

ORIGINAL

SIDE ONE

RELEASED
CONFIDENTIAL
MAR 05 1992

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

API NO. 15-179-20,981-0000
County Sheridan FROM CONFIDENTIAL

Operator: License # 9482

NW SE NE Sec. 23 Twp. 9S Rge. 26 East West

Name: National Petro. Reserves, Inc.

3630 Ft. North from Southeast Corner of Section

Address: 250 N. Rock Rd., Ste. #340

990 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

City/State/Zip Wichita, KS 67206

Lease Name Pfeifer Well # 3

Field Name EPLER

Purchaser: Clean Creek, Inc.

Producing Formation Lansing-Kansas City

Operator Contact Person: Ted C. Bredehoff

Elevation: Ground 2647' KB 2652'

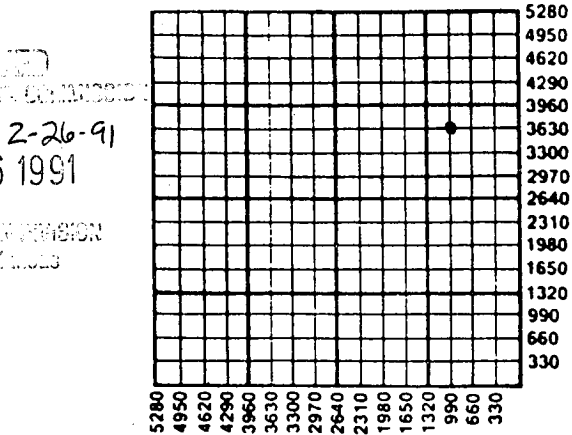
Phone (316) -681-3515

Total Depth 4170' PBDT 4110'

Contractor: Name: Emphasis Oil Operations

License: 8241

Wellsite Geologist: Dan DeBoer



Amount of Surface Pipe Set and Cemented at 292 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 2336 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

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

If OWWO: old well info as follows:
Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:
 Mud Rotary Air Rotary Cable

12/13/90 12/21/90 1/2/91
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 1/25/91

Subscribed and sworn to before me this 25 day of January, 19 91.

Notary Public [Signature]

Date Commission Expires 5-17-93

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received

Distribution

KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

SUSAN E. BREDEHOFF
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp 5-17-93

SIDE TWO

Operator Name National Petro. Reserves, Inc. Lease Name Pfeifer Well # 3

Sec. 23 Twp. 9S Rge. 26 East West
 County Sheridan

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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets.) Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.)	<p align="center">Formation Description</p> <p><input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Bottom</th> </tr> </thead> <tbody> <tr> <td>Anhydrite</td> <td>2299</td> <td>+358</td> </tr> <tr> <td>B/Anhydrite</td> <td>2339</td> <td>+318</td> </tr> <tr> <td>Topeka</td> <td>3655</td> <td>-998</td> </tr> <tr> <td>Heebner</td> <td>3864</td> <td>-1207</td> </tr> <tr> <td>Toronto</td> <td>3886</td> <td>-1229</td> </tr> <tr> <td>Lansing</td> <td>3904</td> <td>-1247</td> </tr> <tr> <td>B/K.C.</td> <td>4131</td> <td>-1474</td> </tr> </tbody> </table>	Name	Top	Bottom	Anhydrite	2299	+358	B/Anhydrite	2339	+318	Topeka	3655	-998	Heebner	3864	-1207	Toronto	3886	-1229	Lansing	3904	-1247	B/K.C.	4131	-1474
Name	Top	Bottom																							
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Toronto	3886	-1229																							
Lansing	3904	-1247																							
B/K.C.	4131	-1474																							

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 1/4"	8 5/8"	20#	285'	common	200	3% cc
Production	7 7/8"	4 1/2"	10.5#	4165'	poz mix	400	3% cc 10% salt
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			Amount and Kind of Material Used			Depth
3	4096-4100			1500 gal. 15% FE			4096-4100
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Size	Set At		XXXXXX				
2 3/8"	4090						
Date of First Production	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)						
1-4-91							
Estimated Production Per 24 Hours:	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		
	13/		no water				

