

ORIGINAL SIDE ONE

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

API NO. 15-185-22,742-6600
County Stafford
Approx. NW/4 Sec. 31 Twp. 24S Rge. 14 East West

Operator: License # 8482
Name: National Petro. Reserves, Inc.
Address 250 N. Rock Rd., #340

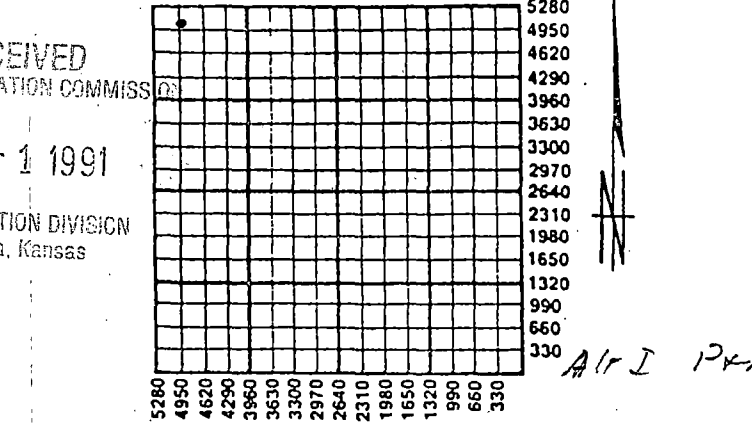
City/State/Zip Wichita, KS 67206

5050 Ft. North from Southeast Corner of Section
4920 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Purchaser: _____
Operator Contact Person: Ted C. Bredehoff
Phone (316) - 681-3515

Lease Name Sewing Well # #12
Field Name Satterlee
Producing Formation P&A
Elevation: Ground 1997' KB 2002'
Total Depth 4362' PBTD _____

Contractor: Name: Emphasis Oil Operations
License: 8241



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

Amount of Surface Pipe Set and Cemented at 339 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.

If OWN: old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
Drilling Method:
 Mud Rotary Air Rotary Cable
12/10/90 12/21/90 1-14-91
Spud Date Date Reached TD Completion Date

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 President Date 2/14/91
Subscribed and sworn to before me this 11 day of February, 19 91.
Notary Public [Signature]
Date Commission Expires 5-13-93

**SUSAN E. BREDEHOFT
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 5-13-93**

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 Timelog 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)

SIDE TWO

Operator Name National Petro. Reserves, Inc. Lease Name Sewing Well # 2
 Sec. 31 Twp. 24S Rge. 14 East West
 County Stafford

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

Drill Stem Tests Taken (Attach Additional Sheets.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run (Submit Copy.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">Formation Description</th> </tr> <tr> <th style="width:40%;"></th> <th style="width:20%; text-align: center;"><input checked="" type="checkbox"/> Log</th> <th style="width:40%; text-align: center;"><input type="checkbox"/> Sample</th> </tr> <tr> <th style="text-align: left;">Name</th> <th style="text-align: center;">Top</th> <th style="text-align: center;">Bottom</th> </tr> </thead> <tbody> <tr><td>Heebner</td><td style="text-align: center;">3568</td><td style="text-align: center;">-1566</td></tr> <tr><td>Douglas</td><td style="text-align: center;">3604</td><td style="text-align: center;">-1585</td></tr> <tr><td>Br. Lime</td><td style="text-align: center;">3711</td><td style="text-align: center;">-1709</td></tr> <tr><td>Lansing</td><td style="text-align: center;">3728</td><td style="text-align: center;">-1726</td></tr> <tr><td>B/KC</td><td style="text-align: center;">4003</td><td style="text-align: center;">-2001</td></tr> <tr><td>Miss.</td><td style="text-align: center;">4100</td><td style="text-align: center;">-2098</td></tr> <tr><td>Viola</td><td style="text-align: center;">4172</td><td style="text-align: center;">-2170</td></tr> <tr><td>Simpson</td><td style="text-align: center;">4302</td><td style="text-align: center;">-2300</td></tr> <tr><td>Arb</td><td style="text-align: center;">4360</td><td style="text-align: center;">-2358</td></tr> </tbody> </table>	Formation Description				<input checked="" type="checkbox"/> Log	<input type="checkbox"/> Sample	Name	Top	Bottom	Heebner	3568	-1566	Douglas	3604	-1585	Br. Lime	3711	-1709	Lansing	3728	-1726	B/KC	4003	-2001	Miss.	4100	-2098	Viola	4172	-2170	Simpson	4302	-2300	Arb	4360	-2358
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 3/4"	8 5/8"	20#	339'	Pozmix	210	3%cc
Production	7 7/8"	5 1/2"	10.5#	4360'	Pozmix	140	3%cc 2% gel
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)			Depth
	Open Hole TD 4390						
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production	Size P&A	Set At	Packer At				
none							
Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)							
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		

