

SIDE ONE

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

API NO. 15- 009-24,383 0000
County Barton

Operator: License # 9911

Name: Har-Ken Oil Company

Address 2932 NW 122nd - Unit 16

City/State/Zip Oklahoma City, OK 73120

Purchaser: Clear Creek, Inc.

Operator Contact Person: Paul Willis

Phone (405) 752-0318

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Paul D. Willis

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

If **OMMO**: old well info as follows:
Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:
 Mud Rotary Air Rotary Cable

8-16-89 8-21-89 8/30/89
Spud Date Date Reached TD Completion Date

SW NE NW Sec. 28 Twp. 16 Rge. 11 East
4290 Ft. North from Southeast Corner of Section

3630 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

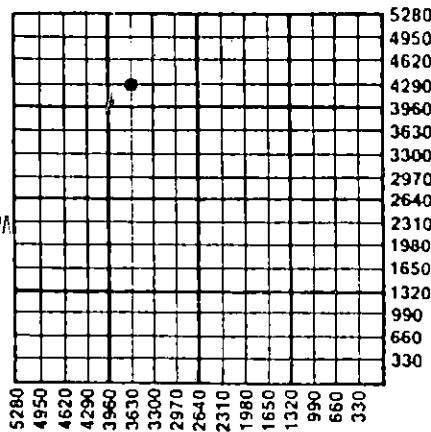
Lease Name Arensman Well # 1

Field Name Kraft-Prusa

Producing Formation Arbuckle

Elevation: Ground 1918 KB 1923

Total Depth 3410 PBDT _____



Amount of Surface Pipe Set and Cemented at 399 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.

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10-12-89
KANSAS

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 M. Stuart Kirk

Title General Manager Date Oct 10 '89

Subscribed and sworn to before me this 10th day of OCTOBER, 19 89.

Notary Public Paul D. Willis

Date Commission Expires December 27, 1989

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)

PI X

SIDE TWO

Operator Name Har-Ken Oil Company Lease Name Arensman Well # 1
 Sec. 28 Twp. 16 Rge. 11 East County Barton
 West

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.)

Formation Description		
	<input checked="" type="checkbox"/> Log	<input type="checkbox"/> Sample
Name	Top	Bottom
Anhydrite	765	790
Howard	2634	2657
Topeka	2669	2960
Heebner	2960	2965
Toronto	2978	2990
Douglas	2990	3057
Brown Lime	3057	3063
Lansing	3076	3315
BKC	3315	-
Cgl	3337	3372
Abuckie	3410	-

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 1/2"	8-5/8"	32#	399'	50/50poz	185	2% gel 3% cc
Production	7-7/8"	5 1/2"	14#	3409'	60/40poz	150	18% salt .75% CFR3

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	3373-74	1 Bbl 10% MSA Acid + 15 gal H ₂ O preceded perforations Halliburton	3399

TUBING RECORD Size 2 7/8" Set At 3395 Packer At _____ Liner Run Yes No

Date of First Production 8/31/89 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	60		0		43°

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 _____

DRILLER'S WELL LOG

DATE COMMENCED: August 16, 1989
DATE COMPLETED: August 21, 1989

Harken Oil Company
ARENSMAN #1
SW NE SW
Sec. 28, T16S, R11W
Barton County, Ks.

0 - 50' Surface Soil, Clay, post Rock
50 - 436' Shells & Sand
436 - 540' Hard Sand Stringers & Shale
540 - 768' Red Bed
768 - 795' Anhydrite
795 - 2635' Shale & Lime
2635 - 2962' Lime
2962 - 2990' Shale & Lime
2990 - 3057' Shale
3057 - 3075' Lime & Shale
3075 - 3315' Lime
3315 - 3372' Shale, Lime, Chert, Sand
3372 - 3410' Dolomite
3410' RTD

ELEVATION: 1923 K.B.

Surface Pipe: Set used
8-5/8", 32# pipe @ 399'
w/185 sacks 50/50 pozmix
2% gel 3% cc.

Production Pipe: Set new
5 1/2", 14# pipe @ 3421' w/150
sacks 60/40 pozmix w/18% salt
& .75% CFR3 w/5# Gilsonite
in last 75 sacks w/20 bbls.
salt flush ahead.

A F F I D A V I T

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STATE CORPORATION COMMISSION

SEP 21 1989

CONSULTATION DIVISION
Wichita, Kansas

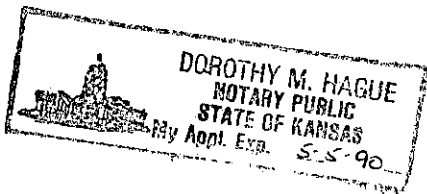
STATE OF KANSAS
COUNTY OF BARTON) ss

Leonard Williamson of lawful age does swear and state that the facts and statements herein are true and correct to the best of his knowledge.

