

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

Operator: License # 5131

Name: Thunderbird Drilling, Inc.

Address P. O. Box 780407

Wichita, KS 67278

City/State/Zip _____

Purchaser: N/A

Operator Contact Person: Burke B. Krueger

Phone (316) 685-1441

Contractor: Name: _____

License: _____

Wellsite Geologist: None

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: Thunderbird Drilling, Inc.

Well Name: Jennison "B" #4

Comp. Date 1-83 Old Total Depth 4511

CEMENT SQUEEZE
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PSTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

8-4-95 Spud Date OF START Date Reached TO 8-15-95 Completion Date OF WORKOVER
OF WORKOVER WORKOVER

API NO. 15- 10120744-0007
County Lane **ORIGINAL**
SW SE SW Sec. 70 p. 16 Rge. 29 E W

330 Feet from SW (circle one) Line of Section
3630 Feet from EW (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Jennison "B" Well # 4

Field Name Jennison
Injection Marmaton, Pawnee, Ft. Scott, & Lower Cherokee
Producing Formation _____

Elevation: Ground 2769 KB 2774

Total Depth 4511 PSTD _____

Amount of Surface Pipe Set and Cemented at 324 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cnt.

Drilling Fluid Management Plan REWORK 07 1-10-96
(Data must be collected from the Reserve Pit)

Chloride content _____ ppm Fluid volume _____ bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite: _____

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STATE CORPORATION COMMISSION

Operator Name _____

AUG 3 1 1995

Lease Name _____ License No. _____

Quarter 3 Sec. