Tested 4237-4277 Drill Pipe Size 4.5" XH
 Anchor Length 40 Top Choke - 1" _____
 Top Packer Depth 4232 Bottom Choke - 3/4" _____
 Bottom Packer Depth 4237 Hole Size - 7 7/8" _____
 Total Depth 4277 Rubber Size - 6 1/4" _____
 Wt. Pipe I.D. - 2.7 _____ Ft. Run 0
 Drill Collar - 2.25 _____ Ft. Run 210
 Mud Wt. 9.4 lb./gal. Viscosity 45 Filtrate 10.8

Tool Open @ 10:24 PM Initial Blow WEAK SURFACE BLOW BUILT TO 1" THOUGHOUT-
ISI: 1" BLOW DIED ON ITS OWN IN 15 MINUTES
 Final Blow WEAK SURFACE BLOW DIED IN 32 MINUTES-FLUSHED TOOL/
GOOD SURGE-NO HELP

Recovery - Total Feet 90 Flush Tool? YES-2nd OPEN
 Rec. 90 Feet of HEAVILY OIL SPECKLED DRILLING MUD WITH GOOD
 Rec. 0 Feet of SHOW IN TOOL & GOOD ODOR
 Rec. 0 Feet of _____
 Rec. 0 Feet of _____
 Rec. 0 Feet of _____

BHT 112 °F Gravity _____ °API @ 0 °F Corrected Gravity 0 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud 2210.7 PSI AK1 Recorder No. 13339 Range 4700
 (B) First Initial Flow Pressure 38 PSI @ (depth) 4240 w/Clock No. 25814
 (C) First Final Flow Pressure 57.3 PSI AK1 Recorder No. 13309 Range 4025
 (D) Initial Shut-In Pressure 95.8 PSI @ (depth) 4272 w/Clock No. 8376
 (E) Second Initial Flow Pressure 66.7 PSI Initial Opening 15
 (F) Second Final Flow Pressure 77.8 PSI Initial Shut-In 30
 (G) Final Shut-In Pressure 90.6 PSI Final Flow 45
 (H) Final Hydrostatic Mud 2098.7 PSI Final Shut-In 90

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 Wichita, Kansas

Our Representative MR ROD STEINBRINK TOTAL PRICE \$ 450

CONFIDENTIAL

Drill-Stem Test Data

Well Name & No.	DICKEY "C" #1	Test No.	4	Date	11/27/89
Company	PETROLEUM INC	Zone Tested	MARMATON		
Address	301 N MAIN SWT 900 WICHITA KS 67202-150B		Elevation	2841 KB	
Co. Rep./Geo.	MR TYLER SANDERS	Cont.	DUKE #4	Est. Ft. of Pay	4
Location: Sec.	31	Twp.	16S	Rge.	29W
Co.	LANE		State	KANSAS	

Interval Tested 4330-4400

Anchor Length 70

Top Packer Depth 4325

Bottom Packer Depth 4330

Total Depth 4400

Wt. Pipe I.D. — 2.7 _____

Drill Collar — 2.25 _____

Mud Wt. 9.3 lb./gal.

Tool Open @ 7:46 PM Initial Blow PACKER FAILURE/2nd ATTEMPT- NO HELP

Drill Pipe Size 4.5" XH

Top Choke — 1" _____

Bottom Choke — 3/4" _____

Hole Size — 7 7/8" _____

Rubber Size — 6 3/4" _____

Ft. Run 0

Ft. Run 180

Viscosity 58 Filtrate 10.2

Final Blow _____

Recovery — Total Feet 370 Flush Tool? NO

Rec. 370 Feet of DRILLING MUD

Rec. 0 Feet of _____

Rec. 0 Feet of _____

Rec. 0 Feet of _____

Rec. 0 Feet of _____

BHT 110 °F Gravity _____ °API @ 0 °F Corrected Gravity 0 °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2400 ppm System

(A) Initial Hydrostatic Mud 2335 PSI AK1 Recorder No. 13339 Range 4700

(B) First Initial Flow Pressure 0 PSI @ (depth) 4333 w/Clock No. 25814

(C) First Final Flow Pressure 0 PSI AK1 Recorder No. 13309 Range 4025

(D) Initial Shut-In Pressure 0 PSI @ (depth) 4395 w/Clock No. 8376

(E) Second Initial Flow Pressure 0 PSI Initial Opening 0

(F) Second Final Flow Pressure 0 PSI Initial Shut-In 0

(G) Final Shut-In Pressure 0 PSI Final Flow 0

(H) Final Hydrostatic Mud 2335 PSI Final Shut-In 0

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CONSERVATION DIVISION
Wichita, Kansas

