

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

Operator: License 8061

Name: OIL PRODUCERS, INC. OF KANSAS

Address P.O. BOX 8647

City/State/Zip WICHITA, KANSAS 67208

Purchaser: BOYD ROSENE

Operator Contact Person: DIANA RICHECKY

Phone (316) 681-0231

Contractor: Name: VAL ENERGY, INC.

License: 5822

Wellsite Geologist: WILLIAM SHEPHERD

Designate Type of Completion
 New Well Re-Entry Workover

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

If Workover:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTB
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

10/10/98 _____ 10/12/98 _____ 11/15/98 _____
Spud Date Date Reached TD Completion Date

API NO. 15- 175-21761-2006

County SEWARD

 - NW - SW - SW Sec. 14 Twp. 33 Rge. 31 ^E_W

990 Feet from (S/N) (circle one) Line of Section

330 Feet from E/W (circle one) Line of Section

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

Lease Name THORP Well # 2

Field Name KISMET

Producing Formation CHASE GROUP

Elevation: Ground 2745 KB 2750

Total Depth 2800' PBTB 2700

Amount of Surface Pipe Set and Cemented at 547

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan AH 1, 3-3-99 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 19000 ppm Fluid volume 600 bbls

Dewatering method used: EVAPORATION AND RESTORE SITE

Location of fluid disposal if hauled offsite: _____

Operator Name Oil Producers, Inc. of Ks

Lease Name _____ License No. _____

_____ Quarter Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). **One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED.** Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature John S. Weir John S. Weir

Title President Date 2/23/99

Subscribed and sworn to before me this 23rd of February, 1999.

Notary Public Diana L. Richecky

Date Commission Expires Jan 13, 2000

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input checked="" type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
		<input type="checkbox"/> NGPA
		<input type="checkbox"/> Other (Specify)

DIANA L. RICHECKY
Notary Public - State of Kansas
My Appt. Expires 1/12/2000

Operator Name Oil Producers, Inc. of Kansas Lease Name THORP Well # 2 **ORIGINAL**
 Sec. 14 Twp. 33S Rge. 31 East West County SEWARD

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	<input type="checkbox"/> Log	Formation (Top), Depth and Datums	<input checked="" type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	HERINGTON	2608'	+ 142'
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	WINFIELD	2704'	+ 46'
(Submit Copy)		RTD	2800'	- 50'
List All E.Logs Run:	GEOLOGICAL LOG, GAMMA RAY CORRELATION CEMENT BOND LOG, GAMMA RAY NEUTRON/CCL LOG			

CASING RECORD <input 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	8 5/8"	28#	547	Lite/Common	200/125	3% CC, 1/4#floseal
PRODUCTION	7 7/8	4 1/2"	10.5 #	2799	Mid-con/EA2	275/100	1/4#floseal, 2% Halad 322

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth Top Bottom		Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate	2708	2714	Class H	200	
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back TD					
<input checked="" type="checkbox"/> Plug Off Zone					

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
2	2610-2618'		SEE ATTACHED INITIAL COMPLETION REPORT	same
1	2653-2668'			
2	2708-2714'			

TUBING RECORD	Size 2 3/8"	Set At 2669.00'	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj.	Producing Method							
Estimated Production 11/15/98	Oil	Bbls.	Gas 180mcfpd	Mcf	Water BWPD	Flowing <input checked="" type="checkbox"/> Pumping	Gas Lift Other (Explain) Gas-Oil Ratio	Gravity

Disposition of Gas: **METHOD OF COMPLETION** Vented Sold Used on Lease (If vented, submit ACO-18.) Open Hole Perf. Other (Specify) _____

Production Interval Dually Comp. Commingled see sheet _____

ORIGINAL

ALLIED CEMENTING CO., INC.

2710

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Mass City

DATE <u>10-10-98</u>	SEC <u>14</u>	TWP. <u>33</u>	RANGE <u>31</u>	CALLED OUT <u>7:00AM</u>	ON LOCATION <u>11:30am</u>	JOB START <u>3:10pm</u>	JOB FINISH <u>4:00pm</u>
LEASE <u>Thorpe</u>	WELL# <u>2</u>	LOCATION <u>Kiamet S.S. 35 1/4 W S.S</u>		COUNTY <u>Seward</u>	STATE <u>KS</u>		

OLD OR NEW (Circle one)

CONTRACTOR <u>Val Dally #1</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Surface</u>	CEMENT
HOLE SIZE <u>12 1/4</u>	T.D. <u>547.555</u>
CASING SIZE <u>8 7/8</u>	DEPTH <u>547</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>42.25</u>
CEMENT LEFT IN CSG. <u>42.25</u>	
PERFS.	

AMOUNT ORDERED

COMMON	<u>125</u>	@	<u>7.55</u>	<u>943.75</u>
POZMIX	<u>200 ALW</u>	@	<u>7.05</u>	<u>1410.00</u>
GEL	<u>2</u>	@	<u>9.50</u>	<u>19.00</u>
CHLORIDE	<u>10</u>	@	<u>28.00</u>	<u>280.00</u>
<u>Flaseal 50#</u>		@	<u>1.15</u>	<u>57.50</u>
		@		
		@		
		@		
		@		
HANDLING	<u>325</u>	@	<u>1.20</u>	<u>390.00</u>
MILEAGE	<u>42</u>			<u>546.00</u>
				TOTAL <u>\$3646.25</u>

EQUIPMENT

PUMP TRUCK	CEMENTER	<u>J. Weighous</u>
# <u>224</u>	HELPER	<u>B. White</u>
BULK TRUCK		
# <u>199</u>	DRIVER	<u>R. Weiser</u>
BULK TRUCK		
#	DRIVER	

REMARKS:

Circ 8 7/8 csg, max 200 sa
Lite 3%cc 1/4" Flaseal per sq,
1" x 125 x Corn 3%cc 2% Del
1 cap plug 3 3/4 BA Plug
down 4:00 pm, Cement did
circ.
Thanks

SERVICE

DEPTH OF JOB	<u>547'</u>		
PUMP TRUCK CHARGE 0-300'			<u>560.00</u>
EXTRA FOOTAGE	<u>247</u>	@	<u>.50</u> <u>123.50</u>
MILEAGE	<u>22</u>	@	<u>2.85</u> <u>62.70</u>
PLUG 8 7/8 Rubber		@	<u>90.00</u> <u>90.00</u>
		@	
		@	
TOTAL <u>\$836.20</u>			

CHARGE TO: Oil Producers Inc.
 STREET Box 8647
 CITY Wichita STATE Ko ZIP 67208

FLOAT EQUIPMENT

<u>1-8 7/8 Baffle Plates</u>	@	<u>135.00</u>	<u>135.00</u>
	@		
	@		
	@		
	@		
TOTAL <u>\$135.00</u>			

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX - 0 -
 TOTAL CHARGE \$4617.45
 DISCOUNT \$692.62 IF PAID IN 30 DAYS

Net \$ 3924.83

SIGNATURE Rich L Brandy

RECEIVED
 KANSAS CEMENT CO.
 OCT 24 1998



ORIGINAL

INVOICE

HALLIBURTON ENERGY SERVICES
 A Division of Halliburton Company

INVOICE NO. 381990 DATE 10/12/1990

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
TKORP 2-14		SEWARD		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE			TICKET DATE
LIBERAL		SHOWN BELOW			10/12/1990
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
646989	SHANE SUMMERS			COMPANY TRUCK	47417

DIRECT CORRESPONDENCE TO:

OIL PRODUCERS INC. OF KANSAS
 BOX 8647
 WICHITA, KS 67208

P O BOX 1598
 LIBERAL KS 67901

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
JOB PURPOSE - CEMENT PRODUCTION CASING					
000-117	MILEAGE CEMENTING ROUND TRIP	24	MI	3.65	87.60
		1	UNT		
000-119	MILEAGE FOR CREW	24	MI	2.15	51.60
		1	UNT		
001-016	CEMENTING CASING	2804	FT	1,798.00	1,798.00
		1	UNT		
045-050	COMPUFAC SYSTEM W/HALLIBURTON	1	JOB	760.00	760.00
		1	DAY		
090-016	CEMENTING PLUG SW ALUM TOP	4	1/2 IN	50.00	50.00
		1	EA		
12A	GUIDE SHOE - 4 1/2" 8RD THD.	1	EA	105.00	105.00
825.201					
24A	INSERT FLOAT VALVE - 4 1/2" 8RD	1	EA	110.00	110.00
815.19101					
27	FILL-UP UNIT 4 1/2"-5"	1	EA	60.00	60.00
815.19111					
40	CENTRALIZER 4-1/2 X 7-7/8	5	EA	59.00	295.00
806.60004					
350	HALLIBURTON WELD-A-AL FILLED	1	EA	18.43	18.43
890.10802					
504-050	CEMENT - PREMIUM PLUS	125	SK	15.69	1,961.25
504-281	MIDCON-2 PREMIUM CEMENT	275	SK	18.48	5,082.00
509-406	ANHYDROUS CALCIUM CHLORIDE	5	SK	46.90	234.50
509-968	SALT	1021	LB	.18	183.78
507-775	HALAD-322	56	LB	7.70	431.20
507-210	FLOCELE	69	LB	2.09	144.21
508-127	CAL SEAL 60	5	SK	28.00	140.00
508-291	GILSONITE BULK	500	LB	.58	290.00
507-970	D-AIR 1, POWDER	25	LB	4.27	106.75
500-207	BULK SERVICE CHARGE	461	CFT	1.66	765.26
500-306	MILEAGE CMTG NAT DEL OR RETURN	494.460	TMI	1.25	618.08

*** CONTINUED ON NEXT PAGE ***

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest of any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

AFFIX JOB TKT

ORDER NO. 10900

PAGE 1

CUSTOMER COPY

REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046
Corporate FIN 73-0271280



HALLIBURTON ENERGY SERVICES
A Division of Halliburton Company

ORIGINAL

INVOICE

INVOICE NO.	DATE
381990	10/12/199

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER		
THORP 2-14	SEWARD	KS	SAME		
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
LIBERAL		SHOWN BELOW	10/12/199		
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
646969	SHANE SUMMERS			COMPANY TRUCK	4741

DIRECT CORRESPONDENCE TO:

OIL PRODUCERS INC. OF KANSAS
BOX 8647
WICHITA, KS 67208

P O BOX 1598
LIBERAL KS 67901

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	JOB PURPOSE SUBTOTAL				13,292.66
	INVOICE SUBTOTAL				13,292.66
	DISCOUNT-(BID)				4,329.76-
	INVOICE BID AMOUNT				8,962.90
	*-KANSAS STATE SALES TAX				357.12
	*-LIBERAL CITY SALES TAX				72.90
	*-SEWARD COUNTY SALES TAX				109.33
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					19,502.25

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

AFFIX JOB TKY

ORDER NO. 10900



HALLIBURTON®

HALLIBURTON ENERGY SERVICES

1906-Q

CHARGE TO:

oil producers.

ADDRESS

P.O. Box 8647

CITY, STATE, ZIP CODE

Wichita KS 67208

ORIGINAL - DUNNAN COPY TICKET

No.

