

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

S

API NO. 15-.....171-20,368-00-00.....
County.....SCOTT.....
.NW.SW.SE.... Sec.25. Twp.17S Rge.31E X West
.....990.... Ft North from Southeast Corner of Section
.2310.... Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

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

Purchaser.....Koch Oil Co.....

Operator Contact Person ..F.W. SHELTON, JR.
Phone ...316-262-3791.....

Contractor: License #5883.....
Name WARRIOR DRILLING CO.....

Wellsite Geologist.....MITCH ALLEN.....
Phone.....316-262-3791.....

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

If OWO: old well info as follows:
Operator ..
Well Name ..
Comp. DateOld Total Depth.....

WELL HISTORY

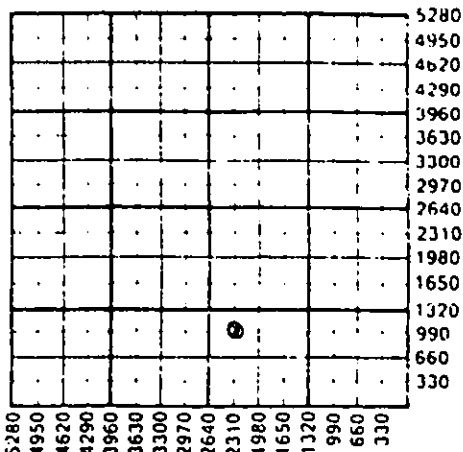
Drilling Method:
 Mud Rotary Air Rotary Cable

1-30-88... 2-12-88... 3-04-88 PDP
Spud Date Date Reached TD Completion Date
4620..... 4593'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 249' feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set.....feet
If alternate 2 completion, cement circulated
from...2280....feet depth to Surf. w/.20.0sx cmt
Cement Company NameAllied Cementing.
Invoice #51046.....

Lease Name.....BRUNGARDT.....Well #.....1.....
Field Name.....MC (Danny Disc).....
Producing Formation.....Cherokee.....
Elevation: Ground...2905.....KB...2910.....

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 #...38744.....

Tax # 48-1002983 Ramsey Farms
 Groundwater.....Ft North from Southeast Corner
(Well)Ft West from Southeast Corner of
NW/4 Sec 25 Twp 18S Rge 31E X 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. #)

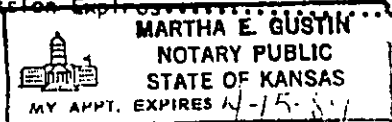
INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential 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. 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 3-15-88..

Subscribed and sworn to before me this 15th day of March 1988.
Notary Public.....
Martha E. Gustin

Date Commission Expires.....4-15-89.....



