

CONFIDENTIAL

ORIGINAL APR 16 1992

CONFIDENTIAL

SIDE ONE

RELEASED

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

MAY 20 1992

API NO. 15- 119-20,826-00-00

County Meade

SE SE SE Sec. 16 Twp. 35S Rge. 30 X East West

Operator: License # 30204

Name: H & L OPERATING COMPANY

Address P. O. BOX 7506

City/State/Zip AMARILLO, TEXAS 79114

Purchaser:

Operator Contact Person: RONALD P. MOON

Phone (806) 353-4331

Contractor: Name: SERVICE DRILLING CO.

License: 03363

Wellsite Geologist: PAUL GODOWIC

Designate Type of Completion

X New Well Re-Entry Workover

Oil SWD Temp. Abd.

X Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If OWO: old well info as follows:

Operator:

Well Name:

Comp. Date Old Total Depth

Drilling Method:

X Mud Rotary Air Rotary Cable

2-9-91 2/24/91 4/3/91

Spud Date Date Reached TD Completion Date

330 Ft. North from Southeast Corner of Section

330 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

Lease Name ADAMS RANCH Well # 1-16

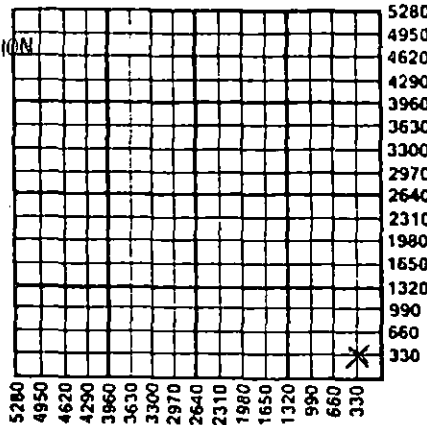
Field Name WILDCAT

Producing Formation MORROW

Elevation: Ground 2405 KB 2411

Total Depth 6470 PBTD 6387

RECEIVED
STATE CORPORATION COMMISSION
4-18-91
APR 18 1991
CONSERVATION DIVISION
Wichita, Kansas



Amount of Surface Pipe Set and Cemented at 1464 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.

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 Ronald P. Moon

Title OPERATIONS MANAGER Date 4/11/91

Subscribed and sworn to before me this 16th day of April, 1992

Notary Public JANET PALMER My Commission Expires 12-15-92

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 H & L OPERATING COMPANY Lease Name ADAMS RANCH Well # 1-161
 Sec. 16 Twp. 35S Rge. 30 East West County MEADE CO., KANSAS

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.)

ATTACHED DST INFORMATION

Formation Description		
	<input checked="" type="checkbox"/> Log	<input type="checkbox"/> Sample
Name	Top	Bottom
Wolfcamp	2408	(+ 3)
Council Grove	2841	(-430)
Heebner	4211	(-1800)
Kansas City	4494	(-2083)
Morrow	5659	(-3248)
Chester	5791	(-3480)
St. Gen.	6053	(-3642)
St. Louis	6114	(-3703)
Spargen	6315	(-3904)

CASING RECORD <input checked="" type="checkbox"/> New <input checked="" 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	8518	23	1464	Class C	620	2% CaCl
Production	7 7/8	4 1/2	11.6	6449	Class C	350	5% KCl
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			Amount and Kind of Material Used		Depth	
2	6196-6202 (St. Louis)			1000 gal 15% Fe Acid 15% HCl Acid frac		6000 gal 6196-6202	
4	5705-5715 (Upper Morrow)					5705-5715	
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Size		Set At	Packer At				
2-3/8		6160	6095				
Date of First Production	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)						
Estimated Production Per 24 Hours	Oil	Sble.	Gas	Mcf	Water	Sble.	Gas-Oil Ratio
		10	3000		0		300,000:1
							66.1

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

METHOD OF COMPLETION: Open Hole Perforation Casing Completed Coningled

Other (Specify) St. Louis zone not to be produced at this time.

Production Interval

CONFIDENTIAL ORIGINAL

KCC

DST INFORMAION:

ATTACHMENT

RELEASED

APR 16 1992

ADAMS RANCH 1-16

MAY 20 1992

CONFIDENTIAL

FROM CONFIDENTIAL

DST #1 LANSING - 4366'-4380', 30"-60"-60"-120" REC 300' gassy, oily, muddy saltwater, 960' muddy SW with 2880' gas in D.P. IH 2162, 30" IF 166# to 366# 60" ICIP 1363#, 60" FF 349# to 618#, 120" FCIP 1380#, FH 2097#, DST #2 Upper Morrow 5662' to 5720' Rec 6' cond., gas to surface in 3", IH 2654, 30" IF 1752 to 1797, 60" ICIP 1825#, 30" FF 1752# to 1781#, 120" FCIP 1825#, FH 2634, 1st flow 9000 M/D, 2nd flow 9700 M/D

RECEIVED
STATE CORPORATION COMMISSION

APR 18 1991

CONSERVATION DIVISION
Wichita, Kansas

INVOICE

WELL FILE HALLIBURTON SERVICES

A Halliburton Company

HEMIT TO

DALLAS, TX 75201-1046

CONFIDENTIAL

048690 02/24/1991

WELL LEASE NO./PLANT NAME WELL/PLANT LOCATION STATE WELL/PLANT OWNER

ADAMS RANCH 1-16 MEADE KS SAME

LIBERAL SERVICE #3 CEMENT PRODUCTION CASING 02/24/1991

ACCT. NO. CUSTOMER AGENT VENDOR NO. CUSTOMER P.O. NUMBER SHIPPED VIA FILE NO.

151133 BOB MCGARRAUGH COMPANY TRUCK 11325

DIRECT CORRESPONDENCE TO:
H & L OPERATING CO
P O BOX 7506
AMARILLO, TX 79109
FIRST OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	PRICING AREA - MID CONTINENT MILEAGE	32	MI	2.35	75.20
000-118	MILEAGE SURCHARGE-CEMENT-LAND	32	MI	.40	12.80
001-016	CEMENTING CASING	6450	FT	1,475.00	1,475.00
30-016	CEMENTING PLUG 5W ALUM TOP	4 1/2	IN	35.00	35.00
18-738	CLAYFIX II	8	GAL	20.00	160.00
2A	GUIDE SHOE - 4 1/2" 8RD THD.	1	EA	83.00	83.00
825.201	INSERT FLOAT VALVE - 4 1/2" 8RD	1	EA	73.00	73.00
815.19101	FILL-UP UNIT 4 1/2"-5"	1	EA	27.50	27.50
915.19111	FLUIDMASTER CENTRALIZER 4 1/2"	14	EA	42.00	588.00
007.93504	HALL. LIGHT -PREMIUM PLUS	350	BK	6.29	2,201.50
07-145	CFR-2	65	LB	3.85	250.25
8-002	POTASSIUM CHLORIDE	1300	LB	.25	325.00
8-291	GILSONITE BULK	1750	LB	.35	612.50
7-665	HALAD-9	139	LB	7.50	1,042.50
0-307	MILEAGE SURCHARGE-CEMENT MAT.	1065.93	TMI	.10	106.59
0-207	BULK SERVICE CHARGE	385	CFT	1.10	423.50
0-306	MILEAGE CMTG MAT DEL OR RETURN	1065.93	TMI	.75	799.45

RECEIVED
STATE CORPORATION COMMISSION
APR 18 1991
CONSERVATION DIVISION
Wichita, Kansas

INVOICE SUBTOTAL 6,290.79
DISCOUNT-(SPECIAL) 829.09-
*-KANSAS STATE SALES TAX 247.14

MAY 20 1992

FROM CONFIDENTIAL

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

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

INVOICE

HALLIBURTON SERVICES

A Halliburton Company

ORIGINAL

REMIT TO: P.O. BOX 991044 DALLAS, TX 75399-1044

CONFIDENTIAL 043620 02/24/1991

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
ADAMS RANCH 1-16		MEADE		KS	SAME	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
LIBERAL		SERVICE #3		CEMENT PRODUCTION CASING		02/24/1991
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.	
351133	BOB MCGARRAUGH			COMPANY TRUCK	11325	

H & L OPERATING CO
P O BOX 7506
AMARILLO, TX 79109

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

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
	*-SEWARD COUNTY SALES TAX				58.16
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					87,767.00