Our Representative MR ROD STEINBRINK

TOTAL PRICE \$ 300

CONFIDENTIAL

Drill-Stem Test Data

Well Name & No.	DICKEY "C" #1	Test No.	5	Date	11/27/89
Company	PETROLEUM INC	Zone Tested	MARMATON		
Address	301 N MAIN SWT 900 WICHITA KS 67202-1508		Elevation	2841 KB	
Co. Rep./Geo.	MR TYLER SANDERS	Cont.	DUKE #4	Est. Ft. of Pay	4
Location: Sec.	31	Twp.	16S	Rge.	29W
Co.	LANE		State	KANSAS	

Interval Tested	4275-4400	Drill Pipe Size	4.5" XH
Anchor Length	125	Top Choke - 1"	
Top Packer Depth	4270	Bottom Choke - 3/4"	
Bottom Packer Depth	4275	Hole Size - 7 7/8"	
Total Depth	4400	Rubber Size - 6 3/4"	
Wt. Pipe I.D. - 2.7		Ft. Run	0
Drill Collar - 2.25		Ft. Run	120
Mud Wt.	9.3 lb./gal.	Viscosity	58
		Filtrate	10.2
Tool Open @	11:41 PM	Initial Blow	STRONG BLOW TO BOTTOM IN 1 MINUTE -
		ISI:	bled off blow-back to bottom in 15 minutes
Final Blow	STRONG RETURN OFF BOTTOM IN 1 MINUTE - GTS 32 MIN INTO/TSTM		

Recovery - Total Feet	2840	Flush Tool?	NO
Rec.	2840	Feet of	CLEAN GASSY OIL - REVERSED INTO TRUCK -
Rec.	0	Feet of	(APPROX. 45 BBLs)
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	

BHT	114 °F	Gravity	29	%API @	48	°F	Corrected Gravity	30.2	%API
RW	@	°F Chlorides		ppm Recovery	Chlorides	2400	ppm System		
(A) Initial Hydrostatic Mud	2236.4	PSI	AK1 Recorder No.	13339	Range	4700			
(B) First Initial Flow Pressure	337.8	PSI	@ (depth)	4278	w/Clock No.	25814			
(C) First Final Flow Pressure	626.2	PSI	AK1 Recorder No.	13309	Range	4025			
(D) Initial Shut-In Pressure	1161.6	PSI	@ (depth)	4395	w/Clock No.	8376			
(E) Second Initial Flow Pressure	531.3	PSI	Initial Opening	15					
(F) Second Final Flow Pressure	1096.3	PSI	Initial Shut-In	30					
(G) Final Shut-In Pressure	1152.6	PSI	Final Flow	60					
(H) Final Hydrostatic Mud	2167.3	PSI	Final Shut-In	300					

Our Representative MR ROD STEINBRINK TOTAL PRICE \$ 470

Drill-Stem Test Data

CONFIDENTIAL

Well Name & No. DICKEY "C" #1 Test No. 6 Date 11/28/89
 Company PETROLEUM INC Zone Tested MYRIK
 Address 301 N MAIN SWT 900 WICHITA KS 67202-1508 Elevation 2841 KB
 Co. Rep./Geo. MR TYLER SANDERS Cont. DUKE #4 Est. Ft. of Pay 4
 Location: Sec. 31 Twp. 16S Rge. 29W Co. LANE State KANSAS

Interval Tested 4414-4448 Drill Pipe Size 4.5" XH
 Anchor Length 34 Top Choke — 1" _____
 Top Packer Depth 4409 Bottom Choke — 3/4" _____
 Bottom Packer Depth 4414 Hole Size — 7 7/8" _____
 Total Depth 4448 Rubber Size — 6 3/4" _____
 Int. Pipe I.D. — 2.7 _____ Ft. Run 0
 Drill Collar — 2.25 _____ Ft. Run 210
 Mud Wt. 9.3 lb./gal. Viscosity 53 Filtrate 9.0
 Pool Open @ 11:28 PM Initial Blow STRONG BLOW TO BOTTOM IN 1 MINUTE-
 ISI: bled off blow-off bottom in 3 minutes
 Final Blow STRONG RETURN OFF BOTTOM IN 1 MINUTE-(TSTM)
GAS TO SURFACE IN 30 MINUTES-GAS BURNS BRIGHT ORANGE FLAME

