

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

API NO. 15- 023-203490000 **ORIGINAL**

County Cheyenne

40' E. SW - SE - SE Sec. 33 Twp. 4 Rge. 37 X ^E _W

330 Feet from SW (circle one) Line of Section

950 Feet from SW (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Briney Farms Well # 1

Field Name Pianalto South

Producing Formation Pawnee

Elevation: Ground 3381 KB 3388

Total Depth 4800 PBDT 4663

Amount of Surface Pipe Set and Cemented at 332 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan alt I 5-13-96
(Data must be collected from the Reserve Pit) Lu

Chloride content 17,000 ppm Fluid volume 110 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. _____

Operator: License # 9482

Name: National Petroleum Reserves, Inc.

Address 250 N Rock Rd # 130

Wichita, Ks 67206

City/State/Zip _____

Purchaser: KOCH

Operator Contact Person: Ted C Bredehoft

Phone (316) 681-3515

Contractor: Name: Blue Goose Drlg

License: _____

Wellsite Geologist: Dan De Boer

Designate Type of Completion
X New Well _____ Re-Entry _____ Workover _____

X Oil _____ SWD _____ SIOW _____ Temp. Abd.
_____ Gas _____ ENHR _____ SIGW _____
_____ Dry _____ Other (Core, WSW, Expl., Cathodic, etc) _____

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 _____ PBDT
_____ Commingled _____ Docket No. _____
_____ Dual Completion _____ Docket No. _____
_____ Other (SWD or Inj?) _____ Docket No. _____

3/11/95 3/21/95 5/5/95
Spud Date Date Reached TD Completion Date

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 Ted C Bredehoft

Title President Date 6/12/95

Subscribed and sworn to before me this 12th day of JUNE, 19 95.

Notary Public T C Bredehoft

Date Commission Expires 6/30/95

T. C. BREDEHOFT
NOTARY PUBLIC
STATE OF KANSAS
My Comm. Exp. 6/30/95

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
JUN 16 1995
Distribution
✓ KCC _____ SWD/Rep _____ NGPA
KGS _____ Plug _____ Other _____
(Specify)

Operator Name National Petroleum Reserves Lease Name Briney Farms Well # 1

County Cheyenne
 Sec. 33 Twp. 4 Rge. 37 East West

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

Drill Stem Tests Taken 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:

Name	Formation (Top), Depth and Datums		Sample
	Top	Datum	
Base/Anhydrite	3145	+243	
Heebner	4194	-806	
Lansing	4244	-856	
Base/K.C.	4506	-1118	
Pawnee	4634	-1246	
Lwr. Cherokee	4714	-1326	
T.D.	4800		

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#	340	common	280	3% cc
Production	7 7/8"	4 1/2"	9.5#	4703'	EA-2	260	3% cc 2%gel

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
4	4633.5-4638.5	1000 gal 15% NE Acid 4638.5

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8"	4630		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
5/6/95				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity
	32	TSTM	1.67	

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: 4633.5 to 4638.5

ORIGINAL

BRINEY FARMS #1 D.S.T.'s

API #15-023-20349

- DST #1 4197-4290 Tor, Lsg A & 35' zones; 15-15-15-15
Wk surf. blow both opens Rec: 2' cl. oil 35'
mdy oil 40' sl. oil cut mud. 77' total recovery.
FP's 78-89, 111-89 SIP's 1130-988 HP's 2167-2148
- DST #2 4284-4352 Lsg 50' & 100' zones: 15-15-15-15 wk surf
blow, wk blow died 4" Rec: 15 oil sptd mud
FP's 89-78, 89-78 SIP's 656-865 HP's 2245-2201
- DST #3 4362-4438 LSG 120' 140' 180' zones; 30-30-45-60
blow off btm. in 5 min & 11 min. Rec: 190' mdy
SW., 360' sl mdy SW, 1070' SW; 1625' T.F.
FP's 112-189 & 245-612 SIP's 965-943
- DST #4 4605-4650 Altamont C & Pawnee: 30-30-45-60
blow off btm in 3 min. & 11 min. Rec: 20' CGO
290' oil cut mdy SW, 300' SW sl oil cut
FP's 100-156, 234-267 SIP's 1318-not taken, HP's
2378-2360
- DST #5 4624-4650 Pawnee 30-30-45-60 blow off btm in 1.25 min
and 8 min. GTS second open TSTM. Rec: 250' CGO
170' MGO No pressures available due to recorder
failure

RECEIVED
STATE COMMISSION

JUN 1 8 1995

CONSERVATION OF FISH & WILDLIFE
DEPARTMENT OF NATURAL RESOURCES



CHARGE TO:
 NATIONAL PET. INC.
 ADDRESS
 250 N. Rock Road Suite 340
 CITY, STATE, ZIP CODE
 Wichita KS, 67206

COPY

TICKET

No.

