

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 # 04826
Name Natrona Resources Group, Inc.
Address Box 80
Preston, KS 67569

Purchaser Inland Purchasing

Operator Contact Person Bill Studer
Phone 316 6564361

Contractor: License # 5229
Name Duke Drilling, Inc.

Wellsite Geologist Bruce Ard
Phone

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

If OWWO: old well info as follows:
Operator Natrona Resources Group, Inc.
Well Name L.E. Studer #1
Comp. Date 01/22/86 Old Total Depth 4477

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable

03/20/85 03/28/85 01/22/86
Spud Date Date Reached TD Completion Date
4480 4177
Total Depth PBTD
re-entry

Amount of Surface Pipe Set and Cemented at 287 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. 15-151-21-592-0001
County Pratt
NW NW NE Sec. 8 Twp. 27S Rge. 12 East West

4950 Ft North from Southeast Corner of Section
2310 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

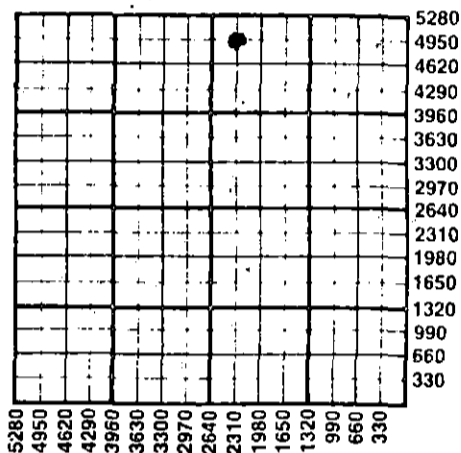
Lease Name L.E. Studer Well # 1

Field Name Unnamed

Producing Formation Mississippian

Elevation: Ground 1873 KB 1878

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal Repressuring
Docket #

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit #

Groundwater.....Ft North from Southeast Corner
(Well)Ft West from Southeast Corner of
Sec Twp Rge 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. #)

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 [Signature]
Title Pres. Date 02/10/86

Subscribed and sworn to before me this 10th day of February, 1986
Notary Public Teresa A. George

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
 KGS Plug Other
(Specify)

Sec. 8, Imp. 7, Rge. 12, W. 12

SIDE TWO

Operator Name Natrona Resources Group, Inc. Lease Name L.E. Studer Well # 1

Sec. 8 Twp. 27S Rge. 12 East West County Pratt

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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 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	Formation Description <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample																								
DST#1 (KC) 3902-3932-60,60,60,60. IFP 72-104, ICIP 1277, FFP 170-208, FCIP 1277 REC. 420' MW	<table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Bottom</th> </tr> </thead> <tbody> <tr><td>Heebner</td><td>3512(-1634)</td><td></td></tr> <tr><td>Douglas</td><td>3550(-1672)</td><td></td></tr> <tr><td>Lansing</td><td>3704(-1826)</td><td></td></tr> <tr><td>Miss.</td><td>4138(-2260)</td><td></td></tr> <tr><td>Viola</td><td>4233(-2355)</td><td></td></tr> <tr><td>Simp Sd.</td><td>4343(-2465)</td><td></td></tr> <tr><td>Arbuckle</td><td>4418(-2540)</td><td></td></tr> </tbody> </table>	Name	Top	Bottom	Heebner	3512(-1634)		Douglas	3550(-1672)		Lansing	3704(-1826)		Miss.	4138(-2260)		Viola	4233(-2355)		Simp Sd.	4343(-2465)		Arbuckle	4418(-2540)	
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Viola	4233(-2355)																								
Simp Sd.	4343(-2465)																								
Arbuckle	4418(-2540)																								
DST#2 (MISS) 4098-4193-60,60,60,60. IFP 104-104, ICIP 1190, FFP 156-156, FCIP 1091. REC. 60" Mud, 240' SOGCM																									
DST#3 (SIMP) 4336-4412-60,60,60,60. IF Strong Blow Throughout, IFP 260-624. ICIP 1039. FFP 727-883. FCIP 1039. REC. 120' VSCWM, 1880' SW																									

CASING RECORD <input 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	8 5/8			287			
Production	NA						
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/Ft	4140-4160			750 GL 15% DSFE Frac w/29,500# 20/40 w/30,500# 10/20		4160	
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production		Producing Method					
01/22/86		<input type="checkbox"/> Flowing <input checked="" 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		
	25 Bbls	50 MCF	50 Bbls		CFPB		

METHOD OF COMPLETION Production Interval

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

Dually Completed
 Commingled
 IN HOLD A ACCOUNT

RECEIVED
 STATE CORPORATION COMMISSION
 FEB 13 1986
 CONSERVATION DIVISION
 Wichita, Kansas

Schlumberger

MOVED DIL LITHOLOGY CYBERLOOK

CSU

Field Log

COMPANY: LEASING & DEVELOPMENT INCORPORATED

WELL: STUDER #1

FIELD:
COUNTY: PRATT
STATE: KANSAS
NATION: USA
LOCATION: NW-NW-NE

SEC: 8 TWP: 27 S RGE: 12 W

PERMANENT DATUM: GROUND LEVEL ELEVATIONS-
ELEY. OF PERM. DATUM: 1873.0 F - KB: 1878.0 F
LOG MEASURED FROM: KB DF: 1876.0 F
5.0 F ABOVE PERM. DATUM GL: 1873.0 F
DRLG. MEASURED FROM: KBDATE: 28 MAR 85
RUN NO: 1DEPTH-DRILLER: 4480.0 F
DEPTH-LOGGER: 4477.0 F
BTM. LOG INTERVAL: 4454.0 F
TOP LOG INTERVAL: 2400.0 FCASING-DRILLER: 287 F
CASING-LOGGER: 287 F
CASING: 8 5/8"

BIT SIZE: 7 7/8"

RECEIVED
FIELD LOG
MAY 10 1985

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 # 9158
Name Case Oil & Gas, Inc.
Address 110 S. Main
P.O. Box 8564
Pratt, KS 67124
City/State/Zip

Operator Contact Person Stan Case
Phone (316) 672-9347

Contractor: License # 5829
Name Aldebaran Drilling Co., Inc.

