

SIDE ONE

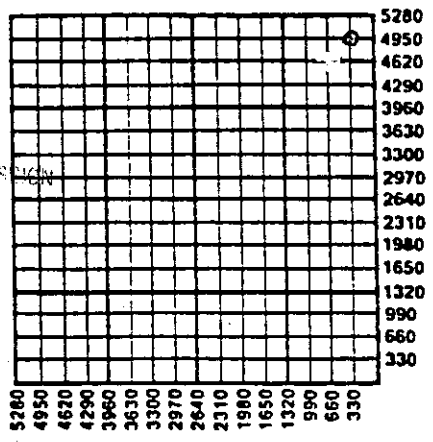
STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 5565
Name: N C R A
Address 6000 W. 10th
City/State/Zip Great Bend, KS 67530
Purchaser:
Operator Contact Person: Steve Brackeen
Phone (316) 793-7824
Contractor: Name: Abercrombie Drilling, Inc.
License: 5422

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

If OMO: old well info as follows:
Operator:
Well Name:
Comp. Date 05-11-90 Old Total Depth 05-20-90
Drilling Method:
 Mud Rotary Air Rotary Cable
Spud Date 05-11-90 Date Reached TD 05-20-90 Completion Date 05-21-90

API NO. 15- 165-21,518-0000
County Rush
NE NE NE Sec. 29 Twp. 18S Rge. 20 East West
4950 Ft. North from Southeast Corner of Section
330 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)
Lease Name Reitz Well # 1
Field Name Belle Prarie
Producing Formation
Elevation: Ground 2080 KB 2085
Total Depth 4252 PBDT



Amount of Surface Pipe Set and Cemented at 354.78 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.

RECEIVED
STATE CORPORATION COMMISSION
JUL 24 1990
7-24-90
Wichita, Kansas

ALT V DRA

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 Steve Brackeen
Title District Foreman Date 7/20/90
Subscribed and sworn to before me this 20th day of July, 19 90.
Notary Public Rhonda McKenzie
Date Commission Expires 7-18-94

NOTARY PUBLIC-STATE OF KANSAS
RHONDA MCKENZIE
My Appt. Exp. 7-18-94

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)

Form ACO-1 (7-89)
ORIGINAL

SIDE TWO

Operator Name N.C.R.A. Lease Name Reitz Well # 1

Sec. 29 Twp. 18S Rge. 20 East West
 County Rush

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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets.) Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.)	<p style="text-align: center;">Formation Description</p> <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample Name Top Bottom
SEE ATTACHMENTS	

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> 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#	354 78	Class A	250	3% cc, 2% Gel
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				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
	Size	Set At	Packer At				
Date of First Production		Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		

Disposition of Gas: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, submit ACO-18.)	METHOD OF COMPLETION <input type="checkbox"/> Open Hole <input type="checkbox"/> Perforation <input type="checkbox"/> Dually Completed <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	Production Interval _____ _____
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15-165-2518-0000
ABERCROMBIE DRILLING, INC.
801 UNION CENTER
WICHITA, KANSAS 67202

N.C.R.A.
1775 Sherman Street #3000
Denver, CO 80203

REITZ #1
NE NE Sec. 29-18S-20W
Rush County, KS

Contractor: Abercrombie Drilling, Inc.
Surface: 8 5/8" 24# @ 354.78'w/250 sxs.

DRILLERS WELL LOG

05-11-90	0 to 190	Sand and Clay
05-12-90	190 to 357 357 to 1305	Sand and Shale Shale and Sand
05-13-90	1305 to 1329 1329 to 1365 1365 to 2132	Shale and Lime Anhydrite Shale and Lime
05-14-90	2132 to 2585	Shale and Lime
05-15-90	2585 to 3160	Shale and Lime
05-16-90	3160 to 3427	Shale and Lime
05-17-90	3427 to 3760	Shale and Lime
05-18-90	3760 to 3860 3860 to 4085	Shale and Lime Lime
05-19-90	4085 to 4101	Lime
05-20-90	4101 to 4135 4135 to 4252 4252	Sand and Shale Lime Rotary Total Depth

RECEIVED
STATE CORPORATION COMMISSION

JUL 24 1990
7-24-90
CONSERVATION DIVISION
Wichita, Kansas

15-165-21518-0000

DRILL STEM TESTS

DST No. 1

Conventional Open Hole Test
Cherokee 1st Sand
4081'-4093'
12' Anchor
5"-30"-45"-90"

Initial Flow: Weak 1/4" blow throughout.
Final Flow: Weak surface blow throughout.

