

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem test 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
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

	Name	Top	Bottom
DST #1: 3826-3845', times 30/60/30/60. IFT 81-153, ISIP 316, FFP 183,224, FSIP 306. Rec. 210' clean oil, 300' mud cut oil.	Topeka	3560	
	Heebner	3771	
DST #2: 3848-3860', times 30/60/30/60. IFP 20/20, ISIP 91, FFP 20/20, FSIP 173. Rec. 30' oil cut mud, 35% oil.	Toronto	3792	
	Lansing	3810	
DST #3: 3820-3963', times 30/60/30/60. IFP 153,224, ISIP 889, FFP 224/224, FSIP 991. Rec 360' oil cut mud, 120' mud cut oil, 60' clean oil.	B/Kansas City	4032	
	TD	4100	
DST #4: 3994-4018', times 30/60/60/60. IFP 81/153, ISIP 346, FFP 204/265, FSIP 375. Rec. 510' clean gassy oil, 120' mud cut oil, 50% mud 50% oil.			

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"	24#	338	Class A	250	3%cc, 2% gel
Production.....	7.7/8	5.1/2	15.5#	4108	EA-2 lite	215	3%cc, 18% sa

PERFORATION RECORD

Acid, Fracture, Shot, Cement Squeeze Record

shots per foot	specify footage of each interval perforated	(amount and kind of material used)	Depth
4	4010-4006	800 gals. 15% NE acid	
4	3943-3948	800 gals. 15% NE acid	
4	3837-3842	800 gals. 15% NE acid	

TUBING RECORD

size 2 3/8" set at 3800 packer at 3800 Liner Run Yes No

Date of First Production 7-04-85 Producing method flowing pumping gas lift Other (explain)

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	180 Bbls	0 MCF	5 Bbls	CFPB	34.5

METHOD OF COMPLETION

PRODUCTION INTERVAL

Disposition of gas: vented
 sold
 used on lease

open hole perforation
 other (specify)

.....3837-4010!.....

Dually Completed.
 Commingled



Diamond Shamrock
Exploration Company

April 27, 1987

Mr. Rex Krieg
Kansas Corporation Commission
202 W. 1st., Suite 200
Wichita, Kansas 67202

Dear Rex,

Enclosed is a copy of the invoice you requested for the cementing of the D. V. tool in the Norbert Von Lintel #4 well in Sec. 2, Rge ¹⁰20S, Twp. 26W, Sheridan County, Kansas.

The D. V. tool was placed at a depth of 2165' and cemented to the surface with 450 sx of Halliburton light cement.

If I can be of any further assistance please do not hesitate in contacting me @806/378-5681.

Sincerely,

James Skees
Drilling Engineer III

Enclosure
JS/pj

RECEIVED
STATE CORPORATION COMMISSION
4-29-1987
APR 29 1987

CONSERVATION DIVISION
Wichita, Kansas



WORK ORDER CONTRACT AND PRE-TREATMENT DATA

15-179-20828-00-00

RM 1008 R-4

A Division of Halliburton Company DUNCAN, OKLAHOMA 73838

ATTACH TO INVOICE & TICKET NO. 11272

STRICT Haye, Ks.

DATE June 18 85

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

WELL NO. #4 LEASE ADAMANT UNLIMITED SEC. 2 TWP. 10E RANGE 26W
ELD _____ COUNTY Shannon STATE Ks. OWNED BY Diamond Shamrock

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

Table with columns: INFORMATION NAME, TYPE, NEW USED, WEIGHT, SIZE, FROM, TO, MAX. ALLOW. P.S.I. Rows include CASING, LINER, TUBING, OPEN HOLE, PERFORATIONS.

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____
TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED

WT SK Production Log w/ Baker Floort Equip
STAGE - 500 gal F to chok 21 - 215 sks EA 2 1/2" / 96 CASE AL 13 ASACT
NO STAGE - 450 sks Alle w/ 7 # gilsonite for sk / 1/4" B Floor chok

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

THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

- As consideration, the above-named Customer agrees:
(a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists.
(b) Halliburton shall not be responsible for and Customer shall secure Halliburton against any liability for damage to property of Customer and of the well owner...
(c) Customer shall be responsible for and secure Halliburton against any liability for reservoir loss or damage...
(d) Customer shall be responsible for and secure Halliburton against any and all liability of whatsoever nature for damages as a result of subsurface trespass...
(e) Customer shall be responsible for and secure Halliburton against any liability for injury to or death of persons...
(f) Halliburton makes no guarantee of the effectiveness of the products, supplies or materials...
(g) Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well...
(h) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others...
(i) Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials...
(j) Invoices payable NET by the 20th of the following month after date of invoice...
(k) This contract shall be governed by the law of the state where services are performed...
(l) Halliburton shall not be bound by any changes or modifications in this contract...

