Form ACO-1 September 1999 Form Must Be Typed

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 31:302 Name:	WELL HISTORY - DESCRI	ODICINIAL:
Name: Jones S. Pixt Development: Address: P.O. Bix 68 Address: P.O. Bix 68 Script, IS 67351 Purchaser: Quest. Piverty Operator Contractor: Name: MXST License: \$351 NOV 1 3 2003 Producing Script Williams And Script Workover Contractor: Name: MXST License: \$351 NOV 1 3 2003 Producing Formation: Multiv. Pet Script Workover Contractor: Name: MXST Designate Type of Completion: New Well Re-Entry Workover Oil SWD SIOW Temp. Abd. X. Gas ENHIR SIGW Dry Other (Core, WSW, Epst., Cathodic, etc) If WorkoverRe-entry: Old Well Info as follows: Cognation: Original Total Depth: Total Depth: Committed and the American Part Script Signature: Despensing Re-pert Corn, to Entri/SWD Plug Back Designation Docket No. Dual Completion Docket No. B-22-03 B-26-03 B-26-04 BRITUCTIONS: An original and two copies of this form shall be filled with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichila, Kansas 67202, within 120 days of the spud date, recompletion Date or Recompletion Date or Recompletion bate or Recompletion of 12 months). The completion of a well. Rule 82-3-130, 82-3-105 and 82-3-107 apply. Information of alse two of this form will be held only included to recomplete find script on the year of the particles pulses and regulations promuly and particles and regulations promuly and the complete or Recompleted for the particle pulses and regulations promuly and two recompletes find scripts to the year of the ye	Ozerster: License # 31302	API No. 15 - 019-26603-00-00 URIGINAL
Address: P.O. Pox 68 Address: P.O. Pox 68 City/State/7/p Section, NS 67361 Contractor: MKXDT Phone: (_650_) 7/55-3535 RECEIVED Contractor: MXXDT Contractor: Now Well Ro-Entry Workover New Well Ro-Entry Workover New Well Ro-Entry Workover Other (Core, WSW, Expl., Cathodic, etc) If Alternate il completion, cement circulated from, 1779 If Alternate il completion il content in the Reserve from 1779 Chibride content ppmm Fluid volume biblis Dewatering method used Content ppmm Fluid volume biblis Dewatering method used Country: Docket No. Operator Name: Lease Name:		County: Chautauqua
Section New Year	TOTAL CONTRACTOR OF THE PARTY O	SW - SW-SE - Sec. 25 Twp. 33 S. R. 12 X East West
Contractor: Nume: MCX0T	Address: Sedan, KS 67361	
Processor Park Data Data Processor Park Data Processor Processor Park Data Processor Pro		feet from E/ W (circle one) Line of Section
Corpic onto Name: NEXT NOV 1 3 2003		
Contractor: Name: NORT NOV 1 3 2003		
Thomas H. Oast CCC WICHTA		
Weilste Geologist: Thomas H. Oast CC WICHITA		Field Name: Peru-Sedan
Designate Type of Completion: New Well Re-Entry Workover New Yell Re-Entry Workover New Yell Re-Entry Workover New Yell	License:	
New Well Re-Entry Workover New Yell		Floretion: Ground: 990 Kelly Bushing:
Amount of Surface Pipe Set and Cemented at 40 Feet Superator		
Multiple Stage Cementing Collar Used? Yes No		Total Deptil. 27:55 Flag Back Fold Deptil. 40 Feet
Case	Oil SWD SIOWTemp. Abd.	
If Alternate II completion, cement circulated from 1779 feet depth to SUFFACE W Z20 sx cml. Well Name: Original Comp. Date: Original Total Depth: Conv. to Enhr/SWD Despening Re-perl. Conv. to Enhr/SWD Despening Re-perl. Conv. to Enhr/SWD Diug Back Plug Back Total Depth Dewatering method used Location of fluid disposal if hauled offsite: Other (SWD or Enhr.?) Docket No. Docket No. Date Reached TD Completion Date or Recompletion Date Recompletion Date Docket No. INSTRUCTIONS: An original and two copies of this form shall be filled with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of 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 geologist well report shall be statched with this form. ALL CEMENTING 107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be statched with this form. ALL CEMENTING 107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be statched with this form. ALL CEMENTING 107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be statched with this form. ALL CEMENTING 107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be statched with this form. ALL CEMENTING 107 for confidentiality and submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarity abandoned wells. Subscribed and sworn to before me this 7th day of November Wireline Log Received Geologist Report Received Geologist Report Received Geologist Report Received Geologist Report Received G		Multiple Stage Octioning Cond.
Operator: Well Name: Original Comp. Date: Original Comp. Date: Deepening Re-perf. Conv. to Enhr./SWD Plug Back Plug Back Total Depth: Commingled Docket No. Dual Completion Docket No. Other (SWD or Enhr.?) Docket No. Spud Date or Recompletion Date Reached TD Completion Date or Recompletion Date INSTRUCTIONS: An original and two copies of this form shall be filled with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of 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 82-3-110/107 or confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be stranged wells. Submit CP-111 form with all temporarily abandoned wells. All requirements of the estudes rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and doubted for the less to fray knowledge. Signature: Date: 11-07-03 Letter of Confidentiality Attached If Denied, Yes Date: Wireline Log Received Geologist Report Received Geologist Report Received	Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth set1779
Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) Completion Co	If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from
