

ORIGINAL

SIDE ONE

10/23/90
RELEASED

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

Operator: License # 6039
Name: L. D. Drilling, Inc.
Address R.R. 1 Box 183 B
City/State/Zip Great BEnd, Kansas 67530
Purchaser: Koch Oil Company
Operator Contact Person: L. D. Davis
Phone (316) 793-3051

Contractor: Name: L. D. Drilling, Inc.
License: 6039
Wellsite Geologist: Kim Shoemaker

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp. Abd.
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)

If ~~OWO~~: old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____

Drilling Method:
 Mud Rotary Air Rotary Cable
10-4-89 10-10-89
Spud Date Date Reached TD Completion Date

API NO. 15- 185-22,612-0000 1111 1 4 1991
County STAFFORD
SW NW NW Sec. 27 Twp. 21S Rge. 12 XX West

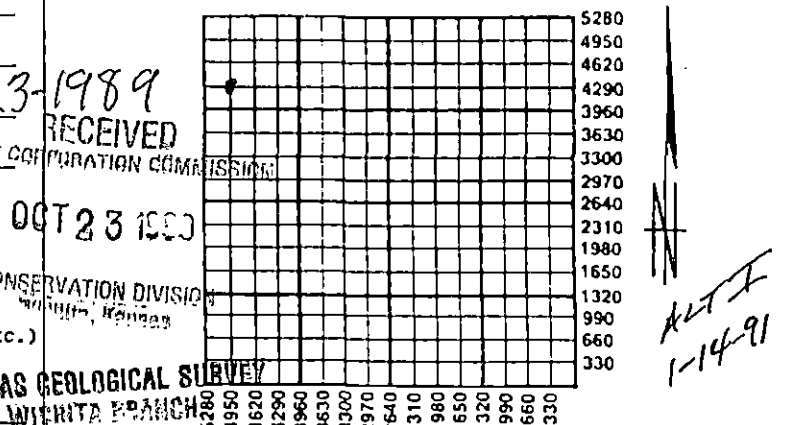
4290 Ft. North from Southeast Corner of Section
4950 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Lease Name Shumway "A" Well # 5
Field Name SYMS SE

Producing Formation Arbuckle

Elevation: Ground 1844 KB 1849

Total Depth 3590 PBDT _____



Amount of Surface Pipe Set and Cemented at 307' Feet

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.

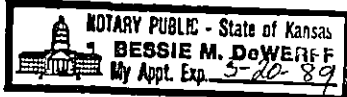
INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers time log shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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

Signature L. D. Davis
Title President Date 10-18-89

Subscribed and sworn to before me this 18th day of October, 19 89.
Notary Public Bessie M. DeWerff
Date Commission Expires 5-20-93

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



21

SIDE TWO

Operator Name L. D. Drilling, Inc. Lease Name SHUMWAY "A" Well # 5
County STAFFORD **RELEASED**
Sec. 27 Twp. 21S Rge. 12 East West

JAN 14 1991

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.)

* SEE ATTACHED

Formation Description		
Name	Top	Bottom
Anhy	636	660
Heebner	3110	(-1261)
B. Lime	3245	(-1396)
L K/C	3257	(-1408)
Viola	3493	(-1644)
Simp. Sh.	3519	(-1670)
Arb.	3575	(-1726)
R.T.D.	3590	(-1741)

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#	307'	60/40 Poz	175	2% Gel, 3% CC
Production	7 7/8"	5 1/2"	14#	3580'	40/60 Poz	175	20 bbl salt flush 3/4 CFR-3

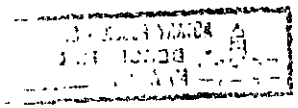
PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
2 spf	3579 1/2 to 3589 1/2	750 gal MOD 303	

TUBING RECORD Size 2 7/8" Set At 3587' Packer At _____ Liner Run Yes No

Date of First Production _____ Producing Method Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	25		trace		

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



Attachment to ACO-1

Shumway " A " #5
SW NW NW Sec. 27-21S-12W
Stafford County, Ks.