Recovered: 25' Total Fluid
 20' heavy oil cut mud (25% oil, 75% mud)
 5' clean oil

IHP 2285 P.S.I.
IFP 31-31 P.S.I.
ISIP 582 P.S.I.
FFP 31-31 P.S.I.
FSIP 541 P.S.I.
FHP 2264 P.S.I.

Temperature 117 Degrees F

Sampler Recovery: Total Volume Sampler 3,150 c.c.
 Total Volume of Sample 2,400 c.c.
 Oil 240 c.c. (37 API gravity)
 Gas 0 c.c.
 Water 0 c.c.
 Mud 2,160 c.c.

Pressure 30 P.S.I.

Mud: 10.4 Weight
 76 Viscosity
 9.6 Water Loss
 7,000 p.p.m. Chlorides
 1.1 ohms Resistivity @ 54 F

Pipe Recovery None

DST No. 2

Conventional Open Hole Test
Cherokee 1st Sand
4081'-4101'
20' Anchor
5"-30"-15"-90"

Initial Flow: Strong blow off bottom of bucket in 1".
Final Flow: Strong blow off bottom of bucket in 2".

RECEIVED
STATE CORPORATION COMMISSION

JUL 24 1990
7-24-90
CHEROKEE 1ST SAND
WINDY SPRING

Recovered: 1,320' Total Fluid
 120' muddy water
 1,200' water

IHP 2264 P.S.I.
 IFP 416-416 P.S.I.
 ISIP 551 P.S.I.
 FFP 479-510 P.S.I.
 FSIP 551 P.S.I.
 FHP 2254 P.S.I.

Temperature 123 Degrees F

Sampler Recovery: Total Volume Sampler 3,150 c.c.
 Total Volume of Sample 3,025 c.c.
 Oil 0 c.c.
 Gas 0 c.c.
 Water 3,025 c.c.
 Mud 0 c.c.

Pressure 490 P.S.I.

Mud: 10.3 Weight
 43 Viscosity
 9.6 Water Loss
 7,000 p.p.m. Chlorides
 1.0 ohms Resistivity @ 60 F

Pipe Recovery 0.23 ohms Resistivity @ 67 F
 38,000 p.p.m. Chlorides

RECEIVED
 STATE DEPARTMENT OF CONSERVATION

JUL 24 1990
 7-24-90
 CONSERVATION DIVISION
 WASHINGTON, D.C.

REITZ NO. 1 FORMATION TOPS

FORMATION	SAMPLE TOPS	ELECTRIC LOG		Bannister 1 REFERENCE WELL "A"	REFERENCE WELL "B"	DIFFERENCE TO REFERENCE WELL	
		TOPS	DATUM			"A"	"B"
Anhydrite	1329	1330	755	756		-1	
B / Anhydrite	1364	1364	721	723		-2	
Heebner	3572	3570	-1485	-1482		-3	
Lansing	3617	3614	-1529	-1526		-3	
B / KC	3885	3880	-1795	-1795		--	
Pawnee	3982	3979	-1894	-1898		4	
Ft. Scott	4076	4072	-1987	-1982		-5	
Cherokee Shale	4086	4080	-1995	-1991		-4	
Cherokee 1st Sd	4090	4090	-2005	-1997		-8	
Cherokee 2nd Sd	--	4108	-2023	-2017		-6	
Cherokee 3rd Sd	--	4116	-2031	-2032		1	
Cherokee 4th Sd	--	4132	-2047	-2045		-2	
Reworked Miss.	--	4166	-2081	-2074		-7	
Mississippian Dolo.	4202	4200	-2115	-2112		-3	

