

0-00 ORIGINAL

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

API NO. 15- 163-23,265  
County ROOKS  
- SW - SE - SW Sec. 16 Twp. 7 Rge. 19 X W

Operator: License # 8061  
Name: OIL PRODUCERS, INC. OF KANSAS  
Address P.O. BOX 8647  
City/State/Zip WICHITA, KANSAS 67208

330 Feet from (S)N (circle one) Line of Section  
3630 Feet from (E)W (circle one) Line of Section

Purchaser:  
Operator Contact Person: DIANA RICHECKY  
Phone (316) 681-0231

Footages Calculated from Nearest Outside Section Corner:  
NE, (SE) NW or SW (circle one)  
Lease Name MUIR "B" Well # 1

Contractor: Name: DUKE DRILLING CO.  
License: 5929  
Wellsite Geologist: ARDEN RATZLAFF

Field Name  
Producing Formation ARBUCKLE and LANSING "J"  
Elevation: Ground 1973 KB 1981  
Total Depth 3532' PBDT 3487

Designate Type of Completion  
X New Well        Re-Entry        Workover  
X Oil        SWD        SIOW        Temp. Abd.  
       Gas        ENHR        SIGW  
       Dry        Other (Core, WSW, Expl., etc.)

Amount of Surface Pipe Set and Cemented at 247  
Multiple Stage Cementing Collar Used? X Yes        No  
If yes, show depth set 1465 Feet  
If Alternate II completion, cement circulated from 1465  
feet depth to        surface w/ 250 sx cmt.

If Workover:  
Operator:  
Well Name:  
Comp. Date        Old Total Depth         
       Deepening        Re-perf.        Conv. to Inj/SWD  
       Plug Back        PBDT  
       Commingled        Docket No.         
       Dual Completion        Docket No.         
       Other (SWD or Inj?)        Docket No.         
8/7/95        8/11/95        10/26/95         
Spud Date Date Reached TD Completion Date

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WICHITA, KANSAS

Drilling Fluid Management Plan ALT II DPW 7-15-99  
(Data must be collected from the Reserve Pit)  
Chloride content 11,000 ppm Fluid volume 350 bbls  
Dewatering method used: evaporation and then restore to  
to near normal  
Location of fluid disposal if hauled offsite:  
Operator Name  
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 12/13/95  
Subscribed and sworn to before me this        of       ,  
19       .  
Notary Public Sheryl L. Murphy  
Date Commission Expires 12-19-96

SHERYL L. MURPHY  
State of Kansas  
My Appt. Exp.

**K.C.C. OFFICE USE ONLY**  
F        Letter of Confidentiality Attached  
C        Wireline Log Received  
C        Geologist Report Received  
**Distribution**  
       KCC        SWD/Rep        NGPA  
       KGS        Plug        Other  
(Specify)

Operator Name Oil Producers, Inc. of Kansas Lease Name MUIR "B" Well # 1

Sec. 16 Twp. 7S Rge. 19  
 East  
 West

County ROOKS

ORIGINAL

**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.)

List All E.Logs Run: Geo., Radiation Guard Log,  
Correlation Cement Bond Log

Name	Top	Datum
Anhydrite	1468	(+ 513)
Topeka	2932	(-9517)
Heebner	3130	(-1149)
Lansing	3169	(-1188)
Base Kansas City	3390	(-1409)
Arbuckle	3429	(-1448)
Granite	3524	(-1543)
LTD	3531	(-1550)

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"	28	237	60 40 POZ	145	3% CC, 2% gel
production	7 7/8"	4 1/2"	10.5#	3530	50 50 POZ	25	
					EA2	125	18% salt

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	sur. 1465	Hallite		Flocele

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Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	see attached sheet		same

TUBING RECORD Size 2 3/8" Set At 3474.86 Packer At \_\_\_\_\_ Liner Run  Yes  No

Date of First, Resumed Production, SWD or Inj. 11/2/95 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production 12 bopd Oil Ebls. \_\_\_\_\_ Gas Mcf \_\_\_\_\_ Water Ebls. \_\_\_\_\_ Gas-Oil Ratio \_\_\_\_\_ Gravity 31'

Disposition of Gas: **METHOD OF COMPLETION**  Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled  see attached  
(If vented, submit ACO-18.)  Other (Specify) \_\_\_\_\_

Production Interval

15-163-23265-00  
00

ATTACHMENT TO ACO-1 FOR MUIR "B" #1  
ROOKS COUNTY, KS.  
API #: 15-163-23,265

ORIGINAL

PERFORATION RECORD:

Arbuckle zone:

2 shots expandable 3451-3452' and 3438-3441'  
Acidize: 500 gallons 15% FE MCA with 12 ball sealers

Re-acidize: 2,000 gallons 15% DSFE

Lansing "J" zone:

4 shots expandable 3348-3350'  
Acidize: 250 gallons 15% MCA

Re-acidize: 1000 gallons 15% SGA

ORIGINAL

OIL PRODUCERS INC., OF KS.  
INITIAL COMPLETION REPORTWELL - MUIR B #1LEGAL - SW/SE/SW OF 16-7s-19w IN ROOKS CO. KS.API# - 15-163-23,265K.B. - 8' ABOVE G.L.G.L. - 1973'SURFACE CSN - 8 5/8" @ 247' WITH 145 SX 60/40RTD - 3531'LTD - 3531' (ELI RAG LOG 8/11/95)PRODUCTION CSN - 4 1/2", 10.5# @ 3530' WITH 125 SX EA-2.PORT COLLAR - 1465'TWO-STAGE CEMENT - 250 SX CIRCULATED TO SURFACE.TOP OF CEMENT - 2925'PBTD - 3487' (ELI 8/17/95)PERFORATIONS - ARBUCKLE-----3451'-3452' 2/FT. 10/16/95  
ARBUCKLE-----3438'-3441' 2/FT. 10/16/95  
LANSING-J-----3348'-3350' 4/FT. 10/17/95TUBING RAN - 15' MA, SN, 108 JTS. 2 3/8" (3453.51')TUBING SET @ - 3474.86'AVER TBG JT. - 31.98'PUMP RAN - 2" X 1 1/2" X 14' RWTC WITH STRAINERRODS RAN - PUMP, 2', 136-3/4", 6', 6', 4', 4', 2', P.R.PUMP SET @ - 3459.61'PUMPING UNIT - HELLSTAR 114, MODEL-114-73, S.N. - 10170 WITH 74".MOTOR - 25 HP ELECTRIC.GUN BBL - 12 1/2' X 15' 300 BBL STEEL.STOCK TANK - 1 - 12' X 12 1/2' 250 BBL STEEL.WATER TANK - NONERECEIVED  
STATE CORPORATION COMMISSION  
DEC 18 1995  
DIGITAL MATHEMATICS DIVISION  
WICHITA, KANSAS

ORIGINAL

8/17/95

ELI WIRELINE ON LOCATION TO RUN CORRELATION & BOND LOG.  
 FOUND PBTD - 3487' (12' HIGH TO TOP OF INSERT @ 3499)  
 FOUND TOP OF CEMENT - 2925' WITH EXCELLENT CEMENT BONDING.

