

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

ORIGINAL

API NO. 15- 193-20,577-00-00

County Thomas

NW - NW - SE - Sec. 32 Twp. 9S Rge. 33 X E

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

2310 Feet from E/W (circle one) Line of Section

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

Lease Name Lunsway Well # 1

Field Name (wildcat)

Producing Formation

Elevation: Ground 3181' KB 3186'

Total Depth 4771' PBD

Amount of Surface Pipe Set and Cemented at 368 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set Feet

If Alternate II completion, cement circulated from

feet depth to w/ sx cmt.

Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) AIR-IZ OTH

Chloride content 13,000 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.

Quarter Sec. Twp. S Rng. E/W

County Docket No.

Operator: License # 5135

Name: John O. Farmer, Inc.

Address P.O. Box 352

City/State/Zip Russell, KS 67665

Purchaser:

Operator Contact Person: Marge Schulte

Phone (913) 483-3144

Contractor: Name: Shields Drilling Co., Inc.

License: 5655

Wellsite Geologist: John O. Farmer IV

Designate Type of Completion

X New Well Re-Entry Workover

Oil SWD SLOW Temp. Abd.

Gas ENHR SIGW

X 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 PBD

Commingled Docket No.

Dual Completion Docket No.

Other (SWD or Inj?) Docket No.

10-25-91 11-4-91
Spud Date Date Reached TD Completion Date

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.

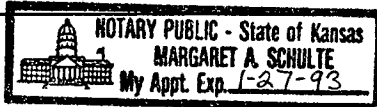
All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature John O. Farmer III
Title President Date 11-21-91

Subscribed and sworn to before me this 21st day of November 1991.

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
RECEIVED
STATE CORPORATION COMMISSION
Distribution
KCC SWD/Rep NGPA
KGS Plug Other (Specify)
NOV 22 1991
Wichita, Kansas Form ACO-1 (7-91)

Operator Name John O. Farmer, Inc. Lease Name Lunsway Well # 1

Sec. 32 Twp. 9S Rge. 33 East County Thomas

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	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	2700'	(+486)
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Base/Anhy.	2728'	(+458)
List All E.Logs Run:		Heebner	4079'	(-893)
R A Guard Log		Lansing	4120'	(-934)
		Muncie Creek	4255'	(-1069)
		Stark	4336'	(-1150)
		Base/LKC	4396'	(-1210)
		Pawnee	4523'	(-1337)
		Cherokee	4611'	(-1425)
		Johnson Zone	4654'	(-1468)
		Mississippi	4732'	(-1546)
			4776'	(-1590)

* COPY OF SHIELDS DRILLERS LOG ATTACHED.
** (CONTINUED ON SIDE TWO, PAGE 2)

CASING RECORD <input checked="" type="checkbox"/> L.T.D. <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"	20#	368'	60-40 Pozmix	230	3% C.C., 2% 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

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval _____

OPERATOR John O. Farmer, Inc. LEASE NAME Lunsway SEC. 32 TWP. 9S RGE. 33W

FILL IN WELL LOG AS REQUIRED:

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
<p>DST #1 4305-4337' (Lansing "J" zone) Tool open 30-30-60-60 Weak blow on both opens Rec: 25' watery mud (15% water, chl. 3,800) FP: 26-26, 28-28 SIP: 1090-(?) (2nd SIP invalid) HP: 2234-2191 BHT: 112° F</p>				
<p>DST #2 4328-4349' (Lansing "K" zone) Tool open 45-45-60-60 Fair blow increased to strong blow (both opens) Rec: 110' gas in pipe, 5' oil, 85' slightly oilcut watery mud (4% oil, 20% water) 480' muddy water w/speck oil (chlorides 26,000 ppm) FP: 41-128, 148-242 SIP: 1121-1112 HP: 2245-2232 BHT: 114° F</p>				
<p>DST #3 4359-4376' (Lansing "L" zone) Tool open 30-30-30-30 Very weak blow on both opens Rec: 5' slightly oilcut mud (6% oil) w/free oil on tool FP: 15-15, 15-15 SIP: 19-19 HP: 2259-2206 BHT: 114° F</p>				

