

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 # 5886  
Name CHIEF DRILLING CO., INC.  
Address 151 N. Main Suite #700  
Wichita, Kansas 67202  
City/State/Zip

Purchaser Koch Oil Co.

Operator Contact Person F.W. Shelton, Jr.  
Phone Vice President 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 ONWO: old well info as follows:

Operator  
Well Name  
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:

Mud Rotary  Air Rotary  Cable

4-9-86 4-22-86 5-9-86  
Spud Date Date Reached TD Completion Date

RTD 4590 4436  
Total Depth PBDT

Amount of Surface Pipe Set and Cemented at 298' feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set NA feet  
If alternate 2 completion, cement circulated  
from na feet depth to na w/ SX cmt

API NO. 15-101-21,309-0000

County Lane

SW SW NE Soc 1 Twp 18S Rge 30  East  West

2970 Ft North from Southeast Corner of Section  
2310 Ft West from Southeast Corner of Section

(Note: Locate well in section plat below)

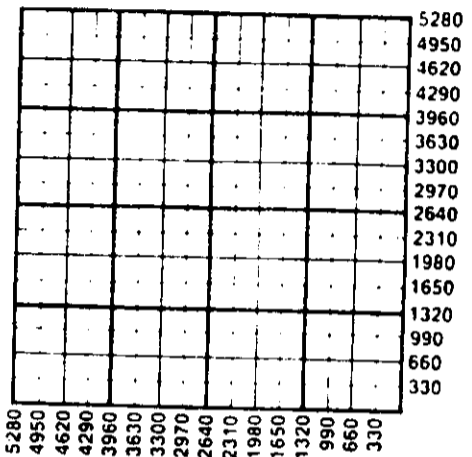
Lease Name SHARP "B" #1 Well #

Field Name

Producing Formation Pawnee/Marmaton

Elevation: Ground 2836 2841 KB

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 # Gial Sharp Healy, Ks. 514-38-9223  
 Groundwater Ft North from Southeast Corner (Well) Ft West from Southeast Corner of SW SW NE Sec 1 Twp 18 Rge 30  East  West Irrigation well 150' deep Mud hauled Cheyer  
 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 F.W. Shelton, Jr.  
Title F.W. Shelton, Jr., Vice President

Subscribed and sworn to before me this 19th day of May 1986...  
Notary Public Martha E. Gustin

Date Commission Expires



MAY 20 1986  
5-20-86  
CONSERVATION DIVISION  
WICHITA, KANSAS

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

Sec. 1, Twp. 18, Rge. 30

Operator Name Chief Drilling Co., Inc. Lease Name.....

Sec. 1 Twp. 18S Rge. 30 East West County LANE

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
4-15-86 Drilling @ 4190' DST #1 4206-4313 (Lane 200 & 220, Pleasanton) 30-45-60-45 IF: st bl off bottom immediately, FF: st bl off bottom in 2 1/2", Rec. 240' GIP; 1390' W, IBHP: 1164# FBHP: 983# IFF: 312-446 FFP: 535-670
4-16-86 DST #2 4314-4342 (Up Marm) 30-45-75-60 IF: wk bl bldg to st by end of open, FF: fr bl bldg to st Rec. 630' GIP; 63' MCD; (7% G, 83% O, 10% M,) 126' cl GD, 41 gr. @ 60 degrees, IBHP: 1182# FBHP: 1182#, IFF: 44-71 FFP: 89-116
4-17-86 DST #3 4342-4362 (Marm "A") 30-30-30-30 IF: wk bl died 13", FF: no blow, Rec. 8'M, IBHP: 53# FBHP: 53# IFF: 44-44 FFP: 44-44
4-18-86 DST #4 4362-4410 Missrun DST #5 4342-4410 (Marm B-C) 30-30-30-30 IF: wk bl, Rec. 25' M, IBHP: 142# FBHP: 101# IFF: 53-53 FFP: 53-53
4-19-86 DST #6 4405-4440 (Up Pawnee) 30-45-75-60 IF: st. bl off bett in 2 1/2", FF: st bl, Rec. 2300' GIP; 495' CI GD, 41 gr. @ 60 deg. IBHP: 923# FBHP: 661# IFF: 110-132 FFP: 165-254
4-20-86 DST #7 4432-4468 (Lower Pawnee) 30-30-30-30 IF: wk bl, FF: no bl Rec. 38' M, IBHP: 133# FBHP: 107# IFF: 80-80 FFP: 80-80 DST #8 4478-4510 (Up Cherokee) 30-30-30-30 IF: wk bl died in 20", Rec. 30' M, IBHP: 670# FBHP: 464# IFF: 89-89 FFP: 89-89
4-21-86 DST #9 4496-4545 (Johnson z) 30-30-30-30 IF: wk bl died, Rec. 28' M, W/sp 0, IBHP: 1137# FBHP: 1074# IFF: 98-98 FFP: 98-98 T.D. 4590' Ran E-log
4-22-86 Ran 122 jts. new & used 4 1/2" 10.5# casing, 4508' set @ 4513', ran guide sh on 12' sh jt., insert float & centralizers @ 4501, centr. @ 4446-4371-4307, basket @ 2183' cent @ 2141' cem w/175 sks ASC, 10% salt 500 gal. mud flush WLR #1 plug down 11:00 am.