10/16/95

KIOWA WELL SERVICE ON LOCATION, RIG UP D-D DERRICK.  
 SWAB WELL DOWN TO 3200' FROM SURFACE.  
 ELI ON LOCATION TO PERFORATE PROPOSED INTERVALS IN ARBUCKLE.  
 PERFORATED ARBUCKLE - 3451'-3452' WITH 2 SHOTS/FT. EXPENDABLE GUN.  
 PERFORATED ARBUCKLE - 3438'-3441' WITH 2 SHOTS/FT. EXPENDABLE GUN.  
 FOUND TTL DEPTH @ 3487'.

KIOWA SWABBED WELL DOWN TO PBTD - 3487' WITH SHOW OF OIL.  
 1/2 HR NATURAL TEST - RECOVERED 10' FLUID, VERY GOOD SHOW OIL.

HALLIBURTON ON LOCATION TO ACIDIZE ARBUCKLE PERFS 3451'-52' &  
 3438'-41' WITH 500 GALS 15% FE MCA ACID WITH 12 BALL SEALERS.

ACIDIZED ARBUCKLE PERES AS FOLLOWS:

PUMP 150 GALS 15% FE MCA ACID.  
 PUMP 350 GALS 15% FE MCA ACID WITH 1 BALL/29 GALS ACID.  
 LOAD HOLE WITH FIELD BRINE.  
 PRESSURED TO 1200 psi, BROKE BACK TO 300 psi.  
 DISPLACED ACID IN INTERVALS UP TO 4 BPM - 250 psi.  
 NOTE: - SAW NO NOTICEABLE BALL ACTION THROUGHOUT JOB.  
 ISIP - 100 psi, VAC - 1 MINUTE. TTL LOAD - 68 BBLs.

KIOWA RIGGED TO SWAB TEST ARBUCKLE AFTER ACID.

TEST ARBUCKLE PERES AFTER ACID AS FOLLOWS:

FOUND FL. LEV. @ 100' FROM SURFACE.  
 SWABBED WELL DOWN, RECOVERED 53.24 BBLs, 14% OIL.  
 1/2 HR. TEST - RECOVERED 1.16 BBLs, 50% OIL.  
 1 HR. TEST - RECOVERED 1.16 BBLs, 47% OIL.

HALLIBURTON ON LOCATION TO RE-ACIDIZE ARB PERFS W/2000 GALS 15% DSFE

RE-ACIDIZED ARBUCKLE PERES AS FOLLOWS:

PUMP 500 GALS 15% DSFE WITH 15 BALL SEALERS EQUALLY DISTRIBUTED.  
 PUMP 1500 GALS 15% DSFE ACID.  
 LOADED HOLE WITH 7 BBLs FIELD BRINE.  
 DISPLACED 100 GALS ACID @ 6 BPM - 250 psi TO 2200 psi (BALLED OFF RUN SWAB)  
 DISPLACED REMAINING 1900 GALS ACID @ 6 BPM - 280 psi TO 350 psi.  
 ISIP - 150 GALS. VAC - 1 MIN. TTL LOAD - 113 BBLs.

TEST ARBUCKLE AFTER RE-ACIDIZATION AS FOLLOWS:

SWAB WELL DOWN RECOVERED 56.84 BBLs.  
 1/2 HR. TEST - RECOVERED 1.74 BBLs @ 46% OIL.  
 1/2 HR. TEST - RECOVERED 1.16 BBLs @ 44% OIL.  
 SHUT DOWN FOR THE NIGHT.

15-163-030

23265-00-00

10/17/95

SICP - 0 psi, FLUID LEVEL - 2200' DOWN, FREE OIL - 700', OIL % - 56%  
SBHP - 515 psi.  
SWAB WELL DOWN & RECOVERED 17.69 BBLs.

**CONTINUE TESTING ARBUCKLE AS FOLLOWS:**

1 HR. TEST - RECOVERED 1.45 BBLs @ 43% OIL.  
1 HR. TEST - RECOVERED 1.16 BBLs @ 46% OIL.

HALLIBURTON ON LOCATION WITH RBP.  
MURFIN ON LOCATION WITH 101 JTS. 2 3/8" TBG (3218') FROM GALLAGHER.  
RIH - WITH RBP & TBG.  
SET RBP @ 3200'. SPOT 1 SK SAND ON PLUG.  
POOH - WITH TBG.

HALLIBURTON ON LOCATION TO CEMENT TOP PORTION OF PRODUCTION CSN.

**2-STAGE PRODUCTION CSN AS FOLLOWS:**

TIE INTO PORT COLLAR WITH TBG @ 1465' AND OPEN TOOL.  
PUMP INTO PORT COLLAR AND ESTABLISH BLOW ON ANNULUS.  
MIX & PUMP 250 SX HALLIBURTON LITE CEMENT.  
CIRCULATED 25 SX CEMENT TO SURFACE.  
CLOSE PORT COLLAR, REVERSE CIRCULATED CLEAN.  
POOH - WITH TBG & RBP.  
NOTE: - MARION SCHMIDT WITH KCC DISTRICT - 4 WITNESSED ALTERNATE-2  
CEMENT JOB.  
SHUT DOWN FOR THE NIGHT.

10/18/95

ELI WIRELINE ON LOCATION TO PERFORATE PROPOSED INTERVAL IN LANSING-J.  
PERFORATED LANSING-J - 3348'-3350' 4 SHOTS/FT. EXPENDABLE CSN GUN.

HALLIBURTON ON LOCATION WITH RBP & RTTS PACKER.  
RIH - WITH RBP, RTTS, & TBG.  
SET RBP - 3390', SET RTTS - 3331'.  
KWS SWABBED WELL DOWN TO 3331'. FOUND FL. LEV. 900' DOWN.

HALLIBURTON ON LOCATION TO ACIDIZE LANS-J WITH 250 GALS 15% MCA.

**ACIDIZED LANS-J AS FOLLOWS:**

PUMP 250 GALS 15% MCA.  
LOAD HOLE & STARTED FEEDING.  
DISPLACED ACID @ 2 BPM - 300 psi.  
ISIP - 100 psi, VAC - 3 MINUTES., TTL LOAD - 21 BBLs.

**TEST LANSING-J AFTER ACID AS FOLLOWS:**

SWAB WELL DOWN & RECOVERED 13.37 BBLs. GOOD SHOW OIL.  
1/2 HR. TEST - RECOVERED 1.16 BBLs @ 27% OIL.

HALLIBURTON ON LOCATION TO RE-ACIDIZE LANS-J WITH 1000 GALS 15% SGA.

**RE-ACIDIZED LANS-J AS FOLLOWS:**

PUMP 1000 GALS 15% SGA ACID.  
DISPLACED ACID @ 2 BPM - 200 psi TO 400 psi. OVER-FLUSHED WITH 6 BBLs.  
ISIP - 100 psi, VAC - 5 MINS, TTL LOAD - 43 BBLs.

15-163-23265-00-00

10/18/95 CONT.

TEST LANS - AFTER RE-ACIDIZATION AS FOLLOWS:

SWAB WELL DOWN & RECOVERED 31.90 BBLs WITH SHOW OF OIL.  
1/2 HR TEST - RECOVERED 1.45 BBLs @ 22% OIL.

POOH - WITH TBG, RTTS PACKER, & RBP.  
RIG TO RUN PRODUCTION TUBING

RAN PRODUCTION TUBING AS FOLLOWS:

MUD ANCHOR X 2 3/8"	15.25'
SEATING NIPPLE X 2 3/8"	1.10'
108 JTS. 2 3/8" USED T&D TUBING	3453.51'
K.B. (8' < 3' ABOVE G.L.)	5.00'
TUBING SET @	3474.86'
SEATING NIPPLE SET @	3459.61'

SHUT DOWN FOR THE NIGHT.

