

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 # 5808

Name: W. R. Allam

Address P.O. Box 23-25

Hutchinson, Ks. 67504

City/State/Zip _____

Purchaser: _____

Operator Contact Person: Beryl Grow

Phone (316) 663-6600

Contractor: Name: Tornado Drilling Inc.

License: 3890

Wellsite Geologist: John Brauer

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

7/11/90 7/20/90

Spud Date _____ Date Reached TD _____ Completion Date _____

API NO. 15- 155-21136-0000

County Reno

CW/2 W/2 NW/4 Set. 12 Twp. 26 Rge. 6 East West

3960 Ft. North from Southeast Corner of Section

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

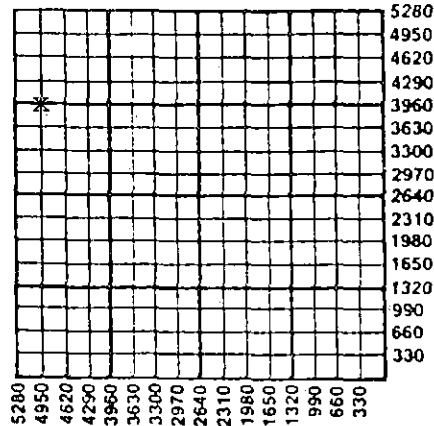
Lease Name Betty Krehbiel Well # 2

Field Name North Albion

Producing Formation Misener-Mississippi

Elevation: Ground 1524 KB 1529

Total Depth 4025 PBTD _____



Amount of Surface Pipe Set and Cemented at 220 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.

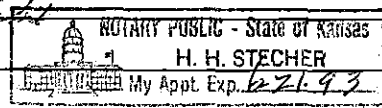
Signature W.R. Allam Jr.

Title _____ Date _____

Subscribed and sworn to before me this 11th day of October 1990.

Notary Public [Signature]

Date Commission Expires _____



K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached

C Wireline Log Received

C Drillers Timelog Received

Distribution

KCC SWD/Rep NGPA

KCS 1990 Plug Other

10-12-90 (Specify)

SIDE TWO

Operator Name W. R. Allam, Jr. Lease Name Betty Krehbiel Well # 2
 East County Reno
 Sec. 12 Twp. 26 Rge. 6 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		
Name	Top	Bottom
Mississippi	3622	
Misener	3968	

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"		220	60/40 poz & common	125	2% c.c.
Production	7 7/8"	5 1/2"	15.5	4025	60/40 poz	175	CFR-3 10% salt

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	3974 - 3978	fractured	
2	3982 - 3985	fracture	
2	3631 - 3633	plug set at	3646
2	3622 - 3626	water - squeezed	
		250 gal. of acid	

TUBING RECORD Size 2 7/8" Set At 3600 Packer At _____
 Liner Run Yes No

Date of First Production 9/12/90 Producing Method Flowing Pumping Gas Lift Other (Explain)
 Estimated Production Per 24 Hours
 Oil Bbls. none Gas Mcf none Water Bbls. 150 Gas-Oil Ratio _____ Gravity _____

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

TICKET NO. 08848

DATE 7-17-90

HALLIBURTON CAMP PRATT, KS

LEASE OWNER W R ALLAM ORIGINAL

LEASE NAME BETTY KREHBIEL WELL NO. 2 TEST NO. 12

LEGAL LOCATION 12 26^S - 16^W FORMATION TESTED MISSISSIPPI

FIELD AREA COUNTY RENO STATE KS

TYPE OF D.S.T. 2 1/2" O.W.T.

TESTER(S) L R PARKER

WITNESS C BRAUER DRILLING CONTRACTOR TORNADO DRILL CO

DEPTHS MEASURED FROM KB CASING PERFS (FT.)

TYPE AND SIZE OF GAS MEASURING DEVICE

CUSHION DATA

TYPE AMOUNT WEIGHT (lb./gal.)

TYPE AMOUNT WEIGHT (lb./gal.)