381990 - 4

PAGE 1 OF 2

1. 025540	WELL/PROJECT NO. 2-14	LEASE Thorp	COUNTY/PARISH Seward	STATE KS	CITY/OFFSHORE LOCATION Plains	DATE 10-12-98	OWNER Same
2. 025535	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR V91	RIG NAME/NO. 2	SHIPPED VIA HOWCO	DELIVERED TO Location	ORDER NO.
3.	WELL TYPE 02	WELL CATEGORY 01	JOB PURPOSE 025	ORIGINAL		WELL PERMIT NO.	WELL LOCATION Land.
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

JOB PURPOSE	PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
			LOC	ACCT	DF							
	000-117		1		30%	MILEAGE	24	mi	1		365	87.60
	000-119		1			crew mileage	24	mi	1		215	51.60
	001-016		1			pump charge	2804	ft	6	hr		1798.00
	045-050		1		75%	comp paper	1	job				760.00
	030-016		1		30%	TOP PLUG	1	ea	4 1/2	in		50.00
	12-17	825-201	1			Guide shoe	1	"	1	"		105.00
	24A	815-19101	1			Insert	1	"	1	"		110.00
	27	815-19111	1			Fill	1	"	1	"		60.00
	40	80660004	1			centralizer	5	ea	1	"	59.00	295.00
	350	890-10802	1			weld #	1	lb.				18.43

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions of the services listed on this ticket, which include, but are not limited to, PAYMENT OF THE BALANCE DUE BY THE CUSTOMER TO HALLIBURTON ENERGY SERVICES.	TYPE LOCK	SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN			PAGE TOTAL 3335
	BEAN SIZE	TYPE OF EQUALIZING SUB.		CASING PRESSURE	FROM CONTINUATION PAGE(S) 9677
X [Signature] DATE SIGNED	DEPTH	TUBING SIZE	TUBING PRESSURE	WELL DEPTH	1321
	SPACERS	TREE CONNECTION	TYPE VALVE		SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE

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

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

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) Shane Summers	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) [Signature]	HALLIBURTON OPERATOR/ENGINEER Type Davis	EMP # FH550	HALLIBURTON APPROVAL [Signature]
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ORIGINAL



HALLIBURTON

TICKET CONTINUATION

TICKET No. 337990

HALLIBURTON ENERGY SERVICES

CUSTOMER Oil Producers of Kansas

WELL THORP 2-14

4:21 PM 10/12/98

PAGE 2 OF 2

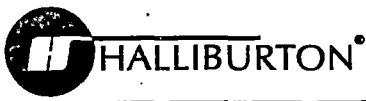
PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			DESCRIPTION	QTY	U/M	QTY	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
504-050					30% Premium Plus	125	sk	185		\$15.69	\$1,961.25
504-280					Premium Plus Midcon ORIGINAL	275	sk	229		\$18.48	\$5,082.00
509-406					Calcium Chloride	5	sk	10		\$46.90	\$234.50
509-968					Salt	1021	lb.			\$0.18	\$183.78
507-775					HALAD-322	56	lb.			\$7.70	\$431.20
507-210					Flocele	69	lb.			\$2.09	\$144.21
508-127					Cal Seal	5	sk			\$28.00	\$140.00
508-291					Gilsonite	500	lb.			\$0.58	\$290.00
507-970					D-AIR-1	25	lb.			\$4.27	\$106.75
500-207					30% SERVICE CHARGE			461		1.66	765.26
500-306					30% MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES		1.25	\$618.00
						41,205	24	494.460			

No. B 330208

CONTINUATION TOTAL

9957.97

ORIGINAL



JOB SUMMARY 4239-1

ORIGINAL

REGION North America		NWA/COUNTRY USA	TICKET # 381990	TICKET DATE 10-12-98
MBU ID / EMP # MCL10103 F4550		EMPLOYEE NAME Tyce David	BDA / STATE KS.	COUNTY Laward.
LOCATION Liberal KS.		COMPANY oil producers	PSL DEPARTMENT ZI	CUSTOMER REP / PHONE Shane Summers
TICKET AMOUNT		WELL TYPE 02	API / UWI #	
WELL LOCATION Land.		DEPARTMENT ZI	JOB PURPOSE CODE 035	
LEASE / WELL # Thorp 2-14		SEC / TWP / RNG 14-33-31w		

HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS
T. David F4550	5.5						
B. Humphries 44692							
D. Phillips - 60978							
J. Vasquez - 00629							

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
54038-77941	24						
52823-6610	24						
52947-6612	24						

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

DATE	TIME	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
10-12-98	02 1430	10-12-98	1700	10-12-98 2050	10-12-98 2140

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar 4 1/2	1	H
Float Shoe Fill	1	
Guide Shoe Key	1	0
Centralizers 54	5	
Bottom Plug		W
Top Plug Sw	1	
Head p.c.	1	6
Packer		
Other		0

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing		10.5	4 1/2	KB	2804	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

MATERIALS

Treat Fluid	Density	Lb/Gal
Disp. Fluid <td>Density</td> <td>Lb/Gal</td>	Density	Lb/Gal
Prop. Type <td>Size</td> <td>Lb.</td>	Size	Lb.
Prop. Type <td>Size</td> <td>Lb.</td>	Size	Lb.
Acid Type <td>Gal.</td> <td>%</td>	Gal.	%
Acid Type <td>Gal.</td> <td>%</td>	Gal.	%
Surfactant <td>Gal.</td> <td>In</td>	Gal.	In
NE Agent <td>Gal.</td> <td>In</td>	Gal.	In
Fluid Loss <td>Gal/Lb</td> <td>In</td>	Gal/Lb	In
Gelling Agent <td>Gal/Lb</td> <td>In</td>	Gal/Lb	In
Fric. Red. <td>Gal/Lb</td> <td>In</td>	Gal/Lb	In
Breaker <td>Gal/Lb</td> <td>In</td>	Gal/Lb	In
Blocking Agent <td>Gal/Lb</td> <td></td>	Gal/Lb	
Perfpac Balls <td>Qty.</td> <td></td>	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				CMT
				4 1/2 L.T.
TOTAL		TOTAL		

ORDERED	HYDRAULIC HORSEPOWER	Used
	Avail.	
TREATED	AVERAGE RATES IN BPM	Overall
	Disp.	
FEET 33	CEMENT LEFT IN PIPE	S.J
	Reason	

CEMENT DATA

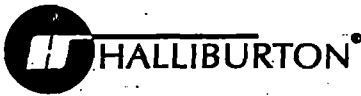
STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	275	PTMC	B	2% cc 1/4" Flocele.	3.22	11.1
1	100	PT	B	5% Ez 2, 18% Jelf, 5% Gildonite, 6% Hulsid 322, 1/4" D-Bic.	1.55	14.8