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

SIGNED [Signature] DATE June 18, 1985 TIME 2:00 A.M. P.M. CUSTOMER APR 29 1985 4-29-1987 CONSERVATION DIVISION Wichita, Kansas

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

JOB SUMMARY

HALLIBURTON
LOCATION

Oberlin, KS

15-179-20828-00-00

BILLED ON
TICKET NO. 101272

WELL DATA

FIELD _____ SEC. 2 TWP. 10² RNO. 26⁴ COUNTY SHERIDAN STATE Ks.

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

VITIAL PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

PRESENT PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

ACKER TYPE BAKER D.U. TOOL SET AT 2165

OTTOM HOLE TEMP. _____ PRESSURE _____

ISC. DATA _____ TOTAL DEPTH 4110

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>N</u>	<u>15.5</u>	<u>5 1/2</u>	<u>LB</u>	<u>4111</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
<u>JUNE 18</u>	<u>JUNE 18</u>	<u>JUNE 18</u>	<u>JUNE 19</u>
DATE <u>JUNE 18</u>	DATE <u>JUNE 18</u>	DATE <u>JUNE 18</u>	DATE <u>JUNE 19</u>
TIME <u>1430</u>	TIME <u>1915</u>	TIME <u>2230</u>	TIME <u>0415</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
LOAD COLLAR <u>Insert 5/2</u>	<u>1EA</u>	<u>BAKER</u>
LOAD SHOE		
GUIDE SHOE <u>REG 5 1/2</u>	<u>1EA</u>	<u>BAKER</u>
CENTRALIZERS <u>REG 5 1/2</u>	<u>1EA</u>	<u>BAKER</u>
OTTOM PLUG		
TOP PLUG		
HEAD ROTATING <u>5 1/2</u>	<u>1EA</u>	<u>HOWE</u>
ACKER <u>D.U. TOOL 5 1/2</u>	<u>1EA</u>	<u>BAKER</u>
OTHER <u>ROTOWALK CLEANERS</u>	<u>255 FT</u>	<u>BAKER</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J. KEENEAN</u>	<u>3743</u>	<u>OBERLIN</u>
<u>B. KARLS</u>	<u>H.C.M.</u>	<u>Ks.</u>
<u>T. HICKENT</u>	<u>3846</u>	<u>OBERLIN</u>
	<u>B.M.</u>	<u>Ks.</u>
<u>K. CARTER</u>	<u>1042</u>	<u>OBERLIN</u>
	<u>B.M.</u>	<u>Ks.</u>
<u>H. HUGHES</u>	<u>FIELD</u>	<u>OBERLIN</u>
	<u>SUPERVISOR</u>	<u>Ks.</u>

MATERIALS

HEAT. FLUID _____ DENSITY _____ LB/GAL. API

ISPL. FLUID _____ DENSITY _____ LB/GAL. API

ROP. TYPE _____ SIZE _____ LB.

ROP. TYPE _____ SIZE _____ LB.

CID TYPE _____ GAL. _____ %

CID TYPE _____ GAL. _____ %

CID TYPE _____ GAL. _____ %

URFACTANT TYPE _____ GAL. _____ IN

E AGENT TYPE _____ GAL. _____ IN

LUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN

ELLING AGENT TYPE _____ GAL.-LB. _____ IN

RIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN

REAKER TYPE _____ GAL.-LB. _____ IN

LOCKING AGENT TYPE _____ GAL.-LB. _____

ERFFAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT CURT - Bulk

DESCRIPTION OF JOB CURT 5 1/2 Production Log

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

CUSTOMER REPRESENTATIVE X. Bill Walsh

HALLIBURTON OPERATOR John Keenan COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	WATER SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1ST</u>	<u>215</u>	<u>EA-2</u>	<u>A</u>	<u>PORT</u>	<u>B</u>	<u>5% CAL SEAL 18% CMT</u>	<u>1.36</u>	<u>15.5</u>
<u>2</u>	<u>450</u>	<u>HLC</u>	<u>A</u>	<u>PORT</u>	<u>B</u>	<u>7% GILSONITE & 4% Floc Hex</u>	<u>1.99</u>	<u>12.4</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSHY 12 GAL. TYPE Floc Hex

BREAKDOWN _____ MAXIMUM _____ LOAD & SKDN: 6-9 GAL.