599567 - 1

FORM 1906 R-13

PAGE 1 OF 2

SERVICE LOCATIONS 1. Hays 25525	WELL/PROJECT NO. #1	LEASE Briney Farms Cheyenne	COUNTY/PARISH KS	STATE KS	CITY/OFFSHORE LOCATION	DATE 3-21-95	OWNER SAME
2.	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR Blue Goose	RIG NAME/NO. Blue Goose	SHIPPED VIA Location	ORDER NO.	
3.	WELL TYPE 01	WELL CATEGORY 01	JOB PURPOSE 035	WELL PERMIT NO.	WELL LOCATION 33-4-37		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
000-117		1		25	MILEAGE 51797 Rcm "Rt"	108	1			2.75	297.00
001-016		1			Pump Service	4703	ft	1400	AST	1765.00	1765.00
40	806.6004	1			Cent 5.4 "H"	6	ea	4 1/2	IN	50.00	300.00
320	800 8881	1			Basket "H"	1	ea	4 1/2	IN	105.00	105.00
24A	815.19101	1			Insert Float Valve	1	ea	4 1/2	IN	73.00	73.00
27	815.19111	1			Fillup unit	1	ea			45.00	45.00
D30-016		1			5-Wiper Plug "H"	1	ea	4 1/2	IN	45.00	45.00
12A	825.201	1			Guide shoe "B"	1	ea	4 1/2	IN	95.00	95.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE
 X *W J Fush*

DATE SIGNED
 3-20-95

TIME SIGNED
 2050

A.M. P.M.

do do not require IPC (Instrument Protection). Not offered

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		SURVEY		AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL 2725.00
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?					FROM CONTINUATION PAGE(S) 417.15
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
TUBING SIZE	TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
TREE CONNECTION	TYPE VALVE		ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE 6872.15
			<input checked="" type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) B. J. Luck	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) X <i>W J Fush</i>	HALLIBURTON OPERATOR/ENGINEER Allen F. Werth 82101	EMP #	HALLIBURTON APPROVAL
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TERMS AND CONDITIONS

For good and valuable consideration received, Customer (as identified on the face of this document) and Halliburton Energy Services, a division of Halliburton Company (hereinafter "Halliburton") agree as follows:

A. CUSTOMER REPRESENTATION - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton.

B. PRICE AND PAYMENT - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices are exclusive of taxes. If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If Customer has an approved open account, invoices are payable on the twentieth day after the date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

C. RELEASE AND INDEMNITY - CUSTOMER AGREES TO RELEASE HALLIBURTON GROUP FROM ANY AND ALL LIABILITY FOR ANY AND ALL DAMAGES WHATSOEVER TO PROPERTY OF ANY KIND OWNED BY, IN THE POSSESSION OF, OR LEASED BY CUSTOMER AND THOSE PERSONS AND ENTITIES CUSTOMER HAS THE ABILITY TO BIND BY CONTRACT. CUSTOMER ALSO AGREES TO DEFEND, INDEMNIFY, AND HOLD HALLIBURTON GROUP HARMLESS FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, COSTS, EXPENSES, ATTORNEY FEES AND DAMAGES WHATSOEVER FOR PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE AND LOSS RESULTING FROM:

LOSS OF WELL CONTROL; SERVICES TO CONTROL A WILD WELL WHETHER UNDERGROUND OR ABOVE THE SURFACE; RESERVOIR OR UNDERGROUND DAMAGE, INCLUDING LOSS OF OIL, GAS, OTHER MINERAL SUBSTANCES OR WATER; SURFACE DAMAGE ARISING FROM UNDERGROUND DAMAGE; DAMAGE TO OR LOSS OF THE WELL BORE; SUBSURFACE TRESPASS OR ANY ACTION IN THE NATURE THEREOF; FIRE; EXPLOSION; SUBSURFACE PRESSURE; RADIOACTIVITY; AND POLLUTION AND ITS CLEANUP AND CONTROL.