Circulating _____	Displacement _____	Preflush: Gal - BBI _____	Type _____
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI _____	Pad: BBI - Gal _____
Average _____	Frac Gradient _____	Treatment Gal - BBI _____	Disp: BBI Gal 44
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal - BBI 15FLC	27.5 f.c.
		Total Volume Gal - BBI _____	

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE _____



JOB LOG 4239-5

TICKET # 381990	TICKET DATE 10-12-48
REGION North America	NWA/COUNTRY USA
MBU ID / EMP # m. L. 150183 F4550	EMPLOYEE NAME Tyce David
LOCATION Liberal NJ	COMPANY Oil Producers
TICKET AMOUNT	WELL TYPE OZ
WELL LOCATION Land	DEPARTMENT ZE
LEASE / WELL # Thorp 2-14	SEC / TWP / RNG 14-33-21W
BDA / STATE NJ	COUNTY Seward
PSL DEPARTMENT ZE	CUSTOMER REP / PHONE Shane Sumner
API / UWI #	JOB PURPOSE CODE 025

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
T. Davis - F4550 5.5			
G. Humphreys H4672			
D. Phillips - 60978			
J. Vazquez - J0629			

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1430							called out for job
	1700							on loc Rty L.O.P.
	1730							out of hole w/dp. Rty up csgs.
	1830							start csg on loc
	1850							start 4 1/2 csg & F.F.
	2000							csg on bot hook up 4 1/2 c. & circ iron.
	2004							brk circ w/rt
	2014							call to pit
	2025							plug R to m.
	2035							thru circ hook iron to pit
	2039							500 psi post iron.
	2047	7.0	158	✓		820		pump 275x ptms at 11.1"/90'
	2114	6.5	28	✓		120		pump 1095x pt at 14.8"/100'
	2118	0	186	✓		100		shut down mop plug & well up
	2122	6.5	44	✓		100		pump 0.15'
	2134	2.0	44	✓		400		40 bbls in cmt
	2128	2.0	44	✓		400		34 bbls in sto rate.
	2136	2.0	44	✓		500		land plug
	2157	0	44	✓		1200		off release float - HELD.
	2140	0	44	✓				job over
								Thanks for calling HES.
								Tyce Brian Gary & crew



INVOICE

HALLIBURTON ENERGY SERVICES
A Division of Halliburton Company

ORIGINAL

INVOICE NO.	DATE
384074	10/19/1998

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER		
THORPE 2-14	SEWARD	KS	SAME		
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
LIBERAL		SHOWN BELOW	10/19/1998		
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
646969	BRAD SIRKY			COMPANY TRUCK	47209

OIL PRODUCERS INC. OF KANSAS
BOX 8647
WICHITA, KS 67208

DIRECT CORRESPONDENCE TO:
P O BOX 1598
LIBERAL KS 67901

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
JOB PURPOSE - DRILLABLE TOOL SERVICE					
100-115	MILEAGE SPEC. TOOLS ROUND TRIP	50 MI		2.15	107.50
		1 UNT			
	DISCOUNT-(BID)	40.0 %			43.00-
116-087	EZ DRILL PACKER SERVICE CHARGE			457.00	457.00
		RD	8 HR PER 8 HR		
			1 EA		
	DISCOUNT-(BID)	40.0 %			182.80-
128-451	WIPELINE 4-1/2" THRU 13-3/8"	1 JOB		83.00	83.00
	DISCOUNT-(BID)	40.0 %			33.20-
128-401	STAR GUIDE ASSEMBLY			121.00	121.00
			1 HR PER 8 HR		
			1 EA		
	DISCOUNT-(BID)	40.0 %			48.40-
116-434	ENVIRONMENTAL CHARGE	1 EA		13.75	13.75
128-546	SQUEEZE MANIFOLD			342.00	342.00
		RD	24 HR PER 24 HR		
			1 EA		
	DISCOUNT-(BID)	40.0 %			136.80-
94	EZ DRILL SV SQZ PKR 4 1/2-5"	1 EA		1,117.00	1,117.00
802.339					
JOB PURPOSE SUBTOTAL					2,241.25
JOB PURPOSE - RECEMENT					

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

APPENDIX JOB TKT

ORDER NO. 10900

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest of any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

PAGE 1



INVOICE

HALLIBURTON ENERGY SERVICES
A Division of Halliburton Company

ORIGINAL

INVOICE NO.	DATE
584074	10/19/199

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
THORPE 2-14		SEWARD		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB/PURPOSE		TICKET DATE	
LIBERAL		SHOWN BELOW		10/19/199	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
646989	BRAD SIRDKY			COMPANY TRUCK	4770

DIRECT CORRESPONDENCE TO:

OIL PRODUCERS INC. OF KANSAS
BOX 8647
WICHITA, KS 67208

P O BOX 1598
LIBERAL KS 67901

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
000-117	MILEAGE CEMENTING ROUND TRIP	50 MI		3.65	182.50
	DISCOUNT-(BID)	30.0 %			54.75-
000-119	MILEAGE FOR CREW	50 MI		2.15	107.50
	DISCOUNT-(BID)	30.0 %			32.25-
009-134 009-019	CEMENT SQUEEZE	2700 FT		1,929.00	1,929.00
	DISCOUNT-(BID)	30.0 %			578.70-
000-150 045-030	ENVIRONMENTAL SURCHARGE	1 JOB		55.00	55.00
	COMPUFAC SYSTEM W/HALLIBURTON	1 JOB		760.00	760.00
	DISCOUNT-(BID)	75.0 %			570.00-
504-049	CEMENT - PREMIUM	200 SK		15.34	3,068.00
	DISCOUNT-(BID)	30.0 %			920.40-
500-207	BULK SERVICE CHARGE	200 CFT		1.66	332.00
	DISCOUNT-(BID)	30.0 %			99.60-
500-306	MILEAGE CMTG MAT DEL OR RETURN	235 TMI		1.25	293.75
	DISCOUNT-(BID)	30.0 %			83.12-
JOB PURPOSE SUBTOTAL					6,727.75
INVOICE SUBTOTAL					8,969.00