RECEIVED
STATE CORPORATION COMMISSION
APR 18 1991
CONSERVATION DIVISION
Wichita, Kansas

RELEASED
MAY 20 1992
FROM CONFIDENTIAL

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

HALIBURTON SERVICES
Duncan, Oklahoma 73114

A Division of Halliburton Company

KCC NO. **093316-3**

ORIGINAL

APR 16 1992

APR 16 1992

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME Adams Ranch #1		COUNTY Meade	STATE Kansas	CITY / OFFSHORE LOCATION CONFIDENTIAL	DATE APR 16 1992
CHARGE TO Service Drilling		OWNER HELORATING CO.	TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>		MITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS Service Ric #3		CONTRACTOR Service Ric #3	LOCATION 1 Liberal		CODE 25540
CITY, STATE, ZIP		SHIPPED VIA CO TRK	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT	LOCATION 2 Hugoton	
WELL TYPE 01		WELL CATEGORY 01	WELL PERMIT NO. B-907190	LOCATION 3	
TYPE AND PURPOSE OF JOB 010 cement 5 5/8 surface ccs		ORDER NO. Location		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	20	mi			2.35	47	00
000-118		1		mileage surcharge	20	mi			.40	8	00
001-016		1		Pump charge	1464	FT				835	00
12 A	825.217	1		Guide shoe	1	ea				188	00
24 A	815.19502	1		insert float	1	ea				171	00
27	815.11114	1		Fillup Assembly	1	ea				29	00
40	807.93059	1		centralizer	3	ea				159	00
030-018		1		TOP Rubber Plus						130	00

RECEIVED
STATE CORPORATION COMMISSION

APR 18 1992

CONSERVATION DIVISION
Wichita, Kansas

Approved for Payment

Date _____

Charge to _____

Ddg. Tan.

Compl. Intang.

Other

Bill Partners

Yes No

Initial _____

RELEASED

MAY 20 1992

FROM CONFIDENTIAL

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B-907190

5825 68

WAS JOB SATISFACTORILY COMPLETED? _____
WAS OPERATION OF EQUIPMENT SATISFACTORY? _____
WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

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.

Bill Jauler

HALLIBURTON OPERATOR

HALLIBURTON APPROVAL

FIELD OFFICE

SUB TOTAL

7392.68

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

X **Travis St...**
CUSTOMER OR HIS AGENT (PLEASE PRINT)
X **Travis St...**
CUSTOMER OR HIS AGENT (SIGNATURE)

740 22 '92

ORIGINAL AND TICKET CONTINUATION

FOR INVOICE AND TICKET NO. **093316**
KCC

DATE 2-10-91	CUSTOMER ORDER NO.	WELL NO. AND FARM Adams Ranch # 1	COUNTY Beaver	STATE OK
CHARGE TO Service Drlg. Co.		OWNER H & J. Operating	CONTRACTOR/NO. CONFIDENTIAL No. B 907190	
MAILING ADDRESS		DELIVERED FROM Hugoton	LOCATION CODE 25535	PREPARED BY Rick Rawlins
CITY & STATE		DELIVERED TO Loc. IN/Forgan, OK	TRUCK NO.	RECEIVED BY

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
		L	D		QTY.	MEAS.	QTY.	MEAS.			
504-050	516.00265	2	B	Premium Plus Cement	150	sk			7.08	1062	00
504-120		2	B	Halliburton Light Cement	470	sk			6.29	2956	30
507-210	890.50071	2	B	Flocale blended W/470	118	lb			1.30	153	40
509-406	890.50812	2	B	Calcium Chloride blended 27	12	sk			26.25	315	00
500-307		2	B	Mileage Surcharge	731.5125				.10	73	15
500-207		2	B	SERVICE CHARGE				652	1.10	717	20
500-306		2	B	Mileage Charge	58521		25	731.5125	.75	548	53
No. B907190						CARRY FORWARD TO INVOICE			SUB-TOTAL		

RELEASED
MAY 20 1991
RECEIVED
STATE CORPORATION COMMISSION
APR 18 1991
CONSERVATION DIVISION
Wichita, Kansas
FROM CONFIDENTIAL

ORIGINAL

AND PRE-TREATMENT DATA

KCO

ATTACH TO INVOICE & TICKET NO. 093316

DISTRICT Liberal Ks

APR 16 1992

DATE 8-10-91

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

WELL NO. 1 LEASE Adams Ranch SEC. 16 TWP. 35S RANGE 30W

FIELD COUNTY Meade STATE Ks OWNED BY H+L Operating Co.

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME TYPE
FORMATION THICKNESS FROM TO
PACKER: TYPE SET AT
TOTAL DEPTH MUD WEIGHT
BORE HOLE
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, LINER, TUBING, OPEN HOLE, PERFORATIONS.

PREVIOUS TREATMENT: DATE TYPE MATERIALS Wichita, Kansas

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED
Cement 8 5/8 surface csq w/ 470 SKS Prem Plus Lite w/ 2% cc + 1/2" sk floccle - 150 SKS Prem Plus w/ 2% cc
Displace 5-wiper top plug w/ water

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

- As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED
a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list.
b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies...
c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others...
d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials.
e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well...
f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act...
g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing...

RELEASED

MAY 20 1992

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

SIGNED [Signature] CUSTOMER

DATE

TIME A.M. P.M.

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

FROM CONFIDENTIAL

FIELD OFFICE

WELL DATA

FIELD _____ SEC. *16* TWP. *35S* RING. *30N* COUNTY *Meade* 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	APPROX. FROM 1900 TO	MAXIMUM PSI ALLOWABLE
CASING	<i>N</i>	<i>21</i>	<i>8 5/8</i>	<i>1282</i> <i>1564</i>	
LINER					
TUBING					
OPEN HOLE			<i>18 1/4</i>	<i>182</i> <i>1464</i>	SHOTS/FT.
PERFORATIONS					
PERFORATIONS					
PERFORATIONS					

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
<i>8 5/8</i>		
FLOAT COLLAR <i>w/ fillup</i>	<i>1</i>	<i>H</i>
FLOAT SHOE		<i>O</i>
GUIDE SHOE <i>Key</i>	<i>1</i>	<i>W</i>
CENTRALIZERS <i>S-4</i>	<i>3</i>	<i>C</i>
BOTTOM PLUG		<i>H O</i>
TOP PLUG <i>5-wire</i>	<i>1</i>	<i>O</i>
HEAD <i>DETC</i>	<i>1</i>	<i>W</i>
PACKER		<i>C</i>
OTHER		<i>O</i>

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <i>2-10-91</i>	DATE <i>2-10-91</i>	DATE <i>2-10-91</i>	DATE <i>2-10-91</i>
TIME <i>0600</i>	TIME <i>0915</i>	TIME <i>1200</i>	TIME <i>1400</i>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<i>Bill Sauter</i>	<i>11078</i>	<i>Liberal Ks</i>
<i>64781</i>	<i>P.U.</i>	
<i>Bill Young</i>		<i>" "</i>
<i>D 41124</i>		
<i>Robert Edward</i>	<i>50856-1034</i>	<i>" "</i>
<i>Callahan</i>	<i>75701 P.O.</i>	
<i>D 9259</i>	<i>3233</i>	<i>Hopkinton Ks</i>
	<i>HW 12</i>	
<i>Marvin</i>	<i>D 9996</i>	<i>" "</i>
	<i>5303</i>	
	<i>HW 12</i>	

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 _____

OTHER _____

OTHER _____

DEPARTMENT *Cement*

DESCRIPTION OF JOB *Cement surface casing with slickline*
displace 5-wire top plug with water

STATE CORPORATION COMMISSION

RECEIVED

APR 18 1991

CONSERVATION DIVISION
Wichita, Kansas

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE *X James Strickland*

HALLIBURTON OPERATOR _____ COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<i>1</i>	<i>470</i>	<i>Prest Plus</i>	<i>Lightweight</i>	<i>2700</i>	<i>1/4% Hecol</i>	<i>2.08</i>	<i>12.1</i>
<i>2</i>	<i>150</i>	<i>Prest Plus</i>	<i>Lightweight</i>	<i>8</i>	<i>2700</i>	<i>1.32</i>	<i>11.8</i>

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 *126.01* REASON *Shoe joint*

SUMMARY

VOLUMES

PRESLUSH: BBL.-GAL. _____ TYPE _____

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

TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. *902*

CEMENT SLURRY: BBL.-GAL. *110.4 + 35.2*

TOTAL VOLUME: BBL.-GAL. *299.6*

REMARKS *Circulated approx 15 BBL cement to pit*

RELEASED

MAY 20 1992

CUSTOMER SERVICES DATA
LEASE ADAMS Ranch
WELL NO. 1
JOB TYPE Coat surface casing 2-10-91

JOB LOG

WELL NO. 1 LEASE/BLK/SEC 157/11/1 TICKET NO. 157/11/1
 CUSTOMER Service Drilling PAGE NO. 1
 JOB TYPE 8 5/8 SURFACE DATE 2-10-91 KCC

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS			PRESSURE (PSI)			DESCRIPTION OF OPERATION AND MATERIALS
				T	(G)		TUBING	CASING		
	0600									ORIGINAL called out on location Rig Drilling start Running CSS Hook up circ w/Rig Hook up Pump Truck mix cement lead Tail DisPlace Bump Plug Release Press Float Held circulated APPROX 15 BBL TO PIT Job complete Thank You For calling Halliburton Services Bill Jauber and crew
	0900									
	1210									
	1225									
	1230	7.4	172.4					200		
	1253	5	35.2					250		
	1301	5	91.5					500		
	1319	2	91.5					1000		
	1320									

APR 16 1992
 CONFIDENTIAL

RECEIVED
 STATE CORPORATION COMMISSION

APR 18 1991

CONSERVATION DIVISION
 Wichita, Kansas

RELEASED

MAY 20 1992

FROM CONFIDENTIAL