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS WILL APPLY EVEN IF THE LIABILITY AND CLAIMS ARE CAUSED BY THE SOLE, CONCURRENT, ACTIVE OR PASSIVE NEGLIGENCE, FAULT, OR STRICT LIABILITY OF ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, THE UNSEAWORTHINESS OF ANY VESSEL OR ANY DEFECT IN THE DATA, PRODUCTS, SUPPLIES, MATERIALS OR EQUIPMENT FURNISHED BY HALLIBURTON GROUP WHETHER IN THE DESIGN, MANUFACTURE, MAINTENANCE OR MARKETING THEREOF OR FROM A FAILURE TO WARN OF SUCH DEFECT. "HALLIBURTON GROUP" IS DEFINED AS HALLIBURTON, ITS PARENT, SUBSIDIARY, AND AFFILIATED COMPANIES AND ITS/THEIR OFFICERS, DIRECTORS, EMPLOYEES, AND AGENTS. CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS APPLY WHETHER THE PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE OR LOSS IS SUFFERED BY ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, CUSTOMER, OR ANY OTHER PERSON OR ENTITY AND THE CUSTOMER WILL SUPPORT SUCH OBLIGATIONS ASSUMED HEREIN WITH LIABILITY INSURANCE TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW.

D. EQUIPMENT LIABILITY - Customer shall at its risk and expense attempt to recover any Halliburton equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence. If the equipment is not recovered or is irreparable, Customer shall pay the replacement cost, unless caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and shall permit Halliburton to monitor the recovery or abandonment efforts all at no risk or liability to Halliburton. Customer shall be responsible for damage to or loss of Halliburton equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton equipment damaged by corrosion or abrasion due to well effluents.

E. LIMITED WARRANTY - Halliburton warrants only title to the equipment, products, and materials supplied under this agreement and that same are free from defects in workmanship and materials for one year from date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's sole 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, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. 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 EQUIPMENT, MATERIALS, 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 GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed to by Halliburton's negligence or fault. Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

F. GOVERNING LAW - The validity, interpretation and construction of this agreement shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. WAIVER - Customer agrees to waive the provisions of the Texas Deceptive Trade Practices-Consumer Protection Act or any similar federal or state statute to the extent permitted by law.

H. MODIFICATIONS - Customer agrees that Halliburton shall not be bound by any modifications to this agreement, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 5151 San Felipe, Houston, Texas 77056.



TRK 4037-8151
TICKET CONTINUATION

CUSTOMER COPY

TICKET No. 599567

HALLIBURTON ENERGY SERVICES

CUSTOMER NPR	WELL Briney Farms #1	DATE 3-20-95	PAGE 2	OF 2
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FORM 1911 R-10

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
504-316		1	25	B	Halliburton Light Cement	100				7 37	737 00
500-308		1		B	Standard Cement	165				7 82	1,290 30
509-968		1		B	Salt Blended	1050	1b			15	157 50
507-970		1		B	D-Air-1	41	1b			3 25	133 25
507-775		1		B	Halad-322	78	1b			7 00	546 00
508-127		1		B	Gal Seal	8				25 90	207 20
509-968		1		B	Salt on side	200	1b			15	30 00
500-207		1		B	SERVICE CHARGE	CUBIC FEET 295				1 35	398 25
500-306		1		B	MILEAGE CHARGE	TOTAL WEIGHT 26,419	LOADED MILES 54	TON MILES 713.313		95	677 65

ORIGINAL

No. B 285204

CONTINUATION TOTAL 4,177.15
4147 15



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

M.D. Court
Hays Ks

BILLED ON TICKET NO. 599 567

WELL DATA

FIELD _____ SEC 33 TWP. 4 RING. 37 COUNTY Cheyenne 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 4800