Formation Description [X] Log [X] Sample
Name Top Bottom
FORMATION TOPS:
Anhydrite 2203 + 638
B/Anhydr. 2223 + 618
Heebner 3900 - 1059
Toronto 3919 - 1078
Lansing 3939 - 1098
Muncie Cr. 4115 - 1274
Stark 4218 - 1377
BKC 4295 - 1454
Marmaton 4332 - 1491
Pawnee 4411 - 1570
Ft. Scott 4456 - 1615
Cherokee Sh 4480 - 1639
Miss. Lime 4550 - 1709
Miss. Dolo. 4580 - 1739
RTD 4590 - 1749
FORMATION TOPS:
Anhydrite 2205 + 636
B/Anhydr. 2224 + 617
Heebner 3900 - 1059
Toronto 3927 - 1086
Lansing 3946 - 1105
Muncie Cr. 4117 - 1276
Stark 4217 - 1376
BKC 4299 - 1458
Marmaton 4333 - 1492
Pawnee 4408 - 1567
Ft. Scott 4458 - 1617
Ch. Shale 4480 - 1639
Miss. Lime 4548 - 1707
Miss. Dolo 4578 - 1741
LTD 4592 - 1751
Well log
Sand/Clay 0 568
Shale 568 2203
Anhydr 2203 2223
Shale 2223 4018
Lime 4018 4590 RTD

CASING RECORD [X] New [ ] Used
Report all strings set-conductor, surface, intermediate, production, etc.

Table with 8 columns: 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#, 298', 60/40, 190, 2% gel, 3% cc
Production: 4 1/2", 7 7/8", 10.5#, 4513', ASC, 175, 10% salt, 500 gal mud flush WLR #1

PERFORATION RECORD
Shots Per Foot Specify Footage of Each Interval Perforated Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth
2 sh per. 4420-4428 acid w/500 gal. 15% INS... 2 1/2 RPM. 400# max press..
acidized w/2000 gal. 15% CRA. @ 5 RPM. @ 475# max PSI
2 sh per. 4334-4342 treated w/500 gal INS max press.. 750

TUBING RECORD
Size 2 3/8" Set At 4432.00 Packer at no Liner Run [ ] Yes [X] No

Date of First Production 5-09-86 Producing Method [ ] Flowing [X] Pumping [ ] Gas Lift [ ] Other (explain).....

Table with 5 columns: Oil, Gas, Water, Gas-Oil Ratio, Gravity.
Estimated Production Per 24 Hours: 60 Bbls Oil, -0- MCF Gas, -0- Bbls Water, CFPB Gas-Oil Ratio

METHOD OF COMPLETION Production Interval

Disposition of gas: [ ] Vented [ ] Sold [ ] Used on Lease [ ] Open Hole [X] Perforation [ ] Other (Specify) .....
4420-4428
4334-4342
[ ] Dually Completed [ ] Coning [X] Single

St.

