

DESCRIPTION OF WELL AND LEASE

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Operator: License # 5886 .....
Name CHIEF DRILLING CO., INC. ....
Address 151 N. MAIN #700 .....
WICHITA KS. 67202 .....
City/State/Zip .....
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Purchaser.....NA.....

Operator Contact Person ..F.W. SHELTON, JR.
Phone316-262-3791.....

Contractor: License # 5883
Name WARRIOR DRILLING CO.

Wellsite Geologist.....Mitch Allen
Phone.....316-262-3791

Designate Type of Completion

<u>X</u> New Well	<u> </u> Re-Entry	<u> </u> Workover
<u> </u> Oil	<u> </u> SWD	<u> </u> Temp Abd
<u> </u> Gas	<u> </u> Inj	<u> </u> Delayed Comp.
<u>X</u> Dry	<u> </u> Other (Core, Water Supply etc.)	

If OWWO: old well info as follows:

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Operator .....
Well Name .....
Comp. Date .....Old Total Depth.....
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WELL HISTORY

Drilling Method:

X	Mud Rotary	Air Rotary	Cable
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11-27-87..	..12-08-87..	..12-08-87..
Spud Date	Date Reached TD	Completion Date
4660 RTD	NA	
.....		
Total Depth	PBTD	

Amount of Surface Pipe Set and Cemented at.....feet ^{262'}
Multiple Stage Cementing Collar Used? Yes X No
If yes, show depth set.....feet
If alternate 2 completion, cement circulated
from.....feet depth to.....w/.....SX cmt
Cement Company Name
Invoice #

SIDE ONE

API NO. 15-...0.63-21,170.....

County.....Gove.....

NW..NE..NW..... Sec..6.. Twp11S.Rge.30W. XWest

...4950.. Ft North from Southeast Corner of Section
...3630.. Ft West from Southeast Corner of Section

(Note: Locate well in section plat below)

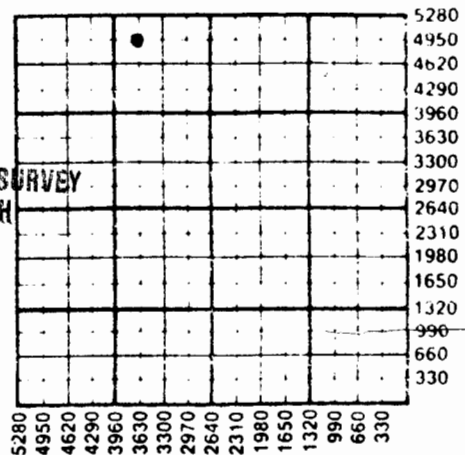
Lease Name... WOLF Well # 1

Field Name.....

Producing Formation.....NA.....

Elevation: Ground...2954.....KB...2959.....

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: _____ Disposal
Docket # Repressuring

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

X Surface Water.....Ft North from Southeast Corner
(Stream, pond etc).....Ft West from Southeast Corner
NW/4 Sec 31 Twp 10S Rge 30 East X West

NW/4 Sec 31 Twp 10SRge-30 East X West

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

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 slide 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 F.W. SHELTON, JR.,
Title..... VICE PRESIDENT Date 12-15-87

Subscribed and sworn to before me this 15th day of Dec. 1987.
Notary Public Martha E. Gustin

Date Commission Expires MARTHA E. GUSTIN 4-15-89

mission Expires **JAMES E. GUSTIN...**
NOTARY PUBLIC
STATE OF KANSAS

MY APPT. EXPIRES 4-15-84

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)

Form ACO-1 (5-86)

Sec. 6. Tw. 11. Roe. 300

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

Operator Name CHIEF DRILLING CO., INC. Lease Name..... WOLF Well #..... 1

Sec..... 6 Twp..... 11S... Rge..... 30.... ☐ East
☒ West County..... GOVE

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

11-27-87 Rigged up, spudded in @ 1:00 pm, ran 253' new 20# 8 5/8" csg. 6 jts. set @ 262' cem w/180 sks 60/40 posmix 3% cc 2% gel, plug down @ 7:30 pm,
11-28-87 Drilling @ 400' stuck @ 1591' 9:00 pm
11-29-87 Spotted oil, backed off, washed over
11-30-87 Finished washing over preparing to drill
12-01-87 Drilling @ 2385'
12-02-87 Drilling @ 3120'
12-03-87 Drilling @ 3670'
12-04-87 DST #1 4029-4054 (Lans. 35'z) 30-30-60-60 IF: St. bl, FF: st bl. Rec. 900' W, w/ few spots of O, chlor. 87,000 ppm, IBHP: 1192#, FBHP: 1164#, IFP: 89-267 FFP: 330-580, DST #2 4070-4100 (Lans. 70' z) 30-30-30-30 IF: wk bl died 10" Rec. 2' M, IBHP: 580#, FBHP: 35# IFP: 35-35 FFP: 35-35
12-05-87 DST #3 4203-4235 (Lans. 180'z) 30-30-30 -30 IF: wk bl died 17", Rec. 5' M, w/cup of O on top, IBHP: 89#, FBHP: 57#, IFP: 89-89 FFP: 62-62
12-06-87 Drilling @ 4275'
12-07-87 Drilling @ 4495' DST #4 4400-4525, (Paw. Ft. Scott) 30-30-30-30 IF: wk bl died Rec. 15' M w/1 ft. oil on top, IBHP: 553#, FBHP: 446#, IFP: 80-80 FFP: 80-80 TD. 4660' Plugged w/25 sks @ 2520', 100 sks @ 1600', 40 sks @ 300', 10 sks @ 40' 15 sks RH, 190 sks total 60/40 posmix 6% gel, Dale Balthazor State Plugger District #1 Started @ 9:15 pm, Completed @ 12:15 am. Final Report

Formation Description

☒ Log ☒ Sample

Name	Top	Bottom
FORMATION TOPS:		
Anhydrite	2498 +	461
Base Anhydr.	2526 +	433
Heebner	3966 -	1007
Lansing	4003 -	1044
Muncie Cr.	4147 -	1188
Stark	4231 -	1272
BKC	4289 -	1330
Marmaton	4322 -	1363
Pawnee	4419 -	1490
Ft. Scott	4495 -	1536
Cherokee Sh.	4521 -	1552
Mississippi	4605 -	1646
RTD	4660 -	1701
E-LOG TOPS:		
Anhydrite	2494 +	465
Base Anhydr.	2522 +	437
Heebner	3964 -	1005
Lansing	4008 -	1049
Muncie Cr.	4142 -	1183
Stark	4225 -	1266
BKC	4287 -	1328
Marmaton	4319 -	1360
Pawnee	4416 -	1457
Ft. Scott	4491 -	1532
Cherokee Sh.	4519 -	1560
Mississippi	4605 -	1646
LTD	4650 -	1691

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.....	12.1/4	8.5/8"	20#	262'	60/40	180	3% cc 2% ge
.....							
.....							

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	Size	Set At	Packer at	Liner Run	☐ Yes ☐ No
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Date of First Production	Producing Method
	☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (explain).....

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

METHOD OF COMPLETION

Production Interval

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