

ORIGINAL

SIDE ONE

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

Operator: License # 6039  
Name: L.D. Drilling, Inc.  
Address R.R. 1, Box 183 B  
City/State/Zip Great Bend, KS 67530

Purchaser: \_\_\_\_\_  
Operator Contact Person: L.D. Davis  
Phone ( 316 ) 793-3051

Contractor: Name: VAL Energy, Inc.  
License: 5822

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 OWMO: old well info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

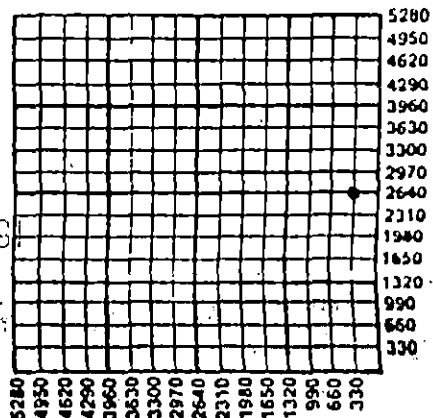
Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
12-1-90 12-6-90 12-10-90  
Spud Date Date Reached TD Completion Date

API NO. 15- 009-24450-0000  
County Barton  
E2 E2 E2 12 20 12 East  
Sec. Twp. Rge.  West

2640 Ft. North from Southeast Corner of Section  
330 Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

Lease Name Schartz Well # 2  
Field Name Chase Silice

Producing Formation Arbuckle  
Elevation: Ground 1785 KB 1790  
Total Depth 3329 PBTD \_\_\_\_\_



FEB 12 1991

Amount of Surface Pipe Set and Cemented at 332 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 2-8-91

Subscribed and sworn to before me this 8th day of February,  
19 91.  
Notary Public Bessie M. DeWerff  
Bessie M. DeWerff  
Date Commission Expires 5-20-93

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

NOTARY PUBLIC - State of Kansas  
BESSIE M. DeWerff  
My Appt. Exp. 5-20-93

SIDE TWO

Operator Name L.D. Drilling, Inc. Lease Name Schartz Well # 2

Sec. 12 Twp. 20 Rge. 12  East  West  
 County Barton

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.)

Name	Formation Description	
	Top	Bottom
Anhy.	556	564 (+1234)
Heeb.	2943	(-1153)
Toronto	2959	(-1169)
Douglas	2975	(-1185)
Brn. Lime	3065	(-1275)
L. K/C	3083	(-1293)
Base K/C	3296	(-1506)
Arbuckle	3322	(-1532)
RTD	3322	(-1539)

DST #1 3304-3329 Times: 45-45-45-45  
 Blow: 1st open: off bb in 5 min  
 2nd open: off bb in 10 min  
 IFP: 80-190 OFP: 280-330  
 ISIP: ~~130~~ FSIP: 1010  
 1030

560 SMCO - 40 O.K.G.C.M.

250 FT Gas in pipe - 800 CGO. 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	332	60-40 Poz	215	2% Ge/3% C.C.
Production	7 7/8	5 1/2	14	3324	60-40 Poz	125	18% Salt .75% Halad 322 5# Gilsonite per

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth

TUBING RECORD Size 2 7/8" Set At 3321' 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
	40		10		

Disposition of Gas:  Vented  Sold  Used on Lease (if vented, submit ACO-18.)

METHOD OF COMPLETION:  Open Hole  Perforation  Dually Completed  Commingled  Other (Specify) \_\_\_\_\_