10/19/95

RIGGED TO RUN RE-BUILT PUMP & RODS FROM GALLAGHER LEASE.

RUN PUMP & RODS AS FOLLOWS:

2" X 1 1/2" X 14' RWTC WITH STRAINER	16.00'
2' X 3/4" ROD SUB	2.00'
136-3/4" RODS USED	3400.00'
6', 6', 4', 4', 2' X 3/4" ROD SUBS	22.00'
1 1/4" X 16' POLISHED ROD	16.00'
PUMP SET @	3459.61'

CLAMPED RODS OFF. RIG DOWN & MOVED OFF LOCATION.

10/20/95

MURFIN ON LOCATION WITH CAT.  
BUILT PUMPING UNIT GRADE TO NORTH OF WELL.  
BUILT TANK BATTERY GRADE TO EAST OF EXISTING TANK GRADE ON MUIR #1.

TOTAL LEASE SERVICE ON LOCATION WITH HELLSTAR 114 PUMPING UNIT WITH  
25 HP ELECTRIC MOTOR FROM GALLAGHER LEASE & SET.

TOTAL LEASE SERVICE ON LOCATION WITH 12 1/2' X 15' 300 BBL STEEL GUN BBL  
AND 12 1/2' X 12' 250 BBL STEEL STOCK TANK FROM GALLAGHER LEASE.  
SET UP TANK BATTERY.

HOOKEED UP WELL HEAD AND LAYED APPROX 400' OF 2" SCH-40 LEAD LINE.

10/23/95

NORTON DECATUR ON LOCATION & SET ELECTRIC SERVICE.  
STEVES ON LOCATION & HOOKEED UP ELECTRIC MOTOR.  
GUN BBL BEING REPAIRED.  
WILL PUT WELL IN SERVICE WITHIN THE WEEK.

END OF REPORT.

15-163-23265-00-00

REMIT TO:  
P.O. BOX 941046  
DALLAS, TX 75395-1046

CUSTOMER COPY



HALLIBURTON

INVOICE

ORIGINAL

INVOICE NO.	DATE
839929	08/12/1995

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
WHR B-21		ROOKS		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
HAYS		DUKE DRILLING #1	CEMENT PRODUCTION CASING		08/12/1995
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
844949	BRAD SIROKY			COMPANY TRUCK	94585

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

DIRECT CORRESPONDENCE TO:  
P.O. BOX 1598  
LIBERAL, KS 67905-0000

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE CEMENTING ROUND TRIP	100	MI	2.75	275.00
		1	UNT		
001-016	CEMENTING CASING	3531	FT	1,570.00	1,570.00
		1	UNT		
314-163	CLAYFIX II	2	GAL	28.00	56.00
078-315	MUD FLUSH	500	GAL	.65	325.00
124	GUIDE SHOE - 4 1/2" BRD THD.	1	EA	95.00	95.00
325.201					
40	CENTRALIZER 4-1/2 X 7-7/8	7	EA	50.00	350.00
805.60004					
544	4 1/2" LATCH DOWN BAFFLE	1	EA	100.00	100.00
501.03734					
544	3-WIPER L-D PLUG - 4 1/2"	1	EA	159.00	159.00
501.0373					
500	CEMENT BASKET 4 1/2"	2	EA	105.00	210.00
300.6681					
500	BAKER PORT COLLAR	1	EA	1,300.00	1,300.00
513.0141					
504-308	CEMENT - STANDARD	125	SK	8.86	1,107.50
504-130	CEMENT - 50/50 POZMIX STANDARD	35	SK	6.75	236.25
506-121	HALLIBURTON-GEL 2%	100	LB	.00	N/C
504-268	SALT	1000	LB	.15	150.00
507-775	HALAD-322	88	LB	7.00	616.00
508-127	CAL SEAL 60	6	SK	25.90	155.40
500-407	PULK SERVICE CHARGE	182	CFT	1.35	245.70
500-105	MILEAGE CMTG MAT DEL OR RETURN	408.450	THJ	.95	388.03

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INVOICE SUBTOTAL 2,338.88  
DISCOUNT-(RID) 1,932.42-  
INVOICE RID AMOUNT 5,406.46

\*\*\*\*\* 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 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.



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INVOICE



15-163-23265-00.00

HALLIBURTON ORIGINAL

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

INVOICE NO.	DATE
839929	08/12/1995

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER
W-IP B-21	ROOKS	KS	SAME

SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
HAYS	DUKE DRILLING #1	CEMENT PRODUCTION CASING	08/12/1995

ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
46989	BRAD SIROKY		117	COMPANY TRUCK	94585

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

DIRECT CORRESPONDENCE TO:  
P.O. BOX 1598  
LIBERAL, KS 67905-0000

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	*-KANSAS STATE SALES TAX	5-			185.76
	*-HAYS CITY SALES TAX				37.92

INVOICE TOTAL - PLEASE PAY THIS AMOUNT \$5,630.14

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**HALLIBURTON ENERGY SERVICES**

HAL-1906-N

CHARGE TO: **OIL PRODUCERS OF KANSAS**  
 ADDRESS:  
 CITY, STATE, ZIP CODE: **WICHITA, KS**

DUNCAN COPY

TICKET

839929 - 2

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 DEC 18 1995  
 No. 18195

PAGE 1 OF 2

SERVICE LOCATIONS 1. <b>HAYS, KS</b>	WELL/PROJECT NO. <b>B-21</b>	LEASE <b>MUER</b>	COUNTY/PARISH <b>ROOKS</b>	STATE <b>KS</b>	CITY/OFFSHORE LOCATION	DATE <b>8-12-95</b>	OWNER <b>SAME</b>
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <b>DUKE DRILLING</b>	RIG NAME/NO. <b>#1</b>	SHIPPED VIA <b>51374</b>	DELIVERED TO <b>LOUTZON</b>	ORDER NO.
3.	WELL TYPE <b>01</b>	WELL CATEGORY <b>01</b>	JOB PURPOSE <b>035</b>	WELL PERMIT NO. <b>AP24</b>	WELL LOCATION <b>15163232650000</b>	<b>14 - 7 - 19w</b>	
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF			U/M			
000-111		1			MILEAGE	100	MC	2.75		275.00
001-016		1			PUMP SERVICE	3531	FT	6.1RS	1570.00	1570.00
314-103		1			CLAYCO II	2	GNL	29.00		58.00
018-315		1			MUD FLUSH	500	GNL	.65		325.00
12A	825.201	1			GUIDE SLIDE	1	EA	95.00		95.00
40	806.60004	1			CONTROLERS (H) 5-4	7	EA	50.00		350.00
514	801.03734	1			UTCH DOWN Baffle	1	EA	100.00		100.00
543	801.0373	1			3W UTCH DOWN PLUG	1	EA	159.00		159.00
320	800.8881	1			BASKETS	2	EA	105.00		210.00
73	813.0141	1		0	PORT COLLAR (R) 1465'	1	EA	1300.00		1300.00

**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.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

**X** *[Signature]*  
 DATE SIGNED: **8-12-95** TIME SIGNED: **0015**  A.M.  P.M.  
 do  do not require IPC (Instrument Protection).  Not offered