Recovery — Total Feet 2830 Flush Tool? NO
 Sec. 2830 Feet of CLEAN GASSY OIL-REVERSED APPROX 30 BBLS ONTO
 Sec. 0 Feet of TRUCK
 Sec. 0 Feet of _____
 Sec. 0 Feet of _____
 Sec. 0 Feet of _____

WT 115 °F Gravity 37.4 °API @ 58 °F Corrected Gravity 37.6 °API
 Chlorides _____ ppm Recovery Chlorides 1800 ppm System
 Initial Hydrostatic Mud 2328.64 PSI AK1 Recorder No. 13339 Range 4700
 First Initial Flow Pressure 345.5 PSI @ (depth) 4417 w/Clock No. 25814
 First Final Flow Pressure 531.1 PSI AK1 Recorder No. 13309 Range 4025
 Initial Shut-In Pressure 1147.2 PSI @ (depth) 4443 w/Clock No. 8376
 Second Initial Flow Pressure 659.1 PSI Initial Opening 15
 Second Final Flow Pressure 1018.6 PSI Initial Shut-In 30
 Final Shut-In Pressure 1154.3 PSI Final Flow 60
 Final Hydrostatic Mud 2184.3 PSI Final Shut-In 120

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 CONSERVATION DIVISION
 Hays, Kansas
 MR ROD STEINBRINK

Representative _____ TOTAL PRICE \$ 470
 Printcraft Printers - Hays, KS

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

CONFIDENTIAL Drill-Stem Test Data

CONFIDENTIAL

Well Name & No. <u>DICKEY "C" #1</u>	Test No. <u>7</u>	Date <u>11/29/89</u>
Company <u>PETROLEUM INC</u>	Zone Tested <u>FT SCOTT</u>	
Address <u>301 N MAIN-SWT 900 WICHITA KS 67202-1508</u>	Elevation <u>2841 KB</u>	
Co. Rep./Geo. <u>MR TYLER SANDERS</u>	Cont. <u>DUKE #4</u>	Est. Ft. of Pay <u>0</u>
Location: Sec. <u>31</u>	Twp. <u>16SD</u>	Rge. <u>29W</u> Co. <u>LANE</u> State <u>KANSAS</u>

Interval Tested <u>4441-4478</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>37</u>	Top Choke - 1" <u></u>
Top Packer Depth <u>4436</u>	Bottom Choke - 3/4" <u></u>
Bottom Packer Depth <u>4441</u>	Hole Size - 7 7/8" <u></u>
Total Depth <u>4478</u>	Rubber Size - 6 3/4" <u></u>
Wt. Pipe I.D. - 2.7 <u></u>	Ft. Run <u>0</u>
Drill Collar - 2.25 <u></u>	Ft. Run <u>210</u>
Mud Wt. <u>9.0</u> lb./gal.	Viscosity <u>47</u> Filtrate <u>10.4</u>

Tool Open @ 10:15 PM Initial Blow FAIR BLOW SLOWLY BUILT TO BOTTOM IN 5 MINUTES
ISI: BLED OFF BLOW-WEAK SURFACE BLOW STEADY THROUGHOUT
 Final Blow FAIR TO STRONG RETURN BOTTOM OF BUCKET IN 5 MINUTES-
FSI: BLED OFF BLOW-NO RETURN BLOW

Recovery - Total Feet <u>1310</u>	Flush Tool? <u>NO</u>
Rec. <u>200</u> Feet of <u>SLIGHTLY OIL STAINED WATERY MUD</u>	
Rec. <u>1110</u> Feet of <u>SALTY WATER</u>	
Rec. <u>0</u> Feet of <u></u>	
Rec. <u>0</u> Feet of <u></u>	
Rec. <u>0</u> Feet of <u></u>	

