

ORIGINAL

SIDE ONE

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

Operator: License # 6194

Name: E.S.P. Development, Inc.

Address R.R. #1 Box 18

City/State/Zip Paradise, Kansas 67658

Purchaser: \_\_\_\_\_

Operator Contact Person: Lewis Eulert

Phone (913) 998-4413

Contractor: Name: Western Kansas Drilling, Inc.

License: 4083

Wellsite Geologist: Randall Kilian

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

11-9-90 11-16-90 11-16-90

Spud Date Date Reached TD Completion Date

API NO. 15- 167-22,937-0000

County Russell

N/2 SW SW Sec. 22 Twp. 11 Rge. 15  East West

990' Ft. North from Southeast Corner of Section

4620' Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

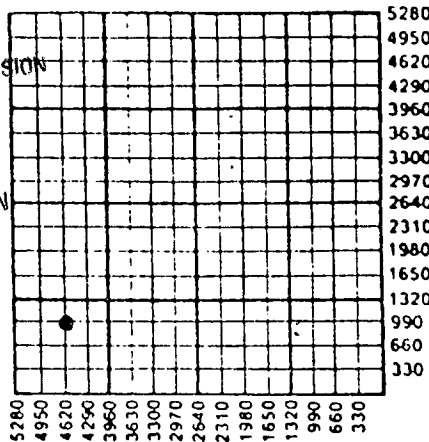
Lease Name Eulert Ranch C Well # #1

Field Name unknown

Producing Formation Arbuckle

Elevation: Ground 1840' KB 1845'

Total Depth 3314' PBTD 3450' RTKCL



3-11-91

Amount of Surface Pipe Set and Cemented at 211' Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set 960 Feet

If Alternate II completion, cement circulated from 960

feet depth to 0 w/ 225 sx cmt.

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JAN 23 1991  
CONSERVATION DIVISION  
Wichita, Kansas

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 Lewis Eulert - LEWIS EULERT

Title PRESIDENT Date 1-21-91

Subscribed and sworn to before me this 21 day of January, 19 91.

Notary Public Verita V. Scott

VERITA V. SCOTT  
State of Kansas  
My Appt. Exp. 2-19-91

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 E.S.P. Development, Inc. Lease Name Eulert Ranch C Well # 1  
 Sec. 22 Twp. 11 Rge. 15  East County Russell  
 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Formation Description</b> <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample <table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Bottom</th> </tr> </thead> <tbody> <tr> <td>Anh.</td> <td>917</td> <td>+ 928</td> </tr> <tr> <td>Topeka</td> <td>2678</td> <td>- 833</td> </tr> <tr> <td>Heeb.</td> <td>2930</td> <td>-1085</td> </tr> <tr> <td>Lans.</td> <td>2980</td> <td>-1135</td> </tr> <tr> <td>Base Kc.</td> <td>3240</td> <td>-1395</td> </tr> <tr> <td>Arbuckle</td> <td>3308</td> <td>-1463</td> </tr> <tr> <td>RTD</td> <td>3316</td> <td>-1471</td> </tr> </tbody> </table>	Name	Top	Bottom	Anh.	917	+ 928	Topeka	2678	- 833	Heeb.	2930	-1085	Lans.	2980	-1135	Base Kc.	3240	-1395	Arbuckle	3308	-1463	RTD	3316	-1471
Name	Top		Bottom																							
Anh.	917		+ 928																							
Topeka	2678		- 833																							
Heeb.	2930	-1085																								
Lans.	2980	-1135																								
Base Kc.	3240	-1395																								
Arbuckle	3308	-1463																								
RTD	3316	-1471																								
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																									
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																									
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																									

**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	19#	211'	60/40 poz	135sks	2% gel, 3% cc
Production	7 7/8	5 1/2	14#	3311'	60/40poz	150sks	2% gel 10% salt 5% gilsonite
					60/40 poz	225sks	6% gel

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	open hole completion	comp. natural	3311'

**TUBING RECORD** Size 2 3/8 Set At 3311' Packer At n/a Liner Run  Yes  No

Date of First Production 12-13-90 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain) 0

Estimated Production Per 24 Hours	Oil <u>36</u> bbls.	Gas <u>0</u> Mcf	Water <u>0</u> Bbls.	Gas-Oil Ratio	Gravity <u>20</u>
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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 3311- 3314'

# DRILL STEM TESTS

NO	INTERVAL	IFF/TIME	ISIP/TIME	FFP/TIME	FSIP/TIME	IHP/FHP	RECOVERY
1	Top.	41#	165#	41#	107#	1540#	211' GIP
	2700-	41#		49#		1473#	60' GOCMud
	2720'	30"	30"	30"	30"		30' S.L.OCMud
2	Lans.	124#	568#	331#	644#	1658#	680' GNWater
	2985-	199#		386#		1626#	
	3074'	30"	30"	45"	45"		
3	Arb.	43#	794#	76#	774#	1904#	60' GIP
	3293-	54#		97#		1801#	65' Oil
	3314'	30"	30"	45"	60"		200' Muddy G
4							
5							
6							
7							

15-167-22937-0000

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DRILLER'S LOG

Operator: E.S.P. Development, Inc.