VERAGE _____ FRACTURE GRADIENT _____ TREATMENT: 52-160 GAL.

MUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY: 379 GAL.

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: 379 GAL.

ORDERED _____ AVAILABLE _____ USED _____ REMARKS SEE Job Log & Chart

AVERAGE RATES IN BPM _____

HEATING _____ DISPL. _____ OVERALL _____ RECEIVED

CEMENT LEFT IN PIPE _____ STATE CORPORATION COMMISSION

REASON SHOOT IT

APR 29 1987
4-29-1987

CUSTOMER CONSERVATION DIVISION

CUSTOMER: Diamond Shamrock
JOB TYPE: Long string
DATE: June 1985

JOB LOG

WELL NO. 1 LEASE/WELL DETAIL/OWNERS/TICKET NO. 15-179-20828-00-00
 CUS. ER Diamond Shamrock PAGE NO. 1
 JOB TYPE LONG STRING DATE JUNE 18, 85

ORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1430							CALLED OUT
	1715							ON LOC (READY @ 2030) Rig Running Csg w/ BAKER FLOAT EQUIPMENT. GUIDE SHOE - INSERT FLOAT VALVE 5 CENTRALIZERS ON BOTTOM ITS, ROTOWALL (CLEANERS (BAKER) FROM 3780 FT TO 4035 FT BAKER D.V. TOOL @ 215 FT w/ centralize Above & Below CNT BKT Below D.V. Tool
	2125							FIN Csg Hook Plug Cont. of Rotating Head
	2130							START CIRC w/ mud Pump & Rotating Csg
	2230							FIN CIRC Hook To Pump Truck
	2234		3	1		300		Run 3BBL H ₂ O Ahead Flocker
	2235			1		300		ST. 500gal Flocker 21
	2237		12	1		300		FIN Flocker
	2238		3	1		300		Run 3BBL Behind Flocker
	2240			1		300		START MIX 315 STS L.A. 2 w/ special seal 1800 SACT
	2248		52	1		300		FIN MIX CNT Wash Pump & Lines - Release BAKER Plug
	2250	10		1		200		START H ₂ O Disp
	2255	6	45	1		200		FIN H ₂ O Disp
	2255	6		1		200		START mud Disp
	2300	6	83	1		150		ST. LIFTING CNT
	2303	6	70	1		500		STOP Rotating Csg
	2305	6		1		700		CIRC PRESSURE
	2305	6	97	1		1300		FIN Disp
	2307							Release Insert Head
	2310							Drop open TOOL
	2320							OPEN BAKER D.V. TOOL
	2320							START CIRC w/ mud Pump (CONT. NEXT PAGE)

RECEIVED
 STATE CORPORATION COMMISSION

APR 29 1985



TICKET

NO. 101272-6

15-179-20828-00-00

RM 1906 R9

PAGE 1 OF 2 PAGES

LL NO. - FARM OR LEASE NAME 14 Norbert Young	COUNTY Shoemaker	STATE Ks	CITY/OFFSHORE LOCATION	DATE June 18 85
OWNER Diamond Shamrock	TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>	NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
CONTRACTOR MUCE - Rig 20	LOCATION 10000 K	CODE 50327		
SHIPPED VIA 3243 3816	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT	LOCATION 2	CODE	
DELIVERED TO 9/11/85 Ks	ORDER NO.	LOCATION 3	CODE	
WELL TYPE Oil	WELL CATEGORY Oil Development	WELL PERMIT NO. 15-179-20828		
TYPE AND PURPOSE OF JOB 035-Cont. Production		B-449995		

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATE PRECEDING SENTENCE. Halliburton's liability and customer's remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
20-117		1		MILEAGE 3243	60	miles			2.10	126.00
27-013		1		Pump charge - 1st stage	4111	ET	8	hrs		996.60
27-161		1		Pump charge - 2nd stage	2185	ET	8	hrs		660.00
40-014		1		Rotating head	1	Job				155.00
58-099		1		Flo-check 21	500	gal			1.50	750.00

THIS IS NOT AN INVOICE

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. B-449995 748203

JOB SATISFACTORILY COMPLETED? _____	TAX REFERENCES	SUB TOTAL	10169.63
OPERATION OF EQUIPMENT SATISFACTORY? _____		TAX	
PERFORMANCE OF PERSONNEL SATISFACTORY? _____		TAX	
CUSTOMER OR HIS AGENT (PLEASE PRINT) Bill O'Leary	HALLIBURTON OPERATOR John Keenan - Harold Hughes	TAX RECEIVED	
CUSTOMER OR HIS AGENT (SIGNATURE)		STATE CORPORATION COMMISSION TOTAL	

CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR SERVICES TO SERVICES FURNISHED UNDER CONTRACT.