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

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

2800-2900

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2800</del> 01	<del>42<sup>5</sup></del> 44	1 1/2	
	45 <sup>3</sup>	1 1/2	conn
	50/52	2	
	54	2	
	57	3	
	59	2	
	9:01	2	
	03 <sup>5</sup>	2 1/2	
	05 <sup>3</sup>	2	
10	08	2 1/2	
	10 <sup>5</sup>	2 1/2	
	13	2 1/2	
	16	3	Uis 4.7
	20	4	WT 9.0
	24	4	WL 8.0
	27	3	DH 10.0
	29	2	
	33	4	
	35	2	
20	37	3	
	40	3	
	42	2	
	44	2	
	46	2	
	49	3	
	52	3	
	55	3	
	57	2	
	59	2	
30	10:02	3	
	05	3	
	07	2	
	10	3	
	12	2	conn
	<del>10:19</del> 21	2	
	23	2	
	25 <sup>3</sup>	2 1/2	
	27	1 1/2	
	29	2	
40	31	2	
	33	2	
	35 <sup>3</sup>	2 1/2	
	38 <sup>5</sup>	3	
	41 <sup>3</sup>	3	
	44	2 1/2	
	47	3	
	49 <sup>3</sup>	2 1/2	
	52	2 1/2	
	55	3	
	58	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>2850</del> 51	<del>58</del> 1:00	2	
	02	2	
	05 <sup>3</sup>	1 1/2	
	06	2 1/2	
	09	3	
	11	2	
	14	3	
	17	3	
	20	3	
60	21	1	
	22	1	
	23	1	
	25	2	
	27	2	
	30	3	conn
	<del>35</del> 38	3	
	40	2	
	42	2	
	44	2	
70	46	2	
	48	2	
	51	3	
	53	2	
	56	3	FEB 12 1991
	58	2	
	12:00	2	
	04	4	
	06	2	
	10	4	
80	13	3	
	16	3	
	19	3	
	22	3	
	25	3	
	27	2	
	29	2	
	30	3	
	32	2	
	35	3	
90	38	3	
	42	4	
	45	3	
	48	3	
	50	2	
	51	1	
	52	1	
	53	1	conn
	<del>10:09</del> 09	2	
	11	2	
2900	14	3	

# ORIGINAL

15.009.24450.0000

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

DATE 2900-3000

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2900	11		
01	16	2	
	18	2 1/2	
	20	1 1/2	
	22	2	
	24	2 1/2	
	26	1 1/2	
	28	2	
	31	3	
	35	4	
10	37	2	
	40	3	
	43	3	
	46	3	
	49	3	
	53	4	Vis 44
	56	3	WT 9.2
	58	2	WL 10
	02	4	PH 10
	5	3	
20	7	2	
	11	4	
	13	2	
	15	2	
	19	4	
	21	2	
	24	3	
	26	2	
	28	2	
	31	2	
30	37	2	
	42	3	
	45	3	
	47	2	
	50	3	
	52	2	
	55	3	
	57	2	
	300	3	
	02	2	
40	5	3	
	9	1	
	12	3	
	15	3	
	16	1	
	17	1	
	18	1	
	19	1	
	22	3	
	25	3	
	27	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
2950	27		
51	30	3	
	31	1	
	33	2	
	35	2	
	37	2	
	39	2	
	42	3	
	45	3	
	47	2	CONN
60	40	3	
	6	3	
	8	2	
	10	2	
	12	2	
	15	3	
	17	2	
	19	2	Vis 40
	21	3	WT 9.2
	24	3	WL 10
70	26	2	PH 10
	28	2	
	30	2	
	32	2	
	35	3	
	38	3	
	40	2	
	42	2	
	45	3	
	48	3	
80	50	2	
	52	2	
	54	2	
	56	2	
	59	3	
	1	?	
	3	2	
	6	3	
	8	2	
	11	3	
90	13	2	CONN
	14	20	2
	21	1	
	23	2	
	25	2	
	26	1	
	28	2	
	30	2	
	32	2	
	34	2	
3000	36	2	

# ORIGINAL

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

DATE 3000-3100

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3000	36	2	
01	38	2	
	40	2	
	42	2	
	44	2	
	45	1	
	47	2	
	49	2	
	51	2	
	53	2	
10	55	2	
	57	2	
	58	1	
	59	1	
	600	1	
	7	1	
	3	2	
	4	1	
	6	2	
	8	2	
20	10	2	
	12	2	
	14	2	CONN
	20/21	1	
	22	1	
	24	2	
	25	1	
	26	1	
	27	1	
	28	1	
30	29	1	
	31	2	
	32	1	
	34	2	
	35	1	
	36	1	
	37	1	
	38	1	
	40	2	
	41	1	
40	42	1	
	44	2	
	46	2	
	47	1	
	49	2	
	50	1	
	52	2	
	53	1	
	54	1	
	55	1	
50	56	1	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3050	56	1	
51	57	1	
	58	1	CONN
	6/7	1	
	8	1	
	9	1	
	10	1	
	11	1	
	12	1	
	13	1	
60	14	1	
	16	2	
	17	1	
	18	1	Vis 41
	19	1	WT 9.3
	21	2	WL 12.
	25	4	
	29	4	
	32	3	
	34	2	
70	38	4	
	42	4	
	45	3	
	48	3	
	51	3	
	53	2	
	57	4	
	59	2	
	2	3	
	5	3	
80	9	3	
	10	2	
	12	2	
	14	2	CONN
	20/23	3	
	25	2	
	27	2	
	29	2	
	31	2	
	33	2	
90	36	3	
	39	3	
	42	3	
	46	4	
	48	2	
	52	4	
	54	2	
	57	3	
	61	4	
	4	3	
3100	7	3	