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

RECEIVED
STATE CORPORATION COMMISSION
KCC
KGS

03-16-88

Sec 25 Twp 17 Rge 31 E

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

Sec 25 Twp 17S Rge 31 East West County Scott

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 [X] Yes [] No
Samples Sent to Geological Survey [X] Yes [] No
Cores Taken [] Yes [] No
2-05-88 DST #1 4014-4039 (Lans 70) 30-30-60-60 IF: fr bl, PF: wk bl, Rec. 45' M w/O spots, IBHP: 1047# FBHP: 1047# IFP: 55-55 FFP: 89-89
2-06-88 DST #2 4178-4208 (Lans 180) 30-30-30-30 Rec. 15' M, w/3' dead O, IBHP: 804#, FBHP: 759# IFP: 53-53 FFP: 53-53
2-07-88 DST #3 4200-4235 (Lans 200) 30-30-60-60 IF: very st bl, PF: very st bl decreasing, Rec. no GIP, 700' Cl GO, 280' Watery O, (61% O, 39% W) 945' W, chl. 49,000 ppm, IBHP: 950# FBHP: 950#, IFP: 258-759 FFP: 804-950
2-08-88 DST #4 4249-4259 (Middle Cr) 30-30-30-30 IF: very wk bl, PF: no bl, Rec. 10' M, w/sp O, IBHP: 44#, FBHP: 29#, IFP: 17-17 FFP: 17-17
DST #5 4294-4320 (Pleasanton) 30-30-30-30 IF: very wk bl died, Rec. 5' M, IBHP: 44# FBHP: 26#, IFP: 26-26 FFP: 26-26
2-09-88 DST #6 4353-4370 (Marm B) 30-30-30-30 IF: very st bl off bott 30 sec. FF: very st bl off bott 30 sec. Rec. 1180' Cl GO, 40gr IBHP: 956# FBHP: 930# IFP: 89-258 FFP: 312-419
2-10-88 Repairing rig @ 4418'
2-11-88 DST #7 4497-4545 (Johnson) 30-30-60-60 IF: very st bl as soon as tool opened, PF: very st bl, Rec. G to Surf 30 min into 2nd open 870' Cl GO, 36 gr IBHP: 1137#, FBHP: 1128# IFP: 71-151 FFP: 205-348
DST #8 4538-4563 (Sand) 30-30-30-30 IF: wk bl, FF: wk bl died 14", Rec. 3' M, IBHP: 34#, FBHP: 31#, IFP: 31-31 FFP: 31-31
2-12-88 Drilling @ 4563' T.D. 4620' Ran E-log Ran 4610', 113 jts. new 10.5# 4 1/2" csg. set @ 4615' 5' off bottom, cem w/200 sks ASC, 10 bbls salt flush 10 bbls. RS2 ahead of cem. Centralizers @ 4593-4551-4468-4389-4308-4266-4183-2280 Cem control Basket @ 2280' Plug down @ 4:00 am
2-13-88 report all strings set-conductor, surface, intermediate, production, etc.

Formation Description
[X] Log [X] Sample
Name Top Bottom
FORMATION TOPS:
Anhydrite 2270 + 640
Base Anhydr. 2289 + 621
Heebner 3893 - 983
Lansing 3939 - 1029
Muncie Cr. 4113 - 1203
Stark 4202 - 1292
Hush Puckney 4249 - 1339
BKC 4288 - 1378
Marmaton 4326 - 1416
Pawnee 4414 - 1504
Ft. Scott 4458 - 1548
Cherokee Sh 4478 - 1568
Johnson 4520 - 1610
Mississippi 4554 - 1644
RTD 4620 - 1710
E-LOG TOPS:
Anhydrite 2267 + 639
Base Anhyd. 2287 + 623
Heebner 3898 - 988
Lansing 3940 - 1030
Muncie Cr 4113 - 1203
Stark 4202 - 1292
BKC 4291 - 1381
Marmaton 4332 - 1422
Pawnee 4413 - 1503
Ft. Scott 4458 - 1548
Cherokee Sh 4480 - 1570
Mississippi 4548 - 1638
Miss Dolo. 4584 - 1674
LTD 4620 - 1710

RELEASED APR 17 1989

FROM CONFIDENTIAL

NEW X
Purpose of String Size Hole Size Casing Weight Setting Type of #Sacks Type and Percent
Drilled Set (in O.D.) Lbs/Ft. Depth Cement Used Additives
surface 12 3/4 8 5/8 20# 249' 60/40 160 3% cc 2% gel
production 7 7/8 4 1/2 10.5 4615' ASC 200 10 bbls salt flush 10 bbls RS2

PERFORATION RECORD
Shots Per Foot Specify Footage of Each Interval Perforated Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth
4 holes per ft. 4536-4538 4528-4532 4520-4522 Acidized w/500 gal. 15%
INS. 300# max. press. 1/2 bbl per min @ 0# load 84 bbls.

TUBING RECORD
Size Set At Packer at Liner Run [] Yes [X] No
2 3/8" 4556.45 NA

Date of First Production Producing Method
3-04-88 [] Flowing [X] Pumping [] Gas Lift [] Other (explain)

Estimated Production
Oil Gas Water Gas-Oil Ratio Gravity
Per 24 Hours 120 bbls -0- -0- 37
Bbls MCF Bbls CFPB

METHOD OF COMPLETION Production Interval
Disposition of gas: [] Vented [] Open Hole [X] Perforation 4536-4538
[] Solid [] Other (Specify) 4528-4532
[] Used on Lease [] Dually Completed 4520-4522
[] Commingled
[X] Single

State

15-171-20368-00-00

CHIEF DRILLING CO., Inc.