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STATE CORPORATION COMMISSION

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CONSERVATION DIVISION
Wichita, Kansas



ORIGINAL Shields

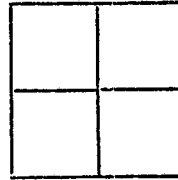
15-193-20577-00-00

Russell, Kansas

WELL LOG

Operator: John O. Farmer, Inc.
 Well: Lunsway #1
 Commenced: October 25, 1991
 Completed: November 4, 1991
 Contractor: Shields Drilling Co.

Well Description: NW NW SE
 Sec. 32-9S-33W
 Thomas Co., Kansas



CASING RECORD		
Size	Run	Pulled
8 5/8"	368'	Cmtd. w/230 sax

Elevation: 3,186' KB

Treatment:

Production: D & A

Tops:

..... Figures Indicate Bottom of Formations

Sand & Shale	2,140'	
Shale	2,698'	
Anhydrite	2,729'	
Shale	3,447'	
Shale & Lime	4,063'	
Lime	4,771'	RTD

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CONSERVATION DIVISION
 Wichita, Kansas

ORIGINAL

15-193-20577-00-00

DATE Nov. 5, 1991

OPERATOR: JOHN O. FARMER, INC. Lunsway #1
RUSSELL, KANSAS NW NW SE 32-9-33
Thomas County, Kansas

CONTRACTOR: Shields Drilling Co, Inc.
Shields Bldg. Main Street
Russell, KS 67665
Spud Date 10-25-1991
Set 368 ' 8 5/8 " casing, 230 sx. cement
Completed 10-26-91 at 1:55 a.m.
Plugged: 11-4-91

CREW: Rig # 2
Toolpusher Burt Beery
Drillers Larry McAadoo
Burt Beery
Steve Meyer

ELEVATION: Fall and Associates
511 N. Griffith
Oberlin, KS 67749

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CONSERVATION DIVISION
Wichita, Kansas

Ground Level 3181'
Kelly Bushing 3186'

All measurements shown are from Kelly Bushing.

SAMPLES: Ten foot intervals from 3700' to
4771', and foot intervals from
to R.T.D. All samples
were examined and described and sent to the Wichita
Sample Bureau, Wichita, Kansas.

DRILLING TIME: One foot intervals from 3700
4771 R.T.D.

FORMATION TOPS:

<u>FORMATION</u>	<u>LOG TOP</u>	<u>SAMPLE TOP</u>	<u>STRUCTURAL RELATION TO 1st ENERGY</u>
Anhydrite	2700 (+486)	2697 (+489)	-7
Base Anhy.	2728 (+458)	2729 (+457)	-3
Tarkio	3734 (-548)		-4
Howard	3798 (-612)		-2
Heebner	4079 (-893)	4073 (-887)	-3
Toronto	4102 (-916)	4099 (-913)	-3
Lansing	4120 (-934)	4166 (-930)	-2
Muncie Creek	4255 (-1069)	4252 (-1066)	-5
Stark Shale	4336 (-1150)	4334 (-1148)	-4
Base KC	4396 (-1210)	4392 (-1206)	-2
Pawnee	4523 (-1337)	4520 (-1334)	-1
Cherokee	4611 (-1425)	4602 (-1416)	-4
Johnson Zone	4654 (-1468)	4646 (-1460)	-4
Mississippi	4732 (-1546)	4730 (-1544)	Flat
TD	4776 (-1590)	4771 (-1585)	

* Structural relation compared to Log Top, sample tops need to be adjusted down 5' to correlate with E-Log tops.

SAMPLE DESCRIPTION:

Howard 3800-10' Limestone, white to gray, fine grained wackestone, dense, trace of scattered dead oil stain, no free oil, no odor, no porosity.

Lansing H 4267-75 Limestone, light tan to white, fine to medium grained wackestone, fossils rounded (ool.), poor intergranular porosity, trace of scattered light brown stain, no show free oil, very faint odor.