ORIGINAL

COMPANY L.D. Drilling Inc FARM SCHARTZ WELL NO. #2  
 SEC. TWP. RGE. LOC. COUNTY BARTON STATE Ks  
 CONTRACTOR VAL Energy SIZE HOLE 9 7/8 DRILL PIPE 4 1/2 XH  
 REMARKS: SIZE PUMP LINERS LENGTH STROKE

DATE 3100-3200

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3100	01	7:10	3
		13	3
		16	3
		18	2
		19	1
		23	4
		26	3
		29	3
		32	3
10		35	3
		38	3
		40	2
		42	2
		44	2
		46	2
		50	52 2
		55	3
		59	4
		02	3
20		4	2
		8	4
		12	4
		15	3
		17	2
		19	2
		21	2
		23	2
		25	2
		28	3
30		30	2
		32	2
		36	4
		39	3
		42	3
		46	4
		49	3
		52	3
		55	3
		58	3
40		11:00	2
		03	3
		06	3
		09	3
		12	3
		15	3
		18	3
		23	3
		29	4
		32	3
		35	3
		38	3

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3150	51	11:30	3
		45	3
		48	3
		52	4
		55	3
		59	4
		12:01	2
		03	2
		05	2
60		07	2
		10	3
		13	3
		17	4
		20	3
		23	3
		26	3
		29	3
		33	4
		37	4
70		40	3
		43	3
		46	3
		49	3
		52	3
		55	3
		59	4
		11:02	3
		06	4
		10	4
		13	3
		17	4
		21	4
		24	3
80		28	3
		31	3
		35	4
		39	4
		43	4
		47	4
		50	3
		54	4
		58	4
		3:02	4
3200		05	3

CONN

4100  
CFS 30/60

Conn

VIS 45

CONN

ORIGINAL

15.009.24450.0000

COMPANY L.D. Drilling FARM SCHWARTZ WELL NO. #2  
 SEC. TWP. RGE. LOC. COUNTY BARTON STATE KS  
 CONTRACTOR VAL Energy SIZE HOLE 7 7/8 DRILL PIPE 4 1/2 x 14  
 REMARKS: SIZE PUMP LINERS LENGTH STROKE

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3200</del>	<del>3:05</del>		
	09	4	
	12	3	
	16	4	
	20	4	
5	23	3	
	26	3	Conn
	<del>3:35</del>	3	VIS 45
	<del>3:38</del>	3	
	40	4	W.T 9.5
	44	4	W.L 11.6
10	46	2	
	48	2	
	53	5	
	56	3	
	59	3	
15	7:01	2	
	04	3	
	07	4	
	10	3	
	12	2	
20	14	2	
	16	2	
	20	4	
	24	4	
	27	3	
25	30	3	
	33	3	
	36	3	
	40	4	
	44	4	
30	48	4	
	51	3	
	55	4	
	58	3	
	5:01	3	
35	07	3	
	08	4	
	10	3	Conn
	<del>5:16</del>	4	VIS 42
	<del>5:22</del>	4	
	26	4	W.T 9.1
40	31	5	W.L 10.4
	36	5	
	41	5	
	45	4	
	50	5	
45	<del>5:59</del>	6	Fill Perm
	11	6	
	21	10	Air Pump
	<del>5:50</del>	5	
	39	4	
50	42	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3250</del>	<del>6:42</del>		
	45	3	
	49	4	
	53	4	
	57	4	
55	7:01	4	
	05	4	
	09	4	
	12	3	
	15	3	
60	17	2	
	20	3	
	24	4	
	29	5	
	33	3	
65	36	4	
	40	4	
	43	3	
	47	4	Conn
	<del>8:00</del>	4	
70	08	4	
	11	3	
	15	4	
	19	4	
	22	3	
75	25	3	
	28	3	
	31	3	
	35	4	
	38	3	
80	43	5	
	47	3	
	50	3	
	54	4	
	58	4	
85	9:01	3	
	04	3	
	07	3	
	11	4	
	14	3	
90	17	3	
	20	3	
	23	3	
	26	3	
	29	3	
95	32	3	
	36	4	
	39	3	
	42	3	
	<del>48</del>	3	
	51	3	
3250	54	3	





15.009.24450.0000

Phone 913-483-2627, Russell, Kansas  
 Phone 316-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812  
 Phone Ness City 913-798-3843

