

SIDE ONE

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

API NO. 15- 153-20,771-60-00

County Rawlins

NE NE NE Sec. 32 Twp. 1 Rge. 35 x East
West

4950 Ft. North from Southeast Corner of Section

330 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

Lease Name Cahoj Well # 1

Field Name Kletchka

Producing Formation Kansas City E&C

Elevation: Ground 3235 KB 3240

Total Depth 4376 PBTD _____

Operator: License # 8786

Name: Edward J. Cahoj

Address P.O. Box 13

City/State/Zip McDonald, Ks. 67745

Purchaser: CLEAR CREEK, INC.

Operator Contact Person: Edward J. Cahoj

Phone 417-326-4486

Contractor: Name: Golden Eagle Drilling

License: 8682

Wellsite Geologist: James Dillie

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If **OWMO**: old well info as follows:

Operator: _____

Well Name: _____

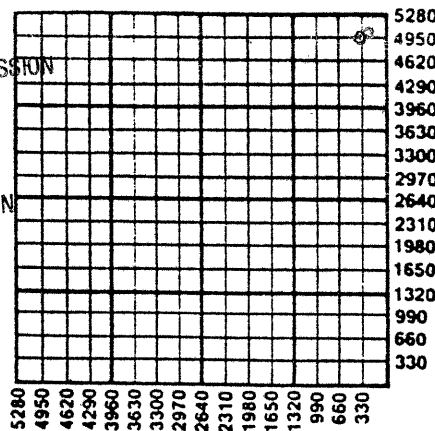
Comp. Date _____ Old Total Depth _____

Drilling Method:
 Mud Rotary Air Rotary Cable

1-25-91 2-1-91 2-12-91

Spud Date Date Reached TD Completion Date

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Wichita, Kansas



Amount of Surface Pipe Set and Cemented at 313 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

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 Edward J. Cahoj

Title operator Date 7/12/91

Subscribed and sworn to before me this 12 day of July, 1991.

Notary Public Ronald P. Kelley

Date Commission Expires 3-17-93

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)

SIDE TWO

Operator Name Edward J. Cahoj Lease Name Cahoj #1 Well # 1
 Sec. 32 Twp. 1 Rge. 35 East County Rawlins
 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.)

see attachment

Formation Description		
	<input checked="" type="checkbox"/> Log	<input type="checkbox"/> Sample
Name	Top	Bottom
Topeka	3938-698	
dear creek	4000-760	
oread	4041-801	
douglas	4123-883	
l-kc "A"	4164-924	
"B"	4220-980	
"C"	4271-1031	
"D"	4320-1080	
"E"	4363-1123	
"F"	4396-1156	

CASING RECORD New Used
 Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
production	7 5/8"	4 1/2	10 1/2/11	4425	EA-2	140	
			313'		hd-1	200	

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
4	L-KC "E" 4366-70	2000 gal 15% SGA	4366-70
4	L-KC "C" 4274-78	4000 gal 15% SGA	4274-78

TUBING RECORD

Size	Set At	Packer At	Liner Run
2 3/8	4253	4258	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First Production 2-6-91 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity
	20		n/a		250			

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

DST #1 4214 - 4232 L-KC "B" zone. Times: 15-30-30-60

Had bottom of the bucket blow in 4 1/2 minutes on initial and final opening.

Recovered 80' of gas in pipe and 1220' of fluid; 40' of clean oil (22 gravity at 60 degrees), 60' of MCO (70% oil, 30% water), 240' of OCW (18% oil, 82% water), 180' of SOCW (3% oil, 97% water), 700' of saltwater w/ few oil specks (68,000 ppm chlorides).

IHP 2202, FHP 2127, IFF 109-246, FFP 342-537, ISIP 1119, FSIP 1123, BHT 127.

DST #2 4236-4295 L-KC "C" zone. Times: 30-60-45-90

Had slow building blow building to 4" on initial opening. Had slow building blow building to 3 1/4" on second opening.

Recovered 100' of drilling mud w/ oil specks plus 60' of watery mud w/ oil specks (20% water, 6,000 ppm chlorides).

IHP 2214, FHP 2080, IFF 32-52, FFP 54-80, ISIP 781, FSIP 777, BHT 121.

DST #3 4328-4381 L-KC "E" zone. Times: 30-60-45-90

Had 7" blow on initial opening. Had 7 1/2" blow on final opening.

Recovered 45' of gas plus 320' of fluid; 20' of MCO (80% oil), 120' of HOCM (32% oil), 120' of gassy OCM (18% gas, 18% oil), 60' of OCWM (10% oil, 28% water, 6,000 ppm chlorides).