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		<b>SURVEY</b>		AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL <b>4440.60</b>
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?					FROM CONTINUATION PAGE(S) <b>2898.33</b>
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
TUBING SIZE	TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				SUB-TOTAL <b>7338.93</b>
TREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO					
		<b>X</b> CUSTOMER DID NOT WISH TO RESPOND		APPLICABLE TAXES WILL BE ADDED ON INVOICE			

**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) <b>BRAD SIOCKY</b>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <b>X</b> <i>[Signature]</i>	HALLIBURTON OPERATOR/ENGINEER <b>WYATT WILSON</b>	EMP # <b>84377</b>	HALLIBURTON APPROVAL
---	---	--	-----------------------	----------------------



HALLIBURTON ENERGY SERVICES

TRK 3846-7613 15-163-23265-00-00  
 TICKET CONTINUATION CUSTOMER COPY

TICKET No. 839929

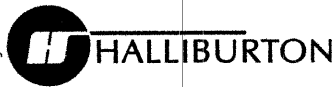
FORM 1911 R-10

CUSTOMER Oil Producers of Kansas	WELL MUR 8-21	DATE 8-11-95	PAGE 2	OF 2
-------------------------------------	------------------	-----------------	-----------	---------

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE		AMOUNT	
		LOC	ACGT	DF									
504-308		1			Standard Cement	125				8.86	1,107.50		
504-130		1			50/50 Pozmix Standard	35				6.75	236.25		
506-121		1			1sk Halliburton Gel@2%								n/c
509-968		1			Salt	1000	1b			15	150.00		
507-775		1			Halad-322	88	1b			7.00	616.00		
508-127		1			Cal Seal	6				25.90	155.49		
ORIGINAL													
500-207		1			SERVICE CHARGE	CUBIC FEET		182		1.35	245.70		
500-306		1			MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES		95	388.03		
					16,338	50	408,450						

CONTINUATION TOTAL 2,898.88

No. B 285373



# JOB SUMMARY

HALLIBURTON DIVISION  
HALLIBURTON LOCATION

MAX CONTENWT 15-163-23265-00-00  
HAYS, KS  
BILLED ON TICKET NO. 839939

## WELL DATA

FIELD \_\_\_\_\_ SEC. 14 TWP. 7 RNG. 19W COUNTY ROOKS 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	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>U</u>	<u>10.5</u>	<u>4 1/2</u>	<u>K8</u>	<u>3530</u>	
LINER						
TUBING						
OPEN HOLE			<u>7 7/8</u>	<u>3530</u>	<u>3531</u>	SHOTS/FT.
PERFORATIONS			<b>ORIGINAL</b>			
PERFORATIONS						
PERFORATIONS						

## JOB DATA

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE	<u>1</u>	<u>HOWGO</u>
CENTRALIZERS	<u>7</u>	<u>"</u>
BOTTOM PLUG		
TOP PLUG	<u>1</u>	<u>"</u>
HEAD	<u>1</u>	<u>"</u>
PACKER	<u>2</u>	<u>"</u>
OTHER	<u>1</u>	<u>BAKER</u>

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>8-11</u>	DATE <u>8-11</u>	DATE <u>8-12</u>	DATE <u>8-12</u>
TIME <u>1200</u>	TIME <u>2:45</u>	TIME	TIME

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>W. WILSON</u>	<u>89377</u>	<u>HAYS, KS</u>
<u>R. BERNS</u>	<u>37220</u>	<u>"</u>
<u>T. PHANGSTEEL</u>	<u>11032</u>	<u>"</u>

### MATERIALS

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

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

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

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

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN

NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN

FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

BREAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN

BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_

PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

DEPARTMENT CEMENT

DESCRIPTION OF JOB 4 1/2" LONGSTREAK

PORT COLLAR @ 1465' TOP JT # 50

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN

CUSTOMER REPRESENTATIVE X BRAD SROCKY

HALLIBURTON OPERATOR Wayne W. Wil COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK	MIXED LBS./GAL
	<u>32</u>	<u>50/50</u>		<u>B</u>	<u>2 1/2 GAL (RATHORE - 15 SK (SACKS))</u>	<u>1.28</u>	<u>14.15</u>
	<u>125</u>	<u>EA-2</u>		<u>B</u>	<u>5 1/2 GALLON 1875 SALT 1/4 1/2 HAARD 312</u>	<u>1.36</u>	<u>15.5</u>

### PRESSURES IN PSI

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_

BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_

### HYDRAULIC HORSEPOWER

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_

AVERAGE RATES IN BPM \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_

CEMENT LEFT IN PIPE \_\_\_\_\_

FEET 30.5' REASON LATCH DOWN

## SUMMARY

### VOLUMES

PRELUSH BBL - GAL. 12 - 20 TYPE MUDFLUSH / WATER

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

TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL. BBL. - 55.7

CEMENT SLURRY BBL.-GAL. 8 - 30.3 = 38.3

TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

## REMARKS

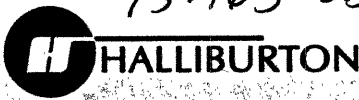
SEE CHART - JOB LOG

THANK YOU

FIELD OFFICE

CUSTOMER JOB NO. 15-163-23265-00-00  
LEASE NO. 8-12-15  
WELL NO. B-2  
JOB TYPE 4 1/2" LONGSTREAK  
DATE 8-12-15

15.163.23265-00-00



DATE: 2-12-45 PAGE NO. 1

**JOB LOG** HAL-2013-C

CUSTOMER: OIL PRODUCERS OF KS WELL NO: R-21 LEASE: M-128 JOB TYPE: 4 1/2" LOGSHELLS TICKET NO: 839239

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1200	8-11						CALL IN OUT
	2145	8-11						ORIGINAL ON LOCATION - DISCOVER JOB PROBLEMS
	0125							BREAK CIRCULATION
1	0203	6	12		✓		300	PUMP MUD FLUSH
	0206	6	20		✓		300	PUMP CLAYEY PREFLUSH
	0214							PLUG ABOVE
	0217	6	38.3		✓		250	MIX CEMENT
	0228							WASH OUT PUMP - LEAKS
	0229							RELEASE PLUG
	0230	7	0		✓		600	REPLACE PLUG
			55.7				1500	PLUG ABOVE
								RELEASE PUMP - PLUG HELD
								WASH-UP
								BACK-UP
	0400							JOB COMPLETE
								THANK YOU WASH-UP JOB
								PUMP TIME = 30 min

CUSTOMER COPY

INVOICE



15-163-23265-00-00

HALLIBURTON

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

INVOICE NO.	DATE
839905	08/07/1995

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER		
WATR 8-8/1	ROOKS	KS	SAME		
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
HAYS	DUKE DRILLING	CEMENT SURFACE CASING	08/07/1995		
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
644989	H A MOORE			COMPANY TRUCK	94587

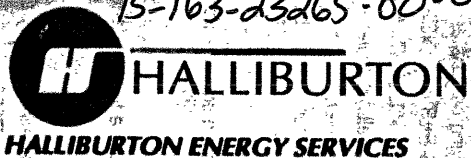
ORIGINAL

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

DIRECT CORRESPONDENCE TO:  
P.O. BOX 1598  
LIBERAL, KS 67905-0000

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE CEMENTING ROUND TRIP	100 MI		2.75	275.00
		1 UNT			
001-016	CEMENTING CASING	237 FT		585.00	585.00
		1 UNT			
030-503	WOODEN PLUG	8 5/8 IN		95.00	95.00
		1 EA			
504-136	CEMENT - 40/60 POZNIX STANDARD	145 SK		7.16	1,038.20
504-121	HALLIBURTON-GEL 7X	200 LB		.00	N/C
509-406	ANHYDROUS CALCIUM CHLORIDE	4 SK		36.75	147.00
500-207	BULK SERVICE CHARGE	153 CFT		1.35	206.55
500-306	MILEAGE CMTG MAT DEL OR RETURN	305.525 TMI		.95	290.25
INVOICE SUBTOTAL					2,637.00
DISCOUNT-(BID)					843.83-
INVOICE BID AMOUNT					1,793.17
*-KANSAS STATE SALES TAX					59.21
*-HAYS CITY SALES TAX					12.08
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$1,864.46

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.



