

ORIGINAL

SIDE ONE

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

Operator: License # 6039
Name: L. D. Drilling, Inc.
Address RR 1 Box 183 B
City/State/Zip Great Bend, Kansas 67530

Purchaser: _____

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 ☐ Temp. Abd. ☐ Inj ☐ Delayed Comp.
☐ Gas ☐ Other (Core, Water Supply, etc.)
☐ Dry

If OWD: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

☒ Mud Rotary ☐ Air Rotary ☐ Cable

7-12-91 7-18-91 8-13-91

Spud Date Date Reached TD Completion Date

API NO. 15- 009-24,475 · 0000

County Barton

E/2 NW SE Sec. 12 Twp. 20 Rge. 12 ☒ East West

1980 Ft. North from Southeast Corner of Section

1650 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

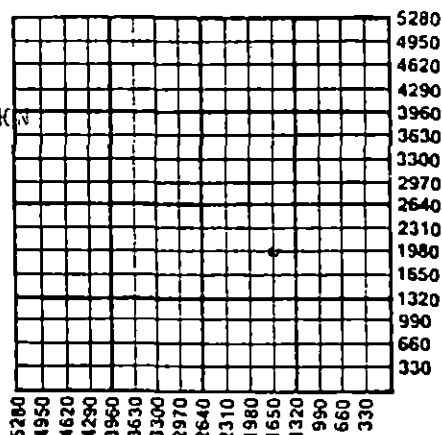
Lease Name Schartz Well # 4 (SWDW)

Field Name Chase-Silica

Producing Formation _____

Elevation: Ground 1786 KB 1791

Total Depth 3750' PBDT _____



Amount of Surface Pipe Set and Cemented at 325' Feet

Multiple Stage Cementing Collar Used? ☐ Yes ☒ No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ 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.

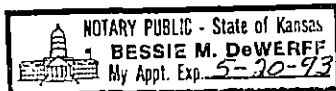
Signature L. D. Davis L. D. Davis

Title President Date 8-14-91

Subscribed and sworn to before me this 14 day of August, 19 91.

Notary Public Bessie M. DeWerff

Date Commission Expires 5-20-93



K.C.C. OFFICE USE ONLY

F ☐ Letter of Confidentiality Attached
C ☐ Wireline Log Received
C ☒ Drillers Time Log Received

Distribution 8-21-91
☒ KCC ☒ SWD/Rep ☐ NGPA
☐ KGS ☐ Plug ☐ Other (Specify)

Form ACO-1 (7-89)

SIDE TWO

Operator Name L. D. Drilling, Inc.Lease Name SchartzWell # 4 SWDW☐ EastCounty BartonSec. 12 Twp. 20 Rge. 12☒ 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.)☒ Yes ☐ No

Samples Sent to Geological Survey

☒ Yes ☐ No

Cores Taken

☐ Yes ☒ NoElectric Log Run
(Submit Copy.)☐ Yes ☒ No

More DST on next page

DST #1 3317-3341

TIMES: 45-45-45-45

BLOW: 1ST OPEN: 4½" blow

2ND OPEN: 1" blow

REC: 150' gip, 20' free oil, 10' muddy oil

IFP: 52-56

FFP: 68-70

ISIP: 470

FSIP: 330

Formation Description

☐ Log ☒ Sample

Name	Top	Bottom
Heeb	2955	(-1164)
Toronto	2975	(-1184)
Douglas	2988	(-1197)
Brn. LM	3079	(-1288)
L.K/C	3098	(-1307)
Base K/C	3310	(-1519)
Arbuckle	3335	(-1544)

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	12½	8 5/8"	28	325'	60/40 poz	190	2% gel, 3% cc
Production	7 7/8"	5½	14	3413'	65/30 poz	100	6% gel,
					40/60 poz	75	18% salt, 75%
							CFR3 5# gil.

PERFORATION RECORD

Shots Per Foot Specify Footage of Each Interval Perforated

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

1000 gal. 28% 1500 Gal 15%

TUBING RECORD

Size

Set At

Packer At

Liner Run

☐ Yes ☐ No

Star Fiberglass

2 7/8"

3412'

Date of First Production

Producing Method

☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)Estimated Production
Per 24 Hours

Oil

Bbls.

Gas

Mcf

Water

Bbls.

Gas-Oil Ratio

Gravity

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) _____

con't Drill Stem Test information

LEASE NAME: Schartz #4
Sec 12-20S-12W
Barton Co.

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

DST #2: 3318-3347
TIMES: 45-45-45-45
BLOW: 1ST OPEN: 3" blow
2ND OPEN: 2" blow
REC: 20' free oil, 20' muddy oil
IFP: 52-52 FFP: 62-64
ISIP: 138 FSIP: 112

DST # 3: 3345-3359
TIMES: 20-20-20-20
BLOW: 1st blow: weak $\frac{1}{2}$ "
2nd blow: no blow
REC: 6' ocm
IFP: 50-52 FFP: 54-54
ISIP: 627 FSIP: 456

RECEIVED
STATE CORPORATION COMMISSION

AUG 20 1991

CONSERVATION DIVISION
Wichita, Kansas

Lawrence, Oklahoma 73506

 A Division of Halliburton Company

ORIGINAL NO. 126448-3

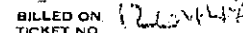
Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any action 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 or supplies or the 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 or consequential damages in whatever form or amount.

