

MAR 19 1991

SIDE ONE

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

API NO. 15- 151-21,944-00-00

County Pratt

NW NE SW Sec. 2 Twp. 27 Rge. 12 X East West

2310 Ft. North from Southeast Corner of Section

3630 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

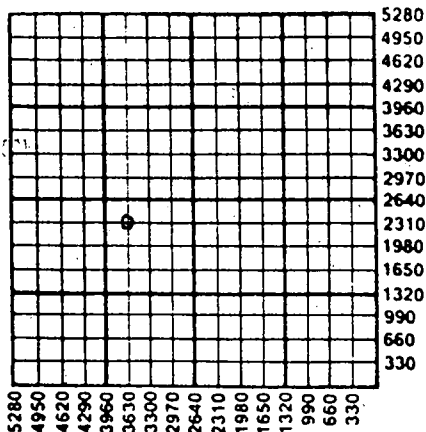
Lease Name Haas Well # 2

Field Name Stead-South

Producing Formation Mississippian

Elevation: Ground 1865' KB 1870'

Total Depth PBD



Amount of Surface Pipe Set and Cemented at 385 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set Feet

If Alternate II completion, cement circulated from

feet depth to w/ sx cmt.

Operator: License # 09582

Name: Studer Oil Company

Address Box 925

City/State/Zip Pratt, Ks 67124

Purchaser: N/A

Operator Contact Person: Billy Studer

Phone (316) 656-4051

Contractor: Name: Boger Bros. Drilling Inc.

License: 9421

Wellsite Geologist: Scott Alberg

Designate Type of Completion

X New Well Re-Entry Workover FEB 15 1991

X Oil SWD Temp. Abd.

X 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:

X Mud Rotary Air Rotary Cable

08/25/89 09/03/89 09/22/89

Spud Date Date Reached TD Completion Date

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.

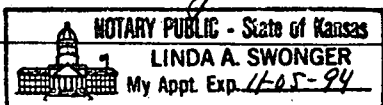
Signature Billy D. Studer

Title President, Billy D. Studer Date 10/09/89

Subscribed and sworn to before me this 18th day of MARCH, 19 91.

Notary Public Linda A. Swonger

Date Commission Expires:



11-05-94

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)

P1

SIDE TWO

Operator Name Studer Oil Company Lease Name Haas Well # 2

Sec. 2 Twp. 27 Rge. 12 East West
 County PRATT

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.)

Dst #1 4143-4196, 30-60-45-90,
 (Mississippian), Rec. 680' GIP,
 50' Oil Specked Mud, IHP 2063,
 IFP 81-81, ISIP 765, FFP 81-81,
 FSIP 1023, FHP 2024

Dst #2 4425-4462 Non Commercial

Formation Description		
Name	Top	Bottom
Heebner	3504	(-1634)
Toronto	3518	(-1648)
Douglas Shale	3544	(-1674)
Brown Lime	3684	(-1814)
Lansing	3697	(-1827)
B/KC	4051	(-2181)
Mississippian	4138	(-2268)
Viola	4342	(-2472)
Simpson Shale	4430	(-2560)
Arbuckle	4529	(-2659)
	4611	(-2741)

CASING RECORD L.T.P. 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	10 3/4"		385	40/60	300	3% Gel
Production	7 7/8	5 1/2"	14#	4567	50/50Poz	175	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
2	4517-4527	150 Gal. MCA	
4	4148-4158		
2	4157-4177	1500 15% DSFE	
	Plug @ 4509		

TUBING RECORD Size N/A Set At _____ Packer At _____ Liner Run Yes No

Date of First Production N/A 1/90 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
<u>2 BBL</u>	<u>2</u> N/A	<u>25</u> N/A	<u>8</u>		<u>41</u>

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 4148
4177

S SIDE ONE

10/25/90

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY

DESCRIPTION OF WELL AND LEASE

Operator: License # 09582
Name Studer Oil Company
Address Box 925
City/State/Zip Pratt, KS. 67124

Operator Contact Person Billy Studer
Phone (316) 672-7571

Contractor: License # 9421
Name Boger Bros. Drilling, Inc.