Drilling Contractors - Oil Producers

151 N. MAIN
SUITE 700

WICHITA, KANSAS 67202

DAILY DRILLING REPORT

RIG #1

API: 15-171-20,368

V. RICHARD HOOVER
PRESIDENT

(316) 262-3791

BRUNGARDT #1 (#2566)
NW SW SE SEC. 25-17S-31W
SCOTT COUNTY, KANSAS

ELEVATION: 2905' GR
2907' DF
2910' KB

1-29-88 Moving in on location
 1-30-88 Finished moving in, rigged up, spudded in @ 5:00 pm, ran 6 jts new 20# 8 5/8" 246' set @ 249', cem w/160 sks 60/40 pozmix 3% cc 2% gel, plug down @ 12:45 am
 1-31-88 Drilling @ 300'
 2-01-88 Drilling @ 1905'
 2-02-88 Drilling @ 2700'
 2-03-88 Drilling @ 3230'
 2-04-88 Drilling @ 3770'
 2-05-88 DST #1 4014-4039 (Lans 70) 30-30-60-60 IF: fr bl, FF: wk bl, Rec. 45' M w/O spots, IBHP: 1047# FBHP: 1047# IFP: 55-55 FFP: 89-89
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 2-13-88 Plug down 6:00 am. Final Drilling Report

FORMATION TOPS:

Anhydrite	2270 +	640
Base Anhydr.	2289 +	621
Heebner	3893 -	983
Lansing	3939 -	1029
Muncie Cr.	4113 -	1203
Stark	4202 -	1292
Hush Puckney	4249 -	1339
BKC	4288 -	1378
Marmaton	4326 -	1416
Pawnee	4414 -	1504
Ft. Scott	4458 -	1548
Cherokee Sh	4478 -	1568
Johnson	4520 -	1610
Mississippi	4554 -	1644
RTD	4620 -	1710

E-LOG TOPS:

Anhydrite	2267 +	639
Base Anhyd.	2287 +	623
Heebner	3898 -	988
Lansing	3940 -	1030
Muncie Cr	4113 -	1203
Stark	4202 -	1292
BKC	4291 -	1381
Marmaton	4332 -	1422
Pawnee	4413 -	1503
Ft. Scott	4458 -	1548
Cherokee Sh	4480 -	1570
Mississippi	4548 -	1638
Miss Dolo.	4584 -	1674
LTD	4620 -	1710

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

RECEIVED
STATE CORPORATION COMMISSION

COMMISSION DIVISION
Wichita, Kansas

RELEASED
APR 17 1989
FROM CONFIDENTIAL

15-171-20368-00-00

CHIEF DRILLING CO., Inc.

Drilling Contractors - Oil Producers

151 N. MAIN

SUITE 700

WICHITA, KANSAS 67202

V. RICHARD HOOVER
PRESIDENT

(316) 262-3791

BRUNDGARDT #1
NW SW SE SEC. 25-17S-31W
SCOTT COUNTY, KANSAS

2-22-88 Moved in Warrior Drilling Double Drum, swabbed hole down
ran gamma ray correlation log & cement top log. Perf. 4 holes
per/ft. 4536-4538, 4528-4532, 4520-4522, swabbed hole dry

2-23-88 270' fill up, trace of water
1/2 hr. test 3.48 O tr/W
1/2 hr. test 3.48 O tr/W
1/2 hr. test 3.48 O tr/W
1/2 hr. test 3.48 O tr/W
1/2 hr. test 2.32 O tr/W
1/2 hr. test 2.32 O tr/W
1/2 hr. test 3.48 O tr/W
1/2 hr. test 3.48 O tr/W
1/2 hr. test 3.48 O tr/W
1/2 hr. test 3.48 O tr/W
1/2 hr. test 3.48 O tr/W

Acidized w/500 gal 15% INS 300# max pressure, 1/2 bbl per min
@ 0#, load 84 bbl, swab down 93 bbls.