ORIGINAL

**ALLIED CEMENTING CO., INC.** No 6047

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	12-1-90	Sec.	12	Twp.	20	Range	12	Called Out	3:45 PM	On Location	5:00 PM	Job Start	9:15 PM	Finish	9:45 PM	
Lease	SCHWARTZ	Well No.	# 2	Location				Ellinwood 1/2 S. W. side	County	Barton	State	KS				
Contractor	Val Drilling Rig #1															
Type Job	Surface															
Hole Size	12"	T.D.	336 FT													
Csg. 2 7/8"	8 5/8"	Depth	331 FT													
Tbg. Size		Depth														
Drill Pipe		Depth														
Tool		Depth														
Cement Left in Csg.	15 FT	Shoe Joint														
Press Max.		Minimum														
Meas Line	316 FT	Displace	19.7 bbl													
Perf.																

Owner L. D. Drilling  
 To Allied Cementing Co., Inc.  
 You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.

Charge To L. D. Drilling Inc.  
 Street RR 1 Box 183 B  
 City Great Bend State KS 67530  
 The above was done to satisfaction and supervision of owner, agent or contractor

Purchase Order No. x Dale Smith  
 Amount Ordered ~~215~~ 213  
 CEMENT Thank You 459

EQUIPMENT

Pumptrk	No. 120	Cementer	Miller
		Helper	Brad
Pumptrk	No.	Cementer	Good
		Helper	Brad
Bulktrk	68	Driver	Duck, S
Bulktrk		Driver	

Consisting of			
Common	129	51.25	677.25
Poz. Mix	86	2.25	193.50
Gel.	4	6.75	NIC
Chloride	6	21.00	126.00
Quickset			
Handling	215	1.00	215.00
Mileage	11		94.60
		Sub Total	
		Total	1306.35

DEPTH of Job	331 FT
Reference:	Pump truck charge 380.00
	11 milage charge 22.00
	1 wooden plug 42.00
	31' at 39 Tax 12.09
	Total 456.09

Remarks: Cement did circulate  
 Mark You 459

FEB 12 1991  
 Total \$ 1762.44  
 Disc - 352.49  
 \$ 1409.95

Allied Cementing Co. by Mike Munsch  
 Mike Munsch

(original Bid for 300')

HALLIBURTON SERVICES

ORIGINAL

WELL NO. / FARM OR LEASE NAME: #2 H. Scharitz  
 COUNTY: Barton STATE: KS CITY / OFFSHORE LOCATION: DATE: 12-5-90

CHARGE TO: L.D. Dalg Inc. OWNER: Same  
 ADDRESS: CONTRACTOR: Val Energy  
 CITY, STATE, ZIP: SHIPPED VIA: 51936 FREIGHT CHARGES:  PPD  COLLECT  
 WELL TYPE: O.I. WELL CATEGORY: 01 Dev 01 WELL PERMIT NO.: B-917416  
 TYPE AND PURPOSE OF JOB: Prod string 035 DELIVERED TO: Location ORDER NO.: REFERRAL LOCATION:

TICKET TYPE (CHECK ONE): SERVICE  SALES   
 LOCATION 1 16t Bend 25520  
 LOCATION 2  
 LOCATION 3

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

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

PRICE REFERENCE	SECONDARY REF OR PART NO.	L. O. C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
000-117		1		MILEAGE	10	m			23.50	235.00
000-118		1		Mileage SURCHARGE	10	m			40.00	400.00
001-016		1		Pump Charge	8	hrs	3329	ft		1095.00
030-018		1		SW Plug	1	eg	5 1/2	in		530.00
12A	825.205	1		Guide Shoe	1	eg	5 1/2	in		1040.00
24A	815.19251	1		Insert Float	1	eg	5 1/2	in		830.00
27	815.19311	1		Auto Fill p	1	eg	5 1/2	in		300.00
40	807.93022	1		Controlizers	3	eg	5 1/2	in	44.00	132.00

THIS IS AN INVOICE

NOT AN INVOICE

FEB 12 1991

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. B-917416 SUB TOTAL 1484.00

WAS JOB SATISFACTORILY COMPLETED? \_\_\_\_\_  
 WAS OPERATION OF EQUIPMENT SATISFACTORY? \_\_\_\_\_  
 WAS PERFORMANCE OF PERSONNEL SATISFACTORY? \_\_\_\_\_

X: L.D. Dalg  
 CUSTOMER OR HIS AGENT (PLEASE PRINT)

X: \_\_\_\_\_  
 CUSTOMER OR HIS AGENT (SIGNATURE)

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

*Alan Beech*  
 HALLIBURTON OPERATOR

HALLIBURTON APPROVAL \_\_\_\_\_  
 CUSTOMER

SUB TOTAL 1484.00

APPLICABLE TAXES WILL BE ADDED ON INVOICE.