ORIGINAL

DST #1 3282-3335

Times: 45-45-45-45

Blow: 1st open: off bb in 32 min.
2nd open: off bb immediately

Recovery: 530' gip, 40' HO&GCM 30% oil

IFP: 12-12 FFP: 18-18

ISIP: 622 FSIP: 539 Temp 102 HP 1602

DST #2 3369-3390

Times: 20-20

Blow: 1st open: very weak blow throught out

Recovery: 10' DM Temp 106 HP 1617

DST # 3 3516-3580

Times: 15-15

Blow: Weak blow died in 13 min.

Recovery: 5' Mud

IFP: 20-20

ISIP: 121 HP 1797

DST #4 3578-3590

Times: 45-45-45-45

Blow: 1st open: off bb in 1 min.

2nd open: off bb in 6 min. dec. to 6" by end of open

REcovery: 2400' gip, 550' cgo 38° gravity

IFP: 70-123 FFP: 163-194

ISIP: 724 FSIP: 604 Temp 111 HP 1797

RELEASED

JUN 14 1991

FROM CONFIDENTIAL

RECEIVED
STATE CORPORATION COMMISSION

OCT 23 1990

CONSERVATION DIVISION
Wichita, Kansas

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

OCT 23 1990

ORIGINAL

15-185-22612-0000

COMPANY L.D. DNg INC.

FARM Shumway "A" WELL NO. 5

SEC 27 TWP 01 RGE 12 LOC.

COUNTY Stafford STATE Ks.

CONTRACTOR Co. Tools

SIZE HOLE 7 7/8 DRILL PIPE 4 1/2 X-14

REMARKS: 1' DNg Time 3000-PTD
10' wet & Dry Samples 3000-PTD
Call Kim Shoemaker @ 3000

SIZE PUMP LINERS 6" LENGTH STROKE 14"

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3000	10	2	
01	12	2	
	14	2	
	16	2	
	18	2	
05	21	3	
	23	2	
	26	3	
	29	3	
	33	4	
3010	35	2	
	05	3	
	11	3	
	15	4	
	18	3	
15	20	2	
	22	2	
	24	2	
	25	1	
	27	2	
3020	31	2	
	34	1	
	35	1	
	36	1	
	37	1	
25	38	1	
	40	2	
	41	1	
	42	1	
	44	2	
3030	45	1	
	46	1	
	52	1	
	55	1	
	56	1	
35	57	1	
	59	2	
	10:01	2	
	3	2	
	4	1	
3040	6	2	
	7	1	
	10:08	1	
	12	1	
	16	3	
45	17	3	
	22	3	
	24	2	
	27	3	
	30	3	
3050	32	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3050	32	4	KCC
51	36	4	
	39	3	
	42	3	JAN 14 1991
	45	3	
55	46	1	RELEASED
	47	1	
	50	3	JAN 14 1991
	53	3	
	57	4	FROM CONFIDENTIAL
3060	59	2	
	11:01	2	
	03	2	
	06	3	
	10	4	
65	14	4	
	17	3	
	21	4	
	25	4	
	27	2	
3070	31	4	25'is 8' out.
	33	2	
	35	2	
	38	3	CONN RIG & GREEN
	11:45	2	
75	52	2	
	54	2	
	56 1/2	2 1/2	
	58	1 1/2	
	12:00	2	
3080	01	1	
	03	2	
	05	2	
	07	2	
	10	3	
85	12	2	
	14	2	
	15 1/2	1 1/2	
	17	1 1/2	
	19	2	
3090	20 1/2	1 1/2	
	22	1 1/2	
	25	3	
	26 1/2	1 1/2	
	28	1 1/2	
	30	2	
	32	2	
	35	3	
	37	2	
	39	2	
3100	42	3	

RECEIVED
STATE CORPORATION COMMISSION

OCT 23 1989

CONSERVATION DIVISION
Wichita, Kansas

OCT 23 1988

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

COMPANY

FARM ORIGINAL
COUNTY

WELL NO.

SEC. TWP. RGE. LOC.