Lansing I 4302-4311 Limestone, white to gray, fine to medium grained packstone, with rounded fossil grains, trace poor moldic and vuggy porosity, mostly tight, trace of light brown staining, mostly dark dead oil stain. No free oil, no odor. DST#1 - (see below.)

Lansing J 4322-4333' Limestone, white to cream color, fine to medium grained mudstone, tight, 3 to 5% sample with good vuggy and pinpoint porosity, all with stain, good show of free oil in porosity, fair to good odor, rest of sample tight, no shows.

DST #1 4305'-4337'
 30"-30"-60"-60"
 Weak blow on both opens
 Recovered:
 25' watery mud (15% water, 85% mud)
 Flow pressure: 26-26#, 28-28#
 Shut-in pressure: 1090-30# (2nd open f led)
 Hydrostatic pressure: 2234-2191#
 Bottom hole temperature-112°F
 Well chlorides-2,000 ppm
 Recovery chlorides-3,800 ppm

Lansing K
4344-4361'

Limestone, white to light tan, medium to coarse grained packstone, fair to good vuggy and intergranular porosity. Around 5-10% of sample with a good show of free oil, good saturation, good odor.

DST #2 4328'-4349'

45"-45"-60"-60"

1st open-fair to strong blow

2nd open-fair blow

Recovered:

110' gas in pipe

5' Cl. O.

85' SOCWM (4% O, 20% W, 76% M)

180' MW, with O. Spks, (38% M, 67% W)

300' MW, with O. Spks. (5% M, 95% W)

FP: 41-128#, 148-242#

SIP: 1121-1112#

HP: 2245-2232#

BHT: 114°F

Well chlorides: 2,000 ppm

Recovery chlorides: 26,000 ppm

Lansing L
4371-4378'

Limestone, white to light tan, finegrained mudstone, dense, 6 to 8 pieces in tray with fair vuggy porosity with a good show of free oil, stain dark, faint odor. All porosity with show. Rest of sample mostly tight, no show.

DST #3 4359'-4376'

30"-30"-30"-30"

1st open-weak blow (1/2"-1 1/2")

2nd open-v. weak blow (1/4")

Recovered:

5' OCM (6% O, 94% M)

(Good layer clean oil on top of test tool)

FP: 15-15# 15-15#

SIP: 19-19#

HP: 2259-2206#

BHT: 114°F

Well chlorides: 3,000 ppm

Recovery chlorides: 3,000 ppm

Johnson Zone
4646-4652'

Limestone, white, finegrained mudstone, poor intergranular porosity, 3-5% of sample with fair pinpoint and vuggy porosity with good black (very dark black) stain. Around 5% of sample with stain and poor to no porosity. 30% of samples with stain contain free oil (thick black droplets). Fair to poor fluorescence, and cut. All porosity with some stain, trace of free oil droplets on water surface, faint odor.

4656-4665'

Limestone. As above, slightly less sample with show and less porosity, fair odor.

4668-4675'

Limestone, white to light gray, mostly finegrained, a trace of medium grained packstone, poor intergranular and pinpoint porosity, 10% of sample with good stain (dark black thick oil), around 30% of samples with show contain dark black free oil, more live free oil (light brown oil droplets) towards base of this section, poor odor.

ORIGINAL

15-193-20577-00-00

Johnson Zone Limestone, as above, less show.
4680-4686'

* Note: these depths taken from sample log, need to adjust down 5' to correlate with E-Log.

PLUGGING ORDERS:

Plug #1 @ 2700' w/25 sks. cement
Plug #2 @ 1885' w/100 sks. cement
Plug #3 @ 420' w/40 sks. cement
Plug #4 @ 40' w/10 sks. cement
15 sks. cement in rathole
10 sks. cement in mousehole

200 sks. total - 60/40 Pozmix, 6% gel,
1/4 lb. flowseal

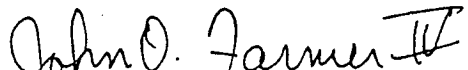
Completed @ 9:00 P.M., 11-4-91

REMARKS & RECOMMENDATIONS:

Due to the lack of shows, and shows tested via drill stem tests, which gave up saltwater or were tight, the John O. Farmer, Inc., Lunsway #1 was plugged and abandoned on 11-4-91. The Lansing J, K, & L zones exhibited shows in samples and were further evaluated by drill stem tests, which all turned up negative results. The Johnson Zone also has shows in samples, but was extremely tight in evaluating the R. A Guard Log run by Great Guns. The Lansing H and I, Tarkio, and Howard Zones were all condemned by very poor to no shows in samples and also appeared tight on the log.