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

METHOD OF COMPLETION

Open Hole Perforation Dually Completed Commingled

Other (Specify) _____

Production Interval _____

ORIGINAL

15-185-22742-0000

- 12/16/90 DST #1 (3850-3868); Lansing 'H' zone; 30-30-45-45; 1st open-blow off bottom bucket in 5 minutes; 2nd open-blow off bottom bucket in 5 minutes; recovery: 3,000 ft gas-in-pipe; 20 ft gascut drilling mud; IFP 50-50; FFP 58-58; ISIP-84; FSIP-227;
- 12/17/90 Drilling at 4,073 ft.
- 12/18/90 DST #2 (4082-4118); Mississippian zone; 30-30-45-45; 1st open-weak blow built to 1 inch; 2nd open-weak blow built to 5 inches in 25 minutes; recovery: 120 ft gas-in-pipe, 30 ft drilling mud; IFP 67-na; FFP 67-na; ISIP-336; FSIP-210;
- 12/19/90 DST#3 (4172-4270); Viola zone; 30-30-45-45; 1st open-blow built to 3 inches; 2nd open-blow built to 3 inches; recovery: 120 ft gas-in-pipe; 60 ft oil spotted mud; IFP 92-101; FFP 109-117; ISIP-185; FSIP-209;
- 12/20/90 DST#4 (4290-4362); Arbuckle zone; 30-30-45-45; 1st open-weak blow bldg to 4 inches; 2nd open-weak blow bldg to 4 inches; recovery: 200 ft mud w/spot oil; IFP 57-82; FFP 107-133; ISIP-1395; FSIP-1411; drilling at 4,362 ft.
- 12/21/90

RECEIVED
STATE CONSERVATION COMMISSION

MAR - 1 1991

CONSERVATION DIVISION
Wichita, Kansas

ORIGINAL
HALLIBURTON SERVICES

REMIT TO:
P.O. BOX 1040
DALLAS, TX 75201-1040
15.185-22742-0005

INVOICE

1/13/91

A Halliburton Company

INVOICE NO.	DATE
041900	12/11/19

WELL/LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
SEWING 2		STAFFORD		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE		TICKET DATE	
PRATT	EMPHASIS DRLG	CEMENT SURFACE CASING		12/11/19	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE
623541	BILL OWEN			COMPANY TRUCK	

NATIONAL PETROLEUM RESERVES
250 N. ROCK RD.
SUITE 340
WICHITA, KS 67206

DIRECT CORRESPONDENCE TO:
SUITE 1300
LIBERTY TOWER
100 BROADWAY AVENUE
OKLAHOMA CITY, OK 73102-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE	22	MI	2.35	51.70
		1	UNT		
001-016	CEMENTING CASING	342	FT	480.00	480.00
		1	UNT		
000-118	MILEAGE SURCHARGE-CEMENT-LAND	22	MI	.40	8.80
		1	UNT		
030-503	CMTG PLUG LA-11, CP-1, CP-3, TOP	8 5/8	IN	59.00	59.00
		1	EA		
504-308	STANDARD CEMENT	126	SK	5.35	674.10
506-105	POZMIX A	84	SK	2.79	234.36
506-121	HALLIBURTON-GEL 2%	4	SK	.00	N/C
509-406	ANHYDROUS CALCIUM CHLORIDE	5	SK	25.75	128.75
500-307	MILEAGE SURCHARGE-CEMENT MAT.	207.03	TMI	.10	20.70
500-207	BULK SERVICE CHARGE	220	CFT	1.10	242.00
500-306	MILEAGE CMTG MAT DEL OR RETURN	207.03	TMI	.75	155.27
	INVOICE SUBTOTAL				2,054.68
	DISCOUNT-(BID)				308.18
	INVOICE BID AMOUNT				1,746.50
	*-KANSAS STATE SALES TAX				51.82
	*-PRATT COUNTY SALES TAX				12.19
	INVOICE TOTAL - PLEASE PAY THIS AMOUNT				\$1,810.51

RECEIVED
STATE COMMISSION
MAR - 1 1991
STATE COMMISSION
OKLAHOMA
OKLAHOMA, OK

TERMS 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.