Original Comp. Date: Original Total Depth: Otats must be collected from the Reserve Pil) Deepening Re-perf. Conv. to Enhr/SWD Plug Back. Plug Back Total Depth Dowatering method used Commingled Docket No. Dual Completion Docket No. Other (SWD or Enhr.?) Docket No. Spud Date or Recompletion Date INSTRUCTIONS: An original and two copies of this form shall be filled with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichila, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of 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 geologist well report 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. All requirements of the eticules rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and copies to the best of my knowledge. Signature: Title: Parting Date: 11-07-03 Subscribed and sworn to before me this 7th day of November Wireline Log Received Geologist Report Received Wireline Log Received Geologist Report Received Wireline Log Received Geologist Report Received	Operator:	
Original Comp. Date: Original Total Depth: Otats must be collected from the Reserve Pil) Deepening Re-perf. Conv. to Enhr/SWD Plug Back. Plug Back Total Depth Dowatering method used Commingled Docket No. Dual Completion Docket No. Other (SWD or Enhr.?) Docket No. Spud Date or Recompletion Date INSTRUCTIONS: An original and two copies of this form shall be filled with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichila, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of 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 geologist well report 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. All requirements of the eticules rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and copies to the best of my knowledge. Signature: Title: Parting Date: 11-07-03 Subscribed and sworn to before me this 7th day of November Wireline Log Received Geologist Report Received Wireline Log Received Geologist Report Received Wireline Log Received Geologist Report Received	Well Name:	Drilling Fluid Management Plan // / / Oct
Plug Back	Original Comp. Date: Original Total Depth:	
	Deepening Re-perfConv. to Enhr./SWD	Chloride content ppm Fluid volume bbls
Dual Completion Docket No. Other (SWD or Enhr.?) Docket No. 8-23-03 8-26-03 9-08-03 Spud Date or Recompletion Date INSTRUCTIONS: An original and two copies of this form shall be filled with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report 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. All requirements of the estatutes rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and collect to the best of my knowledge. KCC Office Use ONLY Wireline Log Received Geologist Report Received Wireline Log Received Geologist Report Received Wireline Log Received License No.: Lease Name: License No.: Lease Name: License No.: County: Docket No.: Docket No.: Twp. S. R.	Plug Back Plug Back Total Depth	Dewatering method used
Dual Completion Other (SWD or Enhr.?) Docket No. 8-23-03 8-26-03 Spud Date or Recompletion Date INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of 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 geologist well report 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. All requirements of the returned and confidency to the best of my knowledge. Signature: Title: Partney Date: 11-07-03 Notary Public: Letter of Conflidentiality Attached If Denied, Yes Date: Wireline Log Received Geologist Report Received Geologist Report Received Jic Distribution	Commingled Docket No	Location of fluid disposal if hauled offsite:
Operator Name: Completion Date Completion Date Completion Date Completion Date	Dual Completion Docket No	
Spud Date or Recompletion Date Date Reached TD Date Reached TD Date Recompletion Date or Recompletion Date or Recompletion Date		1 ·
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date County: Docket No.: INSTRUCTIONS: An original and two copies of this form shall be filled with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of 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 geologist well report 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. All requirements of the enables 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: Title: Partnet Date: 11-07-03 KCC Office Use ONLY Wireline Log Received Geologist Report Received Wireline Log Received Wireline Log Received Wireline Log Received		· ·
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Signature: Title: Partnet Date: 11-07-03 Letter of Confidentiality Attached If Denied, Yes Date: Wireline Log Received Subscribed and sworn to before me this 7th day of November Notary Public: 32003 Notary Public: 32005	Kansas 67202, within 120 days of the spud date, recompletion, workov information of side two of this form will be held confidential for a period of	er or conversion of a well. Hule 82-3-130, 82-3-100 and 82-3-131 apply. 12 months if requested in writing and submitted with the form (see rule 82-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3
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Signature: Title: Partnet: Date: 11-07-03 Letter of Confidentiality Attached If Denied, Yes Date: Wireline Log Received	$\mathcal{Y}\mathcal{Y}\mathcal{K}$	KCC Office Use ONLY
Subscribed and sworn to before me this 7th day of November Subscribed and sworn to before me this 7th day of November Wireline Log Received		ROO OTHER DOO OTHER
Subscribed and sworn to before me this 7th day of NOVERIDET Wireline Log Received	Title: Partner Date: 11-07-03	
Notary Public: Geologist Report Received Notary Public: Geologist Report Received	Subscribed and sworn to before me this 7th day of November	
Notary Public: Gede Jallott June Distribution	xgx 2003	Coologist Panort Pereived
Date Commission Expires: February 5, 2005		UIC Distribution
	Date Commission Expires: February 5, 2005	My Comm. MALEOTT MARCH

