

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

API NO. 15- 179-21,019-0000
County Sheridan
SW - NW - Sec. 24 Twp. 9S Rge. 26 X E

Operator: License # 9482
Name: National Petro. Reserves, Inc.
Address: 250 N. Rock Rd., #340
City/State/Zip Wichita, KS 67206

2900 Feet from S (circle one) Line of Section
4950 Feet from E (circle one) Line of Section

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

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)
Lease Name Epler 'B' Well # 1
Field Name EPLER

Contractor: Name: Emphasis Oil Operations
License: 8241
Wellsite Geologist: Dan DeBoar

Producing Formation Lansing-Kansas City 'K' zone
Elevation: Ground 2650' KB 2655'
Total Depth 4170 PBTD 4126'

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

Amount of Surface Pipe Set and Cemented at 260 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 2276' Feet
If Alternate II completion, cement circulated from 2276'
feet depth to surface w/ 305 sx cmt.

If Workover/Re-Entry: old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
Deepening _____ Re-perf. _____ Conv. to Inj/SWD _____
Plug Back _____ PBTD _____
Commingled _____ Docket No. _____
Dual Completion _____ Docket No. _____
Other (SWD or Inj?) _____ Docket No. _____
8/27/91 9/4/91 9-14-91
Spud Date Date Reached TD Completion Date

Drilling Fluid Management Plan 9-26-91
(Data must be collected from the Reserve Pit)
Chloride content 12,000 ppm Fluid volume est. 90 bbls
Dewatering method used natural dehydration
Location of fluid disposal if hauled offsite: _____
Operator Name _____
Lease Name _____ License No. _____
Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W
County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held 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 geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Susan E. Bredehoff
Title President Date 9/24/91
Subscribed and sworn to before me this 24 day of Sept, 19 91.
Notary Public Susan E. Bredehoff
Date Commission Expires 5-13-93

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

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep Other
 KGS Plug Other
RECEIVED
STATE CORPORATION COMMISSION
(Specify)
SEP 26 1991
Form ACO-1 (7-91) 9-26-91

Operator Name National Petro. Reserves, Inc. Lease Name Epler 'B' Well # 1

Sec. 24 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 Yes No
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)

List All E.Logs Run: Comp. Nuutron/density
 Dual Induction
 Sonic cement cor. bond log

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum		<input type="checkbox"/> Sample
Name	Top	Datum	
Anhydrite	2288 +360		
Heebner	3852 -1204		
Toronto	3876 -1228		
Lansing	3891 -1243		
Base/K.C.	4120 -1472		
TD	4169 -1521		

CASING RECORD <input 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"	20.5#	260'	common	180	3%gel 3%cc
Production	7 7/8"	5 1/2"	12.5#	4170'	EA-2	100	3%gel 3%cc

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type	Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
3	4085-4090	2,500 gal 15% NE W/AS-7	4085-90

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		2 3/8"	4110'					
Date of First, Resumed Production, SWD or Inj.			Producing Method					
9-15-91			<input type="checkbox"/> Flowing <input checked="" 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
	73		Tstm		0			34

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

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval: 4085-90

ORIGINAL

3860

RELEASED

NOV 7 1993

FROM CONFIDENTIAL

LS, s/s chgs, pntxl Ø N.S.

SH, ggsen mss

LS, s/s o/c ch. chky, chky, pntxl Ø N.S.

SH, chgy-blk, rty.

DOB, crm-tan, m/nd, mic-Fxl, s/s, Fr-g intxl Ø N.S.

LS, Crm-wh, lts, m-wind, micxl, o/c for, pntxl Ø N.S.

SH, mss-955ra.

LS, s/s p-Fxl intxl Ø N.S.

LS, Crm-wh, m/nd, micxl, o/c-act for, Fr-g intxl-Fox Ø N.S.

SH, blk, p/ta, cack

LS, crm wind, pntxl Ø N.S.

SH, gy-red, s/s, o/c s/s

SH, s/s o/c s/s - s/s

LS, Crm-wh, mic-Fxl, o/c crs xl, Fos frags, o/c for intxl Ø, No odor, F.S.F.O. off l/bm-d/bm s/s (spotty) spots gel. floor slow-mud gel. string cuts

LS, wh-crm, m/nd, micxl, o/c for, p-Fxl intxl Ø, o/c p/ta, v. lat odor, F.S.F.O. o/c brn spots s/s, o/c-act gel. spots floor, slow-mud gel. string cuts.