Leonard Williamson

Subscribed and sworn to before me this 15 day of September 1989.

Dorothy M. Hague
Notary Public





HALLIBURTON SERVICES

A Halliburton Company

INVOICE NO.	DATE
822598	08/16/1989

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
ARENSMAN 1		BARTON		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE		TICKET DATE	
GREAT BEND	DUKE DRILLING CO.	CEMENT SURFACE CASING		08/16/1989	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
464320	LEONARD WILLIAMSON			COMPANY TRUCK	81191

HAR-KEN OIL COMPANY
P.O. BOX 626
OWENSBORO, KY 42302

DIRECT CORRESPONDENCE TO:
SUITE 600
COLORADO DERBY BUILDING
WICHITA, KS 67202-0000

PRICE REF NO	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	MID CONTINENT MILEAGE	28	MI	2.20	61.60
001-016	CEMENTING CASING	400	FT	435.00	435.00
030-503	WOODEN TOP PLUG	8	5/8 IN	58.00	58.00
504-308	STANDARD CEMENT	93	SK	5.35	497.55 *
506-105	POZMIX A	92	SK	2.79	256.68 *
506-121	HALLIBURTON-GEL 2%	3	SK	.00	N/C *
509-406	ANHYDROUS CALCIUM CHLORIDE	5	SK	25.75	128.75 *
500-207	BULK SERVICE CHARGE	195	CFT	.95	185.25 *
500-306	MILEAGE CMTG MAT DEL OR RETURN	227.51	TMI	.70	159.26 *
INVOICE SUBTOTAL					1,782.09
DISCOUNT (BID)					302.93
INVOICE BID AMOUNT					1,479.16
*- KANSAS STATE SALES TAX					43.29
*- BARTON COUNTY SALES TAX					10.19
INVOICE TOTAL PLEASE PAY THIS AMOUNT					51,532.64

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OCT 2 1989
CONSERVATION DIVISION
Wichita, Kansas

*AF# 240 Cement per casing X
HK 130-20
Sent to Duke Drilling
to pay 8-31-89*

TERMS 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 LEGAL 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.



HALLIBURTON SERVICES

A Halliburton Company

INVOICE NO.	DATE
822820	08/21/1989

WELL/LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
WISMAN 1		BARTON		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
AT BEND		DUKE DRILLING	CEMENT PRODUCTION CASING		08/21/1989
NO.	CUSTOMER AGENT	VENDOR NO	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
320	PAUL D. WILLIS			COMPANY TRUCK	81348

DIRECT CORRESPONDENCE TO:
 SUITE 000
 COLORADO DERBY BUILDING
 WICHITA, KS 67202-0000

HAR-KEN OIL COMPANY
 HAR-KEN AGENT O.K.
 2932 N.W. 122ND ST., SUITE 16
 OKLAHOMA CITY, OK 73120

CR REF NO	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
0117	CING AREA - MID CONTINENT MILEAGE	28	MI	2.20	61.60
1016	CEMENTING CASING	3410	FT	990.00	990.00
0-018	CEMENTING PLUG 5W, PLASTIC TOP	5	1/2 IN	52.00	52.00
A	GUIDE SHOE - 5 1/2" BRD THU.	1	EA	104.00	104.00
25.205	INSERT FLOAT VALVE - 5 1/2" BRD	1	EA	83.00	83.00
15.1925	FILL UP UNIT 5 1/2" 6 5/8"	1	EA	30.00	30.00
15.1931	CENTRALIZER 5 1/2" MODEL S 4	4	EA	44.00	176.00
07 93022	STANDARD CEMENT	90	SK	5.35	481.50
4-308	POZMIX A	60	SK	2.79	167.40
6-121	HALLIBURTON-GEL 2%	3	SK	.00	N/C
9-968	SALT	1300	LB	.052	67.60
9-968	SALT	400	LB	.052	20.80
8-291	GILSONITE	400	LB	.35	140.00
7-153	CFR-3	97	LB	3.80	368.60
00 207	BULK SERVICE CHARGE	182	CFT	.95	172.90
00 306	MILEAGE CNTG MAY DEL CR RETURN	214.97	TMI	.70	150.48
INVOICE SUBTOTAL					3,065.88
DISCOUNT-(BID)					459.87
INVOICE BID AMOUNT					2,606.01
* KANSAS STATE SALES TAX					69.59
* BARTON COUNTY SALES TAX					16.37
INVOICE TOTAL PLEASE PAY THIS AMOUNT					32,691.97

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 STATE COMMISSION
 CONSERVATION DIVISION
 Wichita, Kansas