RECOVERY (ft. or bbl.) 200 FT DRILL MUD

FLUID PROPERTIES

SOURCE	RESISTIVITY	CHLORIDES (PPM)	SOURCE	RESISTIVITY	CHLORIDES (PPM)
	@ °F			@ °F	
	@ °F			@ °F	
	@ °F			@ °F	

REMARKS

NOV 7 1990

STATE OF MISSOURI

DEPARTMENT OF REVENUE

ST. LOUIS, MISSOURI

REMARKS: [Faint handwritten notes and stamps]

TICKET NO. 00848 DATE 7/7/90 ELEVATION (ft.) 1579
 TOP OF TESTED INTERVAL (ft.) 3501 BOTTOM OF TESTED INTERVAL (ft.) 3629
 NET PAY (ft.) 6 TOTAL DEPTH (ft.) 3629
 HOLE OR CASING SIZE (in.) 7 7/8 MUD WEIGHT (lb./gal.) _____ VISCOSITY (sec.) _____
 SURFACE CHOKE (in.) 1.25 BOTTOM CHOKE (in.) 7.5
 OIL GRAVITY _____ °F GAS GRAVITY—ESTIMATED _____ ACTUAL _____

SAMPLER DATA

TEMPERATURE (°F)

PRESSURE (P.S.I.) _____ CUBIC FT. OF GAS _____
 C.C.'s OF OIL _____ C.C.'s OF WATER _____
 C.C.'s OF MUD _____ TOTAL LIQUID C.C.'s _____
GAS/OIL RATIO (cu. ft. per bbl.) _____
 FROM SAMPLER _____ OTHER _____

ESTIMATE 100
 ACTUAL _____
 DEPTH (ft.) _____
 H.T. 500 THERMOMETER
 T.E. OR R.T. 7 OTHER
 SERIAL NO _____

RECORDER AND PRESSURE DATA

CHARTS READ BY L.R. PARKER DATA APPROVED BY _____

RECORDS	GAUGE NUMBER		TIMES	
			(00:00-24:00 HRS.)	
	GAUGE TYPE	<u>1</u>	<u>2</u>	TOOL OPENED <u>00:30</u>
	GAUGE DEPTH (ft.)	<u>3480</u>	<u>3626</u>	DATE <u>7-18-90</u>
	CLOCK NUMBER	<u>26740</u>	<u>14285</u>	BYPASS OPENED <u>03:45</u>
	CLOCK RANGE (HR.)	<u>12</u>	<u>12</u>	DATE <u>7-18-90</u>
	INITIAL HYDROSTATIC	<u>1701</u>	<u>1701</u>	PERIOD
P	INITIAL FLOW	<u>21</u>		MINUTES
	1st FINAL FLOW	<u>93</u>		<u>XXX</u> <u>XXX</u>
E	CLOSED-IN	<u>166</u>		1st FLOW
				<u>60</u>
S	INITIAL FLOW	<u>104</u>		1st C.I.P.
				<u>60</u>
S	2nd FINAL FLOW	<u>124</u>		2nd FLOW
				<u>45</u>
U	CLOSED-IN	<u>145</u>		2nd C.I.P.
				<u>45</u>
R	INITIAL FLOW			<u>XXX</u> <u>XXX</u>
	3rd FINAL FLOW			3rd FLOW
S	CLOSED-IN			3rd C.I.P.
	FINAL HYDROSTATIC	<u>1680</u>		<u>XXX</u> <u>XXX</u>

ADDITIONAL RECORDER AND PRESSURE DATA SPACE ON BACK SHEET IF NEEDED

DO NOT WRITE IN THIS AREA—FOR REPORT SECTION USE ONLY

NOV 1990

P.O. BOX 951046
DALLAS, TX 75395-1046

ORIGINAL HALLIBURTON SERVICES

A Halliburton Company

INVOICE

INVOICE NO.	DATE
986261	07/11/1990

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
BETTIE KREHBIEL 2		RENO		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE		TICKET DATE	
WINFIELD	TORNADO DRILLING	CEMENT SURFACE CASING		07/11/1990	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
012500	NICK ROMAINE			COMPANY TRUCK	98122