BHT 117 °F Gravity 0 °API @ 0 °F Corrected Gravity 0 °API
 RW .31 @ 72 °F Chlorides 20000 ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud <u>2225.2</u> PSI	AK1 Recorder No. <u>13339</u> Range <u>4700</u>
(B) First Initial Flow Pressure <u>0</u> PSI	@ (depth) <u>4445</u> W/Clock No. <u>25814</u>
(C) First Final Flow Pressure <u>0</u> PSI	AK1 Recorder No. <u>13309</u> Range <u>4025</u>
(D) Initial Shut-In Pressure <u>0</u> PSI	@ (depth) <u>4473</u> W/Clock No. <u>8376</u>
(E) Second Initial Flow Pressure <u>0</u> PSI	Initial Opening <u>15</u>
(F) Second Final Flow Pressure <u>0</u> PSI	Initial Shut-In <u>30</u>
(G) Final Shut-In Pressure <u>0</u> PSI	Final Flow <u>60</u>
(H) Final Hydrostatic Mud <u>2225.2</u> PSI	Final Shut-In <u>120</u>

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Our Representative MR ROD STEINBRINK TOTAL PRICE \$ 450

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

CONFIDENTIAL

Drill-Stem Test Data

Well Name & No. DICKEY "C" #1 Test No. B Date 11/30/89
 Company PETROLEUM INC Zone Tested CHEROKEE
 Address 301 N MAIN-SWT 900 WICHITA KS 67202-150B Elevation 2841 KB
 Co. Rep./Geo. MR TYLER SANDERS cont. DUKE #4 Est. Ft. of Pay 0
 Location: Sec. 31 Twp. 16SD Rge. 29W Co. LANE State KANSAS

Interval Tested 4482-4502 Drill Pipe Size 4.5" XH
 Anchor Length 20 Top Choke — 1" _____
 Top Packer Depth 4478 Bottom Choke — 1/4" _____
 Bottom Packer Depth 4482 Hole Size — 7 7/8" _____
 Total Depth 4502 Rubber Size — 6 3/4" _____
 Wt. Pipe I.D. — 2.7 _____ Ft. Run 0
 Drill Collar — 2.25 _____ Ft. Run 210
 Mud Wt. 9.3 lb./gal. Viscosity 47 Filtrate 9.8
 Tool Open @ 4:51 PM Initial Blow SURFACE BLOW STEADY THROUGHOUT

Final Blow SURFACE BLOW DIED IN 5 MINUTES-FLUSHED TOOL -
SURFACE RETURN ALMOST DEAD @FINAL OF 15 MINUTES

Recovery — Total Feet 10 Flush Tool? YES
 Rec. 10 Feet of DRILLING MUD (NO SHOW OF OIL)
 Rec. 0 Feet of _____
 Rec. 0 Feet of _____
 Rec. 0 Feet of _____
 Rec. 0 Feet of _____

BHT 117 °F Gravity _____ °API @ 0 °F Corrected Gravity 0 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4500 ppm System

(A) Initial Hydrostatic Mud	<u>2325.2</u> PSI	AK1 Recorder No. <u>13339</u>	Range <u>4700</u>
(B) First Initial Flow Pressure	<u>21.3</u> PSI	@ (depth) <u>4485</u>	w/Clock No. <u>25828</u>
(C) First Final Flow Pressure	<u>21.3</u> PSI	AK1 Recorder No. <u>13309</u>	Range <u>4025</u>
(D) Initial Shut-In Pressure	<u>293.6</u> PSI	@ (depth) <u>4497</u>	w/Clock No. <u>25810</u>
(E) Second Initial Flow Pressure	<u>21.3</u> PSI	Initial Opening	<u>15</u>
(F) Second Final Flow Pressure	<u>21.3</u> PSI	Initial Shut-In	<u>30</u>
(G) Final Shut-In Pressure	<u>21.3</u> PSI	Final Flow	<u>15</u>
(H) Final Hydrostatic Mud	<u>2365.2</u> PSI	Final Shut-In	<u>30</u>

RECEIVED
 STATE CORPORATION COMMISSION
 FEB 14 1990
 CONSERVATION DIVISION
 Wichita, Kansas

Our Representative MR ROD STEINBRINK TOTAL PRICE \$ 450
 Printcraft Printers - Hays, KS