Structurally, the test hole could have produced commercial amounts of hydrocarbons from several zones, but lack of porosity and shows kept these zones from producing. It was of the opinion of this geologist, that this test hole be plugged and abandoned.

Respectfully submitted,


John O. Farmer IV, Geologist

HALLIBURTON SERVICES
JOB LOG

WELL NO. 1 LEASE Lunsway TICKET NO. 194918
 CUSTOMER John O. Farmer PAGE NO. 1
 JOB TYPE Plug To Abandon DATE 11-4-91

FORM 2013 R-2

ORIGINAL

15-193-20577-0000

CHART NO.	TIME	RATE (BPM)	VOLUME (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	11:00							Called out
	14:00							On loc. Set up trucks
	15:15							Rig hanging down D.P.
	16:15	4	5					Run in Plugging stands to 2700'
		4	7.3					Pump 5 ^{33'} 1120 spacer
			3					25 sks 60/40 puz 6% Gel, 1/4" Floreole / sk
			34.75					Pump 3 ^{33'} 1120 spacer
	16:30							34.75 ^{33'} Mud to Balance
	17:45		5					Plug down pull D.P. to 1585'
			21.2					5 ^{33'} 1120
			3					100 sks Cmt
			17.5					3 ^{33'} 1120
	17:25							17.5 ^{33'} Mud
	18:25		5					Pull D.P. to 420'
			11.6					5 ^{33'} 1120
			3					40 sks Cmt
	19:40							3 ^{33'} 1120
	20:00							Pull D.P. out of hole
	20:05		2.9					push top Plug down 40' solid Bridge
			4.3					Pump 10 sks to 40' to surface
			2.9					15 sks in last hole
	20:15							10 sks in Mouse hole
	21:00							wash & pack up truck
								Job Complete
								Thank You Ray & Ken
								NOV 22 1991
								R. Lagler 80119 } 51145 PT
								R. Carter 80587 } 1367 BT
								J. Moore 84685 } 1367 BT

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ATTACH TO INVOICE & TICKET NO.

194918

DISTRICT Ways, R.

DATE 11-4-91

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: John O. Farmer (CUSTOMER)

AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1 LEASE Linsburg SEC. 32 TWP. 9S RANGE 33W

FIELD _____ COUNTY Thomas STATE R. OWNED BY Same

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
PACKER: TYPE _____ SET AT _____
TOTAL DEPTH _____ MUD WEIGHT _____
BORE HOLE _____
INITIAL PROD: OIL _____ BPD, H2O _____ BPD, GAS _____ MCF
PRESENT PROD: OIL _____ BPD, H2O _____ BPD, GAS _____ MCF
PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

Table with 7 columns: NEW USED, WEIGHT, SIZE, FROM, TO, MAX. ALLOW. P.S.I., SHOTS/FT. Rows include CASING, LINER, TUBING, OPEN HOLE, PERFORATIONS.

TREATMENT INSTRUCTIONS: TREAT THRU TUBING [] ANNULUS [] CASING [] TUBING/ANNULUS [] HYDRAULIC HORSEPOWER ORDERED
Plug to Abandon with 200 R. 60/40, 6% Gd, W Fluoide 25 SK @ 2,700'
100 SK @ 1,885'
10 R. 1/2 Mouse hole 40 SK @ 420'
15 SK in R. Fluoide 10 SK @ 40' well top A

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 invoices are payable NET by the 20th of the following month after date of invoice.
b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage.
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 (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.
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, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton.
d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE.
e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton.
f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
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.