RECEIVED
STATE OPERATIONAL COMMISSION

JUL 24 1990
7-24-90
LAW ENFORCEMENT DIVISION
WICHITA, KANSAS



INVOICE

HALLIBURTON SERVICES

15-165-21518-0000
A Halliburton Company

INVOICE NO.	DATE
947609	05/11/1990

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER
REITZ 1		RUSH	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE		TICKET DATE
GREAT BEND	ABERCROMBIE DRILLING	CEMENT SURFACE CASING		05/11/1990
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA
22920	TOM BERGIN			COMPANY TRUCK
				FILE NO. 94933

NATIONAL COOPERATIVE
REFINERY ASSOCIATION
6000 W. 10TH
GREAT BEND, KS 67530

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

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	MILEAGE	40	MI	2.20	88.00
		1	UNT		
001-016	CEMENTING CASING	354	FT	416.60	416.60
		1	UNT		
030-503	WOODEN PLUG	8 5/8	IN	59.00	59.00
		1	EA		
40	CENTRALIZER 8-5/8" MODEL S-4	1	EA	53.00	53.00
807.93059					
24A	INSERT FLOAT VALVE - 8 5/8" 8RD	1	EA	171.00	171.00
815.19502					
27	FILL-UP UNIT 7" - 8 5/8"	1	EA	29.00	29.00
815.19415					
504-308	STANDARD CEMENT	250	SK	5.35	1,337.50
507-277	HALLIBURTON-GEL BENTONITE	5	SK	13.00	65.00
509-406	ANHYDROUS CALCIUM CHLORIDE	7	SK	26.25	183.75
500-207	BULK SERVICE CHARGE	264	CFT	.95	250.80
500-306	MILEAGE CMTG MAT DEL OR RETURN	490.60	THI	.70	343.42
INVOICE SUBTOTAL					2,997.07
DISCOUNT-(BID)					599.41-
INVOICE BID AMOUNT					2,397.66
*-KANSAS STATE SALES TAX					82.75
*-BARTON COUNTY SALES TAX					19.47
STATE CORPORATION COMMISSION					
RECEIVED					
JUL 24 1990					
7-24-90					
CONSERVATION DIVISION					
Wichita Kansas					
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$2,499.88

SB
5-21-90
AFE # 1-0-161

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.

HALLIBURTON SERVICES

15-1165-2518-0000
A Halliburton Company

INVOICE

INVOICE NO:	DATE
908346	05/21/1990

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
REITZ 1		RUSH		KS	SAME
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE	
NESS CITY		ABERCROMBIE		PLUG TO ABANDON	
				TICKET DATE	
				05/21/1990	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
622920	STEVE BRACKEEN			COMPANY TRUCK	9552

NATIONAL COOPERATIVE
REFINERY ASSOCIATION
CRUDE OIL DIV HEADQUARTERS
1775 SHERMAN ST STE 3000
DENVER, CO 80203

DIRECT CORRESPONDENCE TO:
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	2.20	88.00
		1	UNT		
090-910	MISCELLANEOUS PUMPING JOB	1	TRK	370.00	370.00
030-503	CMTG PLUG LA-11, CP-1, CP-3, TOP	8 5/8	IN	59.00	59.00
		1	EA		
504-308	STANDARD CEMENT	123	SK	5.35	658.05
506-105	POZMIX A	82	SK	2.79	228.78
506-121	HALLIBURTON-GEL 2%	4	SK	.00	N/C
507-277	HALLIBURTON-GEL BENTONITE	7	SK	13.00	91.00
500-207	BULK SERVICE CHARGE	205	CFT	.95	194.75
500-306	MILEAGE CMTG MAT DEL OR RETURN	373.76	TMI	.70	261.63
INVOICE SUBTOTAL					1,951.21
DISCOUNT-(BID)					390.23-
INVOICE BID AMOUNT					1,560.98
*-KANSAS STATE SALES TAX					64.33

INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====>					\$1,625.31

Checked by [Signature]
Date 10-2-90
Approved as to current month operating
or drilling invoicing only.
[Signature]
Production Department

1-0-1161
RECEIVED
STATE COMMISSIONER OF REVENUE
JUL 24 1990
7-24-90
CONSERVATION DIVISION
Wichita Kansas

FORWARDED TO
JUN 8 1990
DATA PROCESSING

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.