

ORIGINAL

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 # 3988

Name: Slawson Exploration Co., Inc.

Address 20 N. Broadway, Suite 700

City/State/Zip Oklahoma City, OK 73102

Purchaser: Inland Crude Purchasing Co.

Operator Contact Person: Steve Slawson

Phone (800) 333-5493

Contractor: Name: Murfin Drilling Company

License: 30606

Wellsite Geologist: Richard A. Robba

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If OAWD: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

7/29/91 8/6/91 8/7/91
Spud Date Date Reached TD Completion Date

API NO. 15- 101-21,596-0000

County _____ Lane _____

C NE NE Sec. 22 Twp. 16S Rge. 30 East West

4640 Ft. North from Southeast Corner of Section

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

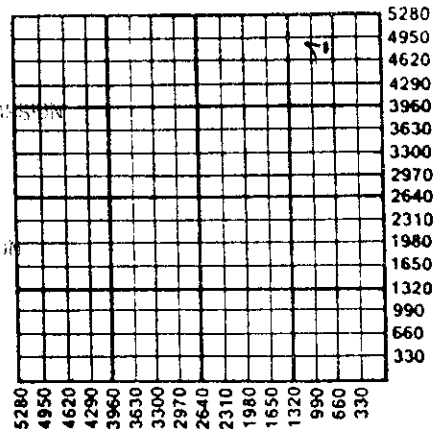
Lease Name BENTLEY 'BF' Well # 1

Field Name Wildcat

Producing Formation LKC

Elevation: Ground 2770' KB 2776'

Total Depth 4535 PBDT 3965'



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Amount of Surface Pipe Set and Cemented at 325 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 2189 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx amt.

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 [Signature]

Title Division Operations Manager Date 9/9/91

Subscribed and sworn to before me this 10th day of September, 19 91.

Notary Public [Signature]

Date Commission Expires September 13, 1994

<input checked="" type="checkbox"/> K.C.C. OFFICE USE ONLY		
F <input type="checkbox"/>	Letter of Confidentiality Attached	
C <input checked="" type="checkbox"/>	Wireline Log Received	
C <input type="checkbox"/>	Drillers Time Log Received	
Distribution		
<input checked="" type="checkbox"/> KCC	<input type="checkbox"/> SWD/Rep	<input type="checkbox"/> NGPA
<input type="checkbox"/> KGS	<input type="checkbox"/> Plug	<input type="checkbox"/> Other
(Specify)		

ORIGINAL

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SIDE TWO

Operator Name Slawson Exploration Co., Inc. Lease Name BENTLEY 'BF' Well # 1

Sec. 22 Twp. 16S Rge. 30 East West
County Lane

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

Drill Stem Tests Taken Yes No
(Attach Additional Sheets.)
Samples Sent to Geological Survey Yes No
Cores Taken Yes No
Electric Log Run Yes No
(Submit Copy.)

"SEE ATTACHED SHEET"

Formation Description
 Log Sample
Name Top Bottom

"SEE ATTACHED SHEET"

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"	25#	331'	60/40 Poz	200	2% gel, 3% CC
production	7 7/8"	4-1/2"	10.5#	4031'	50/50 Poz & Common	150	10% salt

PERFORATION RECORD

Shots Per Foot Specify Footage of Each Interval Perforated

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

4	3896' - 3898'	750 gals 15% HCl w/additives	
		Re-acidized:	
		740 gals 20% SGA	

TUBING RECORD

Size 2-3/8 Set At 3907' Packer At

Liner Run Yes No

Date of First Production 8/30/91 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil 40 Bbls. Gas -- Mcf Water 15 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) _____

ORIGINAL

ATTACHMENT SHEET for
Bentley 'BF' #1
Sec. 22-16S-30W
Lane County, Kansas
API #101-21,596

- DST #1 - 3875'-3904' (LKC 35' zone) times 30-45-45-60 min, 1st open BOB in 13 min, 2nd open BOB in 18 min. Rec 540' GIP, 150' CGO, 180' G & OCM. IFP 52-83#, FFP 124-145#, ISIP 989#, FSIP 979#, BHT 118°, HP 1932-1912#.
- DST #2 - 4027-4051' (LKC 140') times 30-20-20-20 min, 1st open 1/2" blow, dead on 2nd open. Rec 30' mud. IFP 20-20#, FFP 31-31#, ISIP 1010#, FSIP 979#, HP 2053-2032#.
- DST #3 - 4093'-4115' (180' zone) times 30-20-20-20 min, 1st open died in 23", dead on 2nd open. Rec 1' GO, 5' OSM. IFP & FFP 20-20#, ISIP & FSIP 20#.
- DST #4 - 4159-4168' (Middle Creek) times 30-20-20-20 min, 1st open wk blow, died in 25 min, dead on 2nd open. Rec 2' mud. IFP & FFP 20-20#, ISIP-FSIP 20#.
- DST #5 - 4423'-4462' (Johnson) times 30-20-20-20 min, Rec 5' OSM. IFP 41-52#, FFP 52-58#, ISIP 719#, FSIP 819#, HP 2233-2203#, BHT 120°.