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

15-179-20981-0000

RELEASED

MAR 0 5 1992

FROM CONFIDENTIAL

PFEIFER #3 Drill Stem Tests

- 12/18/90 DST#1 (3940-3960); Lansing 50 ft zone; 30-30-45-45; 1st open-strong blow off bottom bucket in 1 minute; 2nd open-strong blow off bottom bucket in 2 minutes; gas to surface on final shut-in; recovery: 2,350 ft clean gassy oil; IFP 181-449; FFP 543-768; ISIP-1044; FSIP-1044; gravity 39°; BHT 117°; drilling at 3,960 ft.
- 12/19/90 DST#2 (4013-4068); Lansing 140 ft & 160 ft zones; 30-30-30-30; 1st open-blow off bottom bucket in 1½ minutes; 2nd open-blow off bottom of bucket in 2½ minutes; recovery: 2,200 ft oil cut gassy water (21% gas, 6% mud, 24% oil, 49% water); IFP 202-616; FFP 703-928; ISIP-1252; FSIP-1252; BHT 125°; drilling at 4,068 ft.
- DST#3 (4068-4086); Lansing 180 ft zone; 30-30-45-45; 1st open-strong blow off bottom bucket 1 minute; 2nd open-strong blow, gas to surface on initial shut-in; recovery: 2,000 ft clean gassy oil; IFP 231-522; FFP 587-725; ISIP-790; FSIP-790; BHT 129°; drilling at 4,086 ft.
- 12/20/90 DST#4 (4088-4111); Lansing 200 ft zone; 30-30-45-45; 1st open-good blow off bottom bucket in 4 minutes; 2nd open-good blow off bottom bucket in 2 minutes; recovery: 1,150 ft gas-in-pipe; 1,250 clean gassy oil; IFP 123-217; FFP 253-434; ISIP-1267; FSIP-1252; BHT 129°; drilling at 4,111 ft.

FEB 26 1991

ORIGINAL

RELEASED

MAR 05 1992

EMPHASIS OIL OPERATIONS

P. O. BOX 506

RUSSELL, KS 67665

FROM CONFIDENTIAL

DRILLERS LOG

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

CONTRACTOR: Emphasis Oil Operations
Box 506
Russell, KS 67665

LEASE: Pfeifer

WELL #3

LOCATION: NW SE NE
Section 23-9S-26W
Sheridan County, Kansas

LOGGERS TOTAL DEPTH: 4168'

ROTARY TOTAL DEPTH: 4170'

COMMENCED: 12/13/90

ELEVATION: 2652' K.B.

COMPLETED: 12/21/90

CASING: 8-5/8" @ 292' w/200 sks cement
4-1/2" @ 4164' w/140 sks cement (bottom stage)
w/400 sks cement (top stage)
DV Tool @ 2336'

STATUS: Oil Well

DEPTHS & FORMATIONS

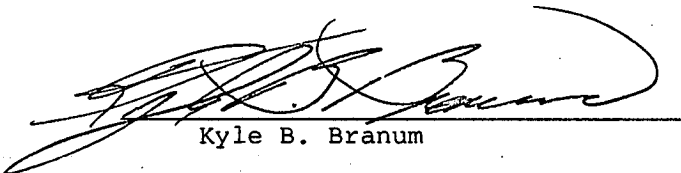
(All measurements from K.B.)