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

CONFIDENTIAL Drill-Stem Test Data

Well Name & No.	DICKEY "C" #1	Test No.	9	Date	12/1/89				
Company	PETROLEUM INC	Zone Tested	JOHNSON						
Address	301 N MAIN-SWT 900		Elevation	2841 KB					
Co. Rep./Geo.	MR TYLER SANDERS	Cont.	DUKE #4	Est. Ft. of Pay	6				
Location: Sec.	31	Twp.	16S	Rge.	29W	Co.	LANE	State	KANSAS

Interval Tested	4494-4531	Drill Pipe Size	4.5" XH		
Anchor Length	37	Top Choke	1"		
Top Packer Depth	4489	Bottom Choke	3/4"		
Bottom Packer Depth	4494	Hole Size	7 7/8"		
Total Depth	4531	Rubber Size	6 3/4"		
Wt. Pipe I.D. - 2.7		Ft. Run	0		
Drill Collar - 2.25		Ft. Run	210		
Mud Wt.	9.3 lb./gal.	Viscosity	48	Filtrate	9.6
Tool Open @	6:38 AM	Initial Blow	SURFACE BLOW SLOWLY BUILT TO 12" BLOW		
ISI:	BLED OFF BLOW-SURFACE RETURN BUILT BACK TO 1"				
Final Blow	FAIR TO STRONG BUILT TO BOTTOM IN 24 MINUTES				

Recovery - Total Feet	420	Flush Tool?	NO							
Rec.	420	Feet of	GAS IN PIPE							
Rec.	160	Feet of	CLEAN GASSY OIL -5%GAS/95%OIL							
Rec.	80	Feet of	GASSY OIL CUT MUD-30%GAS/10%OIL/60%MUD							
Rec.	60	Feet of	GASSY OIL WATER CUT MUD-25%GAS/20%OIL/20%WATER							
Rec.	120	Feet of	GASSY MUD CUT WATER-10%GAS/70%WATER/20%MUD							
BHT	120 °F	Gravity	30	°API @	58	°F	Corrected Gravity	30.2	°API	
RW	.59 @	66 °F	Chlorides	15000	ppm	Recovery	Chlorides	3500	ppm	System
(A) Initial Hydrostatic Mud	2259.5	PSI	AK1 Recorder No.	13339	Range	4700				
(B) First Initial Flow Pressure	82.1	PSI	@ (depth)	4499	w/Clock No.	25828				
(C) First Final Flow Pressure	119.5	PSI	AK1 Recorder No.	13309	Range	4025				
(D) Initial Shut-In Pressure	66.6	PSI	@ (depth)	4526	w/Clock No.	25810				
(E) Second Initial Flow Pressure	159	PSI	Initial Opening	15						
(F) Second Final Flow Pressure		PSI	Initial Shut-In	30						
(G) Final Shut-In Pressure		PSI	Final Flow	60						
(H) Final Hydrostatic Mud	2866.4	PSI	Final Shut-In	120						

MR ROD STEINBRINK

Our Representative _____

TOTAL PRICE \$ 450

ORIGINAL



F.O. BOX 951046
DALLAS, TX 75395-1046

HALLIBURTON SERVICES

INVOICE

A Halliburton Company

INVOICE NO. DATE

809972 12/02/1989

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
DICKEY C 1		LANE		KS	SAME	
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE	
NESS CITY		DUKE	CEMENT PRODUCTION CASING		12/02/1989	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.	
682450	E.L. JONES			COMPANY TRUCK	86684	