[illegible]

B-97349

CUSTOMER

APPLICABLE TAXES WILL
BE ADDED ON INVOICE.



JOB DATA

MATERIALS

PERSONNEL AND SERVICE UNITS

HALLIBURTON OPERATOR	John R. W.	COPIES REQUESTED	
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PRESSURES IN PSI

SUMMARY

VOLUMES

REMARKS

CUSTOMER

FORM 2013 R-2

WELL NO. 4-20-1 LEASE 2004272

TICKET NO. 12644-8

CUSTOMER Wm. D. Dr. H. H. H. H.

PAGE NO. _____

JOB TYPE Substantive

DATE 11-12-47

[illegible]

CUSTOMER

WORK ORDER CONTRACT
AND PRE-TREATMENT DATA

ORIGINAL

FORM 1908 R-7

A Division of Halliburton Company

ATTACH TO
INVOICE & TICKET NO. 1264-16DISTRICT FranklinDATE 7-12-91

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

WELL NO. LI LEASE Schaefer SEC. 12 TWP. 20S RANGE 12W

FIELD Barrow COUNTY Barrow STATE AK OWNED BY

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	<u>4</u>		<u>8 7/8</u>	<u>0</u>	<u>325</u>	
LINER						
TUBING						
OPEN HOLE			<u>17 1/2</u>	<u>0</u>	<u>325</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

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

AUG 20 1991

Conservation Division
Wichita, Kansas

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

- 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, 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.
- 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:
 - 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 "well owner" shall include working and royalty interest owners.
 - Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 - 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 obligation 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.
- 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's 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 for any damages arising from the use of such information.
- 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 obligation, shall be 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, punitive or consequential damages.
- 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 routine 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 or the landing and returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
- To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- 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 M. A. Smith

CUSTOMER

DATE _____

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.

TIME _____ A.M. P.M.

CUSTOMER

APPLICABLE TAXES WILL
BE ADDED ON INVOICE.

JOB LOG

15.009.24475.0000

FORM 2013 R-2

WELL NO. 4 LEASE S. HARTZ

TICKET NO. 171128

CUSTOMER L.D. DRILLING

PAGE NO. 1

JOB TYPE 5 1/2 CONCRETE

DATE 7-18-91

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1200							CHILLO OUT ORIGINAL
	1445							ON LOCATION
								RIG PAVING DOWN DRILL PIPE
								SET UP TRUCK
								BREK CIRCULATION
		1/4	0					START SALT FLUSH
		5	20					SET THICKER SALT
		5	3					FINISH SALT FLUSH
		5	0					PUMP H ₂ O SPACER
		5	0					START MIX CEMENT
		5	49					FINISH MIX CEMENT
								PLUG RHT HOLE
								WASH OUT LINES
								RELEASE PLUG
		8	0					START DISPLACEMENT
			80.9					PLUG DOWN
								RELEASE - HEAD
								WASH UP
								BACK UP
								JOB COMPLETE
								THANK YOU
								J. BENNETT
								R. BORDEN
								J. SHEETS

RECEIVED
STATE CORPORATION COMMISSION

AUG 20 1991

CUSTOMER



WORK ORDER CONTRACT AND PRE-TREATMENT DATA

15.009.24475.0000

ORIGINAL

ATTACH TO
INVOICE & TICKET NO. 171128

FORM 1908 R-7

A Division of Halliburton Company

DISTRICT Great Bend, Ks.

DATE 7-18-91

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

THE SAME AS AN INDEPENDENT CONTRACTOR TO: L D Drlg (CUSTOMER)
AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. #4 LEASE Schertz SEC. 12 TWP. 20S RANGE 12W

FIELD _____ COUNTY Barton STATE Ks. OWNED BY Some

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
FORMATION THICKNESS	FROM TO	CASING	N	15.5	5 1/2	KB 3412	
PACKER: TYPE	SET AT	LINER					
TOTAL DEPTH	MUD WEIGHT	TUBING					
BORE HOLE		OPEN HOLE		7 1/8	3412	3750	SHOTS/FT.
INITIAL PROD: OIL BPD, H ₂ O BPD, GAS MCF		PERFORATIONS					
PRESENT PROD: OIL BPD, H ₂ O BPD, GAS MCF		PERFORATIONS					
		PERFORATIONS					

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

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

Set 5 1/2" at 3412' w/ 100 SKS (65-35) Pozmix 6% gel
75 SKS (40-60) Pozmix 18% salt, 25% CFP-3, 5% g-lubric
400' salt for 20 bbl salt/lub

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

- To pay Halliburton in accordance 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.
- 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:
 - 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.
 - Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 - 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.
- 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.
- 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.
- 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.
- To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- 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 [Signature] CUSTOMER