15-163-23265-00-00

HALLIBURTON ENERGY SERVICES

HAL-1906-N

CHARGE TO: oil Producers  
 ADDRESS: P.O. Box 8647  
 CITY, STATE, ZIP CODE: wichita ks 67208

DUNCAN COPY

TICKET

No. 839905 - 0

PAGE 1 OF 2

1. SERVICE LOCATIONS <u>Hwy. Ks 25525</u>	WELL/PROJECT NO. <u>#B-21</u>	LEASE <u>Mura</u>	COUNTY/PARISH <u>Rooks</u>	STATE <u>Ks</u>	CITY/OFFSHORE LOCATION	DATE <u>8-7-95</u>	OWNER <u>same</u>
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>Duke Drilling Co</u>	RIG NAME/NO. <u>#1</u>	SHIPPED VIA <u>ct</u>	DELIVERED TO <u>well site</u>	ORDER NO.	
3. WELL TYPE	WELL CATEGORY <u>01</u>	JOB PURPOSE <u>010</u>	WELL PERMIT NO.	WELL LOCATION <u>4-17-19</u>			
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
000-117		1	32		MILEAGE 51374 RCM Rt	100	mi	1	unit	2.75	275.00
001-016		1	32		Pump Service	237	ft			585.00	585.00
030-503		1	32		wooden Plug	1	EA	8 5/8	IN	95.00	95.00

ORIGINAL

**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.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		<b>SURVEY</b>		AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL  FROM CONTINUATION PAGE(S)  <u>1682.00</u>
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?					
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
TUBING SIZE	TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
DATE SIGNED <u>8-7-95</u>	TIME SIGNED <u>1500</u>	TREE CONNECTION		TYPE VALVE		ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO	
<input type="checkbox"/> do <input type="checkbox"/> do not require IPC (Instrument Protection). <input checked="" type="checkbox"/> Not offered				<input checked="" type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND		SUP APPL' W/	

**CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES** The customer hereby acknowledges receipt of the materials and services listed

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) <u>HA Moore</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <u>xHA Moore</u>	HALLIBURTON OPERATOR/ENGINEER <u>Allen Wenzel</u>	EMP # <u>86101</u>	HALLIBURTON
--	--	--	-----------------------	-------------

For good ar (hereinaft  
A. Cl Hall'



HALLIBURTON

15-163-23265-00-00 TRK 3860

TICKET CONTINUATION

CUSTOMER COPY

TICKET No. 839905

HALLIBURTON ENERGY SERVICES

CUSTOMER: Oil Producers of Kansas WELL: Muir B-21 DATE: 8-7-95 PAGE 2 OF 2

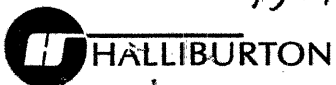
FORM 1911 R-10

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
504-136		1			40/60 Pozmix-Standard	145				7.16	1,038.20
506-121		1			2ek Halliburton Gel@2%						n/c
509-406		1			Calcium Chloride	4				36.75	147.00
ORIGINAL											
500-207		1			SERVICE CHARGE	CUBIC FEET 153				1.35	206.55
500-306		1			MILEAGE CHARGE	TOTAL WEIGHT 12,221	LOADED MILES 50	TON MILES 305.525		.95	290.25

No. B 285365

CONTINUATION TOTAL 1,682.00





15-163-23265-00-00

# JOB SUMMARY

HALLIBURTON DIVISION MIO Cont

HALLIBURTON LOCATION Hays Ks

BILLED ON TICKET NO. 839905

## WELL DATA

FIELD \_\_\_\_\_ SEC 4 TWP. 7 RNG. 19 COUNTY Rooks 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 242'

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		<u>28#</u>	<u>8 1/2</u>	<u>80</u>	<u>237</u>	
LINER						
TUBING						
OPEN HOLE				<u>237'</u>	<u>242'</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>8-7-95</u>	DATE <u>8-7-95</u>	DATE <u>8-7-95</u>	DATE <u>8-7-95</u>
TIME <u>1200</u>	TIME <u>1500</u>	TIME <u>1830</u>	TIME <u>2000</u>

## TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>A. J. Werth 86101</u>	<u>PV 40071</u>	<u>Hays Ks</u>
<u>R. Berens 51220</u>	<u>RCM 51374</u>	<u>Hays Ks</u>
<u>D. Berland G 1512</u>		<u>Hays Ks</u>

## MATERIALS

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

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

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

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN.

NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN.

FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.

GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.

FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.

BREAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.

BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.

PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

DEPARTMENT Cmt

DESCRIPTION OF JOB Cmt 8 1/2" SURFACE PIPE

21 sks c/c top it

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.

CUSTOMER REPRESENTATIVE X. H. H. H.

HALLIBURTON OPERATOR Allen + Werth

COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>145</u>	<u>40/60</u>	<u>Brt</u>	<u>B</u>	<u>2% gel 3% cc</u>	<u>1.20</u>	<u>13.61</u>

STATE CORP. RECEIVED  
DEC 18, 1995  
DEC

## PRESSURES IN PSI

## SUMMARY

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESLUSH: BBL.-GAL. \_\_\_\_\_

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

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. 13.6

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY: BBL.-GAL. 33.5

HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_

AVERAGE RATES IN BPM \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_

CEMENT LEFT IN PIPE \_\_\_\_\_

FEET 20' REASON Requested

REMARKS See Job Log + Chart

thanks Allen + Row

FIELD OFFICE

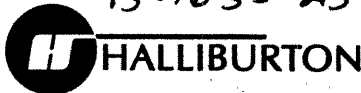
CUSTOMER O.I. Producers

LEASE MIO

WELL NO. # 15-163-23265-00-00

JOB TYPE 8 1/2" SURFACE

DATE 8-7-95



JOB LOG HAL-2013-C

CUSTOMER O.I. Production	WELL NO. # R #2	LEASE Muir B #1	JOB TYPE 8 5/8 surface	TICKET NO. 839905
-----------------------------	--------------------	--------------------	---------------------------	----------------------

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
1	1200							called out
	1500							on location Rig Drilling
								Down safety, set up equip
								+ plan job.
	11:58							Hole cut 242'
	1723							Start out of hole w/ O.P.
								out of hole w/ O.P.
								Rig up to Run 8 5/8 casing 28 lbs
	1745							start pipe
	1845							on bottom w/ pipe
	1850							Break w/ P.T.
		5	1					300# st 145 Sfs 40/60 for 2 1/2 gal 3 1/2
		0	33.5					0# Fin cut.
								Release Plug
								400# Start O.P. esp cap 13.620lb
	1900		13.6					400# Fin O.P. Plug Down - Shut In
								CIR 210ks to P.T
	2000							Job complete