Shale	295'	Shale	2860'
Sand & Shale	350'	Shale & Lime	3075'
Cedar Hills Sand	1910'	Lime & Shale	3906'
Red Bed	2080'	Lime	4068'
Lime & Shale	2326'	Lime & shale	4096'
Anhydrite	2305'	R.T.D.	4170'
Lime & Shale	2350'		

FEB 26 1991

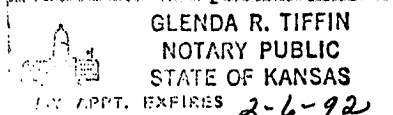
STATE OF KANSAS)
) ss
COUNTY OF RUSSELL)

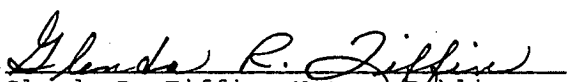
Kyle B. Branum, of Emphasis Oil Operations, states that the above and foregoing is a true and correct log of the above captioned well, to the best of his knowledge.


Kyle B. Branum

Subscribed and sworn to before me on December 31, 1990.

My commission expires: February 6, 1992.




Glenda R. Tiffin, Notary Public



RELEASED

BOA 9-10
DALLAS, TX 75201-104

ORIGINAL HALLIBURTON SERVICES

INVOICE

MAR 05 1972

INVOICE NO.

DATE

A Halliburton Company

FROM CONFIDENTIAL 104424

12/21/71

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
PFEIFER 3		SHERIDAN		KS	NATIONAL
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE			TICKET DATE
ODERLIN	EMPHASIS DRUG	CEMENT PRODUCTION CASING			12/21/71
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE
623541	BILL LUCK			COMPANY TRUCK	07

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

DIRECT CORRESPONDENCE TO:
FIRST OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	MILEAGE	45	MI	2.35	105.75
000-118	MILEAGE SURCHARGE-CEMENT-LAND	45	MI	.40	18.00
007-013	MULT STAGE CEMENTING-1ST STAGE	4165	FT	1,200.00	1,200.00
001-016		1	UNT		
007-161	MULT STAGE CEMENTING-ADD STAGE	1	STG	950.00	950.00
		1	UNT		
018-317	SUPER FLUSH	11	SK	74.00	814.00
26	INSERT VALVE F. S.- 4 1/2"	1	EA	216.00	216.00
847.6316					
40	CENTRALIZER 4-1/2" MODEL S-4	7	EA	41.00	287.00
807.93004					
320	CEMENT DASKET 4 1/2"	1	EA	85.00	85.00
800.8881					
350	HALLIBURTON WELD-A	1	LB	11.00	11.00
890.10802					
27	FILL-UP UNIT 4 1/2" 5"	1	EA	27.50	27.50
815.19111					
71	MULT STAGE CMTR-4-1/2 BRD	1	EA	2,350.00	2,350.00
813.80100					
75	PLUG SET 4 1/2"	1	EA	330.00	330.00
812.0112					
504-308	STANDARD CEMENT	140	SK	6.75	945.00
509-968	SALT	606	LB	.10	60.60
508-127	CAL SEAL	7	SK	19.70	137.90
507-970	D-AIR 1, POWDER	35	LB	2.55	89.25
507-775	HALAD-322	66	LB	5.75	379.50
504-308	STANDARD CEMENT	114	SK	6.75	769.50
506-105	POZMIX A	61	SK	3.50	213.50
506-121	HALLIBURTON-GEL 2%	3	SK	.00	N/C
507-277	HALLIBURTON-GEL BENTONITE	12	SK	13.75	165.00

FEB 26 1991

***** CONTINUED ON NEXT PAGE *****

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.