DATE 7-18-91

TIME 1515 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

BULK MATERIALS DELIVERY AND TICKET CONTINUATION

ORIGINAL
FOR INVOICE AND
TICKET NO. 171125

15.009.24475.0000

DATE 7-18-91	CUSTOMER ORDER NO.	WELL NO. AND FARM Schattz 4	COUNTY Barton	STATE Ks.
CHARGE TO L.D. Drilling		OWNER Same	CONTRACTOR Co. Tools	No. B 978062
MAILING ADDRESS		DELIVERED FROM Great Bend, Ks.	LOCATION CODE 25520	PREPARED BY JLM. Sheets
CITY & STATE		DELIVERED TO Location	TRUCK NO. 3046-6608	RECEIVED BY <i>Jimmy Bennett</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT		
		L	D		QTY.	MEAS.	QTY.	MEAS.				
					100 65% Cement 35% Pozmix 6% Gel							
504-308	516.00261	1	b	Standard Cement	65	sk			5.35	347.75		
506-105	516.00286	1	b	Pozmix A	35	sk			2.79	97.65		
506-121	516.00259	1	b	2 Halliburton Gel 2% allowed							NC	
507-207	516.00259	1	b	3 Halliburton Gel 4% added	3	sk			14.75	44.25		
				75 40% pozmix 60% Cement 2% Gel								
504-308	516.00261	1	b	Standard Cement	45	sk			5.35	240.75		
506-105	516.00286	1	b	pozmix A	30	sk			2.79	83.70		
506-121	516.00259	1	b	1 Halliburton Gel 2% allowed							NC	
509-968	516.00315	1	b	Salt Blended 18% W/75	700	lb.			.10	70.00		
509-968	516.00158	1	b	Salt not mixed	400	lb.			.10	40.00		
508-292	70.15573	1	b	Gilsonite Blended .75% W/75	400	lb.			.47	188.00		
507-153	516.00161	1	b	WFR-3 Blended .75% W/75	49	lb.			4.10	200.90		



JOB SUMMARY

HALLIBURTON
DIVISION
HALLIBURTON
LOCATION

WELL DATA
12 205 12W
COUNTY
BARTON

ORIGINAL
BILLED ON
TICKET NO. 171128

15.009.24475.0000

FIELD _____ SEC 12 TWP 205 RNG 12W COUNTY BARTON 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 _____

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE <u>FORM PIG 2 SIDE</u>	<u>1</u>	<u>Hewco</u>
CENTRALIZERS <u>5-4</u>	<u>1</u>	<u>Hewco</u>
BOTTOM PLUG		
TOP PLUG <u>LATCH DOWN</u>	<u>1</u>	<u>Hewco</u>
HEAD <u>1 1/2 IN. 1 FOLD</u>	<u>1</u>	<u>Hewco</u>
PACKER		
OTHER <u>Auto Fillup</u>	<u>1</u>	<u>Hewco</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 _____

JOB DATA

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>7-18</u>	DATE <u>7-18</u>	DATE <u>7-18</u>	DATE <u>7-18</u>
TIME <u>1200</u>	TIME <u>1445</u>	TIME <u>1750</u>	TIME _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J. BENNETT</u>	<u>2011-P</u>	<u>25520</u>
<u>R. LINDSEY</u>	<u>51936</u>	<u>25520</u>
<u>J. SHERTS</u>	<u>62184</u>	<u>25520</u>

RECEIVED
STATE COMMISSION

AUG 20 1991

DEPARTMENT CEMENT

DESCRIPTION OF JOB CEMENT 5% PRODUCTION

CASTING

JOB DONE THRU: TUBING ☐ CASING ☒ ANNULUS ☐ TBG/ANN. ☐

CUSTOMER REPRESENTATIVE XOCT 1000000

HALLIBURTON OPERATOR J. BENNETT COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>100</u>	<u>65-35 P02</u>		<u>B</u>	<u>6% GEL</u>		
	<u>75</u>	<u>40-60 P02</u>		<u>B</u>	<u>18% GEL 75% CER-3</u>	<u>1.42</u>	<u>14.3</u>
					<u>5 1/2% CEMENT, 2 1/2% GEL</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 11 REASON LATCH DOWN BATTLE

SUMMARY

VOLUMES

PRESLUSH: BBL-GAL 20 TYPE SHUT FLUSH

LOAD & BKN: BBL-GAL _____ PAD: BBL-GAL _____

TREATMENT: BBL-GAL _____ DISPL: BBL-GAL 80.9

CEMENT SLURRY: BBL-GAL 30 + 19 = 49

TOTAL VOLUME: BBL-GAL _____

REMARKS

Total Casing 3416

15.009.24475.0000

COMPANY _____ FARM _____ WELL NO. _____
 SEC. TWP. RGE. LOC. COUNTY STATE
 CONTRACTOR _____ SIZE HOLE _____ DRILL PIPE _____
 REMARKS: _____ SIZE PUMP LINERS _____ LENGTH STROKE _____