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

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OFFICE JOB TKT



REMIT TO:
 P.O. BOX 951046
 DALLAS, TX 75395-1046
 Corporate FIN 73-0271280

INVOICE

HALLIBURTON ENERGY SERVICES
 A Division of Halliburton Company

ORIGINAL

INVOICE NO.	DATE
384074	10/19/1998

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER		
THORPE 2-14	SEWARD	KS	SAME		
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
LIBERAL		SHOWN BELOW	10/19/1998		
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
646989	BRAD SIRGKY			COMPANY TRUCK	4770

OIL PRODUCERS INC. OF KANSAS
 BOX 8647
 WICHITA, KS 67208

DIRECT CORRESPONDENCE TO:
 P O BOX 1598
 LIBERAL KS 67901

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	DISCOUNT--(BID)				2,788.02
	INVOICE BID AMOUNT				6,180.98
	*--KANSAS STATE SALES TAX				181.43
	*--LIBERAL CITY SALES TAX				37.03
	*--SEWARD COUNTY SALES TAX				55.54
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					6,454.98

APTEX JOB TKT

ORDER NO. 10900

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HALLIBURTON ENERGY SERVICES

1906-Q

CHARGE TO: Oil Producers of Kansas
 ADDRESS: PO Box 8647
 CITY, STATE, ZIP CODE: Wichita Ks 67208

TICKET No. 384074 - 9
 PAGE 1 OF 3

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY/OFFSHORE LOCATION	DATE	OWNER
1. <u>Liberal 025540</u>	<u>2-14</u>	<u>Thorpe</u>	<u>Seward</u>	<u>Ks</u>		<u>10-17-98</u>	<u>SAME</u>
2. <u>Parpa Tx 625270</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>Kiowa Well</u>	RIG NAME/NO.	SHIPPED VIA <u>Truck</u>	DELIVERED TO <u>Loc</u>	ORDER NO.
3. <u>Hugoton</u>	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION		
4.	<u>02</u>	<u>02</u>	<u>667 - 205</u>				
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

ORIGINAL

JOB PURPOSE	PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT	
			LOC	ACCT	DF		QTY.	U/M	QTY.	U/M		
	<u>100-115</u>		<u>1</u>		<u>40</u>	MILEAGE	<u>50</u>	<u>ft</u>	<u>2</u>	<u>15</u>	<u>107.50</u>	
	<u>116-087</u>		<u>1</u>		<u>40</u>	Operator Service	<u>1</u>	<u>hour</u>			<u>457.00</u>	
	<u>128-451</u>		<u>1</u>		<u>40</u>	Wire Line Adapter Kit					<u>83.00</u>	
	<u>128-401</u>		<u>1</u>		<u>40</u>	StarGuide + StarGuide ⁵⁰³⁴⁰⁻¹⁴³	<u>4</u>	<u>1/2</u>			<u>121.00</u>	
	<u>116-434</u>	<u>124-050</u>	<u>1</u>		<u>0</u>	Environmental Fee	<u>Per Tool</u>	<u>1</u>	<u>EQ</u>		<u>13.75</u>	
	<u>128-946</u>		<u>1</u>		<u>40</u>	Squeeze manifold					<u>342.00</u>	
	<u>94</u>	<u>802.339</u>	<u>1</u>		<u>0</u>	ESV	<u>4</u>	<u>1/2 in</u>			<u>1117.00</u>	
	<u>000-117</u>		<u>2</u>		<u>30</u>	Mileage - 78335	<u>50</u>	<u>miles</u>	<u>1</u>	<u>hrk</u>	<u>365</u>	<u>182.50</u>
	<u>000-119</u>		<u>2</u>		<u>30</u>	Crew Mileage - 420621	<u>50</u>	<u>miles</u>	<u>1</u>	<u>unit</u>	<u>2.15</u>	<u>107.50</u>
	<u>009-134</u>	<u>009-019</u>	<u>2</u>		<u>30</u>	Pump Charge	<u>2700</u>	<u>ft</u>				<u>1929.00</u>
	<u>000-150</u>		<u>2</u>		<u>0</u>	Environmental Fee	<u>1</u>	<u>@</u>				<u>55.00</u>
	<u>045-050</u>		<u>2</u>		<u>75</u>	Data Acquisition	<u>1</u>	<u>CoP</u>				<u>760.00</u>

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.	TYPE LOCK	SUB SURFACE SAFETY VALVE WAS:		PAGE TOTAL	
	BEAN SIZE	<input type="checkbox"/> PULLED & RETURN	<input type="checkbox"/> PULLED		<input type="checkbox"/> RUN
	DEPTH	TYPE OF EQUALIZING SUB.	CASING PRESSURE		FROM CONTINUATION PAGE(S)
	DATE SIGNED: <u>[Signature]</u>	TUBING SIZE	TUBING PRESSURE	WELL DEPTH	
TIME SIGNED: <u>[Signature]</u>	SPACERS	TREE CONNECTION	TYPE VALVE	SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	
<input type="checkbox"/> do <input type="checkbox"/> do not require IPC (Instrument Protection). <input type="checkbox"/> Not offered				<u>5275.25</u>	
				<u>3693.75</u>	
				<u>5882.75</u>	

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

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT)	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE)	HALLIBURTON OPERATOR/ENGINEER	EMP #	HALLIBURTON APPROVAL
<u>[Signature]</u>	<u>[Signature]</u>	<u>Roy Crist</u>	<u>07653</u>	<u>Two 15-40% RECEIPT - 30%</u>

ORIGINAL



HALLIBURTON

TICKET CONTINUATION

TICKET No. 384074

HALLIBURTON ENERGY SERVICES

CUSTOMER Oil Producers of Kansas

WELL Thorpe 2-14

12:51 PM 10/19/98

PAGE 3 OF 3

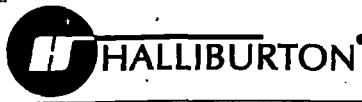
Truck# (s)	PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING			DESCRIPTION	QTY U/M		UNIT PRICE	AMOUNT	
			LOC	ACCT	DF		QTY	U/M			
504-043			3		30	Premium Cement	200	sk	\$15.34	\$3,068.00	
ORIGINAL											
500-207			3		30	SERVICE CHARGE			1.66	\$332.00	
500-306			3		30	MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES	1.25	\$293.75
							18,800	25	235.000		