Operator Name:	Jones & Buck D	evelopr	ent	Lea	se Name:	Bruen		_ Well #:2	
Sec. 25 Twp	33 s. R. 12	X Ea	st West	Cou	nty:	Chautauqua			
tested, time tool ope temperature, fluid re	en and closed, flowin covery, and flow rate	g and sh es if gas t	ut-in pressures, lo surface test, a	whether long with	shut-in pr	ressure reached	static level, hydro	static pressur	es, bottom hole
Soc. 25 Twp 33 S. R. 12 East West County: Creataixes INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving in tested, time tool open and closed, flowing and shurt-in pressures, whether shuf-in pressure reached static level, hydrostatic pressures, bottom final charges and the common of shurt-in pressures, whether shuf-in pressure reached static level, hydrostatic pressures, bottom final charges and the common of shurt-in pressures, whether shuf-in pressures in more space is needed. Attach extensive the common of shurt-in pressures, whether shuf-in pressures, whether shuf-in charges place is needed. Attach extensive the common of shurt-in pressures, whether shuf-in and charges place in the common of shurt-in pressures, whether is needed. Attach extensive the common of shurt-in pressures, whether is needed. Attach extensive the common of shurt-in pressures, whether is needed. Attach extensive the common of shurt-in pressures in more space is needed. Attach extensive the common of shurt-in pressures, whether is needed. Attach extensive the common of shurt-in pressures in more space is needed. Attach extensive the common of shurt-in pressures, whether is needed. Attach extensive the common of shurt-in pressures, whether is needed. Attach extensive the common of shurt-in pressures, whether is needed. Attach extensive the common of shurt-in pressures, whether is needed. Attach extensive the common of shurt-in pressures, whether is needed. Attach extensive the common of shurt-in pressures, whether is needed. Attach extensive the common of shurt-in pressures, whether is needed. Attach extensive the common of shurt-in pressures, whether is needed in the common of shurt-in pressures, whether is needed in the common of shurt-in pressures, whether is needed in the common of shurt-in pressures, whether is needed in the common of shurt-in pressures, which is needed in the common of shurt-in pressures, whether is needed in the common		Sample							
Samples Sent to Ge	ological Survey		Yes 🛣 No		Nan	ne		Тор	Datum
Cores Taken Electric Log Run		-	Yes X No		a		//1/212	20BB224TiA11	
≿ist All E. Logs Run:	Gamma Ray∕Neu	tron							se en
•							R	ECEIVI	ĒD
		Rep				-	tion, etc.	en e	
Purpose of String									Type and Percent Additives
Surface	11"	8-5,	/8!!			40'	Portland	10	
Production	6-3/4"	di ₁	4 ¹ 2**	9	<u>.5</u>	1779	50/50 Poz.	220	
			ADDITIONAL	OEMENT				<u> </u>	
Perforate Protect Casing Plug Back TD		Тур			· · · · · · · · · · · · · · · · · · ·	DEEZE RECORL		ercent Additives	
Shots Per Foot					9				d Depth
1	1392-1	L402				1. 400 ga1s	: 15% HCL Acid		1392- 1402
·						2. 7,000 1b	ns. 16130 sand	frac.	
)					2 161			
TUBING RECORD	Size	Set At		Packer	At .	Liner Run			,
Date of First, Resumerd	Production, SWD or Er	ıhr.	Producing Metho	od	Flowing			Othe	r (Explain)
	Oil E	ibis.		lcf			ols. Ga		Gravity
Disposition of Gas	METHOD OF CO	OMPLETIC			110 (/al	***************************************	
Vented X Sold (If vented, Sun			Open Hole Other (Specify,	,	. 🗆 в	ually Comp.	Commingled		