15.009.24450.0000

ORIGINAL

HALLIBURTON SERVICES

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ATTACH TO INVOICE & TICKET NO. 060883

A Division of Halliburton Company

DISTRICT Pratt

DATE 12-6-90

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: L.O. Orta INC (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. #2 LEASE H. Scharitz SEC. 12 TWP. 20 RANGE 12

FIELD COUNTY Barton STATE KS OWNED BY Sam

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
FORMATION THICKNESS	FROM TO						
PACKER: TYPE	SET AT						
TOTAL DEPTH	MUD WEIGHT						
BORE HOLE							
INITIAL PROD: OIL BPD, H <sub>2</sub> O BPD, GAS BPD, MCF							
PRESENT PROD: OIL BPD, H <sub>2</sub> O BPD, GAS BPD, MCF							
CASING		NEW	14	5 1/2	KR	3324	
LINER							
TUBING							
OPEN HOLE				7 7/8	3324	3329	SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

PREVIOUS TREATMENT: DATE TYPE MATERIALS

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

Set 5 1/2" Long string with 75 sks 40/60 P22 187 Salt 752 H<sub>2</sub>O 300 506. Isom. etc  
 and 50 sks 40/60 P22 187 Salt 752 H<sub>2</sub>O 300 506. Isom. etc  
 PICFLUSA with 2000L Salt Flush  
 Total pipe 3336'

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

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

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

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

SIGNED L.O. Orta CUSTOMER

DATE 12-6-90

TIME 08:30 A.M. P.M.

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.

CUSTOMER

# JOB SUMMARY

HALLIBURTON DIVISION  
 OKLAHOMA CITY, OKLA.  
 HALLIBURTON LOCATION  
 OKLAHOMA CITY, OKLA.

15.009.24450.0000  
 BILLED ON TICKET NO. 060883

## WELL DATA

SEC 12 TWP 20 RNG 12 COUNTY Barton 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		14	5 1/2"	KB	3324	
LINER						
TUBING						
OPEN HOLE			7 7/8"	3324	3327	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

CALLED OUT DATE	ON LOCATION DATE	JOB STARTED DATE	JOB COMPLETED DATE
12-6	12-6	12-6	12-6-90
TIME 0700	TIME 0800	TIME 0930	TIME 1400

## TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE 1 1/2" 5 1/2"	1	Howe CO.
GUIDE SHOE 5 1/2"	1	
CENTRALIZERS S-4 5 1/2"	3	
BOTTOM PLUG		
TOP PLUG 5 1/2"	1	
HEAD		
PACKER		
OTHER		

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
C. Byerly 85876	51936	Barton
W. Wilson 89777	Curb	Barton
E. L. C.	0513	
D. B. C.	Bulk	

## MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL. API  
 DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL. API  
 PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
 ACID TYPE \_\_\_\_\_ GAL \_\_\_\_\_ %  
 SURFACTANT 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 \_\_\_\_\_

DEPARTMENT: Curb  
 DESCRIPTION OF JOB: 5 1/2" casing string  
 JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.   
 CUSTOMER REPRESENTATIVE: X  
 HALLIBURTON OPERATOR: Eric Byerly COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
75	40/60	P-2	B	187 Sack	75% Hydrol-372	1.32	11.6
50	40/60	P-2	B	187 Sack	75% Hydrol-372 + 5 Wilson	1.42	11.2

## PRESSURES IN PSI

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_  
 BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_  
 AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_  
 SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_  
 ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_  
 TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
 FEET 3074 REASON Shoe off

## SUMMARY

## VOLUMES

PRESLASH: BBL-GAL 20 TYPE Salt flush  
 LOAD & BKDN: BBL-GAL \_\_\_\_\_ PAD: BBL-GAL \_\_\_\_\_  
 TREATMENT: BBL-GAL \_\_\_\_\_ DISPL: BBL-GAL 81.1  
 CEMENT SLURRY: BBL-GAL 30.2  
 TOTAL VOLUME: BBL-GAL \_\_\_\_\_

## REMARKS

10 sks in Rathole

CUSTOMER: 10  
 LEASE: Schertel  
 WELL NO: #2  
 JOB TYPE: Casing string  
 DATE: 12-6-90