PETROLEUM INC
301 N. MAIN, SUITE 900
WICHITA, KS 67202

DIRECT CORRESPONDENCE TO:
SUITE 600
COLORADO DERBY BUILDING
WICHITA, KS 67202-0000

PRODUCTION DEPARTMENT

DEV. KATE

PRICE REF. NO.	DESCRIPTION	LEASE	U/M	UNIT PRICE	AMOUNT
000-117	PRICING AREA - MID CONTINENT MILEAGE	<i>Dickey C #1</i>	55 MI		
001-016	CEMENTING CASING	<i>used for cement production casing</i>	1 UNT	4602 FT	
007-161	MULT STAGE CEMENTING-ADD STAGE	<i>APPROX: RGT</i>	1 UNT		
019-241	CASING SWIVEL W/O WALL CLEANER		1 JOB		
018-315	MUD FLUSH		500 GAL		
504-118	HALLIBURTON LIGHT CEMENT -PREM		425 SK		
504-308	STANDARD CEMENT		75 SK		
506-105	POZMIX A		75 SK		
506-121	HALLIBURTON-GEL 2%		2 SK		
509-968	SALT		1293 LB		
507-153	CFR-3		63 LB		
508-291	GILSONITE		3150 LB		
504-308	STANDARD CEMENT		25 SK		
500-207	BULK SERVICE CHARGE		682 CFT		
500-306	MILEAGE CMTG MAT DEL OR RETURN		1618.128 TMI		
INVOICE SUBTOTAL					
DISCOUNT-(BID)					
INVOICE BID AMOUNT					
*-KANSAS STATE SALES TAX					
INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====					

RELEASED

FEB 28 1991

FROM CONFIDENTIAL

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF RECEIPT OF GOODS OR SERVICES. IN CASE OF DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH IN WHICH THE INVOICE IS DATED, CUSTOMER AGREES TO PAY FROM AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE TO EXCEED 15% PER ANNUM IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN AGENCY FOR COLLECTION OF SAID ACCOUNT. CUSTOMER AGREES TO PAY ALL COLLECT

ORIGINAL



REMIT TO: P.O. BOX 951046 DALLAS, TX 75395-1046

HALLIBURTON SERVICES

INVOICE

A Halliburton Company

INVOICE NO.	DATE
878541	11/20/1989

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
DICKY C-1		LANE		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
WESS CITY		DUKE	CEMENT SURFACE CASING		11/20/1989
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
882450	JOY D. SCHMEMDES			COMPANY TRUCK	86155

PETROLEUM INC
 301 N. MAIN, SUITE 900
 WICHITA, KS 67202

DIRECT CORRESPONDENCE TO:
 SUITE 600
 COLORADO DERBY BUILDING
 WICHITA, KS 67202-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	MILEAGE	55	MI		
001-016	CEMENTING CASING	276	FT		
030-503	CMTG PLUG LA-11,CP-1,CP-3, TOP	8 5/8	IN		
504-308	STANDARD CEMENT	1	EA		
506-105	POZMIX A	78	SK		
506-121	HALLIBURTON-GEL 2%	77	SK		
509-406	ANHYDROUS CALCIUM CHLORIDE	3	SK		
500-207	BULK SERVICE CHARGE	4	SK		
500-306	MILEAGE CMTG MAT DEL OR RETURN	163	CFT		
		875.100	TMI		
INVOICE SUBTOTAL					
DISCOUNT-(BID)					
INVOICE BID AMOUNT					
*-KANSAS STATE SALES TAX					

RELEASED
 FEB 28 1991
 FROM CONFIDENTIAL

Company 1 Acctg Date _____ Veh # _____ Code _____ Dk _____ Approved by _____

Vendor #	Due Date	Gross	GR Memo	Discount	Net	Invoice #				
380	Feb	Acct	Sub	Amount	Description	ST	UNIT	QTY	PRICE #	CT
INVOICE TOTAL - PLEASE PAY THIS AMOUNT										

TERMS: INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF CUSTOMER'S DEFAULT IN PAYMENT OF ACCOUNT BY THE LAST DAY OF FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED. CUSTOMER AGREES TO PAY HEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE TO RECEIPT PER ANNUM IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN AGENT FOR COLLECTION OF SAID ACCOUNT. THE MILL AGREES TO PAY THE COLLECTION

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ATTACH TO INVOICE & TICKET NO. 809772

FORM 1908 R-7 A Division of Halliburton Company

DISTRICT Ness City, KS DATE 12/21/89

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: Petroleum Inc (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1 LEASE Dickey C SEC. 31 TWP. 16 RANGE 29

FIELD COUNTY Lane STATE KS OWNED BY Petroleum Inc

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

Table with columns: FORMATION NAME, TYPE, THICKNESS, FROM, TO, CASING, LINER, TUBING, OPEN HOLE, PERFORATIONS, INITIAL PROD, PRESENT PROD, MUD WEIGHT, SHOTS/FT., MAX. ALLOW. P.S.I.