# CHIEF DRILLING CO., Inc.

Drilling Contractors - Oil Producers

151 N. MAIN BUILDING  
SUITE 700

WICHITA, KANSAS 67202

V. RICHARD HOOVER  
PRESIDENT

DAILY DRILLING REPORT  
API: 15-101-21,309  
RIG #1

(316) 262-3791

MAY 20 1986  
CONFIDENTIAL

SHARP "B" #1 (#2112)  
SW SW NE SEC. 1-18S-30W  
LANE COUNTY, KANSAS

ELEVATION: 2836 GR  
2838 DF  
2841 KB

		FORMATION TOPS:	
4-09-86	Moving in on location, spudded in @ 12:30 pm, ran 7 jts. new 8 5/8" casing, 295' set @ 298', cem w/190 sks 60/40 posmix, 2%gel 3% cc plug down @ 8:00 pm	Anhydrite	2203 + 638
4-10-86	Drilling @ 631'	B/Anhydr.	2223 + 618
4-11-86	Drilling @ 2516'	Heebner	3900 - 1059
4-12-86	Drilling @ 3021'	Toronto	3919 - 1078
4-13-86	Drilling @ 3456'	Lansing	3939 - 1098
4-14-86	Drilling @ 3911'	Muncie Cr.	4115 - 1274
4-15-86	Drilling @ 4190' DST #1 4206-4313 (Lans 200 & 220, Pleasanton) 30-45-60-45 IF: st bl off bottom immediately, FF: st bl off bottom in 2 1/2", Rec. 240' GIP; 1390' W, IBHP: 1164# FBHP: 983# IFP: 312-446 FFP: 535-670	Stark	4218 - 1377
4-16-86	DST #2 4314-4342 (Up Marm) 30-45-75-60 IF: wk bl bldg to st by end of open, FF: fr bl bldg to st Rec. 630' GIP; 63' MCO; (7% G, 83% O, 10% M,) 126' cl GO, 41 gr. @ 60 degrees, IBHP: 1182# FBHP: 1182#, IFP: 44-71 FFP: 89-116	BKC	4295 - 1454
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4-18-86	DST #4 4362-4410 Missrun DST #5 4342-4410 (Marm B-C) 30-30-30-30 IF: wk bl, Rec. 25' M, IBHP: 142# FBHP: 101# IFP: 53-53 FFP: 53-53	Pawnee	4411 - 1570
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4-20-86	DST #7 4432-4468 (Lower Pawnee) 30-30-30-30 IF: wk bl, FF: no bl Rec. 38' M, IBHP: 133# FBHP: 107# IFP: 80-80 FFP: 80-80 DST #8 4478-4510 (Up Cherokee) 30-30-30-30 IF; wk bl died in 20", Rec. 30' M, IBHP: 670# FBHP: 464# IFP: 89-89 FFP: 89-89	Cherokee Sh	4480 - 1639
4-21-86	DST #9 4496-4545 (Johnson z) 30-30-30-30 IF: wk bl died, Rec. 28' M, W/sp O, IBHP: 1137# FBHP: 1074# IFP: 98-98 FFP: 98-98 T.D. 4590' Ran E-log	Miss. Lime	4550 - 1709
4-22-86	Ran 122 jts. new & used 4 1/2" 10.5# casing, 4508' set @ 4513', ran guide sh on 12' sh jt., insert float & centralizers @ 4501, centr. @ 4446-4371-4307, basket @ 2183' cent @ 2141' cem w/175 sks ASC, 10% salt 500 gal. mud flush WLR #1 plug down 11:00 am.	Miss. Dolo.	4580 - 1739
		RTD	4590 - 1749
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		Stark	4217 - 1376
		BKC	4299 - 1458
		Marmaton	4333 - 1492
		Pawnee	4408 - 1567
		Ft. Scott	4458 - 1617
		Ch. Shale	4480 - 1639
		Miss. Lime	4548 - 1707
		Miss. Dolo	4578 - 1741
			4592 - 1751

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MAY 20 1986  
5-20-86  
CONSERVATION DIVISION  
Wichita Kansas

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Drilling Contractors - Oil Producers

151 N. MAIN BUILDING

SUITE 700

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## DAILY COMPLETION REPORT

SHARP-B #1  
SW SW NE 1-18S-30W  
Lane County, Ks.

- 4-28-86 Moved in Warrior double drum and rigged up, ran correlation, collar and cement top log, swab down csg. ran sand pump to get some rat hole. perf. 2 sh per ft., 4420-4428' w/expendable gun, 1/2 hr. test 1/2 bbl W w/tr O
- 4-29-86 120' fill up, w/tr W, 1/2 hr test dry 36 grav. acidized w/500 gal. 15% INS 2 1/2 BPM @ 400# max pressure, 82 1/2 bbl load, swab down 65.24 bbls.,  
1 hr. test .87 bbls., 60% O  
2 hr. test 1.74 bbls., 80% O  
3 hr. test 2.03 bbls., 91% O
- 4-30-86 925' fill up trace of water  
1 hr. test 3.48 bbls., w/tr W  
2 hr. test 3.48 bbls., w/tr W  
3 hr. test 3.48 bbls., w/tr W  
4 hr. test 2.90 bbls., w/tr W  
acidized w/2000 gal 15% CRA 3.5 BPM @ 475# max PSI, total load 118.5 bbls., swab down 54.5 bbls.,
- 5-01-86 955' fill up, 530' O, 425' W  
1 hr. test 7.54 bbls., 57% O  
2 hr. test 5.22 bbls., 69% O  
3 hr. test 4.64 bbls., 83% O  
4 hr. test 3.48 bbls., 92% O  
5 hr. test 4.64 bbls., 95% O  
6 hr. test 4.64 bbls., 95% O
- 5-02-86 fill up, 1425' W w/trace of W Perf. 4334-4342 8' 2 sh per ft. set bridge plug @ 4371' swab down 1/2 hr test 35' O, treated w/ 500 gal INS max pressure 750 1/2 bbpm drop to 0. Load 81 bb, swab down 100.32 bbls. 1/2 hr. test 6.96 bbls., 62% O
- 5-05-86 swab down 1708 oil 1420 W, 28.00 bbl oil 232 W  
1 hr. 13.34 bbls., 59% O  
2 hr. 11.60 bbls., 51% O  
3 hr. 10.40 bbls., 48% O  
4 hr. 11.02 bbls., 46% O  
5 hr. 9.28 bbls., 45% O  
6 hr. 8.70 bbls., 44% O
- 5-06-86 1114' fill up, 389' O, 725 W,  
140 jts. 2 3/8" tubing 4384.90  
Mud Anchor 29.10  
3- 6' subs 18.00  
  
Total 4432.00
- 5-07-86 175 3/4 rods  
2- 6' pony rods  
1 - 4' pony rod  
1 - 16' polish rod
- 5-09-86 P.O.P. bbl test 60 BOPD