IHP 2267, FHP 2204, IFF 80-111, FFP 157-189, ISIP 879, FSIP 875, BHT 129.

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JUL 15 1991

CONSERVATION DIVISION
Wichita, Kansas

FORM 1906 R-11 *KDH*

WELL NO. - FARM OR LEASE NAME <i>L Cahoj</i>		COUNTY <i>Rawlins</i>	STATE <i>KS</i>	CITY / OFFSHORE LOCATION	DATE <i>2-2-91</i>
CHARGE TO <i>Ed Cahoj</i>		OWNER <i>Ed Cahoj</i>	TICKET TYPE (CHECK ONE) SERVICE <input type="checkbox"/> SALES <input type="checkbox"/>		NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS <i>Box 13</i>		CONTRACTOR <i>Golden Eagle Dng</i>	LOCATION <i>1 Oberlin KS</i>		CODE <i>2552</i>
CITY, STATE, ZIP <i>McDonald KS 67745</i>		SHIPPED VIA <i>3243</i>	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT		LOCATION <i>2</i>
WELL TYPE <i>01</i>	WELL CATEGORY <i>01</i>	WELL PERMIT NO.	DELIVERED TO <i>NW Beardsley KS</i>		LOCATION <i>3</i>
TYPE AND PURPOSE OF JOB <i>030</i>		<i>B-746652</i>	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 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 OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials or their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
000-117				MILEAGE <i>3243</i>	40	mi			2.35	94 00
000-118				Mileage Surcharge	40	mi			.40	16 00
001-016				Pump Charge	4420	ft				1200 00
030-016				5W Top Plug	1	EA	4 1/2"		32 00	32 00
<i>12A</i>	<i>825.201</i>			Guide Shoe	1	EA	4 1/2"		83 00	83 00
<i>24A</i>	<i>815.19101</i>			Insert Float Valve	1	EA	4 1/2"		73 00	73 00
<i>27</i>	<i>815.19111</i>			Fill-up Tube	1	EA	1"		27.50	27 50
<i>40</i>	<i>807.93004</i>			S-4 Centralizers	10	EA	4 1/2"		41.00	410 00
<i>320</i>	<i>700.8881</i>			Cement Baskets	2	EA	4 1/2"		85 00	170 00
<i>018-317</i>				Super Flush	10	SKS			74 00	740 00

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JUL 15 1991

CONSERVATION DIVISION
Wichita, Kansas

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B-946652

4355 66

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

[Signature]

X CUSTOMER OR HIS AGENT (PLEASE PRINT)

X 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

SUB TOTAL *7201 14*
APPLICABLE TAXES WILL BE ADDED ON INVOICE

BULK MATERIALS DELIVERY AND TICKET CONTINUATION

ORIGINAL

HALLIBURTON SERVICES
Duncan, Oklahoma 72838
A Division of Halliburton Company

FOR INVOICE AND
TICKET NO. 904624

DATE 2-2-91	CUSTOMER ORDER NO.	WELL NO. AND FARM Cahoj #1	COUNTY Rawlins	STATE KS
CHARGE TO Fed Cahoj		OWNER Cahoj	CONTRACTOR Golden Eagle No. B 946652	
MAILING ADDRESS Box 13		DELIVERED FROM Oberlin	LOCATION CODE 5529	PREPARED BY VLK/Jones
CITY & STATE McDonald KS		DELIVERED TO NW Beardsley KS	TRUCK NO. 4718	RECEIVED BY

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
		L	D		QTY.	MEAS.	QTY.	MEAS.		
504-308				Standard Cmt	140	SK			6.75	945 00
508-127				CA/Seal	7	SK			19.70	137 90
509-968				SALT GRANULATED	606	#			.10	60 60
507-775				HALAD 322	66	#			5.95	392 70
507-970				D-AIR	35	#			2.55	89 25
504-308				Standard Cmt	130	SK			6.75	877 50
506-105				POZmix	70	SK			3.50	245 00
506-121				Gel Allowed 2% (3)						NC
507-277				Gel Mixed	14	SK			13.75	192 50
507-285				Econolite	348	#			.90	313 20
507-210				Floccle	50	#			1.30	65 00
509-968				SALT GRANULATED	300	#			.10	30 00
<p>RECEIVED STATE COOPERATION COMMISSION JUL 15 1991 CONSERVATION DIVISION Wichita, Kansas</p>										
		Returned Mileage Charge	TOTAL WEIGHT		LOADED MILES		TON MILES			
		SERVICE CHARGE ON MATERIALS RETURNED							CU. FEET	
500-207									389	
500-306		SERVICE CHARGE							CU. FEET	
500-307		Mileage Charge	34,065		40		681.3		1.10	427 90
		TOTAL WEIGHT		LOADED MILES		TON MILES		1.10	510 98	68 13
No. B 946652		CARRY FORWARD TO INVOICE							SUB-TOTAL	
									4335 66	