SAMPLE TOPS:

Anhydrite	2156' (+620')	Middle Cr.	4164' (-1586')
B. Anhydrite	2185' (+591')	BKC	4203' (-1428')
Heebner	3822' (-1046')	Myrick Sta.	4361' (-1586')
Toronto	3841' (-1065')	Ft. Scott	4383' (-1608')
Lansing	3858' (-1082')	L. Cherokee	4409' (-1634')
35' zone	3890' (-1115')	Johnson	4446' (-1671')
Muncie Creek	4029' (-1254')	RTD	4535'
Stark	4122' (-1347')		

LOG TOPS:

Anhydrite	2156' (+619')	BKC	4207' (-1432')
B. Anhydrite	2184' (+591')	Ft. Scott	4383' (-1608')
Heebner	3837' (-1062')	L. Cherokee	4406' (-1631')
Lansing	3857' (-1082')	Johnson	4447' (-1672')
35' zone	3894' (-1119')	Mississippi	4481' (-1706')
Muncie Cr.	4029' (-1254')	LTD	4535'
Stark	4121' (-1346')		

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STATE OIL & GASE COMMISSION

SEP 12 1991

STATE OIL & GASE COMMISSION
TOLSON

KCC OIL/GAS REGULATORY OFFICE

Att. Dennis Anderson
ORIGINAL

DATE 12/5/91

New Situation
 Response to Request
 Follow-up

OPERATOR Slawson Exploration Co, Inc # 3988

NAME 104 S. Broadway

LOCATION NE NE, SEC 22, T 16 S, R 30 E W

& ADDRESS Wichita, KS 67202

LEASE Bentley "BF" Well # 1

PHONE NO. OPER. OTHER

COUNTY Lane

REASON FOR INVESTIGATION: Alternate II cement completion

LEASE INSPECTION

PROBLEM:

PERSON(S) CONTACTED:

FINDINGS: 12/5/91 Opened tool at 2189', pumped 450 sx cement, no returns.

COMPLAINT

Ran temperature survey 12/6/91-cement at 2150', perfed at 1300'.

12/7/91 Pumped 300 sx cement, no returns.

12/9/91 Bond logged, cement at 710', perfed at 660', pumped 125 sx cement, cement circulated.

photos taken:

ACTION/RECOMMENDATIONS:

FIELD REPORT

Retain 1 copy Joint District Office
Send 1 copy Conservation Division

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STATE CORPORATION COMMISSION

DEC 10 1991

CONSERVATION DIVISION
WICHITA, KANSAS

By Dan Goodrow

12/9/91

ORIGINAL

Phone 913-483-2627, Russell, Kansas

Phone Plainville 913-434-2812

Phone 315-793-5861, Great Bend, Kansas

Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

No 1427

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	7-5-91	Sec.	25	Twp.	17S	Range	35	Called Out	7:30 P.M.	On Location	9:30 P.M.	Job Start	11:30 P.M.	Finish	12:00
Lease/Well No.	Van Schiltz Q	Well No.	1	Location	Manning 1/2 E	County	Scott	State	Ks						

Contractor	Abercrombie R.T.D.	Owner	Slawson
Type Job	Surface	To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Hole Size	12 1/4	T.D.	327
Csg.	8 5/8	Depth	326
Tbg. Size		Depth	
Drill Pipe		Depth	
Tool		Depth	
Cement Left in Csg.	15 ft	Shoe Joint	
Press Max.		Minimum	
Meas Line		Displace	19.8
Perf.			

Charge To	Slawson Exploration
Street	Suite 500 (20-N-BROADWAY)
City	Okla. City
State	OK, 73102
The above was done to satisfaction and supervision of owner agent or contractor.	