2-24-88 Swab down 58 bbls, to 3300'
1/2 hr. test 5.80 all O from 3300' 33 gravity
1/2 hr. test 8.12 all O

Cement top of csg w/200 sxs lite cement

2-25-88 Ran temp survey cement @ 80', POH w/retrievable plug, hydro test
tubing in hole, could not get testing tool in hole, steamed
tubing

2-26-88 tested and ran tubing in hole

2-29-88 ran rods Mud anchor 24.00
145 jts. 2 3/8" 4556.45
1 - 6' sub 6.00
TOTAL 4586.45

2 x 1 1/2 x .12 THD insert pump
181 3/4 rods
4 - 6' pony rods
1 - 16' polish rod

3-04-88 P.O.P.

3-06-88 120 bbls. All O 37 gr.

RECEIVED
STATE CORPORATION COMMISSION

MAR 16 1988

CORPORATION DIVISION
Wichita, Kansas

RELEASED

APR 17 1989

FROM CONFIDENTIAL

Phone 313-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3842

New Brundage

ALLIED CEMENTING CO., INC.

N^o 1457

Home Office P. O. Box 31

Russell, Kansas 67665

Date	2-24-88	Sec.	25	Twp.	17	Range	31	Called Out	11:00 AM	On Location	2:00 P.M.	Job Start	2:30 P.M.	Finish	3:00 P.M.
Lease	Brundage	Well No.	1	Location	Manning	2E-15	County	Scott	State	KS					
Contractor	Warner Dilling					Owner	Same								
Type Job	Back Side Squeeze					To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.									
Hole Size						T.D.									
Csg.	4 1/2					Depth									
Tbg. Size						Depth									
Drill Pipe						Depth									
Tool	Budge Plug					Depth	4000'								
Cement Left in Csg.						Shoe Joint									
Press Max.	400 II					Minimum	100 #								
Meas Line						Displace									
Perf.															

EQUIPMENT

Pumptrk	No.	Cementer	Mike Con
	46	Helper	
Pumptrk	No.	Cementer	Jim
		Helper	
		Driver	
Bulktrk	116	Driver	

DEPTH of Job

Reference:	Pump Job Chg	450.00
	47 Pump Job Release	47.00
	Sub Total	
	Tax	
	Total	497.00

Remarks: Loaded casing - pumped to 700#. Went back back side with 200 ATL. 400# Plug Shut in with 100 #.

Spork

Charge To	Warner Dilling		
Street	151 N. Main Suite #700		
City	Wichita	State	Ks 67202
The above was done to satisfaction and supervision of owner agent or contractor			
Purchase Order No.	<i>Key</i>		
CEMENT			
Amount Ordered	200 ATL		
Consisting of			
Common	200 ATL	5.25	1050.00
Poz. Mix			
Gel.			
Chloride			
Quickset			
Sales Tax			
Handling	200	1.75	150.00
Mileage	47		2.82.00
Sub Total			
Total 1482.00			

STATE COMMISSION
 APR 27 1988

Floating Equipment
 CONSERVATION DIVISION
 Wichita, Kansas

TOTAL 1979.00
 Less Disc-7 395.80
 Net 30 1583.20
 DAYS

Allied Cementing Co., Inc.

TEMPERATURE SURVEYS

Send the following information with temperature survey charts:

Date 2-25-88 Place Manning 2E - 1S

Company Name Warrior Drilling

Mailing Address 151 N. Main Suite #700 City Wichita State Kansas

Owner of Well Same Contractor Warrior Drilling

Farm Brundgardt Well No. 1 County Scott Sec. 25-1 Twp. 17 Rge. 31

Depth of Well _____ Depth of Casing _____ New or Used _____ Size 4 1/2" Size of Hole 7 7/8" Weight _____ Amount of Cement 200 ATL

Kind of Cement _____

Backside Squeeze

Survey from Ground Level To 4000'

DETAILS