B LOG

ORIGINAL **AMERICAN PETROLEUM RESERVOIRS**

CONF. PROD. OSG.

12-21-90

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2045							PULLED OUT
	2300							ON LOCATION RIG LAYING DOWN D.P.
	0635							BROKE CIRC. RIG PUMP WELL CIRC. PUMP FOR FINE HOT FLOW FROM IN PUMP KILLED MOTOR, HAD TO CHANGE STARTER RIG IN RIG FLOOR HAD TO MOVE OSG. PUMP PULL DOWN TO SET POINT WITH RIG PUMP OPER. W/TC + SET @ 1100 ^{PSI}
	0730	4	20			400		START SALT FLUSH 20 BBL
		0	30			100		RUN SURGE FLUSH 10 BBL
	0750	6				750		MIX CONT. 4.27 BBL TOTAL TIME 25 SECONDS RAT + WASTE
			71.29			400		STOP MIX 1/4 TO 1/2 BBL CONT. IN LINES DIDN'T FLUSH LINES OK'D BY POST.
	0805	7	0			550		START DIST. 53 BBL DIST TRK DIED W/OUT START W/CC. PROBLEM IN TIME
			0			700		HOOK BACK TO RIG PUMP FINISH DIST. (POST. DIST.)
	0830		52.82			1000		PUMP DOWN 105.82 TOTAL DIST. START 12 WELL HEAD RELEASE TO RIG PUMP RELEASE TO ON W/CC. PROBLEM FLOAT HEAD KNOCK OSG PULL TRK AWAY FROM RIG DRAIN TRK JOB COMP. 400 1991 3 STARTS

CUSTOMER

BULK MATERIALS DELIVERY

15-185-22742-0000

ORIGINAL TICKET CONTINUATION

FOR INVOICE AND
TICKET NO.

091907



DATE 12-20-90	CUSTOMER ORDER NO.	WELL NO. AND FARM Sewing #2	COUNTY Stafford	STATE Ks.
CHARGE TO National Petroleum Reserves		OWNER Same	CONTRACTOR Emphasis Drlg.	No. B 917641
MAILING ADDRESS		DELIVERED FROM Great Bend, Ks.	LOCATION CODE 25520	PREPARED BY D. L. Ramsey
CITY & STATE		DELIVERED TO Location	TRUCK NO. 3046-6608	RECEIVED BY <i>[Signature]</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
				QTY.	MEAS.	QTY.	MEAS.			
			165 40% Pozmix 60% Cement							
504-308	516.00261	1 B	Standard Cement	99426	sk			5.35	529.65	
506-105	516.00286	1 B	Pozmix A	66	sk			2.79	184.14	
506-121	516.00259	1 B	3 Halliburton Gel 2% Allowed						NC	
509-968	516.00315	1 B	Salt Blended 10% W/165	800	lb.			.10	80.00	
509-968	516.00158	1 B	Salt Not Blended	300	lb			.10	30.00	
508-292	70.15573	1 B	Gilsonite Blended 5# W/165	850	lb			.42	357.00	
507-775	516.00144	1 B	Halad-322 Blended .5% W/165	71	lb			5.75	408.25	
507-970	70.15764	2 B	D-Air. 1 Blended .25# W/165	41	lb			2.55	104.55	
500-307		1 B	Surcharge	181.90				.10	18.19	
			Returned Mileage Charge	STATE CORP. RECEIVED		LOADED MILES MISS		TON MILES		
			SERVICE CHARGE ON MATERIALS RETURNED	MAR - 1 1991		CU. FEET				
500-207		1 B	SERVICE CHARGE	CONS. DIVISION		CU. FEET	198	1.10	217.80	
500-306		1 B	Mileage Charge	16536	22	181.90	.75		136.43	
			TOTAL WEIGHT	LOADED MILES		TON MILES				
No. B 917641		CARRY FORWARD TO INVOICE					SUB-TOTAL		2066.01	