ORIGINAL

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2800	5:25	3	
1	26	2	
	28	4	
	30	3	
5	36	3	
	41	3	
	44	3	
	47	3	
	50	3	
2810	53	3	
	55	2	
	57	2	
	6:00	3	
	03	3	
15	06	2	
	10	4	
	12	2	
	14	2	
	17	3	ACW
2820	20/25	2	
	25	3	
	28	3	
	31	3	
	34	3	
25	36	2	
	39	3	
	43	4	
	46	3	
	49	3	
2830	52	3	
	54	2	
	57	3	
	7:00	3	
	03	3	
35	06	3	
	09	3	
	12	2	
	15	3	
	18	3	
2840	21	3	
	24	3	
	27	3	
	30	3	
	34	4	
45	38	4	
	41	3	
	45	4	
	47	2	
	50	3	
	53	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2850	57	2	
57	59	2	
	202	2	
	06	4	
	08	3	
55	13	4	
	16	3	
	20	11	
	23	3	
	27	4	
2860	31	11	
	35	1	
	39	1	
	43	1	
	45	2	
65	49	3	
	52	4	
	55	3	
	59	11	
	9:02	5	
2870	05	3	
	06	1	
	08	2	
	10	2	
	14	4	
75	17	3	
	20	2	
	23	3	
	26	3	
	28	2	
2880	31	7	
	36	3	
	42	3	
	45	3	
	49	4	
85	52	2	
	54	2	
	56	2	
	59	4	
	03	4	
2890	07	4	
	11	4	
	15	4	
	18	3	
	21	3	
95	23	2	
	26	3	
	30	4	
	33	3	
	35	2	
2900	37	2	

RECEIVED

CORPORATE

AUG 20 10 01

RVP

15.009.24475.0000

ORIGINAL

COMPANY

FARM

WELL NO.

SEC. TWP. RGE. LOC.

COUNTY

STATE

CONTRACTOR

SIZE HOLE

DRILL PIPE

REMARKS:

SIZE PUMP LINERS

LENGTH STROKE

1786 GL
1791 KB

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
100	10:37		
1	41	4	
	45	4	
	48	3	
	51	3	
5	55	3	
	58	3	
	11:00	2	
	1	1	
	4	2	
10	7	3	
	10	3	
	13	3	Conn 1 Rtg
	24/26	2	
	29	2	
15	31	2	WS 33 wt P. 15 cu 7000 PU 10 ⁵
	33	2	
	36	2	
	39	3	
	41	2	
20	44	3	
	47	3	
	50	2	
	53	3	
	56	3	
25	59	3	
	12:02	3	
	6	3	
	9	3	
	12	3	
30	15	3	
	18	3	
	21	3	
	24	3	
	26	2	
35	29	3	
	31	2	
	34	2	
	36	2	
	38	2	
40	41	3	
	44	3	
	47	3	
	50	3	conn
	54/56	2	
45	59	2	
	1:01	2	
	4	2	
	6	2	
	9	2	
	11	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
50	11	3	
51	14	3	
	17	2	
	20	3	
	23	3	
55	26	3	
	28	2	
	30	1	
	31	1	
	33	2	
60	37	4	
	41	4	
	44	3	
	47	2	
	49	1	
65	51	2	
	53	2	
	56	2	
	58	2	
	2:00	2	
70	2	2	
	5	2	
	7	2	
	10	3	
	13	3	Conn T. 10 - Conn.
75	19/21	2	
	24	2	
	27	3	
	29	2	
	31	2	
80	33	2	
	35	2	
	37	2	
	39	2	
	42	2	
85	44	2	
	47	3	
	50	3	
	52	2	
	53	1	
90	55	2	
	57	1	
	59	2	
	3:01	2	
	03	2	
95	5	2	
	7	2	
	9	2	
	12	2	
	14	2	
100	16	2	

15.009.24475.0000

COMPANY _____ FARM _____ WELL NO. _____
 SEC. TWP. RGE. LOC. _____ COUNTY _____ STATE _____
 CONTRACTOR _____ SIZE HOLE _____ DRILL PIPE _____
 REMARKS: _____ SIZE PUMP LINERS _____ LENGTH STROKE _____