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ORIGINAL

FORM 1908 R-7

A Division of Halliburton Company

ATTACH TO INVOICE & TICKET NO. 904624

DISTRICT Hays KS DATE 2-2-91

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

WELL NO. 1 LEASE Cahoj SEC. TWP. RANGE

FIELD NW Beardsley KS COUNTY Rawlins STATE KS OWNED BY Ed Cahoj

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME TYPE FORMATION THICKNESS FROM TO PACKER: TYPE SET AT TOTAL DEPTH 4430 MUD WEIGHT 9.3 BORE HOLE 7 7/8 INITIAL PROD: OIL BPD, H2O BPD, GAS MCF PRESENT PROD: OIL BPD, H2O BPD, GAS MCF

Table with columns: NEW USED, WEIGHT, SIZE, FROM, TO, MAX. ALLOW. P.S.I. Rows include CASING (N, 10.5, 4 1/2, KB, 4420), LINER, TUBING, OPEN HOLE (7 7/8, KB, 4430, SHOTS/FT.), and PERFORATIONS.

PREVIOUS TREATMENT: DATE TYPE MATERIALS

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

Cement Production casing w/ 140 sks EA-2 w/ 5% Cal Seal 10% Salt, 15% Haled 322, 25% D-Air + 200 sks HDL cement w/ 1/4" flack. 10 centralizers, 1 ea on first 10 Jts, 2 cement baskets, 1 ea 10th Jt, 1 ea 40th Jt, 20 bbl Salt Flush + 420 gal S.M.P. Slush as direct

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 accordance 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 payment, Halliburton'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 and not 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 the unpaid account.

to defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent companies and the officers, directors, employees, agents and servants of all of them from all any claims, liability, expenses, attorney fees, and costs of defense to the extent permitted by law.

Damage to property owned by, in the possession of, or leased to by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage, if the well owner shall include working and royalty interest owners.

Reservoir formation, or well loss or damage, subsurface trespass or any action in the nature of or

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 the completion, but surface operations, casing control of the well, or the use of hydraulic horsepower.

The defense, indemnity, release and hold harmless obligations of Customer provided for in the Sections (b), (c) and (d) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability or the negligence of any special agent, contractor, employee, or any defect in the data, products, supplies, materials, or equipment of Halliburton, and the preparation, design, production, distribution, or sale of the same, or any defect, failure, loss, or damage to such products, supplies, materials, or equipment. Such defense, indemnity, release and hold harmless obligations of Customer do not apply where the claims or liability are caused by the gross negligence or willful misfeasance or fraud of 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.

That because of the uncertainty of many of the factors which enter into the performance of the services furnished by others, Halliburton is unable to guarantee the effectiveness of the data, supplies or materials, nor the results of any operation or service and the accuracy of any chart, interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton and its agents will use their best efforts in the performance of their obligations under this contract, but 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 that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. THE ONLY PRECEDING SENTENCE Halliburton's liability and Customer's exclusive remedy for a cause of action (whether in contract, tort, breach of warranty, or otherwise) arising out of the sale or use of the products, supplies or materials is expressly limited to the replacement of such products, supplies or materials which turn out to be defective or damaged, and the cost of such items. In no event shall Halliburton be liable for special, incidental, or consequential damages.

That Customer shall be responsible for the safety of the well and if such equipment, tools or instruments are not provided by Halliburton, the replacement cost of such equipment, tools or instruments shall be the responsibility of the Customer. In the case of equipment, tools or instruments for marine operations, Halliburton shall, in addition to the foregoing, be fully responsible for loss or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the location of the well.

That Customer shall be bound by any charges or modifications 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

RECEIVED STATE CORPORATION COMMISSION

JUL 15 1991

CONSERVATION DIVISION Wichita, Kansas

SIGNED CUSTOMER

DATE 2-2-91

TIME 0945 A.M. P.M.

RETAIN

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.