DIRECT CORRESPONDENCE TO:

W. R. ALLAM
DRAWER E
HAVEN, KS 67543

SUITE 600
COLORADO DERBY BUILDING
WICHITA, KS 67202-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE	40	MI	2.35	94.00
		1	UNT		
001-016	CEMENTING CASING	222	FT	440.00	440.00
		1	UNT		
504-308	STANDARD CEMENT	75	SK	5.30	397.50 *
506-105	POZMIX A	50	SK	2.87	143.50 **
506-121	HALLIBURTON-GEL 2%	2	SK	.00	N/C *
509-406	ANHYDROUS CALCIUM CHLORIDE	3	SK	26.25	78.75 *
504-308	STANDARD CEMENT	60	SK	5.30	318.00 *
509-406	ANHYDROUS CALCIUM CHLORIDE	2	SK	26.25	52.50 *
500-207	BULK SERVICE CHARGE	195	CFT	1.10	214.50 *
500-306	MILEAGE CMTG MAT DEL OR RETURN	637.13	TMI	.75	477.85 *
INVOICE SUBTOTAL					2,216.60
DISCOUNT-(BID)					332.46-
INVOICE BID AMOUNT					1,884.14
*-KANSAS STATE SALES TAX					60.78
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$1,944.92

OCT 2 1990

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 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.



P.O. BOX 951046
DALLAS, TX 75395-1046

INVOICE

ORIGINAL

HALLIBURTON SERVICES

A Halliburton Company

INVOICE NO.	DATE
986217	07/20/1990

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
BETTIE KREHBIEL 1		RENO		KS	SAME	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
WINEFIELD		TORNADO DRILLING		CEMENT PRODUCTION CASING		07/20/1990
ACCT. NO.	CUSTOMER AGENCY	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.	
012500	BRAIN R. CALH			COMPANY TRUCK	88625	

DIRECT CORRESPONDENCE TO:

W. R. ALLAM
DRAWER E
HAVEN, KS 67543

SUITE 600
COLORADO DERBY BUILDING
WICHITA, KS 67202-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE	40	MI	2.35	94.00
		1	UNT		
001-016	CEMENTING CASING	4019	FT	1,200.00	1,200.00
		1	UNT		
030-016	CEMENTING PLUG SW ALUM TOP	5	1/2 IN	47.00	47.00 *
		1	EA		
12A	GUIDE SHOE - 5 1/2" BRD THD.	1	EA	104.00	104.00 *
825.205					
24A	INSERT FLOAT VALVE - 5 1/2" BRD	1	EA	83.00	83.00 *
815.19251					
27	FILL-UP UNIT 5 1/2"-6 5/8"	1	EA	30.00	30.00 *
815.19315					
40	CENTRALIZER 5-1/2" MODEL S-4	5	EA	44.00	220.00 *
807.93022					
018-317	SUPER FLUSH	7	SK	74.00	518.00
504-308	STANDARD CEMENT	105	SK	5.30	556.50 *
506-105	POZMIX A	70	SK	2.87	200.90 *
506-121	HALLIBURTON-GEL 2%	3	SK	.00	N/C *
508-292	GILSONITE, SACKED	900	LB	.42	378.00
507-210	FLOCELE	22	LB	1.30	28.60 *
507-153	CFR-3	50	LB	3.90	234.00 *
509-968	SALT	850	LB	.09	76.50
509-968	SALT	200	LB	.09	18.00
500-207	BULK SERVICE CHARGE	206	CFT	1.10	226.60 *
500-306	MILEAGE CMTG MAT DEL OR RETURN	651.825	TMI	.75	488.87 *
INVOICE SUBTOTAL					4,503.97
DISCOUNT-(BID)					675.58-
INVOICE BID AMOUNT					3,828.39
OCT 12 1990					

***** CONTINUED ON NEXT PAGE *****

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 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.

