

00-01

ORIGINAL

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

API NO. 15- 091-01000-0000

County Johnson

C - NW - NE Sec. 3 Twp. 13S Rge. 23 X E W

4620 Feet from (S) N (circle one) Line of Section

1980 Feet from (E) W (circle one) Line of Section

Footages Calculated from ~~Nearest~~ Outside Section Corner:
NE, (SE) NW or SW (circle one)

Lease Name Craig Storage Well # O-21B

Field Name Craig Storage Field

Storage ~~Producing~~ Formation Bush City Sand

Elevation: Ground 1021' KB N/A

Total Depth 706' PBDT 691'

Amount of Surface Pipe Set and Cemented at N/A Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set N/A Feet

If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan REWORK JH 5-22-96
(Data must be collected from the Reserve Pit)

Chloride content N/A ppm Fluid volume _____ bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name N/A

Lease Name _____ License No. _____

_____ Quarter Sec. _____ Twp. _____ Rge. _____ E/W

County _____ Docket No. _____

Operator: License # 9362

Name: Williams Natural Gas Co.

Address: P.O. BOX 580

City/State/Zip Welda KS 66091

Purchaser: N/A

Operator Contact Person: Thomas Cook

Phone (913) 448-2442

Contractor: Name: Williams Natural Gas Co.

License: 9362 1683

Wellsite Geologist: Thomas Cook

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)
 Storage Observation Well

If Workover:

Operator: Williams Natural Gas Co.

Well Name: Craig Storage (Markiewich)

Comp. Date 11/11/38 Old Total Depth 677'

RAN 4 1/2 inch liner

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBDT

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

2/5/96 3/6/96 3/13/96

SPUD Date OF Deepening Date Reached TD Completion Date of WORKOVER

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 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 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 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 Thomas W Cook

Title Storage Supervisor Date 3/20/96

Subscribed and sworn to before me this 20th day of MARCH, 19 96.

Notary Public Janet M. Thacker

Date Commission Expires 3-19-2000

JANET M. THACKER
Notary Public - State of Kansas
My Appt. Expires 3-19-2000

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached

C Wireline Log Received

C Geologist Report Received

Distribution

KCC SWD/Rep NGPA

KGS Plug Other (Specify)

Operator Name Williams Natural Gas Co. Lease Name Craig Storage Well # O-21B
 Sec. 3 Twp. 13S Rge. 23 East West
 County Johnson

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.)

List All E.Logs Run:
 Gamma Ray - Neutron
 Gamma Ray - Bond

Name	Formation (Top), Depth and Datums		Datum
	Top	Datum	
Lime	34' - 113'		
Shale	113' - 187'		
Lime/shale	187' - 267'		
Lime	273' - 311'		
Shale/Lime	311' - 490'		
Lime/Shale	490' - 629'		
Sand	629' - 640'		
Bush City Series	644' - 650'		
" " "	661' - 669'		
" " "	671' - 676'		

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	N/R	8 1/4"	N/R	25'	N/R	N/R	
Original Longstring	N/R	6 1/4"	"	596'	"	"	
New Longstring	6 1/8"	4 1/2"	10.5	702'	50/50 Poz	207	2% gel

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	644'-50', 661'-69', 672'-76'	250 gal 15%	

TUBING RECORD Size None Set At _____ Packer At _____ Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. Observation - 3/14/96 Producing Method N/A Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	N/A	N/A	N/A		

Disposition of Gas: N/A METHOD OF COMPLETION N/A Production Interval _____

Vented Sold Used on Lease (If vented, submit ACO-18.) Open Hole Perf. Dually Comp. Commingled

Other (Specify) Storage Field Observation

CONSOLIDATED INDUSTRIAL SERVICES, INC.
 211 W. 14TH STREET, CHANUTE, KS 66720
 316-431-9210 or 800-467-8676

ORIGINAL

TICKET NUMBER 2460

LOCATION Ottawa, Ks.

FOREMAN Jim Green

TREATMENT REPORT

DATE	CUSTOMER ACCT #	WELL NAME	QTR/QTR	SECTION	TWP	RGE	COUNTY	FORMATION
3-7-96	8930	#0-21B Craig		3	13	23	SO.	
CHARGE TO <u>Williams Natural Gas</u>				OWNER				
MAILING ADDRESS <u>Box 580</u>				OPERATOR <u>Tom Cook</u>				
CITY <u>Welda</u>				CONTRACTOR <u>Company Tool</u>				
STATE <u>Ks.</u>		ZIP CODE <u>66091</u>		DISTANCE TO LOCATION <u>40</u>				
TIME ARRIVED ON LOCATION <u>2:30 PM</u>				TIME LEFT LOCATION <u>5:30 PM</u>				

WELL DATA	
HOLE SIZE	<u>6 1/2" and up</u>
TOTAL DEPTH	<u>205'</u>
CASING SIZE	<u>4 1/2"</u>
CASING DEPTH	<u>200'</u>
CASING WEIGHT	
CASING CONDITION	
TUBING SIZE	
TUBING DEPTH	
TUBING WEIGHT	
TUBING CONDITION	
PACKER DEPTH	
PERFORATIONS	
SHOTS/FT	
OPEN HOLE	
TREATMENT VIA	

TYPE OF TREATMENT	
<input type="checkbox"/> SURFACE PIPE	<input type="checkbox"/> ACID BREAKDOWN
<input checked="" type="checkbox"/> PRODUCTION CASING	<input type="checkbox"/> ACID STIMULATION
<input type="checkbox"/> SQUEEZE CEMENT	<input type="checkbox"/> ACID SPOTTING
<input type="checkbox"/> PLUG & ABANDON	<input type="checkbox"/> FRAC
<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> FRAC + NITROGEN
<input type="checkbox"/> MISC PUMP	<input type="checkbox"/> FOAM FRAC
<input type="checkbox"/> OTHER	<input type="checkbox"/> NITROGEN

PRESSURE LIMITATIONS		
	THEORETICAL	INSTRUCTED
SURFACE PIPE		
ANNULUS LONG STRING		
TUBING		

INSTRUCTIONS PRIOR TO JOB

JOB SUMMARY
 DESCRIPTION OF JOB-EVENTS Establish circulation run flush with H₂O mix cement (20% ca) 570 Per 20% Gel pump plug set float cement to surface.