Contractor: Western Kansas Drilling, Inc.

Well & Well Description: Eulert Ranch C #1  
N/2-SW-SW 22-11-15 Russell County, Kansas

Commenced: 11-9-90

Completed: 11-16-90

Character of Well: Oil Well

Elevation: 1840' GL 1845' K.B.

Casing: Ran 5jts. of 8 5/8 set @ 211'  
Ran 107jts. of 5 1/2 set @ 3311'

Figures Indicate Bottom of Formations

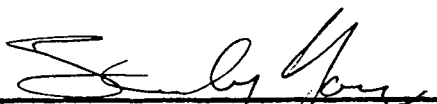
0' - 920' Sand & Shale  
920' - 953' Anhy.  
953' - 2470' Sand & Shale  
2470' - 3018' Lime & Shale  
3018' - 3120' Lime & Shale  
3120' - 3314' Lime & Shale & Dolomite

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JAN 23 1991

CONSERVATION DIVISION  
Wichita, Kansas

State of Kansas )  
County of Ellis ) ss:

I Stanley Younger, President of Western Kansas Drilling, Inc. upon oath state that the above and foregoing is a true and correct copy of the log of the Eulert Ranch C #1

  
Stanley Younger, President

ORIGINAL



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

INVOICE

INVOICE NO.	DATE
060780	11/16/1990

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
EULERT RANCE C-1		RUSSELL		KS	ESP DEVELOPMENT	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
GREAT BEND		WESTERN KANSAS DRLG.		CEMENT PRODUCTION CASING		11/16/1990
ACCT NO.	CUSTOMER AGENT		VENDOR NO.	CUSTOMER P.O. NUMBER		SHIPPED VIA
955560	FRANK TAGGART					COMPANY TRUCK
						05431

DIRECT CORRESPONDENCE TO:

WESTERN KANSAS EXPLORATION  
P O BOX 126  
HAYS, KS 67601-0126

SUITE 1300  
LIBERTY TOWER  
100 BROADWAY AVENUE  
OKLAHOMA CITY, OK 73102-0000

PRICE REF NO	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
<b>PRICING AREA - MID CONTINENT</b>					
000-117	MILEAGE	21	MI	2.35	49.35
		1	UNT		
000-118	MILEAGE SURCHARGE-CEMENT-LAND	21	MI	.40	8.40
		1	UNT		
007-013	MULT STAGE CEMENTING-1ST STAGE	3311	FT	1,095.00	1,095.00
001-016		1	UNT		
007-161	MULT STAGE CEMENTING-ADD STAGE	1	STG	950.00	950.00
		1	UNT		
80	FORM PKR SHOE FLAP VLV 5 1/2"	1	EA	2,400.00	2,400.00
855.137					
82	FILL-UP UNIT	1	EA	45.00	45.00
855.02543					
71	MULT STAGE CMTR-5-1/2 8RD	1	EA	2,450.00	2,450.00
813.80300					
75	PLUG SET 5 1/2"	1	EA	400.00	400.00
812.0162					
40	CENTRALIZER 5-1/2" MODEL S-4	6	EA	44.00	264.00
807.93022					
320	CEMENT BASKET 5 1/2"	2	EA	90.00	180.00
800.8883					
595	LATCH-DOWN SHUTOFF PLUG 5 1/2"	1	EA	345.00	345.00
812.01695					
504-308	STANDARD CEMENT	225	SK	5.45	1,226.25
506-105	POZMIX A	150	SK	2.88	432.00
506-121	HALLIBURTON-GEL 2X	6	SK	.00	N/C
507-277	HALLIBURTON-GEL BENTONITE	8	SK	13.75	110.00
509-968	SALT	750	LB	.10	75.00
508-292	GILSONITE, SACKED	750	LB	.42	315.00
500-307	MILEAGE SURCHARGE-CEMENT MAT.	369.27	TMI	.10	36.93
500-207	BULK SERVICE CHARGE	401	CFT	1.10	441.10
500-306	MILEAGE CMTG MAT DEL OR RETURN	369.27	TMI	.75	276.95

