

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

Operator: License # 4680

Name: Thomas C. Lutz

Address P. O. Drawer 0940

City/State/Zip Fayetteville, AR 72701

Purchaser: Koch Oil Wichita, Kansas

Operator Contact Person: H. L. Maddox

Phone (316) 653-4178

Contractor: Name: Red Tiger Drilling

License: 5302

Wellsite Geologist: rRon Nelson

Designate Type of Completion

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

If OWM: old well info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Drilling Method:

- Mud Rotary     Air Rotary     Cable

3-27-90                      4-3-90                      5-1-90

Spud Date                      Date Reached TD                      Completion Date

API NO. 15- 135-23,443-0000

County Ness

SW NE SW Sec. 13 Twp. 16 Rge. 26W  East West

1650 Ft. North from Southeast Corner of Section

3630 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

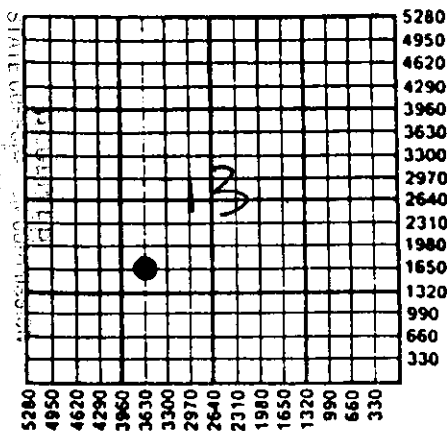
Lease Name Evel "B" Well # 2

Field Name Arnold

Producing Formation Mississippi

Elevation: Ground 2559 KB 2564

Total Depth 4600' PBD \_\_\_\_\_



Amount of Surface Pipe Set and Cemented at 371 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from GL

feet depth to 1350' (TICKETS WILL VARY BY BOND.) w/ 375 sx cmt.

WICHITA, KANSAS  
MAY 24 1990

7-27-90

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.

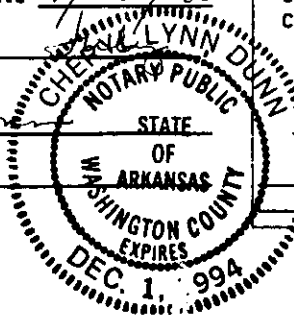
Signature [Handwritten Signature]

Title OWNER-OPERATOR Date 7/20/90

Subscribed and sworn to before me this 20 day of July 1990.

Notary Public Cheryl Lynn Dunn

Date Commission Expires Dec 1, 1994



**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)

ORIGINAL

**SIDE TWO**

Operator Name Thomas C. Lutz Lease Name Evel "B" Well # 2  
 Sec. 13 Twp. 16 Rge. 26W  East County Ness  
 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 (Attach Additional Sheets.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run (Submit Copy.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<p style="text-align: center;"><b>Formation Description</b></p> <p style="text-align: center;"><input type="checkbox"/> Log <input type="checkbox"/> Sample</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: right;">Top</th> <th style="text-align: right;">Bottom</th> </tr> </thead> <tbody> <tr><td>ANHYDRITE</td><td style="text-align: right;">1958</td><td style="text-align: right;">=607</td></tr> <tr><td>HEEBNER</td><td style="text-align: right;">3843</td><td style="text-align: right;">-1276</td></tr> <tr><td>TORONTO</td><td style="text-align: right;">3858</td><td style="text-align: right;">-1294</td></tr> <tr><td>LKC</td><td style="text-align: right;">3884</td><td style="text-align: right;">-1320</td></tr> <tr><td>BKC</td><td style="text-align: right;">4184</td><td style="text-align: right;">-1620</td></tr> <tr><td>MARMATON</td><td style="text-align: right;">4230</td><td style="text-align: right;">-1666</td></tr> <tr><td>PANNESS</td><td style="text-align: right;">4320</td><td style="text-align: right;">-1756</td></tr> <tr><td>FT SCOTT</td><td style="text-align: right;">4390</td><td style="text-align: right;">-1826</td></tr> <tr><td>CHEROKEE Shale</td><td style="text-align: right;">4414</td><td style="text-align: right;">-1850</td></tr> <tr><td>MISSISSIPPI DOLO</td><td style="text-align: right;">4486</td><td style="text-align: right;">-1922</td></tr> <tr><td>RTD</td><td style="text-align: right;">4600</td><td style="text-align: right;">-2036</td></tr> </tbody> </table>	Name	Top	Bottom	ANHYDRITE	1958	=607	HEEBNER	3843	-1276	TORONTO	3858	-1294	LKC	3884	-1320	BKC	4184	-1620	MARMATON	4230	-1666	PANNESS	4320	-1756	FT SCOTT	4390	-1826	CHEROKEE Shale	4414	-1850	MISSISSIPPI DOLO	4486	-1922	RTD	4600	-2036
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**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
surface	12 1/4	8 5/8	20#	371'	60/40 poz	225	2% gel, 3%cc
production	7 7/8	5 1/2	14#	4598'	60/40 poz	200	2% gel, 12% CFR-3

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth
2	4486-4492    4492-4500    4504-4514	

**TUBING RECORD** Size 2 3/8 Set At 4560 Packer At \_\_\_\_\_ Liner Run  Yes  No

Date of First Production 5-15-90 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity
	10				20			

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 \_\_\_\_\_

HALLIBURTON SERVICES

Duncan, Oklahoma 73836

A Division of Halliburton Company

FORM 1906 R-11

WELL NO. -- FARM OR LEASE NAME B #2 Euel		COUNTY Ness	STATE KS	CITY / OFFSHORE LOCATION	DATE 4-23-90
CHARGE TO Tom Lutz	OWNER S...		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 Ph... Well Service	LOCATION 1 Ness City, Ks		CODE 50353
CITY, STATE, ZIP Tucellville, A.K.		SHIPPED VIA Ness City, Ks	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT	LOCATION 2 Great Bend, Ks	CODE 50320
WELL TYPE 01	WELL CATEGORY 01	WELL PERMIT NO.	DELIVERED TO A.W. Ullrich, K.	LOCATION 3	CODE
TYPE AND PURPOSE OF JOB 075		B-888458	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, 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 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.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
000-117		1		MILEAGE 51145	28 mi				22.00	6380
009-134	009-019	1		Pump Service	1350 ft				815.22	81500
116-028		1		Stripper Head	1 ea				1300.00	13000
<h1 style="font-size: 4em; opacity: 0.3;">THIS IS NOT AN INVOICE</h1>										

STATE RECEIVED  
WICHITA COUNTY COMMISSION  
JUL 24 1990  
CONSERVATION DIVISION  
Wichita, Kansas

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. B-888458 1958 71

WAS JOB SATISFACTORILY COMPLETED?  
 WAS OPERATION OF EQUIPMENT SATISFACTORY?  
 WAS PERFORMANCE OF PERSONNEL SATISFACTORY?  
 X [Signature] CUSTOMER OR HIS AGENT (PLEASE PRINT)  
 X [Signature] 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  
APPLICABLE TAXES WILL BE ADDED ON INVOICE.