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING			4 1/2	KB	4702	
LINER						
TUBING						
OPEN HOLE				4702	4800	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE <u>Insert Float + Fill</u>	<u>1</u>	<u>Houco</u>
GUIDE SHOE <u>Baker 4 1/2</u>	<u>1</u>	<u>Baker</u>
CENTRALIZERS <u>S-4</u>	<u>8</u>	<u>Houco</u>
BOTTOM PLUG		
TOP PLUG <u>4 1/2</u>	<u>1</u>	<u>Houco</u>
HEAD <u>Basket 4 1/2</u>	<u>1</u>	<u>Houco</u>
PACKER		
OTHER		

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>3-20-95</u> TIME <u>1800</u>	DATE <u>3-20-95</u> TIME <u>2035</u>	DATE <u>3-21-95</u> TIME <u>0230</u>	DATE <u>3-21-95</u> TIME <u>0730</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>A. F. Worth 86101</u>	<u>P.H. 40071</u>	<u>HAYS KS</u>
<u>R. Loggler 80719</u>	<u>8151111</u>	<u>HAYS KS</u>
<u>PRC 71010</u>	<u>1037 FOR</u>	<u>HAYS KS</u>
	<u>59311</u>	<u>HAYS KS</u>
	<u>51374</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 Cmt
DESCRIPTION OF JOB cmt 4 1/2 LBS
JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
CUSTOMER REPRESENTATIVE X W J Park
HALLIBURTON OPERATOR A. F. Worth COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>160 SK</u>	<u>EA-2</u>	<u>Poit</u>		<u>5% CAL. WGT., 25% D-AIR, 15% WGT. / 1000</u>	<u>1.36</u>	<u>15.8</u>
	<u>100 SK</u>	<u>HLC</u>	<u>Poit</u>	<u>B</u>		<u>1.97</u>	<u>12.4</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL.-GAL. _____ TYPE _____
BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 25.6
SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN. _____ CEMENT SLURRY: BBL.-GAL. 75
HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____
ORDERED _____ AVAILABLE _____ USED _____
AVERAGE RATES IN BPM _____
TREATING _____ DISPL. _____ OVERALL _____
CEMENT LEFT IN PIPE _____
FEET 35.40 REASON Shoe Joint

REMARKS

See Job Log + chart
thanks Allen, Roger, Allen
JUN 1 1995

FIELD OFFICE

HALLIBURTON WICHITA, KANSAS

CUSTOMER: MPR INC
LEASE: Briney Farms
WELL NO.: #
JOB TYPE: 4 1/2 L.S.
DATE: 3-21-95



JOB LOG HAL-2013-C

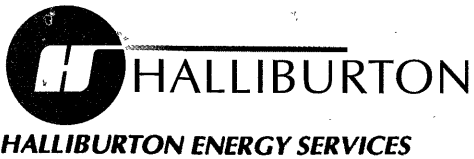
CUSTOMER: NPR. WELL NO.: #1 LEASE: Brimley Farms 4 1/2 L.S. JOB TYPE: TICKET NO.: 599567

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
1	1800							called out
	2035							on location w/ Float Equip. 1- Guide shoe, 1- insert w/ Fillup, 6- cent, 1- Basket - 1- S-wiper plug. setup + Plan Job.
	2200							start laying down Drill Pipe Ramp truck, + Bulk Truck on Loc.
	0145							1655 Ks EA-2 5% cal seal, 125 D-AE 15% salt 1 1/2% Halad 322 100 SKs HLC
	0230							out of Hole w/ Drill Pipe Rig up to Run casing 4 1/2"
	0530							start casing + Float Equip. csg on bottom
	0545							Hookup + c.r. w/ mud Hog
			35					700' St. mix 100 SKs HLC Fin mix HLC
			40					200' St. mix EA-2 Fin mix EA-2
								wash out Pump + Line Release S-wiper Plug
	0645		76					200' start D.S.P. 1400 Fin Disp.
								0# Release OK. wash up Equip Job complete
	0730							well c.r. during Job

ORIGINAL

STATE COMMISSIONER
JUN 1 1995

Thanks Allan,
Roger, Pac



CHARGE TO: Normal Production Service
 ADDRESS: 253 N. Park Road Suite 200
 CITY, STATE, ZIP CODE: Little Rock AR 72206