ORIGINAL

Thanks Allen, Row Doug



15-163-23265-00,00  
**HALLIBURTON**  
**JOB SUMMARY**

HALLIBURTON DIVISION 20200-21  
 HALLIBURTON LOCATION Hays, KS

BILLED ON TICKET NO. 22990

**WELL DATA**

FIELD \_\_\_\_\_ SEC 4 TWP. 7 RNG. 19 COUNTY Rock 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 272'

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		<u>28#</u>	<u>2 1/2"</u>	<u>80</u>	<u>137</u>	
LINER						
TUBING						
OPEN HOLE				<u>207</u>	<u>242</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**ORIGINAL**

**JOB DATA**

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>8-7-90</u> TIME <u>1200</u>	DATE <u>2-7-90</u> TIME <u>1500</u>	DATE <u>2-7-90</u> TIME <u>1930</u>	DATE <u>2-7-90</u> TIME <u>7000</u>

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
<u>A. J. Worth 86101</u>	<u>P10</u>	<u>Hays Ks</u>
<u>R. Barons 51220</u>	<u>R10</u>	<u>Hays Ks</u>
<u>O. Barlow 61512</u>		<u>Hays Ks</u>

**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. \_\_\_\_\_  
 PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_  
 OTHER \_\_\_\_\_  
 OTHER \_\_\_\_\_

DEPARTMENT Cas  
 DESCRIPTION OF JOB cas 00% surface ppe

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

CUSTOMER REPRESENTATIVE X [Signature]  
 HALLIBURTON OPERATOR [Signature] COPIES REQUESTED \_\_\_\_\_

**CEMENT DATA**

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>145</u>	<u>40/60</u>	<u>Port</u>	<u>B</u>	<u>2 1/2 gal 27 cc</u>	<u>1.20</u>	<u>13.61</u>

**PRESSURES IN PSI**

**SUMMARY**

**VOLUMES**

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
 BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
 AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. 13.6  
 SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_ CEMENT SLURRY: BBL.-GAL. 273  
 HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_  
 AVERAGE RATES IN BPM \_\_\_\_\_  
 TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
 CEMENT LEFT IN PIPE \_\_\_\_\_  
 FEET 20 REASON Required

**REMARKS**

See Job Log & Chart  
Thanks all + R.D.

CUSTOMER

CUSTOMER  
 LEASE  
 WELL NO.  
 JOB TYPE  
 DATE

15-163-23265-00-00



DATE PAGE NO.

8-7-95 1

**JOB LOG** HAL-2013-C

CUSTOMER A.P.A.	WELL NO. #2	LEASE Main	JOB TYPE 2 3/8 casing	TICKET NO. 839905
--------------------	----------------	---------------	--------------------------	----------------------

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
1	12:30							called out
	12:40							calculated Avg. Density
								Down safety, set up eq. p
								4 1/2" 2 1/2"
	11:38							bleed out 242
	17:23							start out of hole w/ O.P.
								get out hole w/ O.P.
								Big up to Run 2 3/8 casing 22/lb
	17:45							start pipe
	1:45							at bottom of pipe
	18:20							Break end of pit
		5						3rd st 100 SE 4 1/2" casing w/ 1700
		5	22.5					24" F.P. cut
								Release Plug
								4000' start O.P. 22" casing
	19:20		13.1					4000' F.P. 22" Plug; Down shut in
								cut stick to pit
	20:00							Job complete

ORIGINAL

Thanks All, Ron Day

CUSTOMER COPY

INVOICE



15-163-23265-00-00

HALLIBURTON

REMIT TO:  
P.O. BOX 951045  
DALLAS, TX 75395-1046

INVOICE NO.	DATE
915109	10/18/199

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
MUIR "B" 1		ROOKS		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
HAYS		KIOWA WELL SERVICE	ACIDIZE FORMATION		10/18/199
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
546989	BRAD SIROKY			COMPANY TRUCK	9815

ORIGINAL

DIRECT CORRESPONDENCE TO:

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

P.O. BOX 1598  
LIBERAL, KS 67905-0000

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
<b>PRICING AREA - MID CONTINENT</b>					
100-115	MILEAGE SPEC. TOOLS ROUND TRIP	100	MI	1.50	150.00
		1	UNT		
110-056	RBP	3236	FT	885.00	885.00
		1	EA		
		4	1/2 IN		
116-437	PORT COLLAR POSITIONER	1	EA	300.00	300.00
116-228	STRIPPER TYPE HEAD			140.00	140.00
		8	HR PER 8 HR		
		1	EA		
000-117	MILEAGE CEMENTING ROUND TRIP	100	MI	2.85	285.00
		1	UNT		
009-019	PLUGGING BK SPOT CEMENT OR MUD	1465	FT	1,255.00	1,255.00
		1	UNT		
504-316	CEMENT - HALL. LIGHT STANDARD	220	SK	8.03	1,766.60
507-210	FLOCELE	88	LB	1.65	145.20
510-222	SACKED SAND 20/40 & SMALLER	2	SK	9.80	19.60
500-225	CEMENTING MATERIALS RETURNED	130	CFT	1.35	175.50
500-306	MILEAGE CMTG MAT RETURN	267.800	TMI	.95	254.41
500-207	BULK SERVICE CHARGE	358	CFT	1.35	483.30
500-306	MILEAGE CMTG MAT DEL OR RETURN	773.200	TMI	.95	734.54
109-017	RTTS PACKER 10-18-95	3330	FT	1,225.00	1,225.00
		1	EA		
		4	1/2 IN		
117-000	TUBING & ROTARY SUBS-ONSHORE	2	3/8 IN	35.00	35.00
		1	EA		
200-111	MILEAGE FOR STIMULATION EQUIP	100	MI	2.85	285.00
		1	UNT		
200-024	PUMPING SERVICE FIRST 4 HRS	400	PSI	675.00	675.00
		1	PMP		
208-009	MCA ACID	20	%	2.38	595.00
201-004		250	GAL		

\*\*\*\*\* 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 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.

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



CUSTOMER COPY  
INVOICE

15-163-23265-00-00

INVOICE NO.	DATE
915109	10/18/1995

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
MUIR "B" #1		ROOKS		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
HAYS		KIOWA WELL SERVICE	ACIDIZE FORMATION		10/18/1995
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
646989	BRAD SIROKY			COMPANY TRUCK	9815

ORIGINAL

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

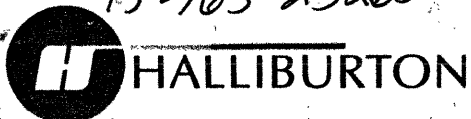
DIRECT CORRESPONDENCE TO:  
P.O. BOX 1598  
LIBERAL, KS 67905-0000

REFERENCE NO	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
206-300	SCA RETARDED ACID	20	%	1.75	1,750.00
201-004		1000	GAL		
210-013	HAI-85M	2	GAL	52.50	105.00
206-318	SCA-1	20	GAL	25.00	500.00
218-702	LOSURF-259	4	GAL	39.00	156.00
INVOICE SUBTOTAL					11,920.15
DISCOUNT - (BID)					4,267.73-
INVOICE BID AMOUNT					7,652.42
*-KANSAS STATE SALES TAX					112.76
*-HAYS CITY SALES TAX					23.01

STATE CORP RECEIVED  
DEC 18 1995  
CONSERVATION DIVISION  
WICHITA, KANSAS

INVOICE TOTAL - PLEASE PAY THIS AMOUNT \$7,788.19

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.