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Wichita, Kansas

\*\*\*\*\* 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

**INVOICE**

**HALLIBURTON SERVICES**

DALLAS, TX 75395-1046

A Halliburton Company

INVOICE NO.	DATE
060780	11/16/1990

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
ULERT RANCE C-1		RUSSELL		KS	ESP DEVELOPMENT	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
REAT BEND		WESTERN KANSAS DRLG.		CEMENT PRODUCTION CASING		11/16/1990
ACCT NO	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.	
55560	FRANK TAGGART			COMPANY TRUCK	05431	

DIRECT CORRESPONDENCE TO:

WESTERN KANSAS EXPLORATION  
 P O BOX 126  
 HAYS, KS 67601-0126

SUITE 1300  
 LIBERTY TOWER  
 100 BROADWAY AVENUE  
 OKLAHOMA CITY, OK 73102-0000

PRICE REF NO	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
	INVOICE SUBTOTAL				11,099.98
	DISCOUNT-(BID)				1,664.97-
	INVOICE BID AMOUNT				9,435.01
	*-KANSAS STATE SALES TAX				309.60
	*-BARTON COUNTY SALES TAX				72.84
	<b>INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====&gt;</b>				<b>\$9,817.45</b>

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 Wichita, Kansas

102800  
 999/01  
 3260  
 DATE PD. 12/12/90

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

FORM 1906 R-11

WELL NO - FARM OR LEASE NAME: **C-1 Eleret Ranch** COUNTY: **Russell** STATE: **Ks.** CITY / OFFSHORE LOCATION: DATE: **11-16-90**

CHARGE TO: **Western Kansas Exploration** OWNER: **ESP Development** TICKET TYPE (CHECK ONE): SERVICE  SALES  NITROGEN JOB: YES  NO

ADDRESS: **Western Kansas Drly Rig #1** CONTRACTOR: **1 Greet Bend, Ks 25520** LOCATION: **2** CODE: **25520**

CITY, STATE, ZIP: **Co Trk** SHIPPED VIA: **PPD** FREIGHT CHARGES: **COLLECT** LOCATION: **3** CODE: **25520**

WELL TYPE: **01** WELL CATEGORY: **01** WELL PERMIT NO.: **15-167-22,937** DELIVERED TO: **Location** LOCATION: **3** CODE: **25520**

TYPE AND PURPOSE OF JOB: **035** 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	21	mi			2.35	49 35
000-118		1		Overage Surcharge	21	mi			.40	8 40
007-013	001-016	1		First Stage Pump Charge	8	hr	3311	ft	1095.	1095 00
007-161		1		Second Stage Pump Charge	8		960	ft	950.00	950 00
80	855.137	1	00819	Pecker Shoe	1	cc	5 1/2		2400.	2400 00
82	855.02545	1		Auto Fillup	1	cc	1"		45.00	45 00
71	813.80300	1		Multiple Stage Cementer	1	cc	5 1/2		2450.	2450 00
75	812.0162	1		Two Stage Free Fall Plug Set	1	cc	5 1/2		400.	400 00
40	807.93022	1		Centralizers	6	cc	5 1/2		44.00	264 00
320	800.8883	1		Cement Baskets	2	cc	5 1/2		90.00	180 00
595	812.01645	1	00885	latch-down shut-off Plug	1	cc	5 1/2		345.00	345 00

COPY

FEB 6 1991

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. **B-904258**

2913 23

WAS JOB SATISFACTORILY COMPLETED? \_\_\_\_\_

WAS OPERATION OF EQUIPMENT SATISFACTORY? \_\_\_\_\_

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? \_\_\_\_\_

X Frank Tarrant  
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.

Jerry Bennett  
HALLIBURTON OPERATOR

Bill Johnson  
FIELD OFFICE

HALLIBURTON APPROVAL

①

SUB TOTAL: **11,099 98**

APPLICABLE TAXES WILL BE ADDED ON INVOICE.





DISTRICT ProH, Ks.