.P.O. BOX 13 **DEWEY, OK 74029**

COMMENTS:

FINANCE AND FIELD WORK ORDER RIGHTS STEVE HARTER SALES CONTRACT AND FIELD WORK ORDER RIGHTS 1534-2107

JOB NO. 3524	Charge To:	& Soner + BUEK V	Customer Order No.
Date 9-8-07	Address		Nearest Town
Operator MARTER	City and State	RECEIVED	Field
Riggers Swa no SE	Mail Invoices To:	-	Lease and BRUEN 2
450 FIC. 2150 FEC	Address	NOV 1 3 2003	County CAAJTAVGVA
Legal Description—Sec. 21- 73 121	City and State	KCC WICHITA	State State

In consideration of service work to be performed, the undersigned hereby agrees to the following general terms and conditions of services:

- (1) All accounts are to be paid within the terms fixed by Green Country Wireline, Inc. invoices; past due accounts are subject to a service charge of 1½% per month. An account is past due when not settled by the first day of the second month, following the month of purchase. In addition, costs and reasonable attorney's fees for collection may be charged.
- (2) Because of the uncertain conditions and hazards existing in a well which are beyond the control of Green Country Wireline, Inc., it is understood by the customer that Green Country Wireline, Inc. cannot guarantee the results of their services and will not be held responsible for personal or property damage in the performance of their services.
- (3) Should any Green Country Wireline, Inc. instruments or equipment be lost or damaged in the performance of the operations requested, the customer agrees to make every reasonable effort to recover same, and to reimburse Green Country Wireline, Inc. for the value of the items which cannot be recovered, or the cost of repairing damage to items recovered.
- (4) It is further understood and agreed that all depth measurements shall be supervised by the customer of its employees.
- (5) The customer certifies that it has the full right and authority to order such work on such well and that the well in which the work is to be done by Green Country Wireline, Inc. is in proper and suitable condition for the performances of said work.
- The customer agrees to pay any and all taxes, fees and charges placed on services rendered by Green Country Wireline, Inc. by government requirements including city, state and federal taxes and fees or reimburse Green Country Wireline, Inc. for such taxes and fees paid to said
- (7) No employee is authorized to alter the terms or conditions of this agreement. DATE 9-8-63 CUSTOMER SOLES + BOLK

PRINT COI	RRECT NAME Signature of Customer	or Authorized Representative
WORK PERFORMED	PRICING	
Ran log:	Set up	\$ 200
From 1769ft. to750ft.; From 1766ft. to sakeft.	1st/.4	\$ \$40 42
Fromft. toft.; Fromft. toft.	Next	\$
Set Bridge Plug at	Next Shotš @ \$ Ea.	\$
Perforated with3. \$2.000	Next Shots @ \$ Ea. LOGGING: Depth Charge ft. @ \$ ft.	\$ \$ 31°°
From	Logging Chgft. @ \$ft. BRIDGE PLUG: Type	\$
	Setting Charge	. \$
CK# 14203	Depth Charge ft. @ \$ ft. Cement Bond Log	Salaria de la companya del companya de la companya del companya de la companya de
1403	OTHER SERVICES	1 con Anglies segmental and and property of a month constitution
085	CONTract //	100 %
ZERO CASING SIZE CASING WT.	CUSTOMER'S T.D. GCW T.D.	FLUID LEVEL
OPEN HOLE RECORD	/770	TYPE FLUID IN HOLE

64

Signed:

I certify that the above ordered services have been performed to my satisfaction, that all zones perforated were designated by me and all depth measurements checked and approved.