15-163-23265-00-00

**HALLIBURTON ENERGY SERVICES**

HAL-1906-N

SERVICE LOCATIONS

1. *Hwy 25-23*  
 2.  
 3.  
 4. REFERRAL LOCATION

WELL/PROJECT NO.

*B.A.1*

LEASE

*Min*

COUNTY/PARISH

*Rank*

STATE

*K.*

CITY/OFFSHORE LOCATION

*STOCKTON, LA*

DATE

*DEC 18 1995*

OWNER

*Sh...*

TICKET TYPE  
 SERVICE  
 SALES

NITROGEN JOB?  
 YES  
 NO

CONTRACTOR

*H...*

RIG NAME/NO.

*...*

SHIPPED VIA

*C/T*

DELIVERED TO

*Location*

ORDER NO.

*...*

WELL TYPE

*01*

WELL CATEGORY

*01*

JOB PURPOSE

*195 - 035*

WELL PERMIT NO.

*195*

INVOICE INSTRUCTIONS

*...*

STATE RECEIVED  
 DEC 18 1995  
 0507 8195

CUSTOMER COPY

TICKET

No.

915109 - 8

PAGE 1 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT.	DF							
<i>100 113</i>		<i>1</i>			<i>MILEAGE " 113 (RTM)</i>	<i>10</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>150</i>	<i>1500</i>
<i>110 096</i>		<i>1</i>			<i>R.P.P.</i>	<i>3230</i>	<i>1</i>	<i>4 1/2</i>	<i>1</i>	<i>150</i>	<i>48450</i>
<i>111 957</i>		<i>1</i>			<i>Pump Control Purchase</i>	<i>1</i>	<i>1</i>	<i>4 1/2</i>	<i>1</i>	<i>200</i>	<i>200</i>
<i>116 238</i>		<i>1</i>			<i>Stopper head</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>140</i>	<i>140</i>
<i>000 117</i>		<i>1</i>			<i>Recharge " 5137 (RTM)</i>	<i>100</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>2 85</i>	<i>200</i>
<i>009 019</i>		<i>1</i>			<i>Pump Service</i>	<i>1460</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>120</i>	<i>17520</i>

ORIGINAL

**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.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

**X** [Signature]

DATE SIGNED: \_\_\_\_\_ TIME SIGNED: \_\_\_\_\_  A.M.  P.M.

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

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		<b>SURVEY</b>		AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL <i>3015</i>
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?					
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
TUBING SIZE	TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
DATE SIGNED	TIME SIGNED	ARE YOU SATISFIED WITH OUR SERVICE?		<input type="checkbox"/> YES	<input type="checkbox"/> NO		
TREE CONNECTION	TYPE VALVE	APPLICABLE TAXES WILL BE ADDED ON INVOICE				<i>11920</i>	

**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) <i>[Signature]</i>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <b>X</b> [Signature]	HALLIBURTON OPERATOR/ENGINEER <i>[Signature]</i>	EMP # <i>...</i>	HALLIBURTON APPROVAL <i>[Signature]</i>
---	--	---	---------------------	--



HALLIBURTON

15-163-23265-00-00

TICKET CONTINUATION

COPY

TICKET No. 11512

HALLIBURTON ENERGY SERVICES

FORM 1911 R-9

CUSTOMER: D.1 Production Inc. of K. WELL: M-17 B-2 DATE: 12-18-11 PAGE 3 OF 3

Table with columns: PRICE REFERENCE, SECONDARY REFERENCE/PART NUMBER, ACCOUNTING (LOC, ACCT, DF), DESCRIPTION, QTY., U/M, UNIT PRICE, AMOUNT. Includes entries for RTTS, Tky Sp, mileage, Pump service, SGA-1, HAI-83 M, and La Surf 257.

ORIGINAL

CONTINUATION TOTAL 2361.00





HALLIBURTON

15-163-23265-00-TRK 3846-8206  
00

TICKET CONTINUATION

CUSTOMER COPY

TICKET No. 915109

HALLIBURTON ENERGY SERVICES

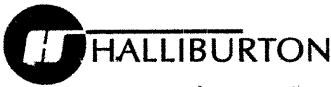
CUSTOMER <b>Oil Producers</b>	WELL <b>Muir B-2</b>	DATE <b>10-17-95</b>	PAGE <b>2</b>	OF <b>3</b>
----------------------------------	-------------------------	-------------------------	------------------	----------------

FORM 1911 R-10

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOG	ACCT	DF							
504-316		1			Halliburton Light Cement	350				8 03	2,810 50
507-210		1			Flocele	88	1b			1 65	145 20
510-222		1			Sand 20/40	2				9 80	19 60
ORIGINAL											
500-225										1 35	175 50
500-306										95	254 41
500-207		1			SERVICE CHARGE					1 35	483 30
500-306		1			MILEAGE CHARGE					95	734 54
					TOTAL WEIGHT						
					30,928						
					LOADED MILES						
					30						
					TON MILES						
					773.200						

No. B 285472

CONTINUATION TOTAL	4,193.18 3,579.15
--------------------	----------------------



# JOB SUMMARY

HALLIBURTON DIVISION Mech ContractHALLIBURTON LOCATION Hays, KsBILLED ON TICKET NO. 91510915-163-23265-00-00

## WELL DATA

FIELD \_\_\_\_\_ SEC. \_\_\_\_\_ TWP. \_\_\_\_\_ RNG. \_\_\_\_\_ COUNTY Roots 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 3487

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING			4 1/2	KB	3487	
LINER						
TUBING						
OPEN HOLE			<u>Port Collar 1465'</u>			SHOTS/FT.
PERFORATIONS			3438	3431		
PERFORATIONS			3454	3452		
PERFORATIONS			3398	3350		

## JOB DATA

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>10-17-95</u>	DATE <u>10-17-95</u>	DATE <u>10-17-95</u>	DATE <u>10-17-95</u>
TIME <u>0900</u>	TIME <u>10:00</u>	TIME <u>10:30</u>	TIME <u>7:30</u>

## TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

# ORIGINAL

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>R. Legleiter</u>	<u>B0719</u>	<u>Hays, Ks</u>
<u>T. Henry</u>	<u>71010</u>	<u>"</u>
<u>J. Becker</u>	<u>43222</u>	<u>"</u>
<u>G. Palmberg</u>	<u>91489</u>	<u>"</u>
<u>G. Blessing</u>	<u>52160</u>	<u>"</u>

## 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. \_\_\_\_\_

PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

DEPARTMENT Tool - Cms. stimulationDESCRIPTION OF JOB Cms Top Outside Then Port CollarJOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN. CUSTOMER REPRESENTATIVE [Signature]HALLIBURTON OPERATOR [Signature] COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>350</u>	<u>HLC</u>		<u>7 B</u>	<u>1/4" Floccle</u>	<u>1.84</u>	<u>12.7</u>

## PRESSURES IN PSI

## SUMMARY

## VOLUMES

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

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

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL. (BBL.) GAL. 5.5

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY: (BBL.) GAL. 1146

HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ REMARKS

AVERAGE RATES IN BPM \_\_\_\_\_ Sec Chart + Jus Jog

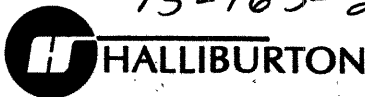
TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_ Thank You