Wellsite Geologist Scott Alberg
Phone (316) 672-5729

PURCHASER: N/A

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)

If OWNO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable

08/25/89 09/03/89 09/22/89
Spud Date Date Reached TD Completion Date

4611' 4512'
Total Depth PBD

Amount of Surface Pipe Set and Cemented at 385 feet

Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set feet

If alternate 2 completion, cement circulated
from feet depth to w/ SX cmt

API NO. 15-151-21,944-00-00

County Pratt

NW NE SW Sec. 2 Twp. 27 Rge. 12 East West

2310 Ft North from Southeast Corner of Section
3630 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

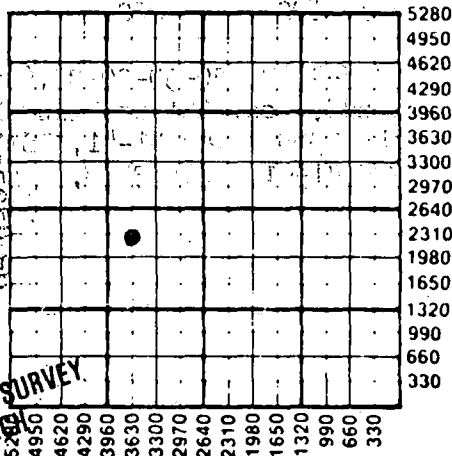
Lease Name Haas Well # 2

Field Name Stead-South

Producing Formation Mississippian

Elevation: Ground 1865' KB 1870'

Section Plat



OCT 25 1989
OCT 30 1989
KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

ALT 1-22-91

WATER SUPPLY INFORMATION

Source of Water:
Division of Water Resources Permit # 89-395

Groundwater 2100 Ft North from Southeast Corner (Well) 3600 Ft West from Southeast Corner of Sec 2 Twp 27 Rge 12 East West

Surface Water Ft North from Southeast Corner (Stream, pond etc) Ft West from Southeast Corner Sec Twp Rge East West

Other (explain) (purchased from city, R.W.D.#)

Disposition of Produced Water: Disposal Repressuring

Docket #

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 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.

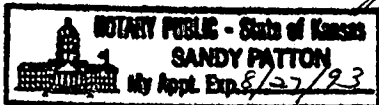
One copy of all wireline logs and drillers time log shall be attached with this form. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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 Billy D. Studer
Title Pres. Date 10/09/89

Subscribed and sworn to before me this 23rd day of October 1989

Notary Public Sandy Patton
Date Commission Expires August 27, 1993



K.C.C. OFFICE USE ONLY
 Letter of Confidentiality Attached
 Wireline Log Received
 Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

Operator Name **Studer Oil Co.** Lease Name **Haas** Well# **2** SEC. **2** TWP. **27** RGE. **12** East West

WELL LOG

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
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

Dst #1 4143-4196, 30-60-45-90,
 (Mississippian), Rec. 680' GIP,
 50' Oil Specked Mud, IHP 2063,
 IFP 81-81, ISIP 765, FFP 81-81,
 FSIP 1023, FHP 2024

Dst #2 4425-4462, 30-30-30-30, (Simpson
 Sand), Rec. 10' Drilling Mud,
 IHP 2360#, IFP 41-41, ISIP 705#
 FFP 41-41, FSIP 385#, FHP 2261#

Name	Top	Bottom
Heebner	3504	(-1634)
Toronto	3518	(-1648)
Douglas Shale	3544	(-1674)
Brown Lime	3684	(-1814)
Lansing	3697	(-1827)
B/KC	4051	(-2181)
Mississippian	4138	(2288)
Viola	4342	(-2472)
Simpson shale	4430	(-2560)
Arbuckle	4529	(-2659)
L.T.D.	4611	(-2741)