ORIGINAL

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3000	3:11 1/2		
1	19	2 1/2	
	21	2	
	23 1/2	2 1/2	
	25 1/2	2	
5	27 1/2	2	
	30	2 1/2	CONN TIGHT
	36/37 1/2	1 1/2	
	39	1 1/2	
	41	2	
10	43	2	vis 40 wt 9 3/4 13 chl. 3000
	44 1/2	1 1/2	
	46	1 1/2	
	48	2	
	50	2	
15	52	2	
	53 1/2	1 1/2	
	55 1/2	2	
	57 1/2	2	
	59 1/2	2	
20	4:01 1/2	2	
	3 1/2	2	
	5 1/2	2	
	7	1 1/2	
	8 1/2	1 1/2	
25	10	1 1/2	
	11 1/2	1 1/2	
	13	1 1/2	
	14 1/2	1 1/2	
	16	1 1/2	
30	17 1/2	1 1/2	
	19	1 1/2	
	20 1/2	1 1/2	
	22	1 1/2	
	23 1/2	1 1/2	
35	25	1 1/2	
	26 1/2	1 1/2	
	28	1 1/2	CONN
	32/33 1/2	1 1/2	
	35	1 1/2	
40	36 1/2	1 1/2	
	38	1 1/2	
	39 1/2	1 1/2	
	41	1 1/2	
	42	1	
45	43 1/2	1 1/2	
	45	1 1/2	
	46 1/2	1 1/2	
	48	1 1/2	
	49 1/2	1 1/2	
50	51	1 1/2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
50	4:51 1/2		
51	52 1/2	1 1/2	
	54	1 1/2	
	55	1	
	56 1/2	1 1/2	
55	58	1 1/2	
	59 1/2	1 1/2	
	5:01	1 1/2	
	2 1/2	1 1/2	
	4	1 1/2	
60	5 1/2	1 1/2	
	07	1 1/2	
	8 1/2	1 1/2	
	10	1 1/2	
	11 1/2	1 1/2	
65	13	1 1/2	
	14 1/2	1 1/2	
	16	1 1/2	
	17 1/2	1 1/2	
	19 1/2	2	CONN
70	23/24 1/2	1 1/2	
	26	1 1/2	
	27 1/2	1 1/2	
	29	1 1/2	
	30 1/2	1 1/2	
75	32	1 1/2	
	33 1/2	1 1/2	
	35	1 1/2	
	36 1/2	1 1/2	
	38	1 1/2	
80	40 1/2	2 1/2	
	44 1/2	4	
	47 1/2	3	
	50 1/2	3	
	54	3 1/2	
85	57 1/2	3 1/2	
	6:01	3 1/2	
	4	3	
	7 1/2	2 1/2	
	10 1/2	3	
90	13	2 1/2	
	15 1/2	2 1/2	
	18	2 1/2	
	21	3	
	24 1/2	3 1/2	
95	27	2 1/2	
	29	2	
	31	2	
	33	2	
	36	3	
5100	4:55	2	

COMPANY

FARM

WELL NO.

SEC. TWP. RGE. LOC.

COUNTY

STATE

CONTRACTOR

SIZE HOLE

DRILL PIPE

REMARKS:

SIZE PUMP LINERS

LENGTH STROKE

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3100	6:42	2	
1	44	2	
	46	2	
	48	2	
	50	2	
5	52	2	
	54	2	
	56	2	
	59	3	
	7:01	2	
10	3:10	2 1/2	42 vis 9" wt 13 1/2" wt
	7	3 1/2	8000 cklar 10 1/2" ph
	10	3	
	13	3	
	16	3	
15	19	3	
	22	3	
	25	3	
	28	3	
	30 1/2	2 1/2	
20	33	2 1/2	
	35	2	
	37 1/2	2 1/2	
	39 1/2	2	
	42	2 1/2	
25	45	2	
	47 1/2	2 1/2	
	50 1/2	3	
	53	2 1/2	
	56	3	
30	59	3	
	8:02	3	conn
	13 1/2	3	
	19	3	
	22 1/2	3 1/2	
35	26	3 1/2	
	29	3	
	32 1/2	3 1/2	
	36	3 1/2	
	38	2	
40	41	3	
	44	3	
	47	3	
	50	3	
	53	3	
45	56	3	
	59	3	
	9:02	3	
	05	3	
	08	3	
50	11	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
50	14	3	
51	18	4	
	22	4	
	24 1/2	3 1/2	
55	29	4 1/2	
	31 1/2	2 1/2	
	34	2 1/2	
	36	2	
	40	4	
60	43	3	
	47 1/2	4 1/2	
	51	3 1/2	conn
	55/58	3	
	10:00	2	
65	2	2	
	6	4	
	8 1/2	2 1/2	
	11	2 1/2	
	13	2	
70	16	3	
	17 1/2	1 1/2	
	19	1 1/2	
	20	1	
	22	2	
75	23 1/2	1 1/2	
	25 1/2	2	
	29	2 1/2	
	31	3	
	33 1/2	2 1/2	
80	36	2 1/2	
	39	3	
	42	3	
	44 1/2	2 1/2	
	47 1/2	3	
85	50	2 1/2	
	52	2	
	54	2	
	57	3	
	59	2	
90	11:00 1/2	1 1/2	
	02	1 1/2	
	03	1	
	09	1	
	06	2	
95	10 1/2	2	
	14 1/2	2 1/2	
	17	2 1/2	
	19	2	
	21	2	
3200	24	3	

15.009.24475.0000

ORIGINAL

COMPANY

FARM

WELL NO.

SEC. TWP. RGE. LOC.