Stuart Kirk 8-25-89

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : HAR-KEN OIL COMPANY WELL NAME : ARENSMAN #1
ADDRESS : 2932 N.W. 22ND-UNIT#16, LOCATION : 28-16S-11W
STATE & COUNTY : KANSAS, BARTON FIELD :
ELEV.(GR) : 1918 (KB) : 1923 TEST DATE : 8-19-1989

EQUIPMENT AND HOLE DATA

FORMATION TESTED : LANSING DRILL PIPE LENGTH(ft) : 2102
TEST INT. KB : 3061 to 3115 DRILL PIPE O.D.(in) : 3.82
ANCHOR LENGTH(ft) : 54 WEIGHT PIPE LENGTH(ft) : 941
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kg) : 3115 DRILL COLLAR LENGTH(ft) :
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D.(in) : 2.259
MUD WEIGHT : 9.1 TOP PACKER DEPTH(kb) :
MUD VISCOSITY : 38 BOTTOM PACKER DEPTH(kb) : 3061
MUD CHLORIDES : 6000 DUAL PACKERS :
SURFACE CHOKE : 3/4 PACKER SIZE(in) : 6 3/4
BOTTOM CHOKE(in) : 3/4 PACKER HOLD : Yes
TOOL SIZE(O.D.) : 5 1/2 TOOL PLUG : No
TOOL JOINT SIZE(F.H.) : 4 1/2 REVERSED OUT : No
RESERVOIR TEMPERATURE(F) : 109 TEST TICKET NUMBER : 10265

EXTRA EQUIPMENT :

ELEMENT SERIAL NO. : 5463
RANGE : 0 - 3650 CLOCK RANGE : 12 HOURS
CAL. EQU. : 922.07 * Defl. - 2.47

SURFACE BLOW

1st Opening : WEAK BLOW BUILT TO 10 1/2 INCHES INTO THE WATER
2nd Opening : STRONG BLOW-BUILT TO BOTTOM OF BUCKET IN 26 MIN.

RECOVERY

Recovered 720 feet of GAS IN THE PIPE
Recovered 30 feet of DRILLING MUD

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OCT 12 1989

CONSERVATION DIVISION
Wichita, Kansas

REMARKS :

WITNESSED BY : PAUL WILLIS TOOL OPERATOR : FAT STEVENSON

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : HAR-KEN OIL COMPANY WELL NAME : ARENSMAN #1
ADDRESS : 2932 N.W. 22ND-UNIT#16, LOCATION : 26-16S-11W
STATE & COUNTY : KANSAS, BARTON FIELD :
ELEV. (GR) : 1918 (KB) : 1923 TEST DATE : 8-21-1989

EQUIPMENT AND HOLE DATA

FORMATION TESTED : ARBUCKLE DRILL PIPE LENGTH(ft) : 3340
TEST INT. KB : 3245 to 3400 DRILL PIPE O.D.(in) : 3.82
ANCHOR LENGTH(ft) : 55 WEIGHT PIPE LENGTH(ft) : 941
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kg) : 3400 DRILL COLLAR LENGTH(ft) :
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D.(in) : 2.259
MUD WEIGHT : 9.1 TOP PACKER DEPTH(kb) :
MUD VISCOSITY : 38 BOTTOM PACKER DEPTH(kb) : 3345
MUD CHLORIDES : 8000 DUAL PACKERS :
SURFACE CHOKE : 3/4 PACKER SIZE(in) : 6 3/4
BOTTOM CHOKE(in) : 3/4 PACKER HOLD : Yes
TOOL SIZE(O.D.) : 5 1/2 TOOL PLUG : No
TOOL JOINT SIZE(F.H.) : 4 1/2 REVERSED OUT : No
RESERVOIR TEMPERATURE(F) : 108 TEST TICKET NUMBER : 10266

EXTRA EQUIPMENT :

ELEMENT SERIAL NO. : 13208
RANGE : 0 - 3925 CLOCK RANGE : 12 HOURS
CAL. EQU. : 985.43 * Defl. - 1.97

SURFACE BLOW

1st Opening : STRONG BLOW-BOTTOM OF THE BUCKET IN 1 MIN.
2nd Opening : STRONG BLOW-BOTTOM OF THE BUCKET IN 1 MIN.

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RECOVERY

Recovered 1320 feet of CLEAN GASSY OIL
Recovered 480 feet of SLIGHTLY MUD CUT FROTHY OIL
Recovered 100 feet of MUDDY WATER-CHLORIDES 8000

CONSERVATION DIVISION
Wichita, Kansas

REMARKS :

WITNESSED BY : PAUL WILLIS TOOL OPERATOR : PAT STEVENSON

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.