

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

Operator: License # 6039
Name: L. D. Drilling, Inc.
Address RR 1 Box 183 B
Great Bend, Kansas 67530
Purchaser: Koch Oil Company
Operator Contact Person: L. D. Davis
Phone (316) 793-3051
Contractor: Name: L. D. Drilling, Inc.
License: 6039
Wellsite Geologist: Kim Shoemaker
Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD SIOG Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

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

Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PSTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____
2-23-93 3-04-93 3-15-93
Spud Date Date Reached TD Completion Date

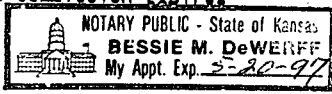
API NO. 15- 135-23739-6600
County Ness
C NW NE Sec. 33 Twp. 18 Rge. 21 E/W
4620 Feet from N (circle one) Line of Section
1980 Feet from E (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)
Lease Name THOMAS Well # 1
Field Name (Wildcat)
Producing Formation Missippian
Elevation: Ground 2113' KB 2118'
Total Depth 4198' PSTD _____
Amount of Surface Pipe Set and Cemented at 342' Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 1375' Feet
If Alternate II completion, cement circulated from 1375
feet depth to surface w/ 415 sx cnt.
Drilling Fluid Management Plan Alt 2 8-12-93
(Data must be collected from the Reserve Pit)
Chloride content _____ ppm Fluid volume _____ bbls
Dewatering method used _____
Location of fluid disposal if hauled offsite: _____
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 confidentially 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 L D Davis L. D. Davis
Title President Date 8-5-93
Subscribed and sworn to before me this 5th day of August
19 93
Notary Public Bessie M. DeWerff Bessie Mae DeWerff
Date Commission Expires 5-20-93

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received AUG 16 1993
C Geologist Report Received
Distribution 8-16-93
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)



Operator Name L. D. Drilling, Inc.

Lease Name THOMAS

Well # 1

Sec. 33 Twp. 18 Rge. 21

East
 West

County Ness

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.)

List All E.Logs Run:

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Anhy	1339-1370	
Heebner	3571	(-1453)
Lansing	3614	(-1496)
Base K/C	3932	(-1814)
Pawnee	4017	(-1899)
Ft. Scott	4089	(-1971)
Miss.	4190	(-2072)

Sidewall Neutron

CASING RECORD

New 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"	28	342'	50/50 poz	200	2% gel, 3%CC
Production	7 7/8"	5 1/2"	14	4193'	40/60 poz	150	10% salt, 5%CFR
						415	Halco Lite

ADDITIONAL CEMENTING/SQUEEZE RECORD

15 sx rat hole

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
4 per	Mississippi	4192 to 95		

TUBING RECORD Size 2 7/8" Set At 4196 Packer At _____ Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. 3-16-93 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	9.5		58%		

Disposition of Gas:

METHOD OF COMPLETION

Production Interval _____

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

Open Hole Perf. Dually Comp. Commingled
 Other (Specify) _____

Attachment to ACO-1

LEASE: Thomas #1
C NW NE
Sec. 33-18S-21W
Ness County, Kansas

OPERATOR: L. D. Drilling, Inc.
RR 1 Box 183 B
Great Bend, Kansas 67530

LOG TOPS

Anhy 1334 (- 784)
Heebner 3569 (-1451)
Lansing 3614 (-1496)
Base K/C 3930 (-1812)
Pawnee 4016 (-1898)
Ft. Scott 4088 (-1970)
Cherokee 4103 (-1985)
Miss. Osage 4189 (-2071)

DST # 4 4188-4198 Miss.