COUNTY

STATE

CONTRACTOR

SIZE HOLE

DRILL PIPE

REMARKS:

SIZE PUMP LINERS

LENGTH STROKE

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
200	24	2	
1	28	2	
	30	2	
	32 1/2	2 1/2	
5	35	2 1/2	
	38	3	
	40	2	
	42	2	
	45	3	
10	47 1/2	2 1/2	
	50	2 1/2	
	52	2	
	54 1/2	2 1/2	
	57	2 1/2	
15	12:00	3	
	2	2	
	4 1/2	2 1/2	
	7	2 1/2	
	9 1/2	2 1/2	
20	11	1 1/2	
	14 1/2	3 1/2	
	17	2 1/2	
	20	3	
	22	2	
25	25	3	CONN
	28 1/2	2	
	33	3	
	36	3	
	38	2	
30	41	3	
	43 1/2	2 1/2	
	46	2 1/2	
	48	2	
	50 1/2	2 1/2	
35	52 1/2	2	
	55	2 1/2	
	58	3	
	1:01	3	
	4	3	
40	7	3	
	10	3	
	12 1/2	2 1/2	
	15	2 1/2	
	18	3	
45	21 1/2	3 1/2	
	25	3 1/2	
	28	3	
	30 1/2	2 1/2	
	32 1/2	2	
50	35	2 1/2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
50	35	3	
	37	3	
	44	3	
	46 1/2	2 1/2	
55	50	3 1/2	
	3	3	
	56	3	CONN
	8:01	3	
	4	3	
60	8	4	44 lbs 9 1/2 wt 12 W/L
	11	3	5000 lbs 11 1/2 W/L
	15	4	
	19	4	
	22	3	
65	5	3	
	8	3 1/2	
	31	2 1/2	
	4	3	
	37	3	
70	39	2	
	43	4	
	47	4	
	50	3	
	52	2	
75	54	2	
	57	3	
	3:01	4	
	5	4	
	9	4	
80	12	3	
	15	3	
	19	4	
	23	4	
	27	4	
85	30	3	
	34	4	
	37	3	
	41	4	
	45	4	CONN
90	51	5	
	57	3	
	1:02	5	
	6	4	
	10	4	
95	14	4	
	18 1/2	4 1/2	
	23	4 1/2	
	28	5	
	32	4	
3300	36	4	

COMPANY	FARM	WELL NO.
SEC. TWP. RGE. LOC.	COUNTY	STATE
CONTRACTOR	SIZE HOLE	DRILL PIPE
REMARKS	SIZE PUMP LINERS	LENGTH STROKE

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3300	436	4	
1	44	4	
	49	5	
	53	4	
5	57	4	
	5:01	4	
	5	4	
	9	4	
	13	4	
10	18	5	
	22	4	
	27	5	
	31	4	
	35	4	
15	40	5	
	45	5	
	50	5	
	55	5	
	6:00	5	
20	4	4	
	8 11	3	
	15	4	
	19	4	
	22	3	
25	25	3	
	29	4	
	34	5	
	38	4	
	42	4	
30	46	4	
	49	3	
	52	3	
	55	3	
	58	3	
35	7:01 1/2	3	
	4	3 1/2	
	6	2	
	7 1/2	1 1/2	
	10	2 1/2	
40	12	2	
	14 1/2	2 1/2	CFS 30/60
45	44	1	
	50	1	
	51 1/2	1 1/2	
	53	1 1/2	
	54	1	
	56	2	CFS 30/60
50	29	2	
	30	2	
	33	3	CONN

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3350	36	1	
	37	1	
	39	2	
	41	2	
	43	2	
	45	2	
	46	1	
	48	2	
	51	2	
	52	1	CFS 30/60
40	10:20	3	
	25	2	
	27	2	
	30	3	
	32	2	
	34	2	
	36	2	
	38	2	
	40	2	
	43	3	
70	45	3	
	46 1/2	1 1/2	
	49	2 1/2	
	51	2	
	52 1/2	1 1/2	
	54	1 1/2	
	55 1/2	1 1/2	
	57 1/2	2	
	59 1/2	2	
	11:01	1 1/2	
80	2	1	
	3	1	conn v R+G
	13 1/2	1	
	15	1/2	
	16	1	
	17 1/2	1 1/2	
	19	1 1/2	
	20	1	
	20 1/2	1/2	
	21 1/2	1	
90	23	1 1/2	
	24 1/2	1 1/2	
	25 1/2	1	
	29	3 1/2	
	32	3	
	34	2	
	36	2	
	37	1	
	38	1	
	39	1	
3400	40 1/2	1 1/2	

COMPANY

FARM

WELL NO.

SEC. TWP. RGE. LOC.