REMIT TO
 P.O. BOX 951046
 DALLAS, TX 75395-1046
 MAR 05 1992

HALLIBURTON SERVICES ORIGINAL

A Halliburton Company

INVOICE

INVOICE NO.	DATE
904424	12/21/1990

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
AAR 3		SHERIDAN		KS	NATIONAL	
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE			TICKET DATE	
ELIN	EMPHASIS DRLG	CEMENT PRODUCTION CASING			12/21/1990	
LT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.	
	BILL LUCK			COMPANY TRUCK	07434	

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

DIRECT CORRESPONDENCE TO:
 FIRST OKLAHOMA TOWER
 210 WEST PARK AVENUE
 SUITE 2050
 OKLAHOMA CITY, OK 73102-5601

INVOICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
185	ECONOLITE	304	LB	.90	273.60 *
210	FLOCELE	44	LB	1.30	57.20 *
310	HALLIBURTON LIGHT W/STANDARD	225	SK	6.10	1,372.50 *
210	FLOCELE	56	LB	1.30	72.80 *
307	BULK SERVICE CHARGE	589	CFT	1.10	647.90 *
306	MILEAGE CMTG MAT DEL OR RETURN	1180.49	TMI	.75	885.37 *
307	MILEAGE SURCHARGE-CEMENT, MAT.	1180.49	TMI	.10	118.05
968	SALT	200	LB	.10	20.00
INVOICE SUBTOTAL					12,601.92
DISCOUNT-(BID)					2,493.17
INVOICE BID AMOUNT					10,108.75
*-KANSAS STATE SALES TAX					316.72
*-DECATUR COUNTY SALES TAX					74.53
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$10,500.00

STATE OF KANSAS
 FEB 26 1991

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.

Confid.

FROM CONFIDENTIAL

A 1906 R-11

L NO. - FARM OR LEASE NAME #3 Pfeifer		COUNTY Sheridan	STATE KS.	CITY / OFFSHORE LOCATION	DATE 12-21-90
WELL TO National Petroleum Reserves		OWNER Same	TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>		NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS		CONTRACTOR Emphasis Drlg.	LOCATION 1 Oberlin, Ks. 25529		CODE
STATE, ZIP		SHIPPED VIA 4718 2591-5018	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT		LOCATION 2
WELL TYPE 01	WELL CATEGORY 01	WELL PERMIT NO. B- 822386	DELIVERED TO 5 Studley, Ks.		LOCATION 3
JOB AND PURPOSE OF JOB 35 Cement 2-Stage		ORDER NO.	REFERRAL LOCATION		CODE

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 arising out of or from 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, 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		
000-111		1		MILEAGE 2591	45	mi.			2.35	105.75
000-118		1		Mileage Surcharge	45	mi.			.40	18.00
007-013	001-016	1		Pump Charge	416.5	ft.			1200.00	1200.00
007-161		1		Pump Charge (2nd Stage)	1	ea.			950.00	950.00
008-317		1		Super Flush	11	SKS.			74.00	814.00
026	847.6316	1		Insert Float Shoe	1	ea.	4 1/2	IN.	216.00	216.00
040	807.93004	1		5-4 Centralizer	7	ea.	4 1/2	IN.	41.00	287.00
0320	800.8881	1		Cement Basket	1	ea.	4 1/2	IN.	85.00	85.00
0350	890.10802	1		Halliburton weld 'A'	1	ea.			11.00	11.00
027	815.19111	1		Auto-Fill Assembly	1	ea.	1.0	IN.	27.50	27.50
071		1		Multiple Stage Cementer	1	ea.	4 1/2	IN.	2350.00	2350.00
075	812.0112	1		Two Stage Freefall Plug Set	1	ea.	4 1/2	IN.	330.00	330.00

RECEIVED
 STATE COMMISSION
 MAR - 4 1992

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. B- 822386 SUBTOTAL 6353.92

1. JOB SATISFACTORILY COMPLETED? _____
 2. OPERATION OF EQUIPMENT SATISFACTORY? _____
 3. PERFORMANCE OF PERSONNEL SATISFACTORY? _____
 CUSTOMER OR HIS AGENT (PLEASE PRINT)
 CUSTOMER OR HIS AGENT (SIGNATURE)

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

Eldon Reynolds
 HALLIBURTON OPERATOR

HALLIBURTON APPROVAL

CUSTOMER

SUB TOTAL

APPLICABLE TAXES WILL BE ADDED ON INVOICE.



HALLIBURTON SERVICES

Duncan, Oklahoma 73533

A Division of Halliburton Company

BULK MATERIALS DELIVERY ORIGINAL AND TICKET CONTINUATION

RELEASED

FOR INVOICE AND TICKET NO.

904424-4

MAR 05 1992

DATE 12-21-90	CUSTOMER ORDER NO.	WELL NO. AND FARM Pfeifer 3	COUNTY Sheridan	STATE KS
CHARGE TO National Petroleum Reserves	OWNER Nat Pet Reserves	CONTRACTOR Emphasis	No. B822386	
MAILING ADDRESS	DELIVERED FROM Oberlin, KS	LOCATION CODE 25529	PREPARED BY [Signature]	
CITY & STATE	DELIVERED TO S/Studley	TRUCK NO. 4719-50181	RECEIVED BY [Signature]	

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
		L	D		QTY.	MEAS.	QTY.	MEAS.		
501-308		1	B	Standard Cement	140	Sk.			6.75	945.00
509-9108		1	B	Self Granulated	100	lb.			1.10	110.00
508-127		1	B	Cl-Seal	7	Sk.			19.70	137.90
507-970		1	B	D-Air	35	lb.			2.55	89.25
507-775		1	B	Holard 322	16	lb.			23.75	379.50
501-308		1	B	Standard Cement	114	Sk.			6.75	769.50
506-105		1	B	Pro Mix 'A'	61	Sk.			3.50	213.50
506-121		1	B	(3) Halliburton Gel Alkoxal 2%						NK
507-277		1	B	Halliburton Gel Added 8%	12	Sk.			13.75	165.00
507-285		1	B	Econalite	304	lb.			1.90	578.40
507-210		1	B	Flocele	44	lb.			1.30	57.20
504-316		1	B	Halliburton Light Cement	225	Sk.			6.75	1518.75
507-210		1	B	Flocele	56	lb.			1.30	72.80
509-9108		1	B	Self Granulated (on Side)	200	lb.			1.10	220.00
500-207		1	B	SERVICE CHARGE					1.10	64.70
500-306				Mileage Charge	52.4	lb.			1.75	91.70
500-307	Surcharge			TOTAL WEIGHT	45	LOADED MILES	1180.49	TON MILES	1.10	118.05
No. B 822386									CARRY FORWARD TO INVOICE	SUB-TOTAL
									16353	92

MAR 05 1992

WELL DATA
FIELD _____ SEC. 23 TWP. 9S RNG. 26N COUNTY Sheridan 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 4196'

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	10.5	4 1/2"	FROM KB	TO 976'S	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT-COLLAR <u>Auto-Fill</u>	<u>1.0</u>	<u>1ea. Halco</u>
FLOAT SHOE <u>Incert</u>	<u>4 1/2</u>	<u>1ea</u>
GUIDE SHOE <u>Crit. Bskt.</u>	<u>4 1/2</u>	<u>1ea</u>
CENTRALIZERS <u>S-4</u>	<u>4 1/2</u>	<u>7ea</u>
BOTTOM-PLUG <u>Halliburton w/1</u>	<u>1ea</u>	
TOP-PLUG <u>Du Plug Set</u>	<u>4 1/2</u>	<u>1ea</u>
HEAD <u>Multi-Stage Cntr.</u>	<u>4 1/2</u>	<u>1ea</u>
PACKER		
OTHER		