COPY: 1
 No. **599598 - X**
 PAGE 1 OF 2

FORM 1906 R-13

1. SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY/OFFSHORE LOCATION	DATE	OWNER
<u>253 N. Park Road Suite 200</u>	<u>1</u>	<u>Blind-9-8-10</u>	<u>Arkansas</u>	<u>Ks</u>		<u>3-12-75</u>	<u>Sims</u>
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.
3.			<u>Sims</u>	<u>3</u>	<u>10156870118</u>		
4.	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION		
REFERRAL LOCATION	INVOICE INSTRUCTIONS						
	<u>01</u>	<u>01</u>	<u>070</u>		<u>30-4-37</u>		

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<u>200-117</u>		<u>1</u>			<u>MILEAGE # 51374</u>	<u>119</u>	<u>MI</u>	<u>4</u>		<u>2.35</u>	<u>279.65</u>
<u>209-704</u>	<u>509-017</u>	<u>1</u>			<u>June 2 1974</u>	<u>341</u>	<u>FT</u>				<u>67.10</u>
<u>300-053</u>		<u>1</u>			<u>L A 11</u>	<u>100</u>	<u>7 1/2</u>	<u>MI</u>		<u>95.00</u>	<u>9500</u>

ORIGINAL

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE X	SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN	SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	<u>1062.00</u>
DATE SIGNED <u>3-12-75</u>	TIME SIGNED <input type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M.	TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?		FROM CONTINUATION PAGE(S)	<u>945.99</u>
		BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?			
		TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
		TUBING SIZE	TUBING PRESSURE	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
		TREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO		SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	<u>2010.71</u>
I <input type="checkbox"/> do <input type="checkbox"/> do not require IPC (Instrument Protection). <input checked="" type="checkbox"/> Not offered				<input checked="" type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) <u>Edward Sims</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) X	HALLIBURTON OPERATOR/ENGINEER <u>Ken Williams</u>	EMP # <u>59734</u>	HALLIBURTON APPROVAL <u>John H. ...</u>
---	--	--	-----------------------	--

2570 Cont'd BM

TERMS AND CONDITIONS

For good and valuable consideration received, Customer (as identified on the face of this document) and Halliburton Energy Services, a division of Halliburton Company (hereinafter "Halliburton") agree as follows:

A. **CUSTOMER REPRESENTATION** - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton.

B. **PRICE AND PAYMENT** - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices are exclusive of taxes. If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If Customer has an approved open account, invoices are payable on the twentieth day after the date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

C. **RELEASE AND INDEMNITY** - CUSTOMER AGREES TO RELEASE HALLIBURTON GROUP FROM ANY AND ALL LIABILITY FOR ANY AND ALL DAMAGES WHATSOEVER TO PROPERTY OF ANY KIND OWNED BY, IN THE POSSESSION OF, OR LEASED BY CUSTOMER AND THOSE PERSONS AND ENTITIES CUSTOMER HAS THE ABILITY TO BIND BY CONTRACT. CUSTOMER ALSO AGREES TO DEFEND, INDEMNIFY, AND HOLD HALLIBURTON GROUP HARMLESS FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, COSTS, EXPENSES, ATTORNEY FEES AND DAMAGES WHATSOEVER FOR PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE AND LOSS RESULTING FROM:

LOSS OF WELL CONTROL; SERVICES TO CONTROL A WILD WELL WHETHER UNDERGROUND OR ABOVE THE SURFACE; RESERVOIR OR UNDERGROUND DAMAGE, INCLUDING LOSS OF OIL, GAS, OTHER MINERAL SUBSTANCES OR WATER; SURFACE DAMAGE ARISING FROM UNDERGROUND DAMAGE; DAMAGE TO OR LOSS OF THE WELL BORE; SUBSURFACE TRESPASS OR ANY ACTION IN THE NATURE THEREOF; FIRE; EXPLOSION; SUBSURFACE PRESSURE; RADIOACTIVITY; AND POLLUTION AND ITS CLEANUP AND CONTROL.