CEMENT LEFT IN PIPE \_\_\_\_\_ [Signature]

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

FIELD OFFICE

CUSTOMER: 01 Products  
LEASE: Mura  
WELL NO.: B-2  
JOB TYPE: Square  
DATE: 10-17-95



JOB LOG H&L-2013-C

CUSTOMER	WELL NO.	LEASE	JOB TYPE
O.I. Producers	B-21	Mina	Tool - Squeeze

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0700							Called out
	10:00							On loc. Rig Scheduling Cigs
	10:30							START. IN hole with 4 1/2 RBP
								Port Collar opens
								Perf. 3438-31, 3454-52
	12:00							Set RBP @ 3236'
	12:15					1000		Load Hole 48 <sup>SS1</sup> test to 1000psf hold
	12:40		11					Spot sand 1sk 11 <sup>SS1</sup>
								Pull Tubing to locate Port Collar
	13:45							Open Port Collar
		2				300		2BPM 300psf Blow on Bunderhead
	1400							Start Mixing 350sk HIC
								Pumped 6 <sup>SS1</sup> get circulation to surface
	1425		70					Mixed 70 <sup>SS1</sup> 220sk.
								Con'd. Circulated to surface
			4.5					Displace 4.5 <sup>SS1</sup> H <sub>2</sub> O
								Closed Port collar
						1,000		Press. to 1,000 psf hold
								Run 3 Tracts IN
								Get circ. out short string
	1500							Pumped 15 <sup>SS1</sup> H <sub>2</sub> O open
								Run tubing 700' to wash sand off plug
								wash up track
	1545							Circulate sand off plug
	1630							Pull RBP out of hole

ORIGINAL

Thank you  
Roge Pac / John



JOB LOG FAL-2013-C

CUSTOMER O.I. Production	WELL NO. R-2	LEASE Muir	JOB TYPE Tool-Stimulation	TICKET NO. 915109
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0500							Called out
	0800							On Location w/ tools
	0830							Perforating @ 3348-50
	0900							Start RTTS - RBP in hole
								ACID out LOCATION
								Bt up Equipment
								RBPE 3365'
								RTTS @ 3340'
	1025							SWAB WELL DOWN - DRY
			9					SPAC - ACID 250 gal 20% SCA-1 3000 ml
	1120							ACID spotted
								Set RTTS
	1125							Load tbg.
2	1130		130 1/4			100		Tbg loaded ACID on pipes
2	1131	1/2				200		TREATING 6 BBL 20% SCA-1 ACID
2	1133	1				300		TREATING 15 BBL Flush
2	1134	1				200		TREATING 21 BBL total
2	1134	2				400		TREATING
2	1135	2				350		TREATING
2	1136	2	19			350		ACID out on over-flush
2	1137		21			100		ISIP
2	1140					0		ON VACUUM in 3 mins
								SWAB TEST
								Block SCA-1 ACID
	1330							START ACID 1000 gal 20% SCA-1 ACID
2	1334	2				200		ACID on formation
2	1335	2	24			400		TREATING ACID in tbg
2	1341	2	37			375		ACID out on over-flush 24 BBL 20% SCA-1
2	1344		43			100		ISIP 19 BBL Flush
2	1347					0		ON VACUUM in 5 mins 43 BBL total
								Rack up Equip
								SWAB TEST
	1610							RELEASE & Pull RTTS out of hole
								Tool out of hole
								Job completed
								Thank you
								John H. [Signature]

ORIGINAL

45 250

16-75-19W

COPY *and*

FORM MUST BE TYPED

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 # 8061  
Name: OIL PRODUCERS, INC. OF KANSAS  
Address P.O. BOX 8647  
City/State/Zip WICHITA, KANSAS 67208

Purchaser:  
Operator Contact Person: DIANA RICHECKY  
Phone (316) 681-0231

Contractor: Name: DUKE DRILLING CO.  
License: 5929

Wellsite Geologist: ARDEN RATZLAFF

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.           

8/7/95            8/11/95            10/26/95             
Spud Date            Date Reached TD            Completion Date           

API NO. 15- 163-23,265  
County ROOKS  
       - SW - SE -        SW Sec. 16 Twp. 7 Rge. 19  E W

330 Feet from (S)N (circle one) Line of Section  
3630 Feet from (E)W (circle one) Line of Section

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

Lease Name MUIR "B" Well # 1

Field Name           

Producing Formation ARBUCKLE and LANSING "J"

Elevation: Ground 1973 KB 1981

Total Depth 3532' PBTB 3487

Amount of Surface Pipe Set and Cemented at 247

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set 1465 Feet

If Alternate II completion, cement circulated from 1465

feet depth to            surface            w/ 250            sx cut.

Drilling Fluid Management Plan ALT IF 3-27-96  
(Data must be collected from the Reserve Pit)           

Chloride content 11,000 ppm Fluid volume 350 bbls

Dewatering method used: evaporation and then restore to  
to near normal  
Location of fluid disposal if hauled offsite:           

Operator Name           

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 12/13/95

Subscribed and sworn to before me this            of           , 19           .

Notary Public Sheryl L. Murphy

Date Commission Expires 12-19-96

SHERYL L. MURPHY  
Notary Public  
State of Kansas

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other (Specify)

SIDE TWO

Operator Name Oil Producers, Inc. of Kansas Lease Name MUIR "B" Well # 1  
 Sec. 16 Twp. 7S Rge. 19  East  West  
 County ROOKS

COPY

**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.)  
 List All E.Logs Run: Geo., Radiation Guard Log,  
 Correlation Cement Bond Log

Name	Top	Datum
Anhydrite	1468	(+ 513)
Topeka	2932	(-9517)
Heebner	3130	(-1149)
Lansing	3169	(-1188)
Base Kansas City	3390	(-1409)
Arbuckle	3429	(-1448)
Granite	3524	(-1543)
LTD	3531	(-1550)

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	237	60 40 POZ	145	3% CC, 2% gel
production	7 7/8"	4 1/2"	10.5#	3530	50 50 POZ	25	
					BA2	125	18% salt

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	sur. 1465	Hallite	220	Flocele

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
	see attached sheet	same

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8"	3474.86		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.		Producing Method			
11/2/95		<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production	Oil	Bbls.	Gas	Mcf	Water Bbls.
12 bopd					Gas-Oil Ratio Gravity
					31'

Disposition of Gas: **METHOD OF COMPLETION**  Vented  Sold  Used on Lease (If vented, submit ACO-18.)  Open Hole  Perf.  Dually Comp.  Commingled  see attached  Other (Specify) \_\_\_\_\_

Production Interval \_\_\_\_\_

COPY

ATTACHMENT TO ACO-1 FOR MUIR "B" #1  
ROOKS COUNTY, KS.  
API #: 15-163-23,265

PERFORATION RECORD:

Arbuckle zone:

2 shots expandable 3451-3452' and 3438-3441'  
Acidize: 500 gallons 15% FE MCA with 12 ball sealers

Re-acidize: 2,000 gallons 15% DSFE

Lansing "J" zone:

4 shots expandable 3348-3350'  
Acidize: 250 gallons 15% MCA

Re-acidize: 1000 gallons 15% SGA