**WORK ORDER CONTRACT  
AND PRE-TREATMENT DATA**

ATTACH TO INVOICE & TICKET NO. 908487

FORM 1908 R-7

A Division of Halliburton Company

DISTRICT Hays, KS

DATE 4-23-90

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

WELL NO. B#2 LEASE Evel SEC. 12 TWP. 16 RANGE 26

FIELD \_\_\_\_\_ COUNTY Ness STATE KS OWNED BY Some

**THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT**

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_  
FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_  
PACKER: TYPE RTTS SET AT 1282  
TOTAL DEPTH RB Port 3620 MUD WEIGHT \_\_\_\_\_  
BORE HOLE \_\_\_\_\_  
INITIAL PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF  
PRESENT PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	N	14	5 1/2	66	4570	
LINER						
TUBING	u		2 3/8	66	1282	
OPEN HOLE						SHOTS/FT.
PERFORATIONS				1350	1350	
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE \_\_\_\_\_ TYPE \_\_\_\_\_ MATERIALS \_\_\_\_\_

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

Squeeze pump at 1350 psi & try to circ. cut to surface w/ 175 lbs HCC w/ 1/4" Fluorinert & 100 lbs W/D/D port mix w/ 2 bags of 320cc

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

- As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED
- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. 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.
  - 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:
    - 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.

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.
  - 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.
  - 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.
  - 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.
  - To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
  - That this contract shall be governed by the law of the state where services are performed or materials are furnished.
  - That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

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

SIGNED \_\_\_\_\_ DATE 4-23-90 TIME 2:20 P.M. CUSTOMER

JUL 24 1990

CONSERVATION DIVISION

We certify that we have complied with the Fair Labor Standards Act of 1938, as amended, and have complied with in the production of goods and/or with respect to services furnished under this contract.

CUSTOMER

**WELL DATA**

FIELD \_\_\_\_\_ SEC. 13 TWP. 16 RING. 26 COUNTY Ness 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 RTTS SET AT 1282

BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_

MISC. DATA \_\_\_\_\_ TOTAL DEPTH RBP at 360

CASING	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
	<input checked="" type="checkbox"/>	14	5 1/2	6L	4570	
LINER						
TUBING			2 3/4	6L	1282	
OPEN HOLE						SHOTS/FT.
PERFORATIONS				1350	1350	3
PERFORATIONS						
PERFORATIONS						

**JOB DATA**

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 4-23-90	DATE 4-23-90	DATE 4-23-90	DATE 4-23-90
TIME 08:30	TIME 09:30	TIME 10:00	TIME

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
T. Fuchs	51145	Ness City, KS
R. Logskibe	Comb.	Ness City, KS
G. Mauer	2656	Grant, KS

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD <u>Stripper 5 1/2</u>	<u>1</u>	<u>Howco</u>
PACKER <u>RTTS 5 1/2</u>	<u>1</u>	<u>Howco</u>
OTHER		

**MATERIALS**

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL.-API

DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL.-API

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

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 \_\_\_\_\_

DEPARTMENT Cont

DESCRIPTION OF JOB Squeeze Perfs of try to cover Cont to surface

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN

CUSTOMER REPRESENTATIVE X Scott Smith

HALLIBURTON OPERATOR Scott Fuchs COPIES REQUESTED \_\_\_\_\_

**CEMENT DATA**

STAGE	NUMBER OF BAGS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	175	HLLC	Pozmix B	B	1/2# Floccul/sk	18.6	12.7
	100	60/40	Pozmix B	B	220 gal 37cc	1.26	14.4

**PRESSURES IN PSI**

**SUMMARY**

**VOLUMES**

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESURUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_

BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL. BBL.-GAL. 4.86

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY: BBL.-GAL. 57.3

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ STATE COMMISSION \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ CEMENT LEFT IN PIPE \_\_\_\_\_

FEET \_\_\_\_\_ REASON \_\_\_\_\_

REMARKS \_\_\_\_\_

APR 24 1990

CONSERVATION DIVISION  
Wichita, Kansas

CUSTOMER Tom Lutz  
WELL NO. B#2  
JOB TYPE Squeeze Perfs  
DATE 4-23-90



# BULK MATERIALS DELIVERY AND TICKET CONTINUATION

FOR INVOICE AND TICKET NO. **908487**

DATE <b>4-23-90</b>	CUSTOMER ORDER NO.	WELL NO. AND FARM <b>Evsl B-2</b>	COUNTY <b>Nowa</b>	STATE <b>Ka.</b>
CHARGE TO <b>Tom Lutz</b>		OWNER <b>Tom Lutz</b>	CONTRACTOR <b>No. B 888458</b>	
MAILING ADDRESS		DELIVERED FROM <b>Great Bend, Ka.</b>	LOCATION CODE <b>50320</b>	PREPARED BY <b>S. C. Henry</b>
CITY & STATE		DELIVERED TO <b>Location</b>	TRUCK NO. <b>2656-6605</b>	RECEIVED BY <i>Jeddy fuchs</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT		
		L	D		QTY.	MEAS.	QTY.	MEAS.				
504-316		2	B	Halliburton Light Cement 100 40%peamix/60%Cement	175	sk			4.92	861.00		
504-308	516.00261	2	B	standard cement	60	sk			5.45	327.00		
506-103	516.00286	2	B	peamix A	40	sk			2.88	115.20		
506-121	516.00299	2	B	2 Halliburton Gel 2% allowed						00		
509-406	890.50812	2	B	Calcium Chloride 300/100	3	sk			26.25	78.75		
507-210	890.50071	2	B	Flocals Blended 1/4M/175	44	lb.			1.23	54.12		
<div style="position: absolute; opacity: 0.5; font-size: 4em; transform: rotate(-45deg); pointer-events: none;">THIS IS NOT AN INVOICE</div> <div style="position: absolute; text-align: center;"> <p>RECEIVED STATE COMMISSION JUL 24 1990 CONSERVATION DIVISION Wichita, Kansas</p> </div>												
				Returned Mileage Charge	TOTAL WEIGHT		LOADED MILES		TON MILES			
				SERVICE CHARGE ON MATERIALS RETURNED			CU. FEET					
500-207		2	B	SERVICE CHARGE				281	.95	266.95		
500-306		2	B	Mileage Charge	25,191	TOTAL WEIGHT	29	LOADED MILES	363.27	TON MILES	.70	255.69
No. <b>B 888458</b>		CARRY FORWARD TO INVOICE					SUB-TOTAL				<b>1958.71</b>	