Times: 30-45-45-60
Blow: 1st open: bb in 8 min.
2nd open: bb in 15 min.
Recovery: 217' gip, 376' clean oil,
155' MCO, 62' hocm,
60' water 62' Muddy oil
IFP: 56-109 FFP: 156-244
ISIP: 1197 FSIP: 1178

DST #1 4091-4120 Ft. Scott & Cherokee

Times: 30-30
Blow: 1st open: 1/2" blow died in 20 min.
Recovery: 15' Drilling Mud, W/few oil spk.
in tool.
IFP: 34-22
ISIP: 45

DST #2 4102-4163 Cherokee Sand

Times: 30-45-45-60
Blow: 1st open: bb in 28 min.
2nd open: blt to 11"
Recovery: 92' OCMW 15% oil, 25% gas,
25% water, 45% mud
62' OCMW 20% oil, 20% gas,
25% water, 35% mud.
62' HOCMW 20% oil, 15% gas,
30% water, 25% mud.
62' HOCM 35% oil, 15% gas
20% water, 30% mud,
IFP: 123-156 FFP: 156-178
ISIP: 909 FSIP: 849

DST # 3 4189-4196 Miss.

Times: 30-30-45-60
Blow: 1st open: died in 27 min.
2nd open: 1-1 1/2 blow
Recovery : 20' HOCM, 30% oil, 15% gas,
18% water, 30% mud
TOOL PLUGGED OFF
IFP: FFP:
ISIP: FSIP: 1265

AUG 16 1993

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ORIGINAL

ATTACH TO INVOICE & TICKET NO. 311973

DISTRICT Hays, Ks.

DATE 7-27-93

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

WELL NO. #1 LEASE Thomas SEC 33 TWP. 18 RANGE 21

FIELD _____ COUNTY Moore STATE OK OWNED BY Seano

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____ FORMATION THICKNESS _____ FROM _____ TO _____ PACKER: TYPE _____ SET AT _____ TOTAL DEPTH 342' MUD WEIGHT _____ BORE HOLE 12 1/4" INITIAL PROD: OIL _____ BPD, H2O _____ BPD, GAS _____ MCF PRESENT PROD: OIL _____ BPD, H2O _____ BPD, GAS _____ MCF

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

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____ cement casing to G.L. with 200 spc 50/50 Pw, 2 1/2 gal, 3 1/2 cc.

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...
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, 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.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT. AUG 16 1993

SIGNED _____ CUSTOMER

DATE 7-23-93

TIME 0300 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



JOB SUMMARY

DIVISION 6112
HALLIBURTON LOCATION Nass City, Mo6112 Mo**ORIGINAL**DATE ON TICKET NO. 3/1/92**WELL DATA**

FIELD _____ SEC. 33 TWP. 18S RNG. 21W COUNTY Nass STATE Mo

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 312

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>U</u>	<u>NA</u>	<u>8 5/8</u>	<u>RB</u>	<u>312</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>2-23</u>	DATE <u>2-23</u>	DATE <u>2-23</u>	DATE <u>2-23</u>
TIME <u>0120</u>	TIME <u>0250</u>	TIME <u>0110</u>	TIME <u>0630</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>D. Lemmon</u>	<u>3550</u>	
<u>P. Crosswhite</u>	<u>4000</u>	<u>Nass City, Mo</u>
<u>D. Debratz</u>	<u>4100</u>	<u>Nass City, Mo</u>
	<u>B-TK</u>	<u>Nass City, Mo</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API

DISPL. FLUID _____ DENSITY _____ LB/GAL. API

PROP. TYPE _____ SIZE _____ LB.

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. _____ IN.

PERFPAC BALLS TYPE _____ QTY. _____

DEPARTMENT Cement

DESCRIPTION OF JOB Cement surface casing to ground level as directed

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X Kaye Clark

HALLIBURTON OPERATOR Ken Lamm COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>21</u>	<u>80/100 Poz A</u>	<u>A</u>	<u>B</u>	<u>2% gel 3% c.c.</u>	<u>1.26</u>	<u>14.15</u>

PRESSURES IN PSI**SUMMARY****VOLUMES**

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL.-GAL. _____ TYPE _____

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

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL. BBL.-GAL. 20%

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY: BBL.-GAL. 0 75

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

REMARKS _____

FEET 210 REASON Requested

AUG 16 1993

CUSTOMER L.D. Dallas

LEASE Thames

WELL NO. 1

JOB TYPE Surface Casing

DATE 2-23-93

ORIGINAL

WELL NO. 1 LEASE Thomas TICKET NO. 311923
CUSTOMER L.D. Drilling Co. PAGE NO. 1
JOB TYPE Cement Surface DATE 2-23-93