COUNTY

STATE

CONTRACTOR

SIZE HOLE

DRILL PIPE

REMARKS:

SIZE PUMP LINERS

LENGTH STROKE

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3100	40 $\frac{1}{2}$	1 $\frac{1}{2}$	
1	42	1 $\frac{1}{2}$	
	43 $\frac{1}{2}$	1 $\frac{1}{2}$	
	45	1 $\frac{1}{2}$	
	47	2	
5	49	2	
	50 $\frac{1}{2}$	1 $\frac{1}{2}$	
	52	1 $\frac{1}{2}$	
	54	2	
	56 $\frac{1}{2}$	2 $\frac{1}{2}$	
10	59 $\frac{1}{2}$	3	
	12:01 $\frac{1}{2}$	2	
	3 $\frac{1}{2}$	2	
	5 $\frac{1}{2}$	2	CONN Pick Up Mud
	20/21	1	
15	23	2	
	25	2	
	26	1	
	27 $\frac{1}{2}$	1 $\frac{1}{2}$	
	28 $\frac{1}{2}$	1	
20	30	1 $\frac{1}{2}$	
	31 $\frac{1}{2}$	1 $\frac{1}{2}$	
	33	1 $\frac{1}{2}$	
	34 $\frac{1}{2}$	1 $\frac{1}{2}$	
	36	1 $\frac{1}{2}$	
25	37	1	
	38 $\frac{1}{2}$	1 $\frac{1}{2}$	
	39 $\frac{1}{2}$	1	
	42	2 $\frac{1}{2}$	
	43	1	
30	45	2	
	46 $\frac{1}{2}$	1 $\frac{1}{2}$	
	48 $\frac{1}{2}$	2	
	50 $\frac{1}{2}$	2	
	52 $\frac{1}{2}$	2	
35	54 $\frac{1}{2}$	2	
	56 $\frac{1}{2}$	2	
	58 $\frac{1}{2}$	2	
	1:00 $\frac{1}{2}$	2	
	2 $\frac{1}{2}$	2	
40	4	1 $\frac{1}{2}$	
	6 $\frac{1}{2}$	2 $\frac{1}{2}$	
	9	2 $\frac{1}{2}$	
	10 $\frac{1}{2}$	1 $\frac{1}{2}$	
	12	1 $\frac{1}{2}$	CONN
45	20 $\frac{1}{2}$ /22	1 $\frac{1}{2}$	
	24 $\frac{1}{2}$	2 $\frac{1}{2}$	
	26 $\frac{1}{2}$	2	
	28 $\frac{1}{2}$	2	
	30 $\frac{1}{2}$	2	
50	33	2 $\frac{1}{2}$	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
50	1:35	2	
51	35	2	
	37 $\frac{1}{2}$	2 $\frac{1}{2}$	
	39 $\frac{1}{2}$	2	
	42 $\frac{1}{2}$	3	
55	44 $\frac{1}{2}$	2	
	47	2 $\frac{1}{2}$	
	49 $\frac{1}{2}$	2 $\frac{1}{2}$	
	52	2 $\frac{1}{2}$	
	54	2	
60	57	3	
	59 $\frac{1}{2}$	2 $\frac{1}{2}$	
	2:02 $\frac{1}{2}$	3	
	5 $\frac{1}{2}$	3	
	8 $\frac{1}{2}$	3	
65	11	2 $\frac{1}{2}$	
	14	3	
	17 $\frac{1}{2}$	3 $\frac{1}{2}$	
	20 $\frac{1}{2}$	3	
	23	2 $\frac{1}{2}$	
70	25	2	
	27	2	
	28	1	
	30	2	
	32 $\frac{1}{2}$	2 $\frac{1}{2}$	
75	35	2 $\frac{1}{2}$	CONN
	38/40	2	
	42	3	
	46	3	
	48	2	
80	50	2	
	52	2	
	54	2	
	55 $\frac{1}{2}$	1 $\frac{1}{2}$	
	56 $\frac{1}{2}$	1	
85	58	1 $\frac{1}{2}$	
	3:00	2	
	2 $\frac{1}{2}$	2 $\frac{1}{2}$	
	4	1 $\frac{1}{2}$	
	5 $\frac{1}{2}$	1 $\frac{1}{2}$	
90	8 $\frac{1}{2}$	3	
	10 $\frac{1}{2}$	2	
	12	1 $\frac{1}{2}$	
	14 $\frac{1}{2}$	2 $\frac{1}{2}$	
	16 $\frac{1}{2}$	2	
95	20 $\frac{1}{2}$	4	
	23	2 $\frac{1}{2}$	
	25	2	
	27 $\frac{1}{2}$	2 $\frac{1}{2}$	
	30 $\frac{1}{2}$	3	
3500	33 $\frac{1}{2}$	3	

COMPANY

FARM

WELL NO.

SEC. TWP. RGE. LOC.