No. B 330230

CONTINUATION TOTAL	\$ 3,693.75
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2511.75

ORIGINAL



JOB SUMMARY 4239-1

REGION North America		NWA/COUNTRY	BDA / STATE Ks	TICKET # 384074	TICKET DATE
MBU ID / EMP # 420208 07653	EMPLOYEE NAME Ron Crist	PSL DEPARTMENT 5002-5001		COUNTY Seward	
LOCATION Liberal	COMPANY Oil Producers of Ks	CUSTOMER REP / PHONE			
TICKET AMOUNT 3882.72 After Discount	WELL TYPE 02	API / UWI #			
WELL LOCATION	DEPARTMENT 5002-5001	JOB PURPOSE CODE 667-205			
LEASE / WELL # Thorpe 2-14	SEC / TWP / RNG				

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
R Crist 07653			
J R King			
J. Gonzalez 04372			
R. Gonzalez 04379			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
420790	50						
53178-7835	50						
420621	50						
5226-7649	50						

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type EZSU Set At 2700
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

DATE	TIME	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
10-19-98	0900	10-19-98	1440	10-19-98	1708
					2000

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe		
Centralizers		
Bottom Plug		
Top Plug		
Head		
Packer		
Other		

MATERIALS

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	In
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

WELL DATA

NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	10.5	4 1/2 KB	2700	
Liner					
Liner					
Tbg/D.P.	N	4-7	2 3/8 KB	2700	
Tbg/D.P.					
Open Hole					SHOTS/FT.
Perforations			2708	2713	2
Perforations					
Perforations					

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				Set EZSU
				2 Squeeze
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER: Avail. _____ Used _____
 AVERAGE RATES IN BPM: Disp. _____ Overall _____
 CEMENT LEFT IN PIPE: Reason _____

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	200	H	B	Neat	1.06	16.9

Circulating _____ Displacement _____ Preflush: Gal - BBI _____ Type _____
 Breakdown _____ Maximum _____ Load & Bkdn: Gal - BBI _____ Pad: BBI - Gal _____
 Average _____ Frac Gradient _____ Treatment Gal - BBI _____ Disp: BBI - Gal 10
 Shut In: Instant 5 Min 15 Min Cement Slurr Gal - BBI 37.7
 Total Volume Gal - BBI _____



ORIGINAL

JOB LOG 4239-5

TICKET # 384074	TICKET DATE
--------------------	-------------

REGION North America	NWA/COUNTRY	BDA / STATE KS	COUNTY JEWELL
MBU ID / EMP # L10208-D7653	EMPLOYEE NAME Ron Crist	PSL DEPARTMENT 5002	
LOCATION	COMPANY Oil Producers of Kansas	CUSTOMER REP. PHONE Brad Siroyky	
TICKET AMOUNT	WELL TYPE 02	API / UWI #	
WELL LOCATION	DEPARTMENT 5002	JOB PURPOSE CODE 667-205	
LEASE / WELL # Thorpe 2-14	SEC / TWP / RING		

HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0900							called out
	1440							on location swabbing down well
	1510							Rig up EZ5U 4 1/2 on E-LINE
	1630							Run EZ5U in well set @ 2700'
	1646							Rig Down E-line
	1708							Run 2 7/8 Tubing w/ surge side & stinger
	1815							on bottom w/ tubing, rig up iron
	1825	2	28					Load ANN after Pressure Test
	1835							500 ANNulas Loaded
	1836							GET Injection Rate
	1847	2.5	14.5	X		400		Shut Down
	1849							Mix CMT
	1852							Pump CMT class H 200 SKs
	1908	2	57.7	X		650	500	Start Disp
	1911	1	8	X				Slow Rate
	1914	1	2			1050	600	Shut Down
	1915	2	20	X		400		Reverse out
	1928							Shut Down Job Complete
	2020							Rig Down
	2057							Trucks stuck on location call for winch truck
	2209							winch on loc
								Trucks & off loc

W - 1/2
E - 7
O - 13 1/2

OIL PRODUCERS INC., OF KS.
INITIAL COMPLETION REPORT

WELL - THORPE #2

LEGAL - NW/SW/SW OF 14-33s-31w IN SEWARD CO. KS.

API# - 15-175-21,761

G.L. - 2745'

K.B. - 5' ABOVE G.L. @ 2750'

SURFACE CSN - 8 5/8" @ 547' WITH 325 SX.

RTD - 2800'

LTD - NO OPEN HOLE LOG RAN

PRODUCTION CSN - 4 1/2", 10.5# @ 2799' WITH 275 SX MID CON AND 100 SX EA-2

PBTD - 2752' (ELI 10/19/98), EZSV CEMENT RETAINER @ 2700'.

TOP OF CEMENT - CIRCULATED TO SURFACE.

<u>PERFORATIONS</u>	HERINGTON	2610'-2618' 2 SHOT/FT. 10/20/98
	KRIDER	2653'-2668' 1 SHOT/FT. 10/20/98
	WINFIELD	2708'-2714' 2 SHOT/FT. 10/19/98 SQZ'D W/200 SX, UNDER EZSV.

TUBING RAN - 15' MA, SN, 85 JTS. 2 3/8" (2669.00')

TUBING SET @ - 2688.50'

AVERAGE TBG JT. - 31.40'

PUMP RAN - 2" X 1 1/2" X 12' RWTC WITH 6' GAS ANCHOR.

RODS RAN - PUMP, 2', 105 - 3/4" RODS, 8', 2', P.R.

PUMP SET @ - 2673.10'

PUMPING UNIT - CABOT TYPE DC-18, RATING 103,415#, S.N. - DC-18614-B

MOTOR - 10 HP ELECTRIC

SURFACE EQUIPMENT - MID STATES 30" X 10' VERTICAL SEPARATOR, 125# WP, MANUAL DUMP.