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0250							On location - Rig drt, to 312'
								Set up P.T.
	0310							Fin drt. - Cir hole
								Fin cir - Pull D.P.
	0410							Start 8 7/8" casing
	0530							Fin running casing to 312'
								Hook up to cir.
	0540							Rig cir casing
	0550							Fin cir - Hook up to Howso
	0551	5						Start 200 SPS 50/50 Pz, 2% sol, 3% C.C.
	0559		45					Fin cont.
								Release Jump Top Plug
	0600	5						Start Displ.
	0604		20 1/2					Fin Displ. - 15 BBL cont circulate
								Close in at Head - (Bad Valve)
	0615							Release press - Bc - Plug Unaided.
	0630							Job Complete
								Thank You D. Lowman 71718
								B. Crosswhite 87513
								D. Debratz B6022
								# 3580-P
								# 11604-P

AUG 16 1993

FORM 1906 R-11

WELL NO.—FARM OR LEASE NAME <i>1 Thomas</i>		COUNTY <i>Ness</i>	STATE <i>KS</i>	CITY / OFFSHORE LOCATION	DATE <i>2-23-93</i>
CHARGE TO <i>L.D. Drilling Co</i>		OWNER <i>Same</i>	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		CONTRACTOR <i>C. Tool</i>	1 LOCATION <i>New City, Ks</i>	CODE <i>20003</i>	
CITY, STATE, ZIP		SHIPPED VIA <i>4104</i>	FREIGHT CHARGES PPD <input type="checkbox"/> COLLECT <input type="checkbox"/>	2 LOCATION <i>Home</i>	CODE <i>20025</i>
WELL TYPE <i>D1</i>	WELL CATEGORY <i>D3</i>	WELL PERMIT NO.	DELIVERED TO <i>E/Pacine, Ks</i>	3 LOCATION	CODE
TYPE AND PURPOSE OF JOB <i>DID</i>		B-132651	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 lists. 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 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 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 or 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		
D00-117		1		MILEAGE 3580	12	MI			2.75	33.00
D01-016		1		Pump Charge	8	HR	342	A		555.00
D30-503		1		2 cup Top Plug	1	PC	2	PC		95.00

THIS IS NOT AN INVOICE

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

2 B- 132651

153263

WAS JOB SATISFACTORILY COMPLETED? _____
 WAS OPERATION OF EQUIPMENT SATISFACTORY? _____
 WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____
 Rayton
 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.

Ken Korman
 HALLIBURTON OPERATOR

HALLIBURTON APPROVAL

SUB TOTAL **AUG 16 1993**
 APPLICABLE TAXES WILL BE ADDED ON INVOICE.

CUSTOMER



BULK MATERIALS DELIVERY

AND

TICKET CONTINUATION ORIGINAL

FOR INVOICE AND TICKET NO. 311923

DATE 2-23-93	CUSTOMER ORDER NO.	WELL NO. AND FARM Thomas #1	COUNTY Ness	STATE Kansas
CHARGE TO L. D. Drilling Co.		OWNER Same	CONTRACTOR Co. Tools	No. B 132651
MAILING ADDRESS		DELIVERED FROM Hays, Ks	LOCATION CODE 25525	PREPARED BY Kuhn
CITY & STATE		DELIVERED TO S Bazine, Ks	TRUCK NO. 4604	RECEIVED BY <i>[Signature]</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE L D	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
				QTY.	MEAS.	QTY.	MEAS.			
			180Cu. Ft. Pozmix Cement 2%Gel							
504-308	516.00261	2B	Standard Cement	90				6.76	608	40
506-105	516.00286	2B	Pozmix 'A'	6120	1b			.054	330	48
506-121	516.00259	2B	3kk Halliburton Gel @2%							n/c
509-406	890.50812	2B	Calcium Chlorid eBlended	4				28.25	113	00
			20Cu. FT. PoXmix Cement 2%Gel							
504-308	516.00261	2B	Standard Cement	10				6.76	67	60
506-105	516.00286	2B	Pozmix 'A'	680	1b			.054	36	72
506-121	516.00259	2B	1sk Halliburton Gel@2%							n/c
509-406	890.50812	2B	Calcium Chloride Blended					28.25	28	25
			Returned Mileage Charge							
			TOTAL WEIGHT		LOADED MILES		TON MILES			
			SERVICE CHARGE ON MATERIALS RETURNED				CU. FEET			
500-207		2B	SERVICE CHARGE				188 210 CU. FEET	1.25	262	50
500-306		2B	Mileage Charge	16.800	12		100 800 TON MILES	.85	85	68
No. B 132651										
CARRY FORWARD TO INVOICE								SUB-TOTAL	AUG 1 1993 10:59 AM 63 XXXXXX	