COUNTY

STATE

CONTRACTOR

SIZE HOLE

DRILL PIPE

REMARKS:

SIZE PUMP LINERS

LENGTH STROKE

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3100	12:42		
01	44	2	
	46	2	
	48	2	
	51	3	
05	52	1	CONN.
	12:57	2	
	59	2	
11	01 1/2	2 1/2	
	04	2 1/2	
	06 1/2	2 1/2	
3110	09	2 1/2	
	10	1	3110-14 Heb -1261 +5' High to #1
	11	1	
	12	1	
	13	1	
15	16	3	
	18	2	
	21	3	
	23	2	
	25	2	
3120	27	2	
	29	2	
	31	2	
	33	2	
	35	2	
25	37	2	
	39	2	
	41	2	
	43	2	
	45	2	
3130	48	3	
	50	2	
	53	3	
	55	2	
	56	1	
35	57 1/2	1 1/2	
	59	1 1/2	CONN.
	9:03	2	
	05	2	
	07	2	
	09	2	
3140	11	2	
	13	2	
	15	2	
	17	2	
	19	2	
45	21	2	
	23	2	
	25	2	
	27	2	
	29	2	
3150	30	1	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3150	30	1	
51	32	1	
	34	2	
	35	1	
	36	1	
55	38	2	
	40	2	
	41	1	
	43	2	
	45	2	
3160	46	1	
	48	2	
	50	2	
	51	1	
	53	1	
65	54	1	
	56	2	
	58	2	
	3:00	2	CONN.
	3:05	1	
	06	1	
3170	07 1/2	1 1/2	
	09	1 1/2	
	10 1/2	1 1/2	
	12	1 1/2	
	13	1	
75	15	2	
	16	1	
	17	1	
	18	1	
	19	1	
3180	20	1	
	21 1/2	1 1/2	
	23	1 1/2	
	24	1	
	25	1	
85	26	1	
	27	1	
	29	2	
	30	1	
	31	1	
3190	33	2	
	34	1	
	35	1	
	37	2	
	38	1	
95	40	2	
	41	1	
	42	1	
	43	1	CONN.
	3:48	1	
	49	1	
3200	50	1	

COMPANY _____ FARM _____ WELL NO. _____
 SEC. TWP. RGE. LOC. ORIGINAL COUNTY STATE _____
 CONTRACTOR _____ SIZE HOLE _____ DRILL PIPE _____
 REMARKS: _____ SIZE PUMP LINERS _____ LENGTH STROKE _____

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3000	3:50		
01	51 $\frac{1}{2}$	1 $\frac{1}{2}$	
	53	1 $\frac{1}{2}$	
	54	1	
	55	1	
05	56	1	
	57	1	
	58	1	
	59	1	
	4:00	1	
3210	02	2	
	03	1	
	04	1	
	05 $\frac{1}{2}$	1 $\frac{1}{2}$	
	07	1 $\frac{1}{2}$	
15	08	1	
	09	1	
	10 $\frac{1}{2}$	1 $\frac{1}{2}$	
	12	1 $\frac{1}{2}$	
	12	1	
3220	14 $\frac{1}{2}$	1 $\frac{1}{2}$	
	16	1 $\frac{1}{2}$	
	17	1	
	18	1	
	20	2	
25	21	1	
	22	1	
	23	1	
	24 $\frac{1}{2}$	1 $\frac{1}{2}$	
	26	1 $\frac{1}{2}$	CONN.
3230	4:39	31	
	32	1	
	33	1	
	34 $\frac{1}{2}$	1 $\frac{1}{2}$	36wt. 82wt
	36	1 $\frac{1}{2}$	
35	37	1	
	38	1	
	39	1	
	40	1	
	41	1	
3240	42	1	
	43	1	
	45	2	
	46	1	
	47	1	
45	48	1	
	50	2	
	52	2	
	54	2	
	57	3	
3250	59	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3000	4:59		
51	01	2	
	03	2	
	05	2	
	07	2	
55	10	3	
	12	2	
	15	3	
	17	2	
	20	3	
3260	22	2	CONN.
	5:06 24	3	
	31	2	
	33	2	
	35	2	
65	37	2	
	39	2	
	41	2	
	43	2	
	45	2	
3270	48	3	
	51	3	
	53	2	
	56	3	
	58	2	
75	6:00	2	
	02	2	
	04	2	
	07	3	
	09	2	
3280	11	2	
	13	2	
	16	3	Pecker
	19	3	
	21	2	
85	23	2	
	26	3	
	28	3	
	31	3	
3290	37	3	
	39	2	
	42	3	CONN.
	6:46 48	2	
	50	2	
95	57 $\frac{1}{2}$	1 $\frac{1}{2}$	
	53	1 $\frac{1}{2}$	
	55	2	
	57	2	
	59	2	
3300	7:01	2	

COMPANY

FARM

ORIGINAL

WELL NO.