Purchase Order No.
 W.P. Co.
CEMENT

Amount Ordered	185 60/40 2x3
----------------	---------------

Consisting of			
Common	111	5.25	582.75
Poz. Mix	74	2.25	166.50
Gel.	4	6.75	NIC
Chloride	6	21.00	126.00
Quickset			

Handling	185	1.00	185.00
Mileage	50		370.00
		Sales Tax	
		Sub Total	
		Total	1430.25

EQUIPMENT

Pumptrk #158	No.	Cementer	J.D.
		Helper	Bob
Pumptrk #69	No.	Cementer	
		Helper	
Bulktrk #69		Driver	Mike
		Driver	

DEPTH of Job

Reference:	Pump Truck Charges	380.00	
50	Mileage	100.00	
		Total	480.00

Remarks:
 Cement did circulate
 Thank you
[Signature]

Floating Equipment
TOTAL \$ 1910.25
Disc - 286.54

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 STATE CORPORATE COMMISSION
 \$ 1623.71

SEP 12 1991

ORIGINAL

TICKET NO. 125673-9

EWf

15% Cont + Bm 40160
FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME <i>1 Bentley 3.F</i>		COUNTY <i>LeFlore</i>	STATE <i>Ks.</i>	CITY / OFFSHORE LOCATION	DATE <i>8-7-91</i>
CHARGE TO <i>Stamson Exploration Co. Inc.</i>		OWNER <i>Stamson</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 <i>164 S. Broadway Suite 200</i>		CONTRACTOR <i>Mudwin Drilling Co.</i>		1 LOCATION <i>Ness City, Mo</i>	CODE <i>25553</i>
CITY, STATE, ZIP <i>Wichita, Ks. 67202</i>		SHIPPED VIA <i>3580</i>		2 LOCATION <i>Hays, Ks</i>	CODE <i>25525</i>
WELL TYPE <i>01</i>		WELL CATEGORY <i>03</i>		3 LOCATION	CODE
WELL PERMIT NO. <i>2 B- 911770</i>		DELIVERED TO <i>N/Healy, Ks.</i>		REFERRAL LOCATION	
TYPE AND PURPOSE OF JOB <i>035</i>		ORDER NO.			

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 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 3580	56	mi			2.60	145.60
001-016		1		Pump Charge	1028	ft.				1300.00
030-016		1		5 W. Top Plug	1	ea	1/4	in		35.00
018-315		1		Mud Flush	520	gal			.55	275.00
12 A	825.201	1		Rog. Borehole Star	1	ea	1/2	in		89.00
24 A	815.19101	1		Inject. Flot Valve	1	ea	1/2	in		73.00
27	815.19111	1		Auto. Fill Assy	1	ea				27.50
40	807.72001	1		S. I. Controller	6	ea	1/2	in	43.00	258.00
320	800.8881	1		Control Borehole	2	ea	1/2	in	85.00	170.00
73	810.0141	1		E.D. Controller	1	ea	1/2	in		1665.00
218-738		1		Ch. Filter	5	gal			20.00	100.00

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STATE CORPORATION COMMISSION

SEP 12 1991

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. **2B- 911770**

1500.67

WAS JOB SATISFACTORILY COMPLETED? *Yes*

WAS OPERATION OF EQUIPMENT SATISFACTORY? *Yes*

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? *Yes*

X CUSTOMER OR HIS AGENT (PLEASE PRINT)
Stamson

X CUSTOMER OR HIS AGENT (SIGNATURE)
[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.

HALLIBURTON OPERATOR
[Signature]

HALLIBURTON APPROVAL
[Signature]

SUB TOTAL **5638.77**

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

**WORK ORDER CONTRACT
 AND PRE-TREATMENT DATA**

ATTACH TO INVOICE & TICKET NO. 125673

FORM 1908 R-7

A Division of Halliburton Company

DISTRICT Hays, Kc

DATE 8-7-91

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

WELL NO. 1 LEASE Bentley B.F. SEC 22 TWP. 16s RANGE 30W

FIELD _____ COUNTY LaMo STATE Kc OWNED BY Somo

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____
 FORMATION THICKNESS _____ FROM _____ TO _____
 PACKER TYPE P.C. SET AT 2189'
 TOTAL DEPTH 4535 MUD WEIGHT _____
 BORE HOLE 7 7/8"
 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>10.5</u>	<u>4 1/2</u>	<u>KB</u>	<u>4028'</u>	
LINER						
TUBING						
OPEN HOLE				<u>4028</u>	<u>4535</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

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

Cement plug casing 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 1st 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 exclusion therefrom 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.

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

SIGNED Rodney Fow CUSTOMER

DATE 8-7-91
 TIME 5:00 A.M. P.M.