ORIGINAL



REMIT TO:  
P.O. BOX 951046  
DALLAS, TX 75395-1046

INVOICE

HALLIBURTON SERVICES

A Halliburton Company

INVOICE NO.	DATE
908391	03/27/1990

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
EVEL B-2		NESS		KS	SAME	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
HAYS		RED TIGER		CEMENT SURFACE CASING		03/27/1990
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.	
527734	AL WEBER			COMPANY TRUCK	92518	

THOMAS C. LUTZ  
P. O. DRAWER 0940  
FAYETTEVILLE, AR 72702

DIRECT CORRESPONDENCE TO:  
SUITE 600  
COLORADO DERBY BUILDING  
WICHITA, KS 67202-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
<b>PRICING AREA - MID CONTINENT</b>					
000-117	MILEAGE	29	MI	2.20	63.80
		1	UNT		
001-016	CEMENTING CASING	371	FT	423.40	423.40
		1	UNT		
030-503	CMTG PLUG LA-11,CP-1,CP-3, TOP	8 5/8	IN	59.00	59.00
		1	EA		
504-308	STANDARD CEMENT	135	SK	5.45	735.75 *
506-105	POZMIX A	80	SK	2.88	230.40 *
506-121	HALLIBURTON-GEL 2X	4	SK	.00	N/C *
509-406	ANHYDROUS CALCIUM CHLORIDE	6	SK	26.25	157.50 *
500-207	BULK SERVICE CHARGE	237	CFT	.95	225.15 *
500-306	MILEAGE CMTG MAT DEL OR RETURN	293.336	TMI	.70	205.34 *
INVOICE SUBTOTAL					2,100.34
DISCOUNT-(BID)					420.06-
INVOICE BID AMOUNT					1,680.28
*-KANSAS STATE SALES TAX					52.85
*-HAYS CITY SALES TAX					6.21
INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====>					\$1,739.34

RECEIVED  
STATE OF KANSAS  
CONSERVATION DIVISION  
Wichita, Kansas  
MAY 24 1990

TERMS: INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE. UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED, CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM. IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.



**INVOICE**

**HALLIBURTON SERVICES**



938566

06/11/1990

WELL # - 1	WESS	RS	SAME
WELL BRAND	NONE	RECENT	06/11/1990
WELL #	M.L. MADDOX	COMPANY TRUCK	93951

THOMAS C. LUTZ  
P. O. DRAWER 0540  
FRYETTEVILLE, AR 73702

DIRECT CORRESPONDENCE TO:  
SUITE 600  
COLORADO BRISTY GUILMING  
WICHITA, KS 67202-0000

PRICING AREA - MID CONTINENT				
000-117	MILEAGE	29	MI	63.80
		1	UNT	
011-205	MISCELLANEOUS PUMPING JOBS	400	PSI	590.00
		1	UNT	
004-316	HALLIBURTON LIGHT W/STANDARD	75	SR	369.00
001-106	ANHYDROUS CALCIUM	9	SR	28.25
007-210	FLOCLE	175	LB	210.75
000-306	MILEAGE ONTO MAT RETURN	377.75	TMI	364.43
000-125	CEMENTING MATERIALS RETURNED	275	CFT	80.00
000-307	BULK SERVICE CHARGE	368	CFT	349.50
000-308	MILEAGE CNT MAT DELIVERY	480.89	TMI	336.62

**INVOICE SUBTOTAL** 2,512.95

**DISCOUNT - (BID)** 327.70

**INVOICE BID AMOUNT** 2,185.25

\*-KANSAS STATE SALES TAX 54.47

\*-BARTON COUNTY SALES TAX 14.00

RECEIVED  
STATE CORPORATION COMMISSION  
JUL 24 1990  
CONSERVATION DIVISION  
Wichita, Kansas

**INVOICE TOTAL - PLEASE PAY THIS AMOUNT \*\*\*\*\* \$2,050.72**

**TERMS** INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE UPON CUSTOMER'S DEFAULT IN PAYMENT OF HIS 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. THESE TERMS AND CONDITIONS ARE A PART OF THE CONTRACT. CUSTOMER AGREES TO EMPLOY AN ATTORNEY TO ENFORCE THESE TERMS AND CONDITIONS. CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY'S FEES. THE AMOUNT OF THE UNPAID DEBT.



INVOICE

HALLIBURTON SERVICES

A Halliburton Company

INVOICE NO.	DATE
908325	04/03/1990

WELL LEASE NO./PLANT NAME	WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER		
EVEL 'B' 2	NESS	KS	SAME		
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
NESS CITY	RED TIGER	CEMENT PRODUCTION CASING	04/03/1990		
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
527734	H.L. MADDOX			COMPANY TRUCK	93096

THOMAS C. LUTZ  
P. O. DRAWER 0940  
FAYETTEVILLE, AR 72702

DIRECT CORRESPONDENCE TO:  
SUITE 600  
COLORADO DERBY BUILDING  
WICHITA, KS 67202-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
<b>PRICING AREA - MID CONTINENT</b>					
000-117	MILEAGE	29	MI	2.20	63.80
		1	UNT		
001-016	CEMENTING CASING	4599	FT	1,111.00	1,111.00
		1	UNT		
018-315	MUD FLUSH	500	GAL	.45	225.00
030-016	CEMENTING PLUG 5W ALUM TOP	5 1/2	IN	47.00	47.00
		1	EA		
12A	GUIDE SHOE - 5 1/2" 8RD THD.	1	EA	104.00	104.00
825.205					
24A	INSERT FLOAT VALVE - 5 1/2" 8RD	1	EA	83.00	83.00
815.19251					
27	FILL-UP UNIT 5 1/2"-6 5/8"	1	EA	30.00	30.00
815.19311					
40	CENTRALIZER 5-1/2" MODEL S-4	7	EA	44.00	308.00
807.93022					
320	CEMENT BASKET 5 1/2"	1	EA	90.00	90.00
800.8883					
504-308	STANDARD CEMENT	120	SK	5.45	654.00
506-105	POZMIX A	80	SK	2.88	230.40
506-121	HALLIBURTON-GEL 2X	3	SK	.00	N/C
509-968	SALT	1150	LB	.073	83.95
507-153	CFR-3	84	LB	3.90	327.60
500-207	BULK SERVICE CHARGE	217	CFT	.95	206.15
500-306	MILEAGE CMTG. MAT DEL OR RETURN	271.643	TMI	.70	190.15
<b>INVOICE SUBTOTAL</b>					<b>3,754.05</b>
<b>DISCOUNT - (BID)</b>					<b>788.32</b>
<b>INVOICE BID AMOUNT</b>					<b>2,965.73</b>
<b>*-KANSAS STATE SALES TAX</b>					<b>76.23</b>
<b>INVOICE TOTAL - PLEASE PAY THIS AMOUNT</b>					<b>\$3,041.96</b>

STATE RECEIVED  
APR 24 1990  
CONSERVATION DIVISION  
Wichita, Kansas

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE. UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED, CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM. IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.

# RED TIGER DRILLING COMPANY DAILY DRILLING REPORT

RIG NO. 2 FARM Coch WELL NO. B-2 COMPANY Tam Futz PUSHER M. Wagoner DATE 3-27-90 TOL

FOR 8 HOURS ENDING AT 7:30 A.M. HOURS RUN: _____ HOURS LOST: _____ CAUSE OF TIME LOST: _____	FOR 8 HOURS ENDING AT 3:30 P.M. HOURS RUN: <u>2 1/2</u> HOURS LOST: <u>5 1/2</u> CAUSE OF TIME LOST: <u>below</u>	FOR 8 HOURS ENDING AT 11:30 P.M. HOURS RUN: <u>3 1/4</u> HOURS LOST: <u>7 1/4</u> CAUSE OF TIME LOST: <u>BELOW</u>
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RECORD OF HOLE MADE				RECORD OF HOLE MADE				RECORD OF HOLE MADE			
FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET
				<u>0</u>	<u>290</u>	<u>day shales</u>		<u>290</u>	<u>375</u>	<u>Shale</u>	

BIT RUN (KIND) _____ (NO.) _____ NO. OF HOURS RUN ROCK BIT: _____ CONE NOS. _____ SIZE _____ SET NO. _____ JOINTS OF PIPE IN HOLE _____ SIZE _____	BIT RUN (KIND) <u>FOS</u> (NO.) <u>1</u> NO. OF HOURS RUN ROCK BIT: <u>2 1/2</u> CONE NOS. <u>Retip</u> SIZE <u>12 1/4</u> SET NO. <u>1</u> JOINTS OF PIPE IN HOLE _____ SIZE _____	BIT RUN (KIND) <u>FOS</u> (NO.) <u>1</u> NO. OF HOURS RUN ROCK BIT: <u>3 1/4</u> CONE NOS. <u>Retip</u> SIZE <u>12 1/4</u> SET NO. <u>1</u> JOINTS OF PIPE IN HOLE _____ SIZE _____
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MUD USED (KIND AND AMOUNT): AQUAGEL <u>15 Gall</u> HULLS <u>3 Lime</u> ZEOGEL _____ OTHER _____	MUD USED (KIND AND AMOUNT): AQUAGEL _____ HULLS _____ ZEOGEL _____ OTHER _____	MUD USED (KIND AND AMOUNT): <u>straight hole 3/4"</u> AQUAGEL _____ HULLS _____ ZEOGEL _____ OTHER _____
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DAY WORK (CORING, CIRCULATING, ETC.): <u>Finish Rig up mix mud put up sheds</u>	DAY WORK (CORING, CIRCULATING, ETC.): <u>Delg cathods Spud @ 10:30am</u>	DAY WORK (CORING, CIRCULATING, ETC.): <u>Change oil in Drwks + Pump motors</u>
---	--	--

CASING RECORD (SIZE, CEMENT, ETC.): _____	CASING RECORD (SIZE, CEMENT, ETC.): _____	CASING RECORD (SIZE, CEMENT, ETC.): <u>Run 10 1/2" steel 8 3/4" 20' total of 325 w/ 225 lbs 60-40 Pos cement w/ 2 1/2" Hel - 3 1/2" CC</u>
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REMARKS: _____	REMARKS: <u>1111 2 4 1990</u> <u>ONE BARSBY WAGONER</u> <u>WAGONER, KANSAS</u>	REMARKS: <u>w/ 2 1/2" Hel - 3 1/2" CC Plug down @ 6:00 - Cement did Circ.</u>
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NAME OF EMPLOYEE <u>TOM PERKINS</u> 8 <u>TOM WILLIAMS</u> 8 <u>BIGAN ELLIOTT</u> 8 SIGNED <u>SACK COLEMAN</u> 8 DRILLER	NAME OF EMPLOYEE <u>Drew's Penney</u> 8 <u>Tom Nichols</u> 8 <u>Anicela Carrigan</u> 8 SIGNED <u>Mts Wagoner</u> DRILLER	NAME OF EMPLOYEE <u>Greg Wiesner</u> 8 <u>Gary Zerfas</u> 8 <u>George Crawford Jr.</u> 8 SIGNED <u>AL Weber</u> 8 DRILLER
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**RED TIGER DRILLING COMPANY  
DAILY DRILLING REPORT**

RIG NO. 2 FARM Evel WELL NO. B-2 COMPANY Tom Lutz PUSHER M Waggoner DATE 3-28-90 Wrd

FOR 8 HOURS ENDING AT 7:30 A.M. HOURS RUN: <u>4 1/2</u> HOURS LOST: <u>3 1/2</u> CAUSE OF TIME LOST: <u>Below</u>	FOR 8 HOURS ENDING AT 3:30 P.M. HOURS RUN: <u>6</u> HOURS LOST: <u>2</u> CAUSE OF TIME LOST: <u>below</u>	FOR 8 HOURS ENDING AT 11:30 P.M. HOURS RUN: <u>6 1/4</u> HOURS LOST: <u>1 3/4</u> CAUSE OF TIME LOST: <u>BELOW</u>
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RECORD OF HOLE MADE				RECORD OF HOLE MADE				RECORD OF HOLE MADE			
FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET
375	800	SHALE & SAND		800	1740	shales - sands		1440	1497	Shale	
								1497	1865	Sand	
								1865	1957	Shale	
								1957	1992	Anhyd	