SEC. TWP. RGE. LOC.

COUNTY

STATE

CONTRACTOR

SIZE HOLE

DRILL PIPE

REMARKS:

SIZE PUMP LINERS

LENGTH STROKE

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3300	7:01		
01	03	2	
	05	2	
	07	2	
	09	2	
05	13	3	
	14	2	
	17	3	
	20	3	
	23	3	
3310	25	2	
	27	2	38 min. 2" out 12" L.
	30	3	10" FH 10000 CH.
	32	2	
	33 1/2	1 1/2	
15	36	2 1/2	
	38	2	
	40	2	
	42	2	
	44	2	
3320	46	2	
	48	2	
	51	3	CONN. RIG & SCREEN
	52 1/2		
	05	2	
	07	2	RD RPL PREMIX
25	08 1/2	1 1/2	w/Dr Pro Collig
	10	1 1/2	in System
	12	2	
	14	2	
	16	2	
3330	17	1	CFS 30/60
	18:25		
	26	1	
	29	2	
	30	2	
	32	2	
35	34	7	CFS 30/60 DST #1
	6:45		
	47	2	
	49	2	
	52	3	
	54	2	
3340	55	1	
	56	1	
	58	2	
	7:00	2	
	3	3	
45	5	2	
	8	3	
	11	3	
	14	3	
	17	3	
3350	20	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3300	1:20		
51	22	2	
	25	3	CONN.
	30		
	32	2	
	35	3	48 vis 8" w/ 10 1/2" W
05	38	3	
	40	2	
	43	3	
	46	3	
	48	2	
3360	52	4	
	55	3	
	58	3	
	8:01	3	
	5	4	
65	8	3	
	12	4	
	15	3	
	18	3	
	22	4	-PULL
3370	25	3	
	28	3	
	32	4	
	35	3	
	39	4	
25	43	4	
	48	5	
	53	5	
	57	4	
	59	2	
3380	9:02	3	
	5	3	
	6	1	
	7	1	CONN
	13/15	2	
85	17	2	
	20	3	
	22	2	
	24	2	
	27	3	
3390	29	2	CFS 30/60
	41:45		
	47	2	DST #2 3369-3390
	50	3	
	52	2	
	54	2	
95	57	3	
	59	2	
	5:01	2	
	03	2	
	05	2	
3400	07	2	

ORIGINAL

COMPANY	FARM	WELL NO.	
SEC. TWP. RGE. LOC.	COUNTY	STATE	
CONTRACTOR	SIZE HOLE	DRILL PIPE	
REMARKS:	SIZE PUMP LINERS	LENGTH STROKE	

DATE	DEPTH	TIME O'CLOCK	MIN.	REMARKS
	3400	5:07		
	01	10	3	
		12	2	
		15	3	
		18	3	
	05	21	3	
		24	3	Rough
		27	3	
		29	2	
		32	3	
	3410	34	2	
		37	3	
		39	2	
		41	2	new grease pump
		5:46	2	
	15	57	3	
		53	2	
		55	2	
		57	2	
		58 1/2	1 1/2	47 vis. 8 wt. 13 ml
	3420	6:01	2 1/2	12000 pl.
		03	2	
		05	2	
		07	2	
		09	2	
	25	12	3	
		14	2	
		17	3	
		19	2	
		22	3	
	3430	24	2	
		27	3	
		29	2	
		32	3	
		35	3	
	35	38	3	
		41	3	
		44	3	
		46	2	
		48	2	
	3440	51	3	
		53	2	
		55	2	
		57	2	
		7:00	2	CONN.
	45	10 1/3	3	
		15	3	45 vis 8 wt 12 ml
		18	3	13000 after 10 PM
		20	3	
		22	2	
	3450	25	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS	
	3450	25	28	3
	51	31	3	
		34	3	
		37	3	
	55	40	3	
		34	3 1/2	
		7	3 1/2	
		50	3	
		3	3	
	3460	6	3	
		59	3	
		8:00	3	
		5	2	
		8	3	
	65	11	3	
		4	3	
		17	3	
		20	3	
		3	3	
	3470	7	4	
		30	3	
		2	2	
		4	2	
		37	3	
	75	40	3	
		2:45	3	
		7 1/2	2 1/2	
		50	2 1/2	
		2 1/2	2 1/2	
	3480	5	2 1/2	
		8	3	
		9:01	3	
		3	2	
		6	3	
	85	8	2	
		9 1/2	1 1/2	
		11	1 1/2	
		3	2	
		15	2	
	3490	7	7	
		20	3	
		24	2 1/2	
		5	2 1/2	
		7	2	
	95	9	2	
		31	2	
		3	2	
		5	2	
		6 1/2	1 1/2	
	3500	38	1 1/2	