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS WILL APPLY EVEN IF THE LIABILITY AND CLAIMS ARE CAUSED BY THE SOLE, CONCURRENT, ACTIVE OR PASSIVE NEGLIGENCE, FAULT, OR STRICT LIABILITY OF ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, THE UNSEAWORTHINESS OF ANY VESSEL OR ANY DEFECT IN THE DATA, PRODUCTS, SUPPLIES, MATERIALS OR EQUIPMENT FURNISHED BY HALLIBURTON GROUP WHETHER IN THE DESIGN, MANUFACTURE, MAINTENANCE OR MARKETING THEREOF OR FROM A FAILURE TO WARN OF SUCH DEFECT. "HALLIBURTON GROUP" IS DEFINED AS HALLIBURTON, ITS PARENT, SUBSIDIARY, AND AFFILIATED COMPANIES AND ITS/THEIR OFFICERS, DIRECTORS, EMPLOYEES, AND AGENTS. CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS APPLY WHETHER THE PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE OR LOSS IS SUFFERED BY ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, CUSTOMER, OR ANY OTHER PERSON OR ENTITY AND THE CUSTOMER WILL SUPPORT SUCH OBLIGATIONS ASSUMED HEREIN WITH LIABILITY INSURANCE TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW.

D. **EQUIPMENT LIABILITY** - Customer shall at its risk and expense attempt to recover any Halliburton equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence. If the equipment is not recovered or is irreparable, Customer shall pay the replacement cost, unless caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and shall permit Halliburton to monitor the recovery or abandonment efforts all at no risk or liability to Halliburton. Customer shall be responsible for damage to or loss of Halliburton equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton equipment damaged by corrosion or abrasion due to well effluents.

E. **LIMITED WARRANTY** - Halliburton warrants only title to the equipment, products, and materials supplied under this agreement and that same are free from defects in workmanship and materials for one year from date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's sole 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, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. 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 EQUIPMENT, MATERIALS, 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 GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed to by Halliburton's negligence or fault. Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

F. **GOVERNING LAW** - The validity, interpretation and construction of this agreement shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. **WAIVER** - Customer agrees to waive the provisions of the Texas Deceptive Trade Practices-Consumer Protection Act or any similar federal or state statute to the extent permitted by law.

H. **MODIFICATIONS** - Customer agrees that Halliburton shall not be bound by any modifications to this agreement, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 5151 San Felipe, Houston, Texas 77056.



HALLIBURTON ENERGY SERVICES

3860 75 Back 125 Front

TICKET CONTINUATION CUSTOMER COPY

TICKET No. 579579

CUSTOMER: National Petroleum Reserve
 WELL: 1 Bridgway Farms
 DATE: 3-12-95
 PAGE: 2 OF 2

FORM 1911 R-10

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
504-308		1			Stacked Cement	75		SKB		7.82	586.50
509-406		1			Calcium Chloride	2		SKB		36.75	73.50
ORIGINAL											
500-207		1			SERVICE CHARGE					1.35	102.75
500-306		1			MILEAGE CHARGE					.95	174.04
					TOTAL WEIGHT						
					LOADED MILES						
					CUBIC FEET						
					TON MILES						

No. B 285196

CONTINUATION TOTAL

948.29



JOB SUMMARY

HALLIBURTON DIVISION Med cont
 HALLIBURTON LOCATION Wayne, Ks

BILLED ON TICKET NO. 591587

WELL DATA

FIELD _____ SEC. 33 TWP. 4 RNG. 37 COUNTY Cherokee 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 _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>u</u>	<u>20</u>	<u>2 1/2</u>	<u>RA</u>	<u>341</u>	
LINER						
TUBING						
OPEN HOLE				<u>241</u>	<u>344</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG <u>CA-11</u>	<u>1</u>	<u>New/100</u>
HEAD		
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>3-12-75</u>	DATE <u>3-12</u>	DATE <u>3-12</u>	DATE <u>3-12</u>
TIME <u>10:15</u>	TIME <u>10:15</u>	TIME <u>10:50</u>	TIME <u>18:15</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>Richardson #59704</u>	<u>40091</u> <u>D.U.</u>	<u>Wayne</u>
<u>Robinson #57220</u>	<u>51371</u> <u>Pump truck</u>	<u>"</u>
<u>A. W. Smith #86101</u>	<u>3860</u> <u>Bulk truck</u>	<u>"</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. _____

PERFRAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT CMAT

DESCRIPTION OF JOB Attends to cement 2 1/2" surf. pipe

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

CUSTOMER REPRESENTATIVE: X [Signature]