PREVIOUS TREATMENT: DATE TYPE MATERIALS TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED

Cont Long string with 255K class A 150 SK 50/50 per 2 1/2" gal 18% salt 1/2" CFR 3 4" Gal per SK on Bottom 425 SK HLC 6" Gal same top stage

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

- As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED
a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list.
b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies...
1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner...
2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
3. Personal injury or death or property damage...
c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials...
d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials.
e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well...
f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act...
g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT. SIGNED X E J... DATE 12/21/89 TIME 2:00 A.M. P.M.

JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

Wichita, KS
Ness City, KS

BILLED ON TICKET NO. 809972

CUSTOMER

Detroit Iron

EASE

Dickey C

WELL NO. 1

JOB TYPE

Long string

DATE

12/21/89

WELL DATA

FIELD: _____ SEC. 31 TWP. 16 RING. 29 COUNTY Lane STATE Ks

FORMATION NAME: _____ TYPE: _____

FORMATION THICKNESS: _____ FROM: _____ TO: _____

INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

COMPLETION DATE: _____ MUD TYPE: _____ MUD WT. _____

PACKER TYPE: _____ SET AT: _____

BOTTOM HOLE TEMP.: _____ PRESSURE: _____

MISC. DATA: _____ TOTAL DEPTH: _____

NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
N	14	5/2	top	4602	

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE <u>Arrow 5 1/2</u>	<u>1</u>	<u>Arrow</u>
CENTRALIZERS <u>5-4 5 1/2</u>	<u>3</u>	<u>"</u>
BOTTOM PLUG		
TOP PLUG <u>Arrow 5 1/2</u>	<u>1</u>	<u>"</u>
HEAD <u>PC 5 1/2</u>	<u>1</u>	<u>Halco</u>
PACKER <u>Arrow Dr Baskets</u>	<u>2</u>	<u>Arrow</u>
OTHER		

JOB DATA

CALLS FOR	ON LOCATION	JOB STARTED	JOB COMPLETED
<u>12/21/89</u>	<u>12/21/89</u>	<u>12/21/89</u>	<u>12/31/89</u>
DATE	DATE	DATE	DATE
TIME <u>18:30</u>	TIME <u>2000</u>	TIME <u>2400</u>	TIME <u>0430</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>D Noland</u>	<u>3580</u>	<u>Ness City</u>
<u>D Lemman</u>	<u>Comb</u>	
<u>M Childers</u>	<u>3103</u>	<u>Hays KS</u>
	<u>BIK TRK</u>	
<u>D Rothenberg</u>	<u>0530</u>	<u>Hays KS</u>
	<u>BIK TRK</u>	

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL-API

DISPL. FLUID _____ DENSITY _____ LB/GAL-API

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL _____ %

ACID TYPE _____ GAL _____ %

ACID TYPE _____ GAL _____ %

SURFACTANT TYPE _____ GAL _____ IN

NE AGENT TYPE _____ GAL _____ IN

FLUID LOSS ADD. TYPE _____ GAL-LB _____ IN

GELLING AGENT TYPE _____ GAL-LB _____ IN

FRIC. RED. AGENT TYPE _____ GAL-LB _____ IN

BREAKER TYPE _____ GAL-LB _____ IN

BLOCKING AGENT TYPE _____ GAL-LB _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT Cement

DESCRIPTION OF JOB Cement LS

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE E. J. Gorb

HALLIBURTON OPERATOR D Noland COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>25</u>	<u>Class A</u>		<u>B</u>	<u>None</u>	<u>1.20</u>	<u>15</u>
<u>2</u>	<u>130</u>	<u>Class A</u>	<u>50150</u>	<u>B</u>	<u>18% salt 16% CFR 3 4# Gilsomite</u>	<u>1.34</u>	<u>14.0</u>
<u>3</u>	<u>423</u>	<u>Class A</u>	<u>HLC</u>	<u>B</u>	<u>6# Gilsomite</u>	<u>2.04</u>	<u>12.4</u>

SUMMARY

PRESSURES IN PSI _____

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ FRACTURE GRADIENT _____

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____

HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 42 REASON Shoe ST

VOLUMES

PRESLUSH: BBL-GAL _____ TYPE _____

LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL 12

TREATMENT: BBL-GAL _____ DISPL: BBL-GAL _____

CEMENT SLURRY: BBL-GAL 196

TOTAL VOLUME: BBL-GAL _____

REMARKS

See Job Log