CUSTOMER

APR 29 1987
4-29-1987
CONSERVATION DIVISION

BAKER PACKERS

A DIVISION OF BAKER OIL TOOLS INC
P.O. BOX 3048 • HOUSTON, TEXAS 77253

DATE ISSUED: 06-18-85 SHIPPED FROM: (DISTRICT)

REMIT TO: BAKER PACKERS P.O. BOX 200301 HOUSTON, TEXAS 77216

TERMS: NET 30 DAYS FROM DATE OF INVOICE
(INTEREST CHARGEABLE AFTER END OF MONTH FOLLOWING DATE OF INVOICE.)

FORM 20-00 (REV. 4/83)

CA PROJECT CODE

25404600

15-179-20828-00-00

Hill City, Kansas

SOLD TO
Diamond - Shamrock
Box 1385
Hays, Kansas 67601

SHIP TO
COUNTY: Sheridan
STATE: Kansas
WELL NO.:
FIELD:
LEASE: Von Lintel

RECEIVED
STATE CORPORATION COMMISSION
4-29-1987
APR 29 1987
CONSERVATION DIVISION
Wichita, Kansas

PURCHASE ORDER NUMBER	REQUISITION NUMBER	LOCATION	STATE TO	COUNTY TO	TERRITORY	CUSTOMER CODE	CODE	PRICE CODE	SHIP VIA	DATE SHIPPED
			29		B 6321	DSM	PJ ID		Our Delivery	06 18 85

ITEM	QUANTITY	COMMODITY NO.	DESCRIPTION	PRODUCT NO. F/PARTS	TAX CODE	REV. CODE	UNIT CONTROL CODE	DISC.	NET AMOUNT
01	1	200-03-3201	Baker 5 1/2 Model "J" Stage Collar			00	3014.00		3014.00
02	1	07-06605-00	Baker 5 1/2 Model "JD" Indicating Plug			3Y	N/C		N/C
03	1	01-52765-01	Baker 5 1/2 Whip Plug			3Y	N/C		N/C
04	1	01-59329-01	Baker 5 1/2 Shut Off Plug			3Y	N/C		N/C
05	1	102-01-3201	Baker 5 1/2 Cement Guide Shoe			00	119.00		119.00
06	1	161-04-3201	Baker 5 1/2 Model "D" Electric Collar			00	413.00		413.00
07	7	214-64-3201	Baker 5 1/2 Weldlok Centralizer			00	49.00		343.00
08	38	210-29-0002	Baker 5' Sections Rotating Turbobondar			00	32.00		1216.00
09	1	231-03-3201	Baker 5 1/2 Metal Safety Basket			00	135.00		135.00
11	0	218-02-3201	Baker 5 1/2 Model "B" Hinged Hammer Lok STOP Ring			00	16.00		0.00
12	2	199-50-0000	Sos Kit Bakerlok			00	20.00		40.00
13	1	00-0000-W1	Baker Service Charge			W1	33.00		N/C
14	30	00-0000-WF	Baker Car Mileage			WF	.95		28.50
15	1	200-91-3201	Baker Model "D" Head Rental			WF	75.00		75.00

DO NOT PAY FROM THIS COPY
YOU WILL BE INVOICED

2

Thank You!
"Boomer"
REPRESENTATIVE
CUSTOMER'S COPY

I certify that the above materials or services have been received on the terms and conditions set forth on the reverse side hereof, which the undersigned has read and understood, that the basis for charges is correctly stated and that I am authorized to sign this memorandum as agent of owner or contractor.

AGENT OF OWNER OR CONTRACTOR: *Bull Dandy* (NAME IN FULL)

CHECKED BY: *5536* CODED BY: *5536*

TOTAL \square 5355 50

CHARGES ARE SUBJECT TO CORRECTION BY OUR INVOICING DEPARTMENT IN ACCORDANCE WITH LATEST PRICE SCHEDULES AND THE ADDITION OF APPLICABLE