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	10 3/8	14.3	385	40/60	300	3% Gel
Production	7 7/8	5 1/2	14#	4567	50/50 Poz	175	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
2	4517-4527	150 Gal. MCA	
44	4148-4158		
2	4157-4177	1500 15% DSFE	

TUBING RECORD	Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No
	N/A				

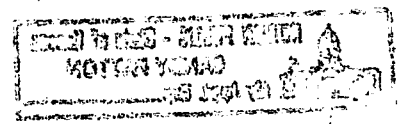
Date of First Production	Producing Method
N/A	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
N/A	N/A Bbls	N/A MCF	N/A Bbls	CFPB	

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify)
 Used on Lease Dually Completed
 Commingled





ACOUSTIC CEMENT BOND LOG

BOND LOG

COMP. <u>STUDER OIL, INC.</u> WELL <u>HAAS NO. 2</u> FIELD <u>STEAD SOUTH</u> COUNTY <u>PRATT</u>	ST. KANSAS		COMPANY <u>STUDER OIL, INC.</u>				
	ST. KANSAS		WELL <u>HAAS NO. 2</u>				
	ST. KANSAS		FIELD <u>STEAD SOUTH</u>				
	ST. KANSAS		COUNTY <u>PRATT</u> STATE <u>KANSAS</u>				
	ST. KANSAS		API NO. <u>15-151-21,944</u> OTHER SERVICES LOCATION <u>NW-NW-SW</u> PERF				
ST. KANSAS		SEC. <u>2</u> TWP. <u>27S</u> RGE. <u>12W</u>					
PERMANENT DATUM		GROUND LEVEL		ELEV. <u>1865</u>			
LOG MEASURED FROM		<u>5</u> FT. ABOVE PERM. DATUM		ELEV.: K.B. <u>1870</u>			
DRILLING MEASURED FROM		KELLY BUSHING		D.F. <u>1867</u> G.L. <u>1865</u>			
DATE & TIME LOGGED	<u>09/18/89</u>	TYPE OF FLUID IN HOLE		<u>WATER</u>			
RUN NO.	<u>ONE</u>	DENSITY OF FLUID		<u>NA</u>			
DEPTH - DRILLER	<u>NA</u>	FLUID LEVEL		<u>FULL</u>			
DEPTH - WELEX	<u>4521</u>	CEMENT TOP EST. - LOGGED		<u>NA 3420</u>			
BTM. LOGGED INTERVAL	<u>4510</u>	EQUIPMENT : LOCATION		<u>4544</u> <u>GT. BEND</u>			
TOP LOGGED INTERVAL	<u>3230</u>	RECORDED BY		<u>FRANK MAYERS</u>			
MAX TEMP. DEGREE	<u>122</u>	WITNESSED BY		<u>MR. STUDER</u>			
CEMENTING DATA		SURFACE STRING	PROTECTION STRING	PRODUCTION STRING	LINER		
DATE/TIME CEMENTED							
PRIMARY/SQUEEZE		RECEIVED		PRIMARY			
EXPECTED COMP. STRENGTH		KANSAS CORPORATION COMMISSION					
CEMENT VOLUME		NO INFO AVAIL.					
CEMENT TYPE/WEIGHT FORMULATION		JAN 16 1992					
MUD TYPE/MUD WEIGHT		CONSERVATION DIVISION WICHITA, KS					
RUN NO.		BOREHOLE RECORD		CASING AND TUBING RECORD			
	BIT	FROM	TO	SIZE	WGT.	FROM	TO
<u>ONE</u>	<u>12.25</u>	<u>0</u>	<u>385</u>	<u>8.625</u>		<u>0</u>	<u>385</u>
<u>TWO</u>	<u>7.875</u>	<u>385</u>	<u>4610</u>	<u>5.5</u>		<u>0</u>	<u>NA</u>