HALLIBURTON OPERATOR: [Signature]

COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>75</u>	<u>STD</u>	<u>B</u>	<u>39.00</u>		<u>1.18</u>	<u>15.6</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

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

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

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 21

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL.-GAL. 15.75

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____

ORDERED _____ AVAILABLE _____ USED _____ AVERAGE RATES IN BPM _____

TREATING _____ DISPL _____ OVERALL _____ CEMENT LEFT IN PIPE _____

FEET _____ REASON _____

REMARKS

Thud you
[Signature]

CUSTOMER: McIntosh Pat Ross
 LEASE: Briney Farms
 WELL NO: 1
 JOB TYPE: Surf. pipe
 DATE: 3-12-75



JOB LOG HAL-2013-C

CUSTOMER National Pay. Ros WELL NO. 1 LEASE Brineq Forms JOB TYPE Surf TICKET NO. 599598

Table with columns: CHART NO., TIME, RATE (BPM), VOLUME (BBL) (GAL), PUMPS (T, C), PRESSURE (PSI) (TUBING, CASING), DESCRIPTION OF OPERATION AND MATERIALS. Contains handwritten entries for various times and operations like 'Called to Recant or press Test casing', '3000 + displace plug to 326' - source of casing shoe', 'on loc, discuss job & set up equipment', 'Load casing', 'take In/Rate Pump 5 bbl', 'Shut Down & discuss procedure', 'ST. mix 15 SKS STD w/ 3% cement in mixing water', '50 cmf. mixed, Rel plug & st. displ', '250 displ. plug to 326', '150 shut down', '150 shut in @ casing', 'wash rock up & set & finish paper work', 'Job complete', 'Thank you', 'Larnt crew'.

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WELL DATA
FIELD _____ SEC. 33 TWP. Y RING. 37 COUNTY Cherokee 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 _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	u	20	2 1/2 2 3/4		341	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG	1	Mann 100
TOP PLUG		
HEAD		
PACKER		
OTHER		

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>3-11-95</u>	DATE <u>3-11</u>	DATE <u>3-11</u>	DATE <u>3-11</u>
TIME <u>17:30</u>	TIME <u>18:10</u>	TIME <u>19:50</u>	TIME <u>19:55</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>K. Richman #59728</u>	<u>40091 P.U.</u>	<u>Hays, KS</u>
<u>R. Berans #57220</u>	<u>51374 CMT Pump</u>	<u>11</u>
<u>A. Worth #86101</u>	<u>3860 CMT BULK</u>	<u>11</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. _____ IN
PERFPAC BALLS TYPE _____ QTY. _____
OTHER _____
OTHER _____

DEPARTMENT CMT
DESCRIPTION OF JOB CMT 8 1/2" surf pipe
JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
CUSTOMER REPRESENTATIVE X [Signature]
HALLIBURTON OPERATOR [Signature] COPIES REQUESTED 1

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>205</u>	<u>40/60</u>	<u>Port</u>	<u>B</u>	<u>270 gal 3% wax</u>	<u>1.3</u>	<u>136</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 15 REASON Customer Request

SUMMARY
PRESLUSH: BBL.-GAL. _____ TYPE _____
LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 21
CEMENT SLURRY: BBL. 47.4
TOTAL VOLUME: BBL.-GAL. _____
REMARKS
[Signature]

CUSTOMER National Pet Pos
LEASE Briny Farms
WELL NO. 1
JOB TYPE Surf
DATE 3-11-95

CUSTOMER: National Pet. RS
 WELL NO.: 1
 LEASE: Primary Farms
 JOB TYPE: Surf
 TICKET NO.: 598597

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1430							Called out to cmt 341' surf pipe w/ 2055Ks w/60 ft 2" 3" acc
	1810							on loc, rig running & snags up pit
	1835							cong to 70 (344') Hook up & cir w/ rig pump
	1850							Hook up to pump truck + stim. & cmt
	1905		48				0	cmt mixed. (2055Ks) Rel plug + stim. displ cir 405Ks to pit.
	1912		21				150	Ldg plug @ 325'
	1912							shot in @ cong head wash up & track up equipment
	1955							Job complete Thank you Ken Y. Green

ORIGINAL