LS, wh-crm, m-wind, micxl, o/c ch. chky, pntxl Ø N.S.

SH, ggsen-mss, red, s/s

LS, Crm-wh, lts, m-wind, micxl, s/s chky, o/c oal, p-Fxl intxl Ø, v. lat odor, F.S.F.O. (gray) scst o/c s/s brn s/s, d-l gel. spots floor, slow string-dil cuts.

SH, brn - s/s

LS, Crm-wh, m-wind, mic-Fxl, o/c for, p-Fxl intxl-Fox Ø, o/c p/ta, lat odor, F.S.F.O. (gray) scst spots abn s/s, dull gel spots floor, slow-mud gel. string cuts.

LS, wh o/c for, p-Fxl intxl Ø, PPA show s/s

SH, blk-chgy, LS, s/s chgy, pntxl Ø N.S.

SH, ggsen-mss

LS, lts, Crm-wh, m-wind, micxl, o/c Fos frags, o/c ch. pntxl-Fox Ø, o/c p/ta N.S.

LS, blk o/c for, o/c mxl, v. chky, p-Fxl intxl Ø, p-Fxl intxl Ø, o/c p/ta, lat odor, F.S.F.O. (gray) scst brn s/s, d-l scst, pin-point gel. floor, slow string-dil gel. cuts.

LS, wh-crm, m/nd, o/c wind, mic-Fxl, o/c for, chky, p-Fxl intxl-Fox Ø, o/c s/s, No odor, F.S.F.O. scst spots s/s, spots gel. floor, slow string cuts.

LS, wh-crm, m-wind, o/c ch. chky, micxl, whs, pntxl Ø, o/c at 16 N.S.

DST #1 3860-3902 15-15-15-15

1st Open: v. wk. blow died in 8 min. 2nd Open: No blow, flushed, weak blow died in 1 min.

REC- 10' mud

Pressures: IH: 1898° IFF: 36-29°/15 ISIP: 739°/15 FFP: 36-29°/15 FSIP: 652°/15 FH: 1855° BHT: 108°

Pressure drop, hole in drill pipe, short trip.

9/11/91 WT: 8.8 Vis 4.3 WL 10.4 chl. 2,000

DST #2 3905-3930 15-15-15-15

1st Open: v. wk. blow throughout 2nd Open: v. wk. blow throughout REC- 15' mud w/ few spots of oil, good show of oil in tool.

Pressures: IH: 1912° IFF: 21-21°/15 ISIP: 674°/15 FFP: 50-21°/15 FSIP: 660°/15 FH: 1862° BHT: 109°

DST #3 3925-3950 15-15-15-15

1st Open: v. wk. blow for 12 min. 2nd Open: No blow, flushed tool, wk. blow for 2 min.

REC- 5' mud Pressures: IH: 1998° IFF: 36-21°/15 ISIP: 21°/15 FFP: 21-29°/15 FSIP: 21°/15 FH: 1876°

number 50 3854

(-1206)

run to 3879

(-1231)

ansing 3893

(-1245)

900 A ZONE

35' ONE

50' ONE

50

70' ZONE

90' ZONE

00' ZONE

CAS 30460 STEP 17 Surface Area

CAS 30460

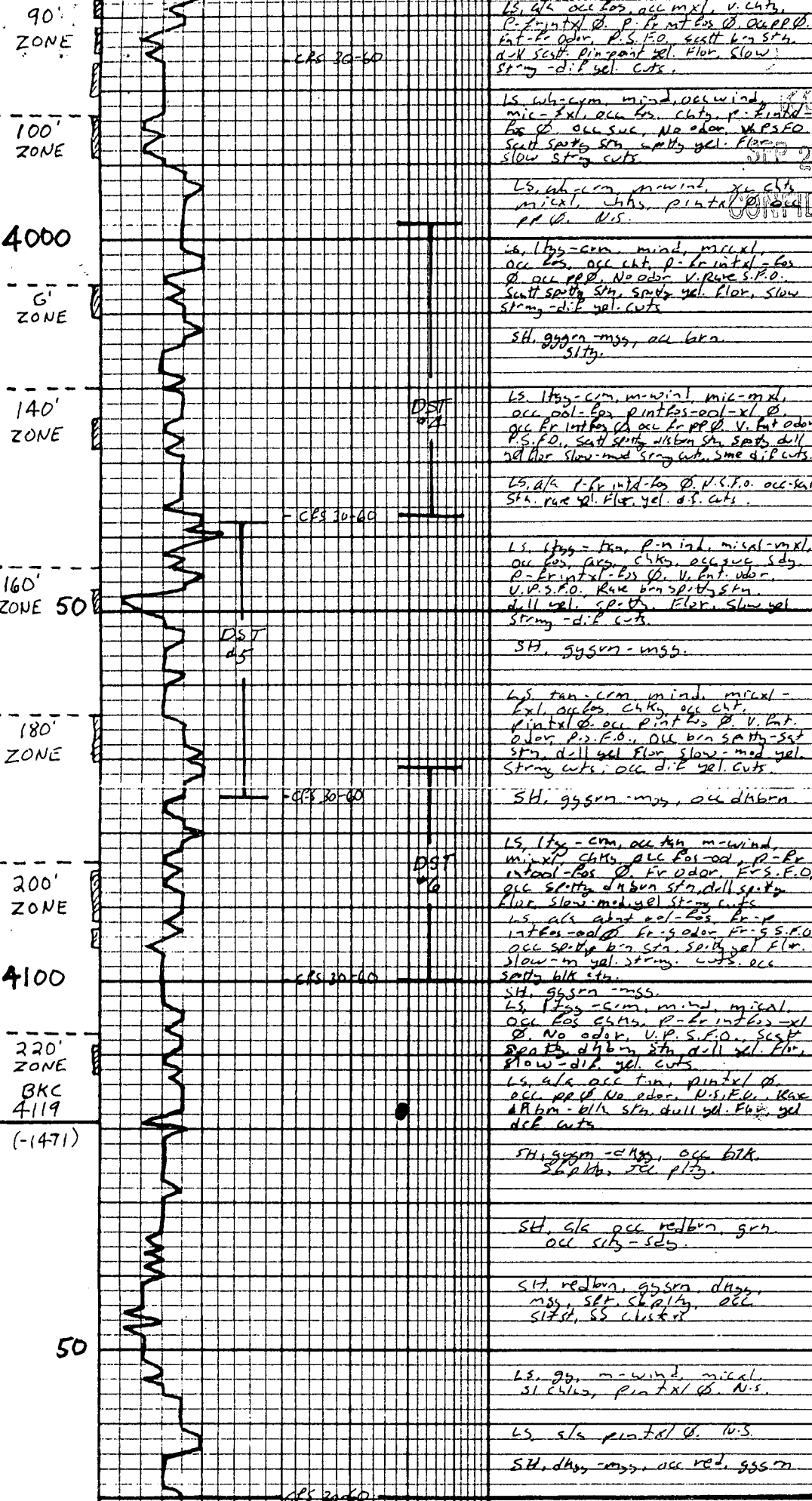
CAS 30460

CAS 30460

DST #1

DST #3

DST #2



1st Open: V. wk blow 10' to 15'

2nd Open: No blow, flushed tool, wk. blow 2 min.

REC- 5' mud

Pressures: IH: 1998°
IFP: 36-21 1/15
ISIP: 21 1/15
FFP: 21-29 1/15
FSIP: 21 1/15
FH: 1876°
BHT: 109°

DST #4 3998-4037
30-30-60-60

1st Open: Bottom of bucket in 85 sec, gas to surface.

2nd Open: Bottom of bucket in 2 1/2 min. Gas to surface. Gused 2.9 - 5.32 mcl

REC- 220' cl gassy oil (42.5% grav.)
60' sl muddy gassy oil (52%, 78%, 20% m)
60' sl muddy gassy oil (10%, 62%, 30% m)
340' T-T-1 Rec.

9/4/91 Pressures: IH: 1984°
IFP: 72-87 1/30
ISIP: 195 1/30
FFP: 108-144° 30
FSIP: 210 1/60
FH: 1799°
BHT: 112°

Vis 43
Wt 9.0
WL 10.9
chl 3,000

DST #5 4038-4075
30-30-45-45

1st Open: Fair blow - 14" in bucket.

2nd Open: Fair blow to bottom of bucket in 35 min.

REC- 1950' GFF
50' org mud (45% o, 55% m)
50' org mud (35% o, 52% m, 70% m)
100' Total Rec

Pressures: IH: 1984°
IFP: 50-50 1/30
ISIP: 159 1/30
FFP: 72-65 1/45
FSIP: 217 1/45
FH: 1941°
BHT: 111°

DST #6 4071-4100
30-30-45-60.

1st Open: Good blow to bottom of bucket in 5 min.

2nd Open: Good blow to bottom of bucket in 11 min.

REC- 1345' GFF
340' cl go (35% grav.)
30' mso (30% o, 40% o, 30% m)
60' mso (30% o, 25% o, 45% m)
430' Total Rec.

Pressures: IH: 2027°
IFP: 65-108 1/30
ISIP: 340 1/30
FFP: 123-166 1/45
FSIP: 347 1/60
FH: 1955°
BHT: 112°

Vis 46
Wt 9.1
WL 10.4
chl 3,000

T.O. @ 4170 Resched
@ 5:39 am, on 9/4/91.

RTD 4170'
LTD 4169'

ORIGINAL

KCC

SEP 25

ORIGINAL

CONFIDENTIAL

EMPHASIS OIL OPERATIONS

P. O. BOX 506

RUSSELL, KS 67665

RELEASED
OCT 07 1992
FROM CONFIDENTIAL

DRILLERS LOG

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

CONTRACTOR: Emphasis Oil Operations
Box 506
Russell, KS 67665

LEASE: Epler 'B'

WELL #1

LOCATION: 70' S of SW SW NW
Section 24-9S-26W
Sheridan County, Kansas

LOGGERS TOTAL DEPTH: 4169'

ROTARY TOTAL DEPTH: 4170'

COMMENCED: 8/27/91

ELEVATION: 2655' K.B.

COMPLETED: 9/4/91

CASING: 8-5/8" @ 260' w/185 sks cement
5-1/2" @ 4165' w/100 sks cement (Bottom Stage)
w/305 sks cement (Top Stage)

STATUS: Oil Well

RECEIVED
STATE CORPORATION COMMISSION

SEP 26 1991

CONSERVATION COMMISSION
Wichita, KS 67202

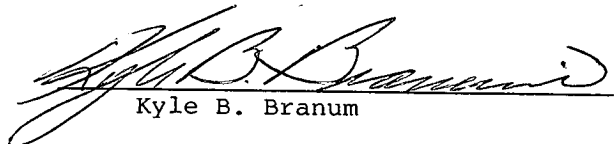
DEPTHS & FORMATIONS

(All measurements from K.B.)

Top Soil, Sand & Sahle	262'	Heebner	3854'
Sand & Shale	911'	Toronto	3879'
Red Bed	2070'	Lansing-Kansas City	3893'
Anhydrite	2289'	Base Kansas City	4130'
Red Bed	2325'	R.T.D.	4170'
Topeka	3645'		

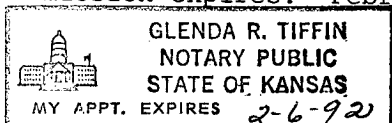
STATE OF KANSAS)
) ss
COUNTY OF RUSSELL)

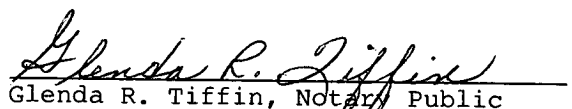
Kyle B. Branum, of Emphasis Oil Operations, states that the above and foregoing is a true and correct log of the above captioned well, to the best of his knowledge.


Kyle B. Branum

Subscribed and sworn to before me on September 6, 1991.

My commission expires: February 6, 1992.




Glenda R. Tiffin, Notary Public

CONFIDENTIAL

A Division of Halliburton Company

FROM CONFIDENTIAL

ORIGINAL

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME #1 LPIEN 'B'		COUNTY SHELBY CO	STATE OK	CITY / OFFSHORE LOCATION	DATE 7-4-91
CHARGE TO NATIONAL PET. RES.		OWNER NATIONAL PET. RES.	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 Rig 7	LOCATION 1 Okmulgee		CODE 25579
CITY, STATE, ZIP		SHIPPED VIA 19758-0196	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT		LOCATION 2
WELL TYPE 01	WELL CATEGORY 02	WELL PERMIT NO.	DELIVERED TO S/Studling, K.C.	LOCATION 3	CODE
TYPE AND PURPOSE OF JOB 035 CONT SKL CS9		B-977829	ORDER NO.	REFERRAL LOCATION	

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only that the products, materials and equipment used in the performance of its services are new and conform to the specifications of the manufacturer. It does not warrant for a particular purpose or otherwise. Halliburton disclaims any liability for damages, whether to contract, tort, product liability, breach of warranty or otherwise, arising out of or in connection with the performance of its services, including the use of its equipment or materials, or the failure of its equipment or materials, or the failure of its equipment or materials to perform as warranted, or the failure of its equipment or materials to perform as warranted, or the failure of its equipment or materials to perform as warranted, or the failure of its equipment or materials to perform as warranted.

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		/		MILEAGE 3579	45	miles			2.60	117.00
007-013	001 016	/		Pump change 1 st stage	4165	FT	8	hrs.		1300.00
007-161		/		Pump change 2 nd stage	2278	FT	8	hrs.		1025.00
018-317		/		Super Flush	11	Bags	115	hrs.	87.00	957.00
26	842.6318	/		IN SENT FLAT VALVE	1	EA	5 1/2	in		245.00
27	815.11311	/		AUTO Fill up	1	EA	1	in		30.00
40	807.93072	/		3-Y CENTRALIZERS	6	EA	5 1/2	in	44.00	264.00
320	800.8883	/		CONT BSKT	1	EA	5 1/2	in		90.00
71	813.90300	/		D.V TOOL	1	EA	5 1/2	in		2450.00
75	813.16510	/		Plug Set	1	EA	5 1/2	in		439.00

THIS IS NOT AN INVOICE

RECEIVED
SEP 26 1991

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. **B-977829** 4723.51

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

X W.S. Luck
CUSTOMER OR HIS AGENT (PLEASE PRINT)

X W.S. Luck
CUSTOMER OR HIS AGENT (SIGNATURE)

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

[Signature]
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL

CUSTOMER

SUB TOTAL 11670.51

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

**BULK MATERIALS DELIVERY
AND
TICKET CONTINUATION**

ORIGINAL
FOR INVOICE AND
TICKET NO. 163369

DATE 9-4-91	CUSTOMER ORDER NO. CONFIDENTIAL	WELL NO. AND FARM B-1 Epler	COUNTY Sheridan	STATE Ks
CHARGE TO National Petro. Res.		OWNER National	CONTRACTOR Emphasis Rig 7	
MAILING ADDRESS		DELIVERED FROM Oberlin, Ks	LOCATION CODE 25529	PREPARED BY vlk
CITY & STATE		DELIVERED TO S/Studley, Ks.	TRUCK NO. 4718 & 0196	RECEIVED BY <i>J. Keenan</i>
No. B 977829				

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
		L	D		QTY.	MEAS.	QTY.	MEAS.			
504-308			1	Standard Cement	100	sk			6.75	675	00
508-127			1	Cal Seal	5	sk			19.70	98	50
509-968			1	Salt Granulated 10%	433	lb			.10	43	30
507-775			1	Halad 322 .5%	47	lb			6.15	289	05
507-970			1	D- AA r .25%	24	lb			2.9555	70	80
504-308			1	Standard Cement	85	sk			6.75	573	75
506-105			1	Pozmix	45	sk			3.90	175	50
506-121			1	Halliburton Gel Allowed 2% (2)							NW
507-775			1	Halliburton Gel Added 8%	10	sk			14.75	147	50
507-285			1	Econolite	226	lb			.90	203	40
507-210			1	Flocele	33	lb			1.30	42	90
504-316			1	Halliburotn Light Cement	175	sk			6.28	1099	00
507-210			1	Flocele	44	lb			1.30	57	20
509-968			1	Salt Granulated (on side)k	300	lb			.10	30	00
				Returned Mileage Charge	TOTAL WEIGHT		LOADED MILES		TON MILES		
				SERVICE CHARGE ON MATERIALS RETURNED					CU. FEET		
500-207				SERVICE CHARGE					443	1.15	509 45
500-306				Mileage Charge	39,342 TOTAL WEIGHT		45 LOADED MILES		885.20 TON MILES	.80	708 16
No. B 977829		CARRY FORWARD TO INVOICE					SUB-TOTAL		4723 51		

SEP 2 5 AND PRE-TREATMENT DATA

ATTACH TO INVOICE & TICKET NO. 163369

DISTRICT Oberlin, K CONFIDENTIAL DATE 9-4-91

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

THE SAME AS AN INDEPENDENT CONTRACTOR TO: NATIONAL PET RES (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1 LEASE EDLEN B SEC. 24 TWP. 9S RANGE 26W

FIELD _____ COUNTY Shirleyan STATE Ks OWNED BY NATIONAL PET RES

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE
FORMATION THICKNESS	FROM TO
PACKER: TYPE <u>D.U. Tool</u>	SET AT <u>2278</u>
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	

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	<u>U</u>	<u>14</u>	<u>5 1/2</u>	<u>KB</u>	<u>4165</u>	
LINER	<u>4</u>		<u>8 5/8</u>	<u>KB</u>	<u>260</u>	
TUBING						
OPEN HOLE			<u>7 7/8</u>	<u>4165</u>	<u>4169</u>	SHOTS/FT
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

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

CUT 5 1/2 CS W/ FLUSH VALVE, NO. BACK - TOP 1ST ST.
CENTRAL GEAR 1, 3, 5, 7, 46, 9, 48 ST, D.U. TOOL TOP #470-2278
CUT BACK FOR #471 1ST ST. W/ D.U. TOOL FLUSH 11 BBS SUPER FLUSH
100% K... 25% ...

CUSTOMER OR HIS AGENT WARRANTS THE WELLS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

- a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
- b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law.
 - 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.
- c) 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.
- 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 [Signature] CUSTOMER

DATE 9-4-91

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 1:00 A.M. / P.M.

CUSTOMER

HALLIBURTON SERVICES
Duncan, Oklahoma 73536

A Division of Halliburton Company

SEP 17 1991

TICKET

NO. 163434-7

FROM CONFIDENTIAL ORIGINAL

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME XXXXXX B-1 Epler		COUNTY Sheridan	STATE KS	CITY / OFFSHORE LOCATION	DATE 09/13/91
CHARGE TO National Petroleum Reserves			OWNER National Pet. Res.	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 250 N. Rock Rd - Suite 340			CONTRACTOR Mueftin Delg Co	LOCATION 1 Oberlin, KS	CODE 25529
CITY, STATE, ZIP Wichita, KS 67206			SHIPPED VIA 3579	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT	LOCATION 2
WELL TYPE 01	WELL CATEGORY 02	WELL PERMIT NO.	DELIVERED TO SW/Studley, KS	LOCATION 3	CODE
TYPE AND PURPOSE OF JOB 145		B-	ORDER NO.	REFERRAL LOCATION	

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
200-000		1		MILEAGE #3579	45	Mi.	1	Unt.	2.60	117.00
200-024		1		Pump Charge	1	Pmp.		PSI.		500.00
203-018	201-004	1		Non-E Acid	2,000	Gal.	15	%	.58	1,160.00
210-004		1		HAI-65	2	Gal.			42.00	84.00
218-726		1		AS-7	4	Gal.			28.00	112.00
218-644		1		15N	10	Gal.			17.50	175.00
218-505		1		Pen-88	2	Gal.			41.00	82.00
203-018	201-004	1		Non-E Acid	500	Gal.	15	%	.58	290.00
210-004		1		HAI-65	1/2	Gal.			42.00	21.00
218-726		1		AS-7	1	Gal.				28.00
218-644		1		15N	2.5	Gal.			17.50	43.75
218-505		1		Pen-88	.5	Gal.			41.00	20.50

NOT AN INVOICE

SEP 26 1991

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

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

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

X W. J. Luck
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.

J. Harrison
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL _____

CUSTOMER

SUB TOTAL _____
APPLICABLE TAXES WILL BE ADDED ON INVOICE.

DISTRICT Hays, KS

CONFIDENTIAL

DATE 09/13/91

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. B-1 LEASE Epler SEC. 24 TWP. 9S RANGE 26W

FIELD SW Shudley COUNTY Sheridan STATE KS OWNED BY National Petroleum Reserves

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME LKC-K TYPE Line

FORMATION THICKNESS FROM TO

PACKER TYPE SET AT

TOTAL DEPTH PB 4125' 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	N	14	5-1/2"	KB	4125	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS				4085	4090	
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE TYPE MATERIALS

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

Treat perfs. as directed using 2500 gal. 15% Non-E Acid containing 2.5 gal. HAI-65, 5 gal. AS-7, 12.5 gal. 15N, 2.5 gal. Pen-88.

New Well

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

- a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default, in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum, in the event it becomes necessary to employ attorneys to enforce collection of said account. Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
- b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
 1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
 2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 3. Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability ever if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
- c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but, Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
- d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS, OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
- e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for 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 [Signature] CUSTOMER

DATE 9/13/91

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