RECEIVED
 STATE OF KANSAS COMMISSION

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.

SEP 12 1991

WELL DATA

FIELD _____ SEC 22 TWP 16s RNG. 30d COUNTY Louis 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 P.C. SET AT 2189'

BOTTOM HOLE TEMP _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH 7535'

NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
11	10.5	4 1/2	KB	7028'	

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>Insert Float Valve</u>	<u>1</u>	<u>Howlco</u>
FLOAT SHOE <u>Auto Fill</u>	<u>1</u>	
GUIDE SHOE <u>Reg.</u>	<u>1</u>	
CENTRALIZERS <u>S-P</u>	<u>6</u>	
BOTTOM PLUG		
TOP PLUG <u>5 w.</u>	<u>1</u>	
HEAD <u>1 1/2</u>	<u>1</u>	
PACKER <u>Port Collar</u>	<u>1</u>	
OTHER <u>Cement Bucket</u>	<u>2</u>	

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>8-7</u>	DATE <u>8-7</u>	DATE <u>8-7</u>	DATE <u>8-7</u>
TIME <u>0545</u>	TIME <u>0805</u>	TIME <u>0820</u>	TIME <u>1200</u>

ORIGINAL

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>D. Lemmon</u>	<u>3580</u>	
<u>B. Crosswhite</u>	<u>6000</u>	<u>Noss Ck, Ky</u>
<u>B. Maughmer</u>	<u>0580</u>	
	<u>R-Tit</u>	<u>Hays, Ky</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. _____

OTHER _____

DEPARTMENT Cement

DESCRIPTION OF JOB Cement prod. casing to

direction

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN

CUSTOMER REPRESENTATIVE X Ludwig Pan

HALLIBURTON OPERATOR Mr. Lemmon COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT/SK	MIXED LBS/GAL
	<u>25</u>	<u>Carman</u>	<u>Port A B</u>		<u>As scavenger</u>	<u>1.18</u>	<u>15.6</u>
	<u>125</u>	<u>SD/SD</u>	<u>Port A B</u>		<u>2% gel, 10% salt, 1/4 1/2 st flocc, 1/4 0% CFR-3</u>	<u>1.29</u>	<u>14.38</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 42.28 REASON Shoe Joint

SUMMARY

PRESLUSH: BBL/GAL 500 TYPE Mud-Push

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

TREATMENT: BBL-GAL _____ DISPL: BBL-GAL 63.4

CEMENT SLURRY: BBL-GAL 5 1/4 - 28.7

TOTAL VOLUME: BBL-GAL _____

REMARKS

See Job Log sheet

Frank Mr. & Mrs.

RECEIVED

CUSTOMER Stalwart Exp.

LEASE Roanoke R.F.

WELL NO. 1

JOB TYPE Annul & Prod. casing 7-7-91

JOB LOG

WELL NO. 1 LEASE Bentley BE TICKET NO. 125673
 OPER. Stawson Expl. PAGE NO. 1
 JOB TYPE Cement Prod. Casing DATE 8-7-91

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0805							On location - Rig getting ready to run casing
	0820							Start 1 1/2" casing - Rig Guide Shoe on bottom. Cement Basket on shoe jt. Cement on collar 1, 2, 4, 5, 11, 26. Basket on jt. 45 P.C. on jt. 45 @ 2129'
	1020							Rig finish running casing. Hook up to Rig pumps. (Ball Drapped 4 jts. off bottom)
	1030							Rig start circ. casing
	1100							Fin circ. casing Hook to Hawco equip.
	1107	5	12			200 250		Pump 500 gal Mud Pump
	1111	5	10			250		Pump 25 SKS Cam. on scavenger
	1113	5				250		Start 125 SKS Solids Bar 2% gel, 10% salt, 1/4" 1/2" flocc, 1/2" CER-3
						175		
	1119					125		Finish cut.
	1120							Wash up Pump & line.
								Release 5 wt. Tap Plug
	1121 1/2	8				200		Start Drpl - (2 1/2 KCL wtr.)
	1126 1/2	8	13			300		Caught press
	1128	3	160			775 625		Slow rate to land plug.
	1129		163 1/2			11650		Plug down. - Casing hold press.
	1131					0		Release press. - Insert Flat Hold.
	1135							Wash up & Back up.
	1200							Job Complete
								Thank you D. Lemman 71718 B. Crosswhite 89543 B. Mouchner F2361
								# 3550 - P # 0530 - P

ORIGINAL

Casing

RECEIVED
 SEP 12 1991