WELL DATA

FIELD NW Beardsley KS SEC. 32 TWP. 15 RNG. 35w COUNTY Rawlins 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 Chem MUD WT. 9.3

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH 4430

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>N</u>	<u>10.5</u>	<u>4 1/2</u>	<u>KB</u>	<u>4420</u>	
LINER						
TUBING						
OPEN HOLE			<u>7 7/8</u>	<u>KB</u>	<u>4430</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>Insert Float</u>	<u>1EA</u>	<u>Howco</u>
FLOAT SHOE <u>Anti Fill Tube</u>	<u>1EA</u>	<u>"</u>
GUIDE SHOE <u>Res 4 1/2"</u>	<u>1EA</u>	<u>"</u>
CENTRALIZER <u>SRA 4 1/2"</u>	<u>10EA</u>	<u>"</u>
BOTTOM PLUG		
TOP PLUG <u>Sw 4 1/2</u>	<u>1EA</u>	<u>"</u>
HEAD		
PACKER		
OTHER <u>Cont Baskets 4 1/2"</u>	<u>2EA</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. _____ IN

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>2-2-91</u>	DATE <u>2-2-91</u>	DATE <u>2-2-91</u>	DATE <u>2-2-91</u>
TIME <u>0600</u>	TIME <u>0920</u>	TIME <u>1012</u>	TIME <u>1355</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J. Moore 84685</u>	<u>3093</u>	
<u>J. Keenan 63503</u>	<u>HT-400RCM 4718</u>	<u>Oberlin KS</u>
<u>M. Farris E1474</u>	<u>Bulk TK</u>	<u>Oberlin KS</u>

DEPARTMENT Cement

DESCRIPTION OF JOB Cement Production Casing

27140 SKS EA-2 + 200 SKS HDL

400 gal Super Flush, 20000 Salt Flush

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

CUSTOMER REPRESENTATIVE X Jim Dillis

HALLIBURTON OPERATOR Jack Moore

COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>200</u>	<u>HDL</u>			<u>1/4" floccle</u>	<u>3.62</u>	<u>10.68</u>
	<u>140</u>	<u>EA-2</u>			<u>5% Cel Seal, 10% Salt, 5% Hekid 322, 25% D-Air</u>	<u>1.34</u>	<u>15.3</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 10' REASON Shoe Joint

SUMMARY

VOLUMES

PRESLUSH: BBL-GAL. 3005 Salt Flush TYPE 420 Super Flush

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

TREATMENT: BBL-GAL. _____ DISPL: BBL-GAL. 70.15

CEMENT SLURRY: BBL-GAL. 128.9 HDL 33.4 EA-2 170.4

TOTAL VOLUME: BBL-GAL. 258

REMARKS

See Job Log & Chart

Thank you

CUSTOMER JOB NO. DATE TIME WELL NO. JOB TYPE

LOG

WELL NO. 1 LEASE Cahoj TICKET NO. 909624
 CUSTOMER Ed Cahoj PAGE NO. 1 of 1 ORIGINAL
 JOB TYPE Cmt. Production Csg. DATE 2-2-91

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0600							Called out - Ready @ 0930
	0930							On location - Rig layed down - Rigging up to run 4 1/2" casing
	1215							Start running pipe, 103 Joints new 10.5#/ft 4 1/2" casing. Regular guide shoe on bottom of 10' shoe joint. Insert float value w/ autofill tube in top of shoe joint. 15-4 centralizer on the first 10 Joints. of csg. 1 cement basket on the 10th & 40th Joints.
	1225					600		Rig Circulate - Pumped ball + through insert @ 600 psi Mix Super Flush
	1240							Hook up to Hwco
	1242	5				450		Start 20 bbl Salt Flush
	1246		20 salt flush			450		Finish Salt Flush - Start 3bbl Spacer
	1248	5	3 wtr			350		Finish spacer - Start 420 gal Super Flush
	1251	5	10 Super Flush			300		Finish Super Flush - Start 3bbl Spacer
	1253	8	3 wtr			450		Finish Spacer - Start Cement - 200 sks HDL w/ 1/4" floccle
	1304	8	85 cmt			100		Lost Circulation
	1305	8	93 cmt			225		Circulation came back
	1310	5	128.9 cmt			250		Finish HDL cement - Start 140 sks EA-2 w/ 10% salt, 5% Ca/Secal , 5% Haled 302 + 25% D.Air
	1315		33.2 cmt					Finish cement - Wash pump + lines
	1317	6 3/4	0			5		Release plug + Start Displacement
	1323	6 3/4	37 wtr			250		Caught Pressure
	1329	6	68 wtr			250		68 bbl. Displaced
	1339	6	70.2 wtr			1550		Plug down Finish Displacement Holding
	1332							Release - Held
	1334					200		Pressure Casing + Close in
	1336							Wash up truck
	1355							Job Completed

RECEIVED
STATE CORPORATION COMMISSION

JUL 15 1991

CONSERVATION DIVISION
Wichita, Kansas

RETAIN