CUSTOMER

JOB LOG

WELL NO. 4-1 LEASE Therms 5 TICKET NO. 324656
 CUSTOMER L.O. Drilg Inc. PAGE NO. 1
 JOB TYPE Logging DATE 3-4-93

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	14 00							On Location ORIGINAL
	15 30							Run Float Equipment
	17 00							Casing on Bottom
	17 20							Break Circulation (Log Pump)
	17 45							Drop Setting Ball
	17 50		0			150		Start Salt Flush
	18 03		8			1350		Set Packer shoe
	18 14	4	20			400		Start Mixing
	18 13	4	53.5			500		Finish Mixing
	18 15							Wash out Lines / Div Plug
	18 16	8	0			500		Start Displacement Water
	18 28	8	69			600		Start Displacement Mud
	18 32	4	100					Decrease Rate
	18 33		102.6			1100		Land Plug
	18 37					1500		PSI UP ON PLUG
								Release (hold)
	18 49							Drop (Opening Bomb)
						1325		Open MS Cementer
	18 50							Circulate Hole 2hrs
	20 10							Hook up to well
	20 22	6	0			300		Start Mixing 2nd Stage
	20 35	6	33.5			300		Cement on Bottom
	20 46	6	121.9			300		Finish Mixing
	20 49							Wash out Lines / Release Plug
	20 54	6						Start Displacement
	20 58	3						Reduce Rate
	21 01	2				900		Land Plug hold TR
	21 07							Release PSI OK
	21 08							Plug hold (Some cut to surface)
	21 20							Plug Rethread (issues)
	21 45							Wash out
								Job Complete
								Thanks
								6/19/93

DISTRICT GREAT Bend KS DATE 3-4-93

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

WELL NO. 1 LEASE Thomas SEC. 33 TWP. 18S RANGE 21W
FIELD _____ COUNTY Ness STATE KS OWNED BY Sgmc

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 _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING		14#	5 1/2'	KB	4193'	
LINER						
TUBING						
OPEN HOLE			7 7/8"	4193	4198'	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____
Set 2 stage longstring with formation packer shoe and MS Cement
1st stage 450 SKS 40/60 Por 10% Salt 59 CFR-3, 2nd stage
415 SKS Heavy Light

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 mining 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; shall 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.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND I HEREBY CERTIFY THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT. **AUG 16 1993**

SIGNED LD Drilg INC CUSTOMER

DATE 3-4-93

TIME 14:00 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

FORM 1906 R-11

WELL NO.-FARM OR LEASE NAME #1 Thomas		COUNTY McCurtain	STATE KS	CITY / OFFSHORE LOCATION	DATE 3-4-93
CHARGE TO L.D. DAVIS Inc.		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		CONTRACTOR Co Tools	LOCATION 1st Band		CODE 25320
CITY, STATE, ZIP		SHIPPED VIA 51797	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT		LOCATION 2
WELL TYPE	WELL CATEGORY	WELL PERMIT NO.	DELIVERED TO Location	LOCATION 3	CODE
TYPE AND PURPOSE OF JOB Lease		B-132657	ORDER NO.	REFERRAL LOCATION	