Wellsite Geologist Michael W. Bair
Phone (913) 483-6393

PURCHASER Koch Oil Co.
Wichita, KS

Designate Type of Completion
 New Well Re-Entry Workover

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

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

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable

11-04-85 11-15-85 12-31-85
Spud Date Date Reached TD Completion Date
4388 4388
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 400 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. 15-151-21,736 - 00-00

County Pratt

E/2 SE NE 8 27S 12
Sec Twp Rge East West

3300 Ft North from Southeast Corner of Section
330 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

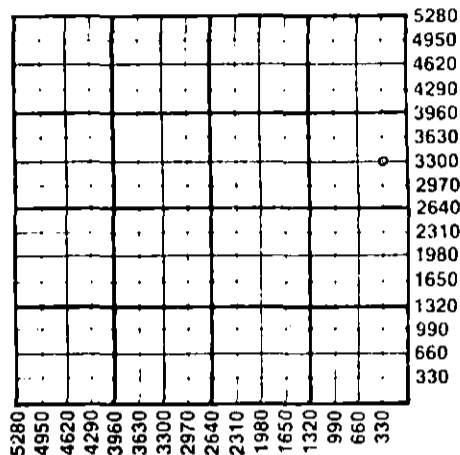
Lease Name Grizzly Well # 1

Field Name Grimes

Producing Formation Mississippi

Elevation: Ground 1846 KB 1855

Section Plat



WATER SUPPLY INFORMATION

Source of Water:
Division of Water Resources Permit #

Groundwater Ft North from Southeast Corner (Well) Ft West from Southeast Corner Sec Twp Rge 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.

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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 [Signature]

Title Controller Date 1-17-86

Subscribed and sworn to before me this 17th day of January 1986

Notary Public Joyce Parker
Date Commission Expires May 7, 1988



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)

RECEIVED Form ACO-1 (7-84)
STATE CORPORATION COMMISSION

JAN 21 1986

SIDE TWO

Operator Name Case Oil & Gas, Inc. Lease Name Grizzly Well # 1 SEC. 8 TWP. 27S 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

	Name	Top	Bottom
DST #1: 3919-3950; 45-45-35-66; First Flow 55/73; Second Flow 95/106. SIP - 995/1063, Hydrostatic 1952/1914, Temp 114°F, Rec. 300' Gas above fluid, 60' Slightly oil cut mud, 120' Oil cut mud.	Indian cave	2672	
	Brown Lm	3668	
DST #2: 4099-4155; Misrun, Plugged Tool. Rec 480' mud.	Lansing	3684	
	BKC	4035	
DST #3: 4086-4185; Misrun. Packer Seat Failure	Miss	4130	
	Kinderhook	4262	
DST #4: 3999-4185; 45-63-55-93; First Flow 256/341, Second Flow 416/458, ISIP 1162 FSIP 1041, Hydrostatic 2101/2043, Temp 116°F. Recovered 120' mud, 240' mud w/ oil specks, 330' gassy mud w/few oil specks. Lost circ. in zone before test.	Viola	4274	
	Simp Sh	4338	
	Simp Sd	4343	
	TD	4388	

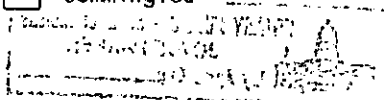
CASING RECORD <input checked="" type="checkbox"/> New & <input checked="" type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs/Ft.	Setting Depth	Type of Cement	#Sacks Used	Type and Percent Additives
SURFACE	14 3/4"	10 3/4"	40.5#	400		325	3% cc 2% gel
SURFACE	9 1/2"	8 5/8"	23 #	1000			
PRODUCTION	7 7/8"	5 1/2"	14 #	4380	Shurfill	85	10% salt 1/2# oil/sk
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)			Depth
	SEE ATTACHED						
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Size	Set At	Packer at					
2 7/8"	4282'						
Date of First Production	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....						
1-04-86							
Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio		Gravity	
	25 Bbls	100 MCF	20 Bbls	CFPB			

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) 4135-42
 Used on Lease

Dually Completed
 Commingled



Shots Per Foot	Interval Perforated	Acid, Fracture, Etc. . .
4	4134-44, 4150-59	1000' gal. 15% DSFE
2	4281-83	
2	4344-46	
4	4086-88	
4	4090-92	
4	4096-4100	
2	4137-40	Stressfrac Stimulation
4	4135-37, 4140-42	500 gal. 20% DSFE; My-t-gel Frac

RECEIVED
 STATE CORPORATION COMMISSION
 JAN 21 1986
 CONSERVATION DIVISION
Wichita, Kansas