RECEIVED
 KANSAS CORPORATION COMMISSION

PRESSURE SUMMARY	
BREAKDOWN or CIRCULATING	psi
FINAL DISPLACEMENT	psi
ANNULUS	psi
MAXIMUM	psi
MINIMUM	psi
AVERAGE	psi
ISIP	psi
5 MIN SIP	psi
15 MIN SIP	psi

TREATMENT RATE	
BREAKDOWN BPM	
INITIAL BPM	
FINAL BPM	
MINIMUM BPM	
MAXIMUM BPM	
AVERAGE BPM	
HYD HHP = RATE x PRESSURE x 40.8	

AUTHORIZATION TO PROCEED _____ TITLE _____ DATE MAY 22 1996

ALL THE TERMS AND CONDITIONS STATED ON THE REVERSE SIDE ARE INCORPORATED AS PART OF THIS SALE.

NSC# 15100

CONSOLIDATED INDUSTRIAL SERVICES, INC.
 211 W. 14TH STREET, CHANUTE, KS 66720
 316-431-9210 OR 800-467-8676

TICKET NUMBER **3155**
 LOCATION Ottawa, Ks.

FIELD TICKET ORIGINAL

DATE	CUSTOMER ACCT #	WELL NAME	QTR/QTR	SECTION	TWP	RGE	COUNTY	FORMATION
3-7-96	8930	021B Craig		3	13	23	JO.	
CHARGE TO <u>Williams Natural Gas</u>				OWNER				
MAILING ADDRESS <u>Box 580</u>				OPERATOR <u>Toot Cook</u>				
CITY & STATE <u>Welda, Ks. 66091</u>				CONTRACTOR <u>Company Tool</u>				

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	UNIT PRICE	TOTAL AMOUNT
5402	-1	PUMP CHARGE		475. ⁰⁰
		HYDRAULIC HORSE POWER		
1118	4.50	Premium Gal	10. ⁰⁰	40. ⁰⁰
4404	1	4 1/2" Rubber	25. ⁰⁰	25. ⁰⁰
		Tax	6.49%	93.58
		STAND BY TIME		
5502		MILEAGE		
5502	4 hrs	WATER TRANSPORTS	48. ⁰⁰	192. ⁰⁰
		VACUUM TRUCKS		
		FRAC SAND		
5407	207.50	CEMENT 50# Per Mix.	6.75	1397. ²⁵
		NITROGEN		
5407	351.9	TON-MILES	.75	264. ⁰⁰
ESTIMATED TOTAL				2486.83

NSCO #15097

CUSTOMER or AGENTS SIGNATURE

RECEIVED FOREMAN Jim Green

KANSAS CORPORATION COMMISSION

CUSTOMER or AGENT (PLEASE PRINT)

DATE

MAY 22 1996

CONSERVATION DIVISION
 WICHITA, KS

150343



CONSOLIDATED INDUSTRIAL SERVICES

AN INFINITY COMPANY

211 W. 14th, P.O. Box 884 Chanute, KS 66720 • 316/431-9210 • 1-800/467-8676

PAGE 1

INVOICE DATE	INVOICE NO.
03/15/96	00150343

TL

S
O 8930
L WILLIAMS NATURAL GAS
D BOX 580
T WELDA KS 66091
O

TERMS: Net 30 Days
A Finance Charge computed at 1% per month (annual percentage rate of 12%) will be added to balances over 30 days.

PLEASE REFER TO THIS ACCOUNT NUMBER WHEN MAKING INQUIRIES

ACCOUNT NO.	P.O. NO.	LOCATION	LEASE AND WELL NO.	DATE OF JOB	JOB TICKET NO.		
8930		20	CRAIG # 0-21B	03/07/1996	3155		
ITEM NUMBER			DESCRIPTION	UNITS	UNIT PRICE	UNIT MEAS	EXTENDED PRICE
5402			PRODUCTION CASING	1.0000	475.0000	EA	475.00
1118			PREMIUM GEL	4.0000	10.0000	SK	40.00
4404			4 1/2" RUBBER PLUG	1.0000	25.0000	EA	25.00
5502			80 BBL VACUUM TRUCK	4.0000	48.0000	HR	192.00
1124			50/50 POZ CEMENT MIX	207.0000	6.7500	SK	1397.25
			BULK CEMENT DELIVERY/MIN. BULK DEL	1.0000	264.0000	EA	264.00

RECEIVED
KANSAS CORPORATION COMMISSION

MAY 22 1996

CONSERVATION DIVISION
WICHITA, KS

Pay On Approval
1-83200-29-204
3-22-96

Michael J. [Signature]

TL

ORIGINAL

ISS INVOICE	TAX	REMITTANCE COPY		PLEASE PAY
2393.25	93.58			2486.83

Thank You!