DATE 11 16 90

HALLIBURTON SERVICES

YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO:

Western Kansas Exploration (CUSTOMER)

AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. C-1 LEASE Enlert Ranch SEC 22 TWP. 11 RANGE 15

COUNTY Russell STATE Ks. OWNED BY ESP Development

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION MEASURE TYPE \_\_\_\_\_

FORMATION THICKNESS FROM \_\_\_\_\_ TO \_\_\_\_\_

DRILLER: TYPE \_\_\_\_\_ SET AT \_\_\_\_\_

DRILLING DEPTH \_\_\_\_\_ MUD WEIGHT \_\_\_\_\_

DRILLING RATE HOLE \_\_\_\_\_

DRILLING FLUID PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF \_\_\_\_\_

DRILLING FLUID PRESENT PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF \_\_\_\_\_

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	U	14	5 1/2	KB	3311	
LINER DV					960	DV Tool
TUBING						
OPEN HOLE			7 7/8	3311	3314	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

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

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

Set 5 1/2" at 3311' w/ 150 sks (40.60) Pozmix 2% gel, 10% salt, 5% gilsonite per skt  
1 sks gel ahead of cement  
Second Stage DV Tool at 960' w/ 225 sks 40.60 Pozmix 6% Total Gel

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

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

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

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability 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.
- c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
- d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
- e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
- f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

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

SIGNED [Signature] CUSTOMER

DATE 11 16 90

TIME 10 30 A.M. (P.M.)

CUSTOMER Western Kansas Exploratory Lease Enteract Reach WELL NO. C-1 JOB TYPE 5% Longstring DATE 11-16-90

WELL DATA

FIELD SEC 22 TWP 11 RNG 15 COUNTY Russell 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

Table with columns: NEW USED, WEIGHT, SIZE, FROM, TO, MAXIMUM PSI ALLOWABLE. Rows: CASING, LINER, TUBING, OPEN HOLE, PERFORATIONS.

JOB DATA

Table with columns: CALLED OUT, ON LOCATION, JOB STARTED, JOB COMPLETED. Rows: DATE, TIME.

TOOLS AND ACCESSORIES

Table with columns: TYPE AND SIZE, QTY., MAKE. Rows: FLOAT COLLAR, FLOAT SHOE, CENTRALIZERS, BOTTOM PLUG, TOP PLUG, HEAD, PACKER, OTHER.

PERSONNEL AND SERVICE UNITS

Table with columns: NAME, UNIT NO. & TYPE, LOCATION. Rows: J Bennett, K Gordley, D Ramsey.

MATERIALS
TREAT. FLUID DENSITY LB/GAL-API
DISPL. FLUID DENISTY 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.
PERFPAC BALLS TYPE QTY.
OTHER

DEPARTMENT Cement
DESCRIPTION OF JOB Set 5% Long String
JOB DONE THRU: TUBING, CASING, ANNULUS, TBG/ANN.
CUSTOMER REPRESENTATIVE Frank Toggiani
HALLIBURTON OPERATOR Jerry Bennett
COPIES REQUESTED

CEMENT DATA

Table with columns: STAGE, NUMBER OF SACKS, CEMENT, BRAND, BULK SACKED, ADDITIVES, YIELD CU.FT./SK., MIXED LBS./GAL. Rows: 1, 2.

PRESSURES IN PSI

SUMMARY

VOLUMES

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 11.85 REASON Insert

PRESLUSH BBL-GAL 2.5 TYPE Gel
LOAD & BKDN: BBL-GAL
TREATMENT: BBL-GAL
CEMENT SLURRY: BBL-GAL 34 - .613
TOTAL VOLUME: BBL-GAL
REMARKS
Total casing 3317.88'
DV Tool at 960.63'

# JOB LOG

WELL NO. \_\_\_\_\_ LEASE Western Kansas Exploration TICKET NO. 1  
 CUSTOMER Western Kansas Exploration PAGE NO. 1  
 JOB TYPE 5 1/2 Long String DATE 11-16-90

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0900							Colled out
	1200							On location
	1300							Set up trucks
								Stage One
	1515							Break circulation
	1538				✓		1400	Set Packer Shoe at 3311'
	1545	5.74	0		✓		400	Start mixing cement
	1552		34		✓		250	Finish mixing cement
	1553		—				—	Clear lines - Release Plug
	1554	1	1		✓		100	Start displacement
	1605	8	80.6		✓		1300	Plug down at 3299.15'
							ND	By wireline
	1607						OK	Release Float held
								Stage Two
	1614				✓			Drop bomb to open DV
	1624				✓		1250	Open DV Tool
	1645	4.1	0		✓		125	Start mixing cement
	1700	4.3	61.3		✓		164	Finish mixing cement
	1701		—				—	Release Plug
	1702	1	1		✓		250	Start displacement
	1705	6.1	23.4				1145	Plug down at 960'
							Yes	By wireline
							Yes	Release back-held
							OK	Cement circulated
	1710							Wash + Rack up
	1730							Job complete
								Thank You
								51979-P
								81870 Jerry Bennett
								08500 Kevin Gordley
								82824 Dennis Ransley

FEB 6 1991