THIS IS NOT AN INVOICE

CUSTOMER

DISTRICT Central Basin DATE 12-21-90

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

WELL NO. 2 LEASE SEWING SEC. 31 TWP. 24 RANGE 1402
FIELD _____ COUNTY STAFFORD STATE TX OWNED BY same

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						
PACKER: TYPE	SET AT						
TOTAL DEPTH	MUD WEIGHT						
BORE HOLE							
INITIAL PROD: OIL _____ BPD, H ₂ O _____ BPD, GAS _____ MCF							
PRESENT PROD: OIL _____ BPD, H ₂ O _____ BPD, GAS _____ MCF							
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____
INIT. PROD. 0.36 7.746 psi 4365

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 for 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 which in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.

c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.

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

e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.

f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.

g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.

h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

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

SIGNED W J [Signature] CUSTOMER
DATE 12-21-90

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 24:30 A.M. P.M.

CUSTOMER

WELL DATA

LD _____ SEC 31 TWP. 24 RANG. 142 COUNTY STAFFORD STATE OK

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 4312

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>11</u>	<u>11</u>	<u>5 1/2</u>	<u>0</u>	<u>4311</u>	
LINER						
TUBING						
OPEN HOLE			<u>7 7/8</u>		<u>4312</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE <u>TRUCKER SHOE</u>	<u>1</u>	<u>HANCO</u>
CENTRALIZERS	<u>1</u>	<u>"</u>
BOTTOM PLUG		
TOP PLUG		
HEAD <u>AC</u>	<u>1</u>	<u>"</u>
PACKER		
OTHER <u>2 Loc Control</u>	<u>1</u>	<u>"</u>

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>12-20</u> TIME <u>2:45</u>	DATE <u>12-28</u> TIME <u>2:30</u>	DATE <u>12-28</u> TIME <u>07:30</u>	DATE _____ TIME _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J. S. STEETS</u>	<u>3244</u>	<u>OKLAHOMA</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL-API

DISPL. FLUID _____ DENSITY _____ LB/GAL-API

PROP. TYPE _____ SIZE _____ LB

PROP. TYPE _____ SIZE _____ LB

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

SURFACTANT TYPE _____ GAL. _____ IN

NE AGENT TYPE _____ GAL. _____ IN

FLUID LOSS ADD. TYPE _____ GAL-LB. _____ IN

GELLING AGENT TYPE _____ GAL-LB. _____ IN

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

BREAKER TYPE _____ GAL-LB. _____ IN

BLOCKING AGENT TYPE _____ GAL-LB. _____

PERFPAC-BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT CRIST

DESCRIPTION OF JOB CRIST. Prod. 150

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X W J R

HALLIBURTON OPERATOR M. P. J. [unclear] COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>165</u>	<u>4502</u>	<u>105 Standard</u>	<u>2600</u>	<u>10% SPT, 5% D.M.A.M. 324</u>		
					<u>5% S.C. GUMMITE, 25% R-2, AIR 1</u>	<u>1.52</u>	<u>14.23</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

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

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

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL. _____ DISPL: BBL-GAL. 165.82

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY: BBL-GAL. 40.22

ORDERED _____ AVAILABLE _____ USED _____ TOTAL VOLUME: BBL-GAL. 210

TREATING _____ DISPL _____ OVERALL _____

FEET 28 REASON Water down

REMARKS
300' SPT FOR PRODUCTION
10 SCS 200' 150' 150'
100' 0' 1 3 5 7
Total cost 426520