NOV 22 1991

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED John O. Farmer CUSTOMER

DATE _____ TIME _____ A.M. P.M.

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

CUSTOMER

WELL DATA
18-193-20577-00-09

FIELD _____ SEC. 32 TWP. 9^s RNG. 33^w COUNTY Thomas STATE Ky.

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
CASING						
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG <u>LA-II</u>	<u>8 5/8</u>	<u>1 HOWE</u>
HEAD		
PACKER		
OTHER		

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>11-4-91</u>	DATE <u>11-4-91</u>	DATE <u>11-4-91</u>	DATE _____
TIME <u>11:00</u>	TIME <u>14:00</u>	TIME _____	TIME _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>R. Leggett</u>	<u>CUMS</u>	<u>Ness City, Mo.</u>
<u>R. Carter</u>	<u>51145</u>	
<u>J. Moore</u>	<u>B-112</u>	<u>Obert, Mo.</u>
	<u>1567</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 Cum

DESCRIPTION OF JOB PTA

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X J. Steed Meyer

HALLIBURTON OPERATOR Roger B. Leggett COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT/SK	MIXED LBS/GAL
	<u>200</u>	<u>60-40 Poz</u>		<u>B</u>	<u>6% Cel, 1/4" Floxide/1SK</u>	<u>1.64</u>	<u>13.1</u>

PRESSURES IN PSI _____ SUMMARY _____ VOLUMES _____

CIRCULATING _____ DISPLACEMENT _____ PRESFLUSH: BBL-GAL _____ TYPE _____

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL _____ DISPL: BBL-GAL _____

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY: 58.4 GAL _____

ORDERED _____ AVAILABLE _____ USED _____ TOTAL VOLUME: BBL-GAL _____

TREATING _____ DISPL. _____ CEMENT LEFT IN PIPE _____ OVERALL _____

REMARKS See Chart + Job Log

NOV 22 1991 Thank Roger

FEET _____ REASON _____

CUSTOMER: John O. Farmer
LEASE: LINDSWAY
WELL NO.:
JOB TYPE: PTA in Aberdeen
DATE: 11-4-91



A Division of Halliburton Company

15-193-20577-10-00

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME Lunsbury		COUNTY Thomas	STATE Ks.	CITY/OFFSHORE LOCATION	DATE 11-4-91
CHARGE TO John O. Frazier		OWNER Same	TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>		NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS Box 352		CONTRACTOR Shields Drilling	LOCATION 1 Mass City, Mo.		CODE 25523
CITY, STATE, ZIP Russell, Mo. 67665		SHIPPED VIA Mo. City, Mo.	FREIGHT CHARGES <input type="checkbox"/> FWD <input type="checkbox"/> COLLECT		LOCATION 2 Oberlin, Mo.
WELL TYPE 01	WELL CATEGORY 01	WELL PERMIT NO.	DELIVERED TO Location		LOCATION 3
TYPE AND PURPOSE OF JOB 115		B-946698	ORDER NO.		REFERRAL LOCATION

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is issued, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
000-117		1		MILEAGE 51145	20	mil			260	52
090-910		1		Pump Service	2	hrs.				370
030-503		1		LH II Trip Plug	1	pc	5 1/2	in		90

THIS IS NOT AN INVOICE

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. **B-946698** 1,668⁷⁵

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

Steve May
CUSTOMER OR HIS AGENT (PLEASE PRINT)

CUSTOMER OR HIS AGENT (SIGNATURE)

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.

Roy D. Lytle
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL _____

CUSTOMER

SUB TOTAL _____
APPLICABLE TAXES WILL BE ADDED ON INVOICE.