HALLIBURTON SERVICES

Duncan, Oklahoma 73536

A Division of Halliburton Company

TICKET

NO. 851223-X

ORIGINAL

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME 5 Sherman	COUNTY Stafford	STATE KS	CITY / OFFSHORE LOCATION	DATE 10-10-89
CHARGE TO L/D Data Inc	OWNER Same	TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>		NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS Rt 1 Box 183B	CONTRACTOR C Tools	LOCATION 1 (618000)		CODE 50320
CITY, STATE, ZIP Gardner KS 67530	SHIPPED VIA 2524	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT		LOCATION 2
WELL TYPE Oil	WELL CATEGORY Oil Well	WELL PERMIT NO. B- 866441	DELIVERED TO Well site	LOCATION 3
TYPE AND PURPOSE OF JOB 035 5/8 Prod 3540'			ORDER NO.	REFERRAL LOCATION

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

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

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
					QTY	MEAS	QTY	MEAS			
600-117		1		MILEAGE	15	MI			220		3300
001-016		1		Pump Charge	3580	FT			1000		170100
030-016A		1		Pipe SW	1	CA	5 1/2	IN	70		3500
40	807 93022	1	1506078	Centralizers	3	CA	5 1/2	IN	4400		13200
124	825205	1		Guide Shoe	1	CA	"	"	40		10400
24A	81519251	1		Tussock Float	1	CA	"	"	830		8300
27	81519311	1	1540681	Auto Fill	1	CA	"	"	3000		3000
RECEIVED											
STATE CORPORATION COMMISSION											
OCT 23 1989											
CONSERVATION DIVISION											
Topeka, Kansas											
FROM: CONFIDENTIAL											

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. B- 866441 106837

WAS JOB SATISFACTORILY COMPLETED? _____	WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.
WAS OPERATION OF EQUIPMENT SATISFACTORY? _____	
WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____	
X 1. _____	
CUSTOMER OR HIS AGENT (PLEASE PRINT)	HALLIBURTON OPERATOR
X _____	HALLIBURTON APPROVAL
CUSTOMER OR HIS AGENT (SIGNATURE)	FIELD OFFICE

SUB TOTAL 24173.71

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

DISTRICT Great Bend

DATE 10-10-89

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: L.D. Drilling Inc. (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. #5 LEASE Shurway SEC. 27 TWP. 21 RANGE 12

FIELD _____ COUNTY Suffolk STATE Ks OWNED BY _____

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____
 FORMATION THICKNESS _____ FROM _____ TO _____
 PACKER: TYPE _____ SET AT _____
 TOTAL DEPTH _____ MUD WEIGHT _____
 BORE HOLE _____
 INITIAL PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF
 PRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	<u>U</u>		<u>5 1/2</u>	<u>0</u>	<u>3580</u>	
LINER						
TUBING	<u>RELEASED</u>					
OPEN HOLE			<u>7 7/8</u>	<u>3580</u>	<u>3580</u>	SHOTS/FT.
PERFORATIONS		<u>14 INCH</u>				
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____
Set 3580 ft of 5 1/2" 14" casing with 125 sks. of 40-60 ppmix 18% salt, 5% CER-3
400 lbs. salt for 20 gal pre flush