10/19/98

KIOWA WELL SERVICE ON LOCATION, RIGGED UP D-D DERRICK.
ELI WIRELINE ON LOCATION TO RUN GAMMA-RAY, NEUTRON, CORRELATION, & SONIC CEMENT BOND LOG.

FOUND TOTAL DEPTH - 2752' (THIS IS 19' HIGH TO TOP OF INSERT @ 2771')

FOUND TOP OF CEMENT - SURFACE. WITH EXCELLENT CEMENT BONDING ACROSS PAY ZONES.

KIOWA SWABBED WELL DOWN TO TTL DEPTH.

½ RH. NATURAL TEST - RECOVERED NO FLUID OR GAS.

HALLIBURTON ON LOCATION TO ACIDIZE WINFIELD PERFORATIONS WITH 750 GALS 15% DSFE ACID.

ACIDIZE WINFIELD PERFS AS FOLLOWS:

PUMP 750 GALS 15% DSFE ACID.

LOAD HOLE WITH 25 BBLS KCL WATER.

PRESSURED TO 1300 psi AND BROKE BACK TO 200 psi.

DISPLACED ACID @ 3 BPM - 200 psi TO 275 psi.

ISIP - 200 psi.

TOTAL LOAD - 61 BBLS, VAC - IN 7 MINUTES.

KIOWA RIGGED TO SWAB BACK ACID LOAD AND TEST WINFIELD AFTER ACID.

TEST WINFIELD AFTER ACID AS FOLLOWS:

FOUND FLUID LEVEL @ 50' FROM SURFACE.

SWAB WELL DOWN AND RECOVERED APPROX 60 BBLS WATER, NO SHOW OF GAS.

15 MIN TEST - RECOVERED 1.25 BBLS GASSY WATER, NO SHOW OF GAS.

½ HR. TEST - RECOVERED 3.1 BBLS GASSY WATER. NO GAS VENTING.

ELI WIRELINE ON LOCATION TO SET EZSV CEMENT RETAINER OVER WINFIELD PERFS.

SET EZSV RETAINER @ 2700'.

WB SUPPLY ON LOCATION, DELIVERED APPROX 2700' USED YELLOW BAND 2 3/8" TUBING.

HALLIBURTON ON LOCATION WITH EZSV RETAINER STINGER.

RIH - WITH STINGER AND TUBING. STING INTO RETAINER @ 2700'.

HALLIBURTON ON LOCATION TO SQUEEZE OFF WINFIELD PERFS WITH 200 SX CLASS-H CEMENT TO MINIMIZE RISK OF WINFIELD WATER ENCROACHMENT TO HERINGTON AND KRIDER FORMATIONS.

SQUEEZE WINFIELD PERFS AS FOLLOWS:

ESTABLISH INJECTION RATE @ 2 BPM - 400 psi.

MIX & PUMP 200 SX CLASS-H CEMENT.

DISPLACE APPROX 150 SX @ 2 BPM - 80 psi TO 800 psi.

DISPLACE APPROX 50 SX @ 1 BPM - 800 psi TO 1030 psi.

STING OUT OF EZSV RETAINER & REVERSE CIRCULATE CLEAN
SHUT DOWN FOR THE NIGHT.

10/20/98

KIOWA ON LOCATION. POOH - WITH TUBING AND STINGER.

SWAB 4 1/2" CASING DOWN TO 2200'.

ELI WIRELINE ON LOCATION TO PERFORATE PROPOSED INTERVALS IN HERINGTON AND KRIDER FORMATIONS.

10/20 CONT.

PERORATE HERINGTON 2610'-2618' WITH 2 SHOTS/FT.
PERFORATE KRIDER 2653'-2668' WITH 1 SHOT/FT.
FOUND TTL DEPTH @ 2699'

KIOWA SWABBED WELL DOWN TO TOTAL DEPTH.
½ HR. NATURAL TEST - RECOVERED NO FLUID OR GAS.

HALLIBURTON ON LOCATION TO ACIDIZE HERINGTON AND KRIDER PERFS WITH 1500 GALS 15% DSFE ACID AND 40 BALL SEALERS.

ACIDIZE HERINGTON AND KRIDER AS FOLLOWS:

PUMP 500 GALS 15% DSFE ACID.
 PUMP 1000 GALS 15% DSFE ACID WITH 1 BALL/25 GALS. (40 BALL SEALERS TTL)
 LOAD HOLE WITH 7 BBLs KCL WATER.
 DISPLACE 500 GALS ACID @ 6 BPM - 10 psi TO 120 psi.
 DISPLACED 750 GALS ACID @ 7 BPM - 120 psi TO 1500 psi. (BALLED OFF)
ISIP - VAC, TTL LOAD - 74 BBLs.

KIOWA RIGGED TO SWAB BACK ACID LOAD & TEST HERINGTON AND KRIDER AFTER ACID.

TEST HERINGTON AND KRIDER AFTER ACID AS FOLLOWS:

FOUND FLUID LEVEL @ 200' FROM SURFACE.
 SWAB WELL DOWN, RECOVERED APPROX 40 BBLs.
½ HR. TEST - RECOVERED 2 BBLs, MEASURED GAS @ 18 MCFPD.
½ HR. TEST - RECOVERED 2 BBLs, MEASURED GAS @ 22 MCFPD.
½ HR. TEST - RECOVERED 2 BBLs, MEASURED GAS @ 27 MCFPD.
½ HR. TEST - RECOVERED 2 BBLs, MEASURED GAS @ 31 MCFPD.
 SHUT DOWN FOR THE NIGHT.

10/21/98

SICP - 240 psi, SBHP - CALCULATES 261 psi. (ASSUMING NO FLUID FILL-UP)
 SWAB WELL DOWN, RECOVERED 400' SCTR'D GASSY FLUID.

HALLIBURTON ON LOCATION TO FRACTURE HERINGTON AND KRIDER PERFORATIONS WITH 13,706 GALS 70% N2 FOAM AND 15,000# 16/30 SAND.