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>12-21-90</u>	DATE <u>12-21-90</u>	DATE <u>12-21-90</u>	DATE <u>12-21-90</u>
TIME <u>0700</u>	TIME <u>1255</u>	TIME <u>1505</u>	TIME <u>1955</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 _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>E. Reynolds</u>	<u>10117-400</u>	<u>Oberlin, KS.</u>
<u>J. A. Strom</u>	<u>2511</u>	<u>Oberlin, KS.</u>
<u>J. Turner</u>	<u>811</u>	<u>Oberlin, KS.</u>
<u>D. Gowen</u>	<u>4118</u>	<u>Oberlin, KS.</u>
<u>D. Gowen</u>	<u>811</u>	<u>Oberlin, KS.</u>
<u>D. Gowen</u>	<u>5081</u>	<u>Oberlin, KS.</u>
<u>G. Bryant</u>		<u>Oberlin, KS.</u>
<u>T. Garrison</u>	<u>Supervisor</u>	<u>Oberlin, KS.</u>

DEPARTMENT Cementing
DESCRIPTION OF JOB Cement 4 1/2" 2-stage
JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN
CUSTOMER REPRESENTATIVE X D. J. R.
HALLIBURTON OPERATOR Edwin Reynolds COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>140</u>	<u>EA-2</u>			<u>10% Salt - 25 D-Air - 5 Haled 322</u>	<u>1.33</u>	<u>15.4</u>
<u>2</u>	<u>175</u>	<u>HDL</u>			<u>1/4" Floccle</u>	<u>3.62</u>	<u>10.7</u>
<u>2</u>	<u>225</u>	<u>HLC</u>			<u>1/4" Floccle</u>	<u>1.84</u>	<u>12.7</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 42.25 REASON Shoe Joint

SUMMARY

VOLUMES
PRESLUSH: BBL-GAL 20.0 TYPE Soft Wash - Super Wash
LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____
TREATMENT: BBL-GAL _____ DISP. BBL-GAL _____
CEMENT SLURRY: BBL-GAL 33.2 TOTAL 972.8 113.7 DISPOSITION _____
TOTAL VOLUME: BBL-GAL _____
REMARKS See Job Log & Chart
Cement did Circulate (20 SKS.)
Thank you

ORIGINAL

DISTRICT Hays, KS FROM CONFIDENTIAL 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 Reserves (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. #3 LEASE Pfiefer SEC. 23 TWP. 9S RANGE 26^W

FIELD _____ COUNTY Sheridan STATE Ks. OWNED BY Nat. Pet. Reserves

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 <u>DV. Tool</u>	SET AT <u>2330'</u>						
TOTAL DEPTH <u>4169'</u>	MUD WEIGHT						
BORE HOLE <u>7 7/8"</u>							SHOTS/FT.
INITIAL PROD: OIL _____ BPD, H ₂ O _____ BPD, GAS _____ MCF							
PRESENT PROD: OIL _____ BPD, H ₂ O _____ BPD, GAS _____ MCF							
CASING		<u>N</u>	<u>10.5</u>	<u>4 1/2"</u>	<u>KB</u>	<u>4165'</u>	
LINER							
TUBING							
OPEN HOLE							
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

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

Cement 4 1/2" 2-Stage w/ 20 bbl. 3% salt flush - 450 gal. Super flush - 140 SKS. EA-2 with 10% salt .25 D Air -.5% Halad 322 - 2nd Stage w/ 175 SKS. HDL w/ 1/4" Floccle/SK 225 SKS. HLC w/ 1/4" Floccle/SK.

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
- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list, to be made available NET by the 20th of the following month for each of invoice. Upon 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 to Halliburton at the highest legal 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 such legal costs and all 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 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 well owner's 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 a reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with, 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 herein shall not be limited to those set forth above and shall apply to claims or damages caused or contributed to by negligence, strict liability, or the negligent or unseaworthiness of any vessel owned, operated or chartered by Halliburton or any defect in the data, products, supplies, materials, or equipment of 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 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 this contract shall mean Halliburton, its 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 supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart and operation research analysis, logs or formation data or other data furnished by Halliburton. Halliburton 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 in it the same are free from defects in workmanship and material. 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 to return damaged or unusable supplies or materials 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, 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, at its option, 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 use, 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 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 [Signature] CUSTOMER
DATE 12-21-90
TIME 1400 A.M. (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