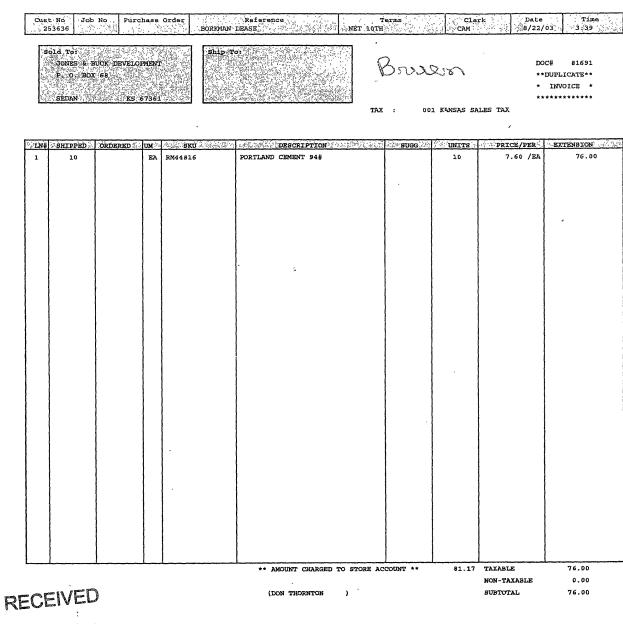
Signature of Customer or Authorized Representative

ACKARIVAN HARDWARE and LUMBER CU 160 EAST MAIN STREET SEDAN, KS 67361

ORIGINAL

PHONE: (620) 725-3103

, THANKS FOR YOUR BUSINESS!!



RECEIVED

NOV 1 3 2003

KCC WICHITA

TAX AMOUNT 5.17
TOTAL AMOUNT 81.17

Received By

INVOICE DATE / INVOICE NO 00186397

DZ LZ

211 W. 14th, R.O. Box 384 Chamute, KS 56720 - 320/431-9210 + 1 560/457-8575

.0. BOX 68 . B. D. % P. J. BUCK

SEDAN KS 67361

RECEIVED NOV 1 3 2003 KCC WICHITA

PLEASE REFER TO THIS ACCOUNT NUMBER WHEN MAKING INQUIRIES

CONSOLIDATED OIL WELL SERVICES, DEPT. 3667

CHICAGO, IL 6067 135 SOUTH LAS/

4-356/				YELLOW INC.
30 days.	12%) will b	per month o	A Finance	TERMS: Net 30 Day

Days
ce Charge computed at 1%
th (annual percentage rate of

119 119 119		ITEM NUMBER	ACCOUNT NO. P.O. NO. 1291
119.74	50 S WAR C PR 60 C C C C C C C C C C C C C C C C C C		LOCATION 40
ORIGINAL INVOICE	CEMENT DUMBER CASING FOOTAGE COTTONSEED HULLS ELU-SEAL (25#) GILSONITE (50#) GRANULATED SALT (80#) PRENTUM GEL CITY WATER 4 1/2" RUBBER PLUG BULK CEMENT DELIVERY/MIN BULK DEL WATER TRANSPORT 80 BBL VACUUM TRUCK 50/50 POZ CEMENT MIX	DESCRIPTION	BRUEN 2 BRUEN 2
	1.0000 11776.0000 1.0000 2.0000 22.0000 550.0000 6.0000 1.0000 1.0000 1.0000 3.5000 320.0000		DATE OF JOB 2
	525 0000 EA 1400 EA 12.9500 SK 14.9500 SK 14.9500 SK 14.2500 EA 17.2500 EA 17.0000 EA 170.0000 HR 70.0000 HR 6.4500 SK	UNIT PRICE WEAS	JOB TICKET NO.
PLEASE PAY 3767, 93	525.00. 248.64 12.95 75.50 426.80 55.00 70.80 90.00 27.00 190.00 262.50 245.00 1419.00	EXTENDED PRICE	

3767.93

ORIGINAL

THOMAS H. OAST, Geological Consultant

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P.O. BOX 94 Sedan, KS 67361

September 5, 2003

NOV 1 3 2003

KCC WICHITA

Jones & Buck Development P.O. Box 68 Sedan, Kansas 67361

Reference:

Your Bruen #2 Well

API# 15-019-26,603-0000

Reported Spot Location:

4500'FSL, 2190'FEL (SE $\frac{1}{4}$)

Section 25 - T33S - R12E Chautauqua County, Kansas Frazier Oil and Gas Field

Ground Elevation (GL):

990±' Estimated

Topography/Vegetation:

Flat, Wooded

TD (Total Depth):

1779' Driller from GL

Drilling Contractor:

MOKAT Drilling

Caney, Kansas

KCC #5831

Drilling Rig Model:

Drilltech D 40 K

1150/350 Main Air

Hole Data:

11" surface hole to 85'

(83'8" of 8 5/8" casing installed with 16 sacks of Portland Type 1)

6.75" borehole to 1779'

Drilling Commenced: Drilling Completed:

August 23, 2003 August 20, 2003

Electric Log Program:

(OH) None

(CH)

Current Status:

 $4\frac{1}{2}$ " Production casing installed

AP1. 15-019-26608

KANSAS CORPORATION COMMISSION

Jones & Buck Development September 5, 2003 Page 2

NOV 13 2003

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This geological report concludes wellsite supervision and sample examination on the above referenced test well. The well was drilled to a total depth (TD) of 1779' with air rotary tools to test various sandstone formations, the Mulky and Summit shales within the Oswego Limestone, the Cherokee Section "coals" and the Mississippian Chat section. The drilling samples exhibited the development of several coals within the Cherokee Section which are described in the following lithology report. These coals are recommended for additional testing.

The estimated ground elevation of this well location is $990\pm$ feet from which all measurements were made. The depths mentioned below have not been correlated with the cased hole electric log. Only significant formations depths and information are mentioned below.

DEPTH (feet)	LITHOLOGY
0 - 600	No samples observed
639 – 712	Sandstone - No shows.
725 – 737	Sandstone - No shows.
738 – 775	Sandstone - No shows.
815	Gas Test #1 - "0" PSI.
842 - 858	Drum Limestone
864 – 910	Redd Sandstone - Fine to very fine grained, no significant shows.
890	Gas Test #2 - No significant shows.
915	Gas Test #3 - No significant shows.
1044 - 1061	False Cap and Lenapah Limestone
1061 - 1096	Wayside Sandstone zone - Gray to greenish, very fine grained to silty, no shows.
1096 - 1132	Altamont Limestone
1138 - 1196	Weiser Sandstone - Light gray, very fine grained, no shows from 1138 - 1177. Sandstone as above, fair fluorescence, slight odor, slight cut with acid from 1177 - 1196.

ADI. 15-019-26605-8012

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1240 - 1260	Pawnee Limestone - Good odor, some to good free oil, fair fluorescence towards top and middle.
1274 - 1285	Sandstone - No shows.
1335 - 1364	Higginsville (Oswego #1) Limestone - No significant shows.
1364 - 1371	Summit shale
1371 – 1394	Blackjack Creek (Oswego #2) Limestone - No shows.
1394 - 1401	Mulky shale
1401 - 1411	Breezy Hill (Oswego #3) Limestone - No shows.
1433 - 1434	Bevier Coal
1437 - 1439	Verdigris Limestone
1439 - 1440	Croweberg Coal interval - Black shale/coal.
1486 - 1487	Fleming Coal
1517	Gas Test $\#4$ - 20 PSI, $1/8$ " Orifice = 15 MCF.
1531 - 1532	Tebo Coal
1632 - 1633	Weir-Pittsburg Coal
1647 - 1650	Limestone
1664 - 1665	Dry Wood Coal
1679 - 1680	Rowe Coal
1687 – 1689	Rowe Coal
1730 - 1732	Riverton Coal
1770 - 1775	Burgess Sandstone interval - No shows.
1778 – 1779	Mississippi Chat - White chert, fresh, no shows

AP1. 15-019-2166-00-00

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1779

Drillers Total Depth.

Please feel free to contact me if you have any questions concerning this report.

Sincerely,

Thomas H. Oast

Geological Consultant

API. 15-09-26603-10-00

Operator



Well No.

Office Phone: (620) 879-5377 M.O.K.A.T. DRILLING



P.O. Box 590 Caney, KS 67333

Driller		Driller .	Driller	£.	Job No.				Operator
Chance		BILLY	G	Guerra	Constant of the Constant of th	Constitution of the Consti	: ::::::::::::::::::::::::::::::::::::	JONES & BOCK	G & SELVOI
Hammer No.		RI Gi No	Cement Used	83' 8" 8,5/8"	Casing Used			OCA	IICE
	REC DV 1 C W	3	VE. 200: HIT) A		CHAUTAUQUA	County	2	Well No.
				Bit No.		QUA			_
		6 3/4"		Type size	Bit Record	KS	State	BRUEN	Lease
				From	a.		Туре/Well		Loc.
				To I			٥		14
				Bit No.		1779'	Depth		1/4
				type			Hours		1/4
				Size	Coring				Se
				From	Coring Record	8/23/03	Date Started	25	ec.
				To % Rec.		8/26/03	Date Completed	33 12	Sec. Twp. Rge,

Formation Record

702	639	585	1560	550	526	511	509	508	491	490	454	441	417	408	314	220	200	154	108	107	95	83	72	70	68	63	50	46	F	0	From
706	702	639	585	560	550	526	511	509	508	491	490	454	441	417		408	220	200	154	108	107	95	83	72	70	68	63	50	46	F	oT o
SANDY SHALE	SAND	SHALE	SANDY SHALE	LIMEY SHALE	SHALE	SAND	BLK SHALE	I.IME	SHALE	LIME	SHALE	SAND	SHALE	LIME	WENT TO WATER	SHALE	SANDY SHALE	SAND (DAMP)	SHALE	LIME	BLK SHALE	SANDY SHALE	SAND	SHALE		SANDY SHALE		SANDY SHALE	SAND	DIRT	Formation
1260	1243	1240	1196	1188	1177	1172	1138	1132	1109	1106	1096	1061	1041	1020	1012	920	910	915	890	872	864	858	842	815	775	738	737	725	712	706	From
1274		1260	1240		1196	1177	11172	1138	1132	1109	110%	1096	1061	1041	1020	201	920			910	872	864	858		842	775	738	737	725	712	To
SHALE	OIL ODOR	LIME (PAWNEE)	SANDY SHALE	LIGHT OIL ODOR	SAND	SHALE	SAND	SHALE	LIME	LIMEY SHALE	LIME (ALTAMONT)	SHALE	LIME (LENAPAH)	SHALE	LIMEY SHALE	SHALE	SANDY SHALE	GAS TEST SAME	GAS TEST TOO LITTLE TO TEST	SAND REDD LIGHT OIL SHOW	SANDY SHALE	BLK SHALE	LIME	GAS TEST (NO GAS)	SHALE	SAND	COAL	SAND	SHALE	SAND	Formation
1633	1632	1607	1578	1569	1564	1532	1531	1517	1502	1499	1492	1487	1486	1460	1445	1440	1439	1437	1434	1433	1411	1401	1394	1371	1364	1335	1300	1290	1285	1274	From
1647	1633	1632	1607	1578	1569	1564	1532		1531	1502		1499	1487	1486	1460	1445	1440	1439	1437	1434	1433	1411	1401	1394	1371	1364	1335	1300	1290	1285	То
	BLK SHALE, COAL?	SHALE	SANDY SHALE	SAND	BLK SHALE	SHALE	AI.	GAS TEST 20# 1/8"	SHALE	Æ	GAS TEST (LITTLE GAS)	SHALE	COAL	SHALE	SAND	SHALE	BLK SHALE, COAL?		SHALE	COAL (IRON POST)	SHALE	LIME	BLK SHALE (MULKY)	LIME	BLK SHALE (SUMMIT)	LIME (OSWEGO)	SHALE	SAND	SANDY SHALE	SAND	Formation
																			1778	1767	1731	1730	1689	1688	1680	1679	1665	1664	1650	1647	From
П																			1779	1778	1767	1731	1730	1689	1688	1680	1679	1665	1664		70
																	T.D. 1779'		I.IME (MISS)	SAND	SHALE	COAL (RIVERTON)	SHALE	COAL	LIMEY SHALÉ	COAL (ROWE)	SHALE	COAL	BLK SHALE	LIME	Formation

API.15-019-26603-00-00