HALLIBURTON SERVICES

Duncan, Oklahoma 73536

A Division of Halliburton Company

ORIGINAL

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME <i>2 32101</i>		COUNTY <i>Wagon Wheel</i>	STATE <i>OK</i>	CITY / OFFSHORE LOCATION	DATE <i>12 21 91</i>
CHARGE TO <i>Wagon Wheel 2 32101</i>		OWNER <i>Smith</i>		TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>	NITROGEN JOB YES <input type="checkbox"/> NO <input type="checkbox"/>
ADDRESS		CONTRACTOR <i>Wagon Wheel 2 32101</i>		1 LOCATION <i>Wagon Wheel 2 32101</i>	CODE <i>2</i>
CITY, STATE, ZIP		SHIPPED VIA <i>3244</i>	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT		2 LOCATION <i>Wagon Wheel 2 32101</i>
WELL TYPE <i>01</i>	WELL CATEGORY <i>01</i>	WELL PERMIT NO.	DELIVERED TO <i>Wagon Wheel 2 32101</i>		3 LOCATION <i>Wagon Wheel 2 32101</i>
TYPE AND PURPOSE OF JOB <i>035</i>		B- 917641	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 whose 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 case 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, 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	22	MI.			2.35	
000-118		1		MILEAGE SUPPLEMENT	22	MI.			1.43	
009-019		1		PERIOD CHARGE	430	7.1			11.00	
018-317		1		SURGE FLUSH	10	50%			74.00	740.00
40	807-93003	1		5 1/2" 5-4	4	64			44.00	176.00
75	807-64034	1		5 1/2" (150' and 100')	1	64			11.30	728.00
80	855-137	1		5 1/2" WATER	1	64			360.00	2160.00
86	855-02813	1		1470 Full wd	1	64			45.00	2970.00

THIS IS AN INVOICE

RECEIVED
STATE OF OKLAHOMA
COMMISSIONER
MAR 1 1992

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. **B- 917641**

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

X W. J. L. L. L.
CUSTOMER OR HIS AGENT (PLEASE PRINT)

X W. J. L. L. L.
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.

M. R. B. B. B.
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL _____

CUSTOMER

SUB TOTAL _____

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

ORIGINAL

EMPHASIS OIL OPERATIONS

P. O. BOX 506

RUSSELL, KS 67665

DRILLERS LOG

OPERATOR: National Petroleum Reserves, Inc.
250 N. Rock Rd., #340
Wichita, KS 67206

CONTRACTOR: Emphasis Oil Operations
Box 506
Russell, KS 67665

LEASE: Sewing

WELL #12

LOCATION: Approx. NW/4
Section 31-24S-14W
Stafford County, Kansas

LOGGERS TOTAL DEPTH: 4360'

ROTARY TOTAL DEPTH: 4362'

COMMENCED: 12/10/90

CASING: 8-5/8" @ 339' w/210 sks cement
5-1/2" @ 4357' w/114 sks cement

ELEVATION: 2002' K.B.

COMPLETED: 12/21/90

STATUS: Oil Well

DEPTHS & FORMATIONS

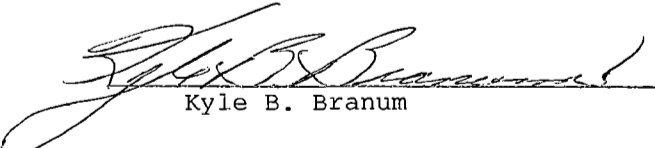
(All measurements from K.B.)

Dakota Sand	438'	Lansing-Kansas City	3729'
Red Bed	476'	Mississippi	4160'
Cedar Hills	748'	Simpson Shale	4300'
Anhydrite	949'	Arbuckle	4352'
Heebner	3569'	R.T.D.	4362'

RECEIVED
STATE CORPORATION COMMISSION
MAR - 1 1991
CORRELATION DIVISION
Wichita, Kansas

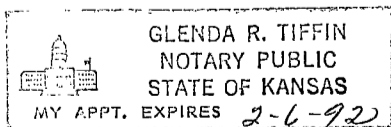
STATE OF KANSAS)
) ss
COUNTY OF RUSSELL)

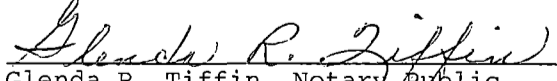
Kyle B. Branum, of Emphasis Oil Operations, states that the above and foregoing is a true and correct log of the above captioned well, to the best of his knowledge.


Kyle B. Branum

Subscribed and sworn to before me on December 24, 1990.

My commission expires: February 6, 1992.




Glenda R. Tiffin, Notary Public