COUNTY

STATE

CONTRACTOR

SIZE HOLE

DRILL PIPE

REMARKS:

SIZE PUMP LINERS

LENGTH STROKE

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3500	3:33	2½	
1	36		
	39	3	
	42	3	
	44½	2½	
5	47	2½	
	50	3	CONN
	53/56	3	
	59	3	
	4:01½	2½	
10	4	2½	
	7	3	
	10½	3½	
	13½	3	
	17	3½	
15	20	3	
	23	3	
	26	3	
	29	3	
	31½	2½	
20	34½	3	
	37	2½	
	40	3	
	43	3	
	45½	2½	
25	47½	2	
	48	1½	
	52½	5	
	55½	3	
	57½	2	
30	5:00	2½	
	2	2	
	4½	2½	
	7	2½	
	10½	3½	
35	13	2½	
	15½	2½	
	18	2½	
	20	2	CONN
	24/26½	2½	
40	29	2½	
	32	3	
	34	2	
	36	2	
	38	2	
45	41	3	
	43½	2½	
	46	2½	
	47	1	
	49	2	
50	51	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
50	51	1½	
	54½	2	
	56½	2	
	59	2½	
55	6:01	2	
	4	3	
	6½	2½	
	9	2½	
	11½	2½	
60	13	1½	
	15½	2½	
	17½	2	
	20	2½	48vis 9" wt 12" w/L 15 ft
	22	2	
65	24	2	
	26	2	
	29	3	
	31	2	CONN
	34/38	2	
70	40	2	
	42½	2½	
	45	2½	
	47	2	
	49	2	
75	51	2	48vis 9" wt 13 w/L
	53-	2½	9000 elbr 10" ph
	55-	2	
	57-	2	
	7:00	2½	
80	2	2	
	4	2	
	6	2	
	8-	2½	
	10-	2	
85	13-	3	
	16	2½	
	19	3	
	20-	1½	
	23	2½	
90	25	2	
	27-	2½	
	29-	2	
	30-	1	
	32	1½	
95	34	2	
	35-	1½	
	37	1½	
	38½	1½	
	39	½	CONN
3600	53/50	1	

COMPANY

FARM

WELL NO.

SEC. TWP. RGE. LOC.

COUNTY

STATE

CONTRACTOR

SIZE HOLE

DRILL PIPE

REMARKS:

SIZE PUMP LINERS

LENGTH STROKE

85/8 @ 325'

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3600	7:54	1 1/2	
01	7:55		
	57	2	
	59	2	
	801	2	
5	04	3	
	06	2	
	08	2	
	11	3	
	13	2	
10	15	2	
	17	2	
	19	2	
	21	2	
	23	2	
15	25	2	
	27	2	
	29	2	
	31	2	
	33	2	
20	35	2	
	37	2	
	39	2	
	41 1/2	2 1/2	
	43 1/2	2	
25	45	1 1/2	
	47	2	
	49	2	
	50	1	
	52	2	
30	54	2	Conn
	58/9	2	
	7	2	
	4	2	
	6	2	
35	8	2	
	11	3	
	12 1/2	1 1/2	
	14 1/2	2	
	17	2 1/2	
40	19	2	
	21 1/2	2 1/2	
	23 1/2	2	
	25 1/2	2	
	28	2 1/2	
45	30 1/2	2 1/2	
	32	2	
	35	2 1/2	
	37	2 1/2	
	40	2 1/2	
50	42	2 1/2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3651	44	2	
	46	2	
	48	2	
	51	2 1/2	
55	53	2	
	55	2	
	57	2	
	10 00	3	
	2 1/2	2 1/2	
60	4 1/2	2	Conn
	8 1/2	2	
	12	2	
	14	2 1/2	
	16	2	
65	18	2	
	19	1	
	21	1 1/2	
	23	2	
	26	3	
70	27	1 1/2	
	30	3	
	33	2 1/2	
	36	3	
	38	2	
75	40 1/2	2 1/2	
	43	2 1/2	
	45	2 1/2	
	47	1 1/2	
	50	3	
80	52	2	
	54	2 1/2	
	57	2 1/2	
	59	2	
	11:01	2	
85	3	2	
	5	2 1/2	
	8	2 1/2	
	10	2	
	11	1 1/2	
90	13	1 1/2	
	15	2	Conn
	19/20	1	
	21	1 1/2	
	3	2	
95	5	2	
	7	1	
	9	2	
	31	2	
	3	2	
3700	35	2	

ORIGINAL

FARM

WELL NO.

SEC. TWP. . RGE. LOC.

COUNTY

STATE

CONTRACTOR

SIZE_HOLE

DRILL PIPE

REMARKS:

SIZE PUMP LINERS

LENGTH STROKE

DATE _____

DEPTH	TIME O'CLOCK	MIN.	REMARKS
~~3101~~	~~35~~		
	37	2	
	38-	1½	
	40	1½	
	2	2	
5	4	2	
	6	2	
	7	1	
	48-	1½	
	50	1½	
10	2	2	
	3½	1½	
	5	1½	
	6½	1½	
	58	1½	
15	12010	2	
	11	1	
	2-	1-	
	4-	1-	
	6	2	
20	7-	1-	
	9	1-	
	11	2	CONN
	15/16	1	
	17-	1-	
25	19-	2	
	21-	2	
	3	1-	
	2.6	3	
	7	1	
30	8-	1½	
	30	1½	
	31-	1½	
	32-	1	
	34	1½	
35	36	2	
	37	1	
	39	2	
	41	2	
	42-	1½	
40	44	1½	
	45-	1½	
	47	1½	
	49	2	
	50½	1½	
45	52½	2	
	54-	2	
	56-	2	
	58	1½	
	1:00	2	
5750	3	3	T.D.

[illegible]