FRACTURE HERINGTON AND KRIDER PERFS AS FOLLOWS:

PUMP 4000 GALS 70% FOAM PAD AND ESTABLISH INJECTION RATE @ 11 BPM - 1015 psi.
 PUMP 2000# 16/30 SAND @ 1 PPG (2000 GALS) @ 10.7 BPM - 995 psi.
 PUMP 3000# 16/30 SAND @ 1.5 PPG (2000 GALS) @ 10.4 BPM - 995 psi.
 PUMP 4000# 16/30 SAND @ 2 PPG (2000 GALS) @ 10.0 BPM - 973 psi.
 PUMP 6000# 16/30 SAND @ 3 PPG (2000 GALS) @ 10.0 BPM - 938 psi.
 FLUSH W/1706 GALS 70% N2 FOAM @ 10.4 BPM - 1164 psi.
ISIP - 1133 psi, 5 MIN SIP - 1000 psi, 10 MIN SIP - 920 psi, 15 MIN SIP - 847 psi.
TTL LOAD - 13,706 GALS, TTL SAND - 15,000# 16/30
TTL N2 - 117,000 SCF, TTL LIQUID LOAD - 117 BBLs.

LEFT WELL SHUT IN FOR 1 HR. RIGGED UP 3/4" CHOKE NIPPLE TO FLOW WELL BACK THROUGH.

FLOW & SWAB TEST HERINGTON & KRIDER AFTER FRAC AS FOLLOWS:

START FLOWING WELL BACK VIA 3/4" CHOKE NIPPLE, CSN - 540 psi.
 FLOW WELL FOR 45 MINUTES WELL DIED.
 RIG UP 4 1/2" CASING SWAB TOOLS TO SWAB BACK PORTION OF FRAC LOAD.
 FOUND FL. LEV. @ 400' FROM SURFACE.
 SWAB APPROX 1 HR, RECOVERED 40 BBLs, WELL KICKED OFF.

10/21 CONT.CONT. FLOW TESTING HERINGTON AND KRIDER AS FOLLOWS:

1 HR. FLOW - MEASURED GAS @ 619 MCFPD, HEAVY MIST OF FLUID.
 1 HR. FLOW - MEASURED GAS @ 697 MCFPD, HEAVY MIST OF FLUID.
 1 HR. FLOW - MEASURED GAS @ 729 MCFPD, HEAVY MIST OF FLUID.
 1 HR. FLOW - MEASURED GAS @ 729 MCFPD, HEAVY MIST OF FLUID.
 SHUT DOWN FOR THE NIGHT.

10/22/98

SICP - 300 psi, SBHP - CALCULATES 326 psi, (ASSUMING NO FLUID)
 OPENED WELL UP & WELL STARTED FLOWING.

CONTINUE FLOW TESTING HERINGTON AND KRIDER AS FOLLOWS:

1 HR. FLOW - MEASURED GAS @ 930 MCFPD, HEAVY MIST OF FLUID.
 1 HR. FLOW - MEASURED GAS @ 1015 MCFPD, HEAVY MIST OF FLUID.
 1 HR. FLOW - MEASURED GAS @ 1000 MCFPD, HEAVY MIST OF FLUID.
 1 HR. FLOW - MEASURED GAS @ 965 MCFPD, HEAVY MIST OF FLUID.
 1 HR. FLOW - MEASURED GAS @ 965 MCFPD, HEAVY MIST OF FLUID.
 1 HR. FLOW - MEASURED GAS @ 965 MCFPD, HEAVY MIST OF FLUID.

HALLIBURTON ON LOCATION WITH COYOTE KILL TRUCK, PUMPED 30 BBLS TREATED WATER TO
 KEEP WELL QUIET.

DANCO ON LOCATION WITH 4 1/2" SAND PUMP.

SAND PUMPED WELL BORE CLEAN OF APPROX 15' SAND.

SHUT DOWN FOR THE NIGHT.

10/23/98

KIOWA CONT TO SAND PUMP WELL BORE CLEAN OF FRAC SAND AND BALL SEALERS.
 RIG DOWN SAND PUMP. RIG UP TO RUN PRODUCTION TUBING.

RAN PRODUCTION TUBING AS FOLLOWS:

MUD ANCHOR X 2 3/8"	15.40'
SEATING NIPPLE X 2 3/8"	1.10'
85 JTS. USED YELLOW BAND TUBING X 2 3/8"	2669.00'
K.B. (5' < 2' ABOVE G.L.)	3.00'
<u>TUBING SET @</u>	<u>2688.50'</u>
SEATING NIPPLE SET @	2673.10'

A&W SUPPLY ON LOCATION WITH INSPECTED RODS AND PUMP, UNLOADED.

RAN BOTTOM HOLE PUMP & RODS AS FOLLOWS:

2" X 1 1/2" 12' RWTC PUMP WITH 6' GAS ANCHOR	14.00'
2' X 3/4" ROD SUB	2.00'
105 - 3/4" INSPECTED RODS	2625.00'
8', 2' X 3/4" ROD SUBS	10.00'
1 1/4" X 16' POLISHED ROD	16.00'
<u>PUMP SET @</u>	<u>2673.10'</u>

CLAMPED RODS OFF. CLOSE IN WELL.

KIOWA RIGGED DOWN & MOVED OFF LOCATION.

ORIGINAL

10/24 THRU 10/30/98

GABEL LEASE SERVICE HOOKED UP WELL HEAD. SET PUMPING UNIT.
LAID APPROX ½ MILE POLY 2" LINE FROM #2 WELL TO THORPE #1 WELL.
SET VERTICAL SEPARTOR @ #1 WELL SO THAT FLUIDS CAN BE DUMPED TO SWD ON #1 WELL
SITE.
DUKE ENERGY WILL BE SETTING METER RUN AND METER WITHIN THE NEXT 2 WEKKS @ WHICH
POINT WELL WILL BE PUT INTO SERVICE.

END OF REPORT

BRAD SIROKY