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

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

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

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

RECEIVED
 STATE CORPORATION COMMISSION

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

OCT 23 1989

SIGNED _____ CUSTOMER

DATE 10-10-89

TIME 4:45 A.M. MMT

WELL DATA

FIELD: _____ SEC. 27 TWP. 21 RNG. 12 COUNTY Stafford 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		5 1/2	-0-	3580	
LINER						
TUBING						
OPEN HOLE			7 7/8	3580	3590	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>10-10-89</u>	DATE <u>10-10-89</u>	DATE <u>10-10-89</u>	DATE <u>10-10-89</u>
TIME <u>1100</u>	TIME <u>1200</u>	TIME <u>1537</u>	TIME <u>1650</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>S. Guesnier</u>	<u>Twin</u>	
<u>J. McDuff</u>	<u>2924</u>	<u>Great Bend</u>
<u>D. Ramsberg</u>	<u>201K</u>	<u>"</u>
	<u>1104-8206</u>	

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
<u>Insert Float</u>	<u>1</u>	<u>Howco</u>
<u>Auto Pickup</u>	<u>1</u>	<u>Howco</u>
<u>Guide Shoe</u>	<u>1</u>	<u>Howco</u>
<u>Centralizers</u>	<u>3</u>	<u>Howco</u>
<u>Bottom Plug</u>		
<u>Top Plug</u>	<u>1</u>	<u>Howco</u>
<u>Head & Manifold</u>	<u>1</u>	<u>Howco</u>
<u>Packer</u>		
<u>Other</u>		

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API _____

DISPL. FLUID _____ DENISTY _____ 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 _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT Cement

DESCRIPTION OF JOB Production String

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X Larry J. Davis

HALLIBURTON OPERATOR J.K. McDuff COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>125</u>	<u>70-60</u>	<u>Poc</u>	<u>B</u>	<u>18% Salt .5% CFR-3</u>	<u>1.31</u>	<u>1452</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRES LUSH 20 GAL _____ TYPE Salt

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL _____ DISPL: 8744 BBL-GAL

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY: 27.10 BBL-GAL

HYDRAULIC HORSEPOWER _____ STATE _____ TOTAL VOLUME: 181 BBL-GAL

ORDERED _____ AVAILABLE _____ USED _____ AVERAGE RATES IN BPM _____

TREATING _____ DISPL _____ OVERALL _____ CEMENT LEFT IN PIPE _____

REASON Insert

REMARKS 400 lbs. Salt for pre flush

CUSTOMER: L.D. Drilling & Inc. LEASE: Shawnee WELL NO: 45 JOB TYPE: Production String DATE: 10-10-89

FROM CONFIDENTIAL

CONSERVATION DIVISION Wichita, Kansas

WELL NO. LEASE SHUMWAY TICKET NO. 851225
 CUSTOMER L.D. DPLG Fnd PAGE NO.
 JOB TYPE SH PROD DATE

2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1030							Called Out
	1215							ON HOWCO ORIGINAL
								RAW Centralizers @ 13.5 Collars
								Hook up to CURE CSG.
								Hook up to HOWCO
	1537	7				500		PUMP JOBB'S SALT FLUSH
	1542	7	27			600		1114 115SKS 40/60 H ₂ O
	1548							SHUT DOWN CLEARINGS
	1548							RELEASE PLUG
	1549	0	-					START DISO
	1557	5	64			600		SLOW RATE TO KEEP PRES. DOWN
	1602	5	88			1000		PLUG LAUNCHED
								PRES fell off INSTANTLY.
	1608							DECIDED TO CLOSE IN w/o
	1608							RELEASING
								CLOSED IN w/ 150 PST ON
								CSG.
								RUN WIRELINE ON 10-11-89
								SAVE 10 SKS FOR PATHOLE
								RELEASED
								JOB COMPLETE
								THANK YOU
								JAMIE 74221
								SHAC 179501
								DENNIS B 2824
								RECEIVED
								STATE CORPORATION COMMISSION
								OCT 23 1989
								REGISTRATION DIVISION
								11th Floor, Kansas

FIELD OFFICE