JOB LOG

ORIGINAL

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1915							15493-20577-00-00
	2145							Called out - Ready @ 2230
	2320							On location - Set up.
	10-25-91 0030							Hole cut
	0040							Out of hole w/ bit. Change over to run Casing.
	0121							Start Casing - 9 Jts New 20#/ft 8 5/8" Casing.
	0126							Finish casing - Hook up Plug container
	0134	5						Rig circulate
	0135	5	5 wtr					Hook up to Howco
	0142	5	52 1/2 cmt					Start 5bbl spacer ahead
	0150	6						Finish spacer - start Cement
	0155	6	23 wtr					230 sks 60/40 Poz w/ 2% Gel + 3% CC
	0158							Finish cement - shut down
	0210							Release plug & start Disp
	0215							Finish Disp. Close in
								Wash up truck
								Rack up
								Job complete
								Circulated Cement to the cellar

RECEIVED STATE CORPORATION COMMISSION

NOV 22 1991

CUSTOMER

CONSERVATION DIVISION Wichita, Kansas

ORIGINAL
WORK ORDER CONTRACT
AND PRE-TREATMENT DATA

ATTACH TO INVOICE & TICKET NO. 163578

DISTRICT Hays KS 15-193-20577-00-00 DATE 10-25-91

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

WELL NO. 1 LEASE Lunsway SEC. 32 TWP. 9s RANGE 33w
FIELD S. Colby KS COUNTY Thomas STATE KS OWNED BY John O. Farmer

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
PACKER: TYPE _____ SET AT _____
TOTAL DEPTH 371 MUD WEIGHT _____
BORE HOLE 12 1/4
INITIAL PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF
PRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	N	20	8 5/8	KB	368	
LINER						
TUBING						
OPEN HOLE			12 1/4	KB	371	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____

Cement Surface Casing w/ 230 sks 60/40 Poz w/ 2% Gel + 3% CC as directed

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. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
- b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
 1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
 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 (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
- 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, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
- d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
- e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
- f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act to the extent permitted by law.
- 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.

NOV 22 1991

CONSERVATION DIVISION
Wichita, Kansas

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED Bertron Beery CUSTOMER
DATE 10-25-91
TIME 2300 A.M./P.M.

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

CUSTOMER

CUSTOMER John O. Farmer
CASE Lunsbury
WELL NO. 1
JOB TYPE Cmt. Surf. Csg. DATE 10-25-91

FIELD S. Colby KS SEC. 32 TWP. 9s RNG. 33w COUNTY Thomas STATE KS

WELL DATA K-193-20577-00-00

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 371

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>N</u>	<u>20</u>	<u>8 5/8</u>	<u>KB</u>	<u>368</u>	
LINER						
TUBING						
OPEN HOLE			<u>12 1/4</u>	<u>KB</u>	<u>371</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>10-25-91</u> TIME <u>1915</u>	DATE <u>10-25-91</u> TIME <u>2145</u>	DATE <u>10-26-91</u> TIME <u>0100</u>	DATE <u>10-26-91</u> TIME <u>0215</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG <u>LA-11 8 5/8 1EA</u>		<u>Howco</u>
HEAD		
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J. Moore</u>	<u>3577</u>	<u>Oberlin KS</u>
<u>E. Reynolds</u>	<u>4718 HT-400RLM</u>	<u>Oberlin KS</u>
<u>C.</u>	<u>4718 Bulk TK</u>	<u>Oberlin KS</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 Cmt

DESCRIPTION OF JOB Cmt. Surf. Csg. w/ 230 sks
60/40 Poz 4 2% Gel + 3% CC

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X Burton Beery

HALLIBURTON OPERATOR J. Moore COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>230</u>	<u>60/40 Poz</u>			<u>2% Gel 3% CC</u>	<u>1.28</u>	<u>14.31</u>

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 15 REASON Requested

SUMMARY

VOLUMES

PRESLUSH: BBL-GAL. 5 TYPE Fresh wtr

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

TREATMENT: BBL-GAL. _____ DISPL. BBL-GAL. 23

CEMENT SLURRY: BBL-GAL. 50 1/2

TOTAL VOLUME: BBL-GAL. 80 1/2

REMARKS See Job Log
Thank you

RECEIVED
STATE CORPORATION COMMISSION
NOV 22 1991

CONSERVATION DIVISION
Wichita, Kansas