BIT RUN (KIND) <u>KL 5087 F-27</u> (NO.) <u>1</u> NO. OF HOURS RUN ROCK BIT: <u>4 1/2 HRS</u> CONE NOS. <u>KL 5087</u> SIZE <u>7/8</u> SET NO. <u>1</u> JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>	BIT RUN (KIND) <u>F27</u> (NO.) <u>1</u> NO. OF HOURS RUN ROCK BIT: <u>10 1/2</u> CONE NOS. <u>KL 5087</u> SIZE <u>7/8</u> SET NO. <u>1</u> JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>	BIT RUN (KIND) <u>F-27</u> (NO.) <u>1</u> NO. OF HOURS RUN ROCK BIT: <u>16 3/4</u> CONE NOS. <u>KL 5087</u> SIZE <u>7/8</u> SET NO. <u>1</u> JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>
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MUD USED (KIND AND AMOUNT): AQUAGEL HULLS ZEOGEL OTHER	MUD USED (KIND AND AMOUNT): AQUAGEL HULLS ZEOGEL OTHER	MUD USED (KIND AND AMOUNT): AQUAGEL HULLS ZEOGEL OTHER
--	--	--

DAY WORK (CORING, CIRCULATING, ETC.): <u>W.O.C</u> <u>Nipple up.</u>	DAY WORK (CORING, CIRCULATING, ETC.):	DAY WORK (CORING, CIRCULATING, ETC.): <u>Ch Rig 1/4 hr.</u> <u>Get Shale Pit @ 1719</u>
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CASING RECORD (SIZE, CEMENT, ETC.): <u>DRL Mut @</u> <u>2:00 AM</u>	CASING RECORD (SIZE, CEMENT, ETC.):	CASING RECORD (SIZE, CEMENT, ETC.):
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REMARKS:	REMARKS: <u>Ry Shale pit 10/216</u>	REMARKS: <u>4111 2 4 1990</u> Drilling Record
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NAME OF EMPLOYEE		NAME OF EMPLOYEE		NAME OF EMPLOYEE	
<u>Kevin Lynd</u>	<u>8</u>	<u>Dennis Finassy</u>	<u>8</u>	<u>Greg Wiesner</u>	<u>8</u>
<u>Tom Williams</u>	<u>8</u>	<u>Tom Nicholas</u>	<u>8</u>	<u>Gary Zertas</u>	<u>8</u>
<u>Brian Elliott</u>	<u>8</u>	<u>Amadeo Cassica</u>	<u>8</u>	<u>George Crawford Jr.</u>	<u>8</u>
SIGNED <u>Sack Odeman</u>	<u>8</u> DRILLER	SIGNED <u>Mike Waggoner</u>	<u>8</u> DRILLER	SIGNED <u>AL Weber</u>	<u>8</u> DRILLER

**RED TIGER DRILLING COMPANY  
DAILY DRILLING REPORT**

RIG NO. 2 FARM Evel WELL NO. B-2 COMPANY Tom Huntz PUSHER M. Waggoner DATE 3-29-90 Thur

FOR 8 HOURS ENDING AT 7:30 A.M. HOURS RUN: <u>7 3/4</u> HOURS LOST: <u>1/4</u> CAUSE OF TIME LOST: <u>Below</u>	FOR 8 HOURS ENDING AT 3:30 P.M. HOURS RUN: <u>3 1/4</u> HOURS LOST: <u>4 3/4</u> CAUSE OF TIME LOST: <u>below</u>	FOR 8 HOURS ENDING AT 11:30 P.M. HOURS RUN: <u>6</u> HOURS LOST: <u>2</u> CAUSE OF TIME LOST: <u>BELOW</u>
---	---	--

RECORD OF HOLE MADE				RECORD OF HOLE MADE				RECORD OF HOLE MADE			
FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET
1992	2292	SHALE		2292	2495	shale		2495	2720	Shale - Lime	

BIT RUN (KIND) <u>F-27</u> (NO.) <u>1</u> NO. OF HOURS RUN ROCK BIT: <u>2 1/2</u> HR CONE NOS. <u>KL5087</u> SIZE <u>7 7/8</u> SET NO. <u>1</u> JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>	BIT RUN (KIND) <u>F27 - 527 CM</u> (NO.) <u>1-2</u> NO. OF HOURS RUN ROCK BIT: <u>26 1/4 - 13/4</u> CONE NOS. <u>KL5087 - 37174</u> SIZE <u>7 7/8</u> SET NO. <u>1-2</u> JOINTS OF PIPE IN HOLE SIZE	BIT RUN (KIND) <u>F-27 CM</u> (NO.) <u>2</u> NO. OF HOURS RUN ROCK BIT: <u>7 3/4</u> CONE NOS. <u>37174</u> SIZE <u>7 7/8</u> SET NO. <u>2</u> JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>
---	---	--

MUD USED (KIND AND AMOUNT): <u>15 gal</u> AQUAGEL HULLS: <u>10 HULLS</u> ZEOGEL OTHER	MUD USED (KIND AND AMOUNT): AQUAGEL HULLS ZEOGEL OTHER	MUD USED (KIND AND AMOUNT): AQUAGEL HULLS ZEOGEL OTHER
---	--	--

DAY WORK (CORING, CIRCULATING, ETC.):	DAY WORK (CORING, CIRCULATING, ETC.): <u>Bit temp 2369</u> <u>Bit #1 cut 1994 in 26 1/4 hrs.</u> <u>09 1/2 bit #2 @ 1 pm</u>	DAY WORK (CORING, CIRCULATING, ETC.): <u>Ch. Rig. Jet #1</u> <u>@ 2682 + add Pre-mix</u>
---------------------------------------	--	---

CASING RECORD (SIZE, CEMENT, ETC.):	CASING RECORD (SIZE, CEMENT, ETC.): <u>airshed 7 stls</u> <u>to bottom</u>	CASING RECORD (SIZE, CEMENT, ETC.):
-------------------------------------	---	-------------------------------------