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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 remedies 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			
				MILEAGE	12 mi				2.75	33	00
007-013	01-016	1		Pump Charge 1st stage	3 hrs		4113 FT			1410	00
80	355-137	1		Formation Packer shoe	1 hr		5 1/2 hrs			2504	00
82	355-02543	1		Art. Fill up	1 hr		5 1/2 hrs			40	00
	812-01695	1		SP. 1-1/2" PLG. Plug	1 hr		5 1/2 hrs			465	00
71	81380300	1		Multistage Cement	1 hr		5 1/2 hrs			2450	00
40	80793022	1		Control 200's	5 hrs		5 1/2 hrs		4400	220	00
320	400-2883	1		Baskets	2 hrs		5 1/2 hrs		1100	220	00
507-468		1		S.L.F. (P.C.F.)	400	460			17	57	00
007-161		1		PLUG	3 hrs		4 FT			1080	00
045-051		1								N/C	
75	312-16510	1		PLUG			5 1/2 hrs			460	00

THIS IS NOT AN INVOICE

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B- 132657

4860 16

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

X L.D. DAVIS
CUSTOMER OR HIS AGENT (PLEASE PRINT)

X [Signature]
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.

[Signature]
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL

AUG 16 1993

SUB TOTAL

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

CUSTOMER

JOB SUMMARY

DIVISION CRISTO
HALLIBURTON LOCATION CRISTO

CRISTO

BILLED ON TICKET NO. 321456

ORIGINAL

FIELD _____ SEC 33 TWP 18S RNG 21W COUNTY MISS 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		17	52	KB	4193'	
LINER						
TUBING						
OPEN HOLE			7 7/8	1193	4193'	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS <u>S-4</u>	<u>5</u>	<u>Hercos</u>
BOTTOM PLUG		
TOP PLUG <u>1/2" 1/2" 1/2"</u>	<u>1</u>	<u>Hercos</u>
HEAD		
PACKER <u>Packer shoe ch.</u>	<u>1</u>	
OTHER <u>MS Cement</u>	<u>1</u>	

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>3-1-93</u>	DATE <u>3-4-93</u>	DATE <u>3-4-93</u>	DATE <u>3-4-93</u>
TIME <u>12:00</u>	TIME <u>14:00</u>	TIME <u>7:00</u>	TIME <u>27:30</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>G. Byrd</u>	<u>8526</u>	<u>5177</u>
<u>C. Brown</u>	<u>8254</u>	<u>6000</u>
	<u>818</u>	
<u>A. Worth</u>	<u>401K</u>	<u>Hayes</u>
<u>D. Roberts</u>	<u>4604</u>	<u>Hayes</u>
	<u>401K</u>	

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB./GAL./API

DISPL. FLUID _____ DENSITY _____ LB./GAL./API

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL. _____ %

SURFACTANT 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.

PLUGGING AGENT TYPE _____ GAL.-LB. _____

PERFPAC BALLS TYPE _____ QTY. _____

DEPARTMENT CRISTO

DESCRIPTION OF JOB sh 2 stage lumpy string

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X Z. D. ...

HALLIBURTON OPERATOR Allen Beverly COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>150</u>	<u>Poz</u>	<u>4040 B</u>	<u>107</u>	<u>Salt 5% CR-3</u>	<u>1.33</u>	<u>14.3</u>
<u>2</u>	<u>415</u>	<u>4040 light</u>	<u>B</u>	<u>1/2 PFL</u>		<u>1.67</u>	<u>12.5</u>

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM 1500

AVERAGE _____ FRACTURE GRADIENT _____

CUT-IN INSTANT _____ 5-MIN. _____ 15-MIN. _____

HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

REATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

SUMMARY

PRELUSH: BBL-GAL. 30 TYPE Salt

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

TREATMENT: BBL-GAL. _____ DISPL: BBL-GAL. 1244

CEMENT SLURRY: BBL-GAL. 335 1244

TOTAL VOLUME: BBL-GAL. _____

REMARKS

Packer shoe set 1250

MS Cement 4040 1375

MS Cement 4040 1375

13-13
2-86
10, 49

AUG 16 1993