P.O. BOX 951046
DALLAS, TX 75395-1046



HALLIBURTON SERVICES

ORIGINAL

A Halliburton Company

INVOICE

INVOICE NO.	DATE
986217	07/20/1990

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
BETTIE KRSHYEL 1		RENO		KS	SAME	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
WINEFIELD		TORNADO DRILLING		CEMENT PRODUCTION CASING		07/20/1990
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.	
012500	BRAIN R. GALH			COMPANY TRUCK	98625	

DIRECT CORRESPONDENCE TO:

W. R. ALLAM
DRAWER E
HAVEN, KS 67543

SUITE 600
COLORADO DERBY BUILDING
WICHITA, KS 67202-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
	*-KANSAS STATE SALES TAX				80.18
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$3,908.57

OCT 12 1990

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



HALLIBURTON SERVICES

A Halliburton Company

INVOICE NO.	DATE
018467	09/17/1990

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
KREHBIEL 2		RENO		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
GREAT BEND			SQUEEZE PERFORATIONS		09/17/1990
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
012500	W.R. ALLAM			COMPANY TRUCK	01868

W. R. ALLAM
DRAWER E
HAVEN, KS 67543

DIRECT CORRESPONDENCE TO:
SUITE 1300
LIBERTY TOWER
100 BROADWAY AVENUE
OKLAHOMA CITY, OK 73102-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	PRICING AREA - MID CONTINENT MILEAGE	76	MI	2.35	178.60 *
009-134	CEMENT SQUEEZE	3632	FT	1,130.00	1,130.00 *
009-019		1	UNT		
201-004	HYDROCHLORIC ACID	15	%	.51	21.42
		42	GAL		
210-011	HAI-85	.25	GAL	39.00	9.75
504-308	STANDARD CEMENT	85	SK	5.35	454.75 *
507-665	HALAD-9	14	LB	6.65	93.10 *
500-207	BULK SERVICE CHARGE	85	CFT	1.10	93.50 *
500-306	MILEAGE CMTG MAT DEL OR RETURN	304.15	TMI	.75	228.11 *
INVOICE SUBTOTAL					2,209.23
DISCOUNT-(BID)					331.36-
INVOICE BID AMOUNT					1,877.87
*-KANSAS STATE SALES TAX					78.68
*-BARTON COUNTY SALES TAX					18.52
INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====>					\$1,975.07

OCT 12 1990

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HALIBURTON SERVICE JOB LOG

WELL NO. 2 LEASE REX HILL TICKET NO. 613167
 CUSTOMER W. R. Allman PAGE NO. 1
 JOB TYPE Squeeze Pumps 3031-5 DATE 9-17-90

TIME	RATE (BPM)	VOLUME (BBL / GAL)	PUMPS		PRESSURE (PSI)	DESCRIPTION OF OPERATION AND MATERIALS
			T	C		
						ORIGINAL
1440						Called out
1500						on job
1552		0			0	Land Ann
1600		1.6			300	Ann lowered
1651		0				Start ACM
1654		31.1			1400	ACM 60-150 ft
1655					1500	Trailing
1656		33.8			1500	ACM Clear
1657		25.8			1600	Over flush in
1658						
1659		17.85			1000	WIX CUT
1650		0			600	START Dsp
1651		1.8			1200	17 BBL IN
1652		14.5			2000	19.25 BBL IN Holding
1653					0	Release
1654					3000	Repeat Squeeze Holding
1655					0	Release
1656		0			400	Reverses cut out of Tubing
1657					400	Wash down 1 Joint
1658					400	Wash down 10 on 2 nd Joint
1659		35			0	Tubing Clean Pull 3 Joints
1700					500	Repeat Squeeze
1705					500	Close well in
						Job Complete
						Thank You
						D. P. Puzak
						L. Blasing
						T. Sheets