REMARKS: <u>Rig ✓ Set SHALE pit @</u> <u>2028</u>	REMARKS: <u>Rig det pits @ 2369</u>	REMARKS: <u>lost wdg. @ 2685</u> <u>Pull 3 stands</u>
--	-------------------------------------	--

NAME OF EMPLOYEE	NAME OF EMPLOYEE	NAME OF EMPLOYEE
<u>Kevin Lynd</u> 8	<u>Dennis Parnasy</u> 8	<u>Greg Wiesner</u> 8
<u>Tom Williams</u> 8	<u>Tom Nicholas</u> 8	<u>Gary Zerfas</u> 8
<u>Brian Elliott</u> 8	<u>Manoeta Coarlen</u> 8	<u>George Crawford Jr.</u> 8
SIGNED <u>Jack Coleman</u> 8 DRILLER	SIGNED <u>Alko Waggoner</u> DRILLER	SIGNED <u>AL Weber</u> 8 DRILLER

# RED TIGER DRILLING COMPANY DAILY DRILLING REPORT

RIG NO. 2 FARM EVEL WELL NO. B-2 COMPANY TOM LUTZ PUSHER M WAGGONER DATE 3-30-90 FRI

FOR 8 HOURS ENDING AT 7:30 A.M.	FOR 8 HOURS ENDING AT 3:30 P.M.	FOR 8 HOURS ENDING AT 11:30 P.M.
HOURS RUN: <u>7 3/4</u> HOURS LOST: <u>1/4</u>	HOURS RUN: <u>2</u> HOURS LOST: <u>6</u>	HOURS RUN: <u>7 1/4</u> HOURS LOST: <u>3/4</u>
CAUSE OF TIME LOST: <u>Below</u>	CAUSE OF TIME LOST: <u>below</u>	CAUSE OF TIME LOST: <u>BELOW</u>

RECORD OF HOLE MADE				RECORD OF HOLE MADE				RECORD OF HOLE MADE			
FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET
2720	2950	SHALE & Lime		2750	3145	shale w/ Lime str		3145	3285	Shale + Lime	

BIT RUN (KIND) <u>527 CM</u> (NO.) <u>2</u>	BIT RUN (KIND) <u>527 CM</u> (NO.) <u>2</u>	BIT RUN (KIND) <u>527 CM</u> (NO.) <u>2</u>
NO. OF HOURS RUN ROCK BIT: <u>15 1/2</u>	NO. OF HOURS RUN ROCK BIT: <u>2 1/2</u>	NO. OF HOURS RUN ROCK BIT: <u>28 3/4</u>
CONE NOS. <u>37174</u> SIZE <u>7 3/8</u> SET NO. <u>2</u>	CONE NOS. <u>37174</u> SIZE <u>7 1/8</u> SET NO. <u>2</u>	CONE NOS. <u>37174</u> SIZE <u>7 1/8</u> SET NO. <u>2</u>
JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>	JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>	JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>

MUD USED (KIND AND AMOUNT): <u>22 gel</u>	MUD USED (KIND AND AMOUNT):	MUD USED (KIND AND AMOUNT):
AQUAGEL <u>1 Lig</u>	AQUAGEL <u>44-gal</u>	AQUAGEL <u>44-Gel</u>
HULLS <u>1 CAUSTIC</u>	HULLS <u>2-caustic</u>	HULLS <u>2-caustic</u>
ZEOGEL <u>1 SODA ASH</u>	ZEOGEL <u>2-soda ash</u>	ZEOGEL <u>2-Soda Ash</u>
OTHER	OTHER <u>2-Lignite</u>	OTHER <u>2-Lignite</u>

DAY WORK (CORING, CIRCULATING, ETC.):

CASING RECORD (SIZE, CEMENT, ETC.):

REMARKS: Rig      REMARKS: Ry fluid loss 3000-3000      REMARKS: Ch Rig Gel Shale By a 2716

NAME OF EMPLOYEE		NAME OF EMPLOYEE		NAME OF EMPLOYEE	
Kevin Lynd	8	Devin Finney	8	Greg Wiesner	8
Tom Williams	8	Tom Nicholas	8	Gary Zefas	8
Brian Elliott	8	Anita Carrigan	8	George Crawford Jr.	8
SIGNED <u>Jack Coleman</u>	8	SIGNED <u>M. Wagoner</u>	8	SIGNED <u>AL Weber</u>	8

**RED TIGER DRILLING COMPANY  
DAILY DRILLING REPORT**

RIG NO. 2 FARM Evel WELL NO. B-2 COMPANY Tom Lut 2 PUSHER M. Waggner DATE 3-31-90 SAT

FOR 8 HOURS ENDING AT 7:30 A.M. HOURS RUN: <u>7 1/2</u> HOURS LOST: <u>1/2</u> CAUSE OF TIME LOST: <u>Below</u>	FOR 8 HOURS ENDING AT 3:30 P.M. HOURS RUN: <u>6 3/4</u> HOURS LOST: <u>1 1/4</u> CAUSE OF TIME LOST: <u>Below</u>	FOR 8 HOURS ENDING AT 11:30 P.M. HOURS RUN: <u>7 1/2</u> HOURS LOST: <u>1/2</u> CAUSE OF TIME LOST: <u>BELOW</u>
---	---	--

RECORD OF HOLE MADE				RECORD OF HOLE MADE				RECORD OF HOLE MADE			
FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET
3285	3490	SHALE + Lime		3490	3660	shale + lime		3660	3850	Shale + Lime	

BIT RUN (KIND) <u>527 CM</u> (NO.) <u>2</u> NO. OF HOURS RUN ROCK BIT: <u>36 1/4</u> CONE NOS. <u>37174</u> SIZE <u>7 3/8</u> SET NO. <u>2</u> JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>	BIT RUN (KIND) <u>527 CM</u> (NO.) <u>2</u> NO. OF HOURS RUN ROCK BIT: <u>43</u> CONE NOS. <u>37174</u> SIZE <u>7 1/8</u> SET NO. <u>2</u> JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>	BIT RUN (KIND) <u>527 CM</u> (NO.) <u>2</u> NO. OF HOURS RUN ROCK BIT: <u>50 1/2</u> CONE NOS. <u>37174</u> SIZE <u>7 1/8</u> SET NO. <u>2</u> JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>
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MUD USED (KIND AND AMOUNT): AQUAGEL <u>22 Gel</u> <u>10 gel</u> HULLS <u>1 Caustic</u> <u>2 Hulls</u> ZEOGEL <u>1 Soda Ash</u> <u>10</u> OTHER <u>1 Lignite</u> <u>mix</u>	MUD USED (KIND AND AMOUNT): AQUAGEL HULLS <u>4</u> ZEOGEL OTHER	MUD USED (KIND AND AMOUNT): AQUAGEL <u>30 Gel</u> HULLS <u>1 Caustic</u> ZEOGEL OTHER
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DAY WORK (CORING, CIRCULATING, ETC.):	DAY WORK (CORING, CIRCULATING, ETC.): <u>7:00-3:00</u> <u>Work on Rig &amp; 1 hr set pipe &amp; displacing mud</u>	DAY WORK (CORING, CIRCULATING, ETC.):
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CASING RECORD (SIZE, CEMENT, ETC.):	CASING RECORD (SIZE, CEMENT, ETC.):	CASING RECORD (SIZE, CEMENT, ETC.):
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REMARKS: <u>Rig ✓ Set shale pit @ 3404</u>	REMARKS:	REMARKS: <u>the Rig</u> <u>4 2 4 1990</u>
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NAME OF EMPLOYEE	NAME OF EMPLOYEE	NAME OF EMPLOYEE
<u>Kevin Lynd</u> 8	<u>Dennis Finnesy</u> 8	<u>Greg Wiesner</u> 8
<u>Tom Williams</u> 8	<u>Tom Nicholas</u> 8	<u>Gary Zervas</u> 8
<u>Brian Elliott</u> 8	<u>Aniceto Carneira</u> 8	<u>George Crawford Jr.</u> 8
SIGNED <u>Sack Coleman</u> 8 DRILLER	SIGNED <u>Mike Waggner</u> DRILLER	SIGNED <u>AL Weber</u> 8 DRILLER

# RED TIGER DRILLING COMPANY DAILY DRILLING REPORT

RIG NO. 2 FARM Evel WELL NO. B-2 COMPANY Tom Lutz PUSHER M. Wagoner DATE 4-1-90 Sun

FOR 8 HOURS ENDING AT 7:30 A.M. HOURS RUN: <u>7 3/4</u> HOURS LOST: <u>1/4</u> CAUSE OF TIME LOST: <u>Below</u>	FOR 8 HOURS ENDING AT 3:30 P.M. HOURS RUN: <u>7 1/2</u> HOURS LOST: <u>1/2</u> CAUSE OF TIME LOST: <u>below</u>	FOR 8 HOURS ENDING AT 11:30 P.M. HOURS RUN: <u>7 1/2</u> HOURS LOST: <u>1/2</u> CAUSE OF TIME LOST: <u>BELOW</u>
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RECORD OF HOLE MADE				RECORD OF HOLE MADE				RECORD OF HOLE MADE			
FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET
3850	3970	SHALE + Lime		3970	4125	Lime		4125	4215	Lime	

BIT RUN (KIND) <u>527 CM</u> (NO.) <u>2</u> NO. OF HOURS RUN ROCK BIT: <u>5 3/4</u> CONE NOS. <u>37174</u> SIZE <u>7 3/8</u> SET NO. <u>2</u> JOINTS OF PIPE IN HOLE SIZE <u>1 1/2</u>	BIT RUN (KIND) <u>527 CM</u> (NO.) <u>2</u> NO. OF HOURS RUN ROCK BIT: <u>6 3/4</u> CONE NOS. <u>37174</u> SIZE <u>7 1/2</u> SET NO. <u>2</u> JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>	BIT RUN (KIND) <u>527 CM</u> (NO.) <u>2</u> NO. OF HOURS RUN ROCK BIT: <u>7 3/4</u> CONE NOS. <u>37174</u> SIZE <u>7 1/2</u> SET NO. <u>2</u> JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>
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MUD USED (KIND AND AMOUNT): AQUAGEL HULLS ZEOGEL OTHER	MUD USED (KIND AND AMOUNT): AQUAGEL HULLS ZEOGEL OTHER <u>caustic 1</u>	MUD USED (KIND AND AMOUNT): AQUAGEL <u>10 Gel</u> HULLS <u>1 Caustic</u> ZEOGEL OTHER
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DAY WORK (CORING, CIRCULATING, ETC.):

CASING RECORD (SIZE, CEMENT, ETC.):

REMARKS: Rig ✓      Rig ✓      Rig ✓      4 1990

NAME OF EMPLOYER	NAME OF EMPLOYER	NAME OF EMPLOYER
Kevin Lynd 8	Dennis Finney 8	Greg Wiesner 8
Tom Williams 8	Tom Nickelos 8	Gary Zervas 8
Brian Elliott 8	Anastacia Carrisa 8	George Crawford Jr. 8
SIGNED Sack Coleman 8 DRILLER	SIGNED M. Wagoner DRILLER	SIGNED AL Weber 8 DRILLER



# RED TIGER DRILLING COMPANY DAILY DRILLING REPORT

RIG NO. 2 FARM Evil WELL NO. B-2 COMPANY Tom Lutz PUSHER M. Waggoner DATE 4-2-90 MON

FOR 8 HOURS ENDING AT 7:30 A.M. HOURS RUN: <u>7 3/4</u> HOURS LOST: <u>1/4</u> CAUSE OF TIME LOST: <u>Below</u>	FOR 8 HOURS ENDING AT 3:30 P.M. HOURS RUN: <u>7 1/2</u> HOURS LOST: <u>1/2</u> CAUSE OF TIME LOST: <u>Below</u>	FOR 8 HOURS ENDING AT 11:30 P.M. HOURS RUN: <u>7 3/4</u> HOURS LOST: <u>1/4</u> CAUSE OF TIME LOST: <u>BELOW</u>
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RECORD OF HOLE MADE				RECORD OF HOLE MADE				RECORD OF HOLE MADE			
FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET
4215	4305	Lime		4305	4405	Lime		4405	4490	Lime	

BIT RUN (KIND) <u>527 CM</u> (NO.) <u>2</u> NO. OF HOURS RUN ROCK BIT: <u>81</u> CONE NOS. <u>37174</u> SIZE <u>7 3/8</u> SET NO. <u>2</u> JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>	BIT RUN (KIND) <u>527 CM</u> (NO.) <u>2</u> NO. OF HOURS RUN ROCK BIT: <u>88 1/2</u> CONE NOS. <u>37174</u> SIZE <u>7 7/8</u> SET NO. <u>2</u> JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>	BIT RUN (KIND) <u>527 CM</u> (NO.) <u>2</u> NO. OF HOURS RUN ROCK BIT: <u>96 1/4</u> CONE NOS. <u>37174</u> SIZE <u>7 7/8</u> SET NO. <u>2</u> JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>
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MUD USED (KIND AND AMOUNT): AQUAGEL <u>1 CAUSTIC</u> HULLS ZEOGEL OTHER	MUD USED (KIND AND AMOUNT): AQUAGEL <u>1 CAUSTIC</u> HULLS ZEOGEL OTHER	MUD USED (KIND AND AMOUNT): AQUAGEL <u>1 CAUSTIC</u> HULLS ZEOGEL OTHER
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DAY WORK (CORING, CIRCULATING, ETC.):	DAY WORK (CORING, CIRCULATING, ETC.): <u>14 R B ✓</u>	DAY WORK (CORING, CIRCULATING, ETC.):
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CASING RECORD (SIZE, CEMENT, ETC.):	CASING RECORD (SIZE, CEMENT, ETC.):	CASING RECORD (SIZE, CEMENT, ETC.):
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REMARKS: <u>Rig ✓</u>	REMARKS: <u>Rig</u>	REMARKS: <u>OK Rig</u> <u>4/11 2 4 1990</u>
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NAME OF EMPLOYEE		NAME OF EMPLOYEE		NAME OF EMPLOYEE	
<u>Kevin Lynd</u>	<u>8</u>	<u>Dennis Finney</u>	<u>8</u>	<u>Greg Wiesner</u>	<u>8</u>
<u>Tom Williams</u>	<u>8</u>	<u>Tom Nicholas</u>	<u>8</u>	<u>Gary Zervas</u>	<u>8</u>
<u>Brian Elliott</u>	<u>8</u>	<u>Amiceto Carnica</u>	<u>8</u>	<u>George Crawford Jr</u>	<u>8</u>
SIGNED <u>SAR Coleman</u>	<u>8</u> DRILLER	SIGNED <u>Mike Waggoner</u>	DRILLER	SIGNED <u>AL Weber</u>	<u>8</u> DRILLER

# RED TIGER DRILLING COMPANY DAILY DRILLING REPORT

RIG NO. 2 FARM Ever WELL NO. B-2 COMPANY Tom Lutze PUSHER M. Waggoner DATE 4.3.90 Tues

FOR 8 HOURS ENDING AT 7:30 A.M.	FOR 8 HOURS ENDING AT 3:30 P.M.	FOR 8 HOURS ENDING AT 11:30 P.M.
HOURS RUN: <u>5</u> HOURS LOST: <u>3</u>	HOURS RUN: <u>0</u> HOURS LOST: <u>8</u>	HOURS RUN: <u>0</u> HOURS LOST: <u>8</u>
CAUSE OF TIME LOST: <u>Below</u>	CAUSE OF TIME LOST: <u>below</u>	CAUSE OF TIME LOST: <u>below</u>

RECORD OF HOLE MADE				RECORD OF HOLE MADE				RECORD OF HOLE MADE			
FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET
<u>4490</u>	<u>4600-70</u>	<u>Mississippian</u>		<u>4600</u>	<u>CTD</u>						
						<u>8 hrs. Co. Time</u>					
						<u>2 1/2 CTCH</u>					
						<u>6 hr Trip &amp; Logging</u>					

BIT RUN (KIND) <u>527 CM</u> (NO.) <u>2</u>	BIT RUN (KIND) (NO.)	BIT RUN (KIND) (NO.)
NO. OF HOURS RUN ROCK BIT: <u>10 1/4</u>	NO. OF HOURS RUN ROCK BIT:	NO. OF HOURS RUN ROCK BIT:
CONE NOS. <u>37174</u> SIZE <u>7 3/8</u> SET NO. <u>2</u>	CONE NOS. SIZE SET NO.	CONE NOS. SIZE SET NO.
JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>	JOINTS OF PIPE IN HOLE SIZE	JOINTS OF PIPE IN HOLE SIZE

MUD USED (KIND AND AMOUNT): AQUAGEL <u>176 gal</u> HULLS <u>1 CAUSTIC</u> ZEOGEL OTHER	MUD USED (KIND AND AMOUNT): AQUAGEL HULLS ZEOGEL OTHER	MUD USED (KIND AND AMOUNT): AQUAGEL HULLS ZEOGEL OTHER
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DAY WORK (CORING, CIRCULATING, ETC.):	DAY WORK (CORING, CIRCULATING, ETC.): <u>CTCH 1 1/2 hrs</u> <u>trip out for bag Logging 9:45am etc. // pipe log up to run to 12:00 noon trip in w/ bit 6:20 1:30pm 5/2</u>	DAY WORK (CORING, CIRCULATING, ETC.): <u>Lay down</u> <u>Raw 132' H NOW</u>
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CASING RECORD (SIZE, CEMENT, ETC.): <u>Short Trip 15</u> <u>STAIRS CTCH 1 1/2 HRS</u>	CASING RECORD (SIZE, CEMENT, ETC.): <u>CTCH 1 1/2 hrs</u>	CASING RECORD (SIZE, CEMENT, ETC.): <u>5 1/2" 14" pipe</u> <u>total of 4687' 55' to 4398'</u> <u>cement w/ sagal mud flush</u>
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REMARKS: <u>Rig v Set SHALE pit</u> <u>to Lower volume add bit w/ @4529</u>	REMARKS: <u>4/3/90</u> <u>W. H. K. S.</u>	REMARKS: <u>2000' 2/4000' 2/4000' 2/4000'</u> <u>1/2" CFR-3 plug down 2/11:00pm</u>
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NAME OF EMPLOYEE	NAME OF EMPLOYEE	NAME OF EMPLOYEE
<u>Kevin LYND</u> 8	<u>Dennis Fantasy</u> 8	<u>Greg Wiesner</u> 8
<u>Tom Williams</u> 8	<u>Tom Nicholas</u> 8	<u>Gary Zervas</u> 8
<u>Brian Elliott</u> 8	<u>Anita to Corcoran</u> 8	<u>George Crawford</u> 8
SIGNED <u>Jack Coleman</u> 8 DRILLER	SIGNED <u>M. S. Waggoner</u> DRILLER	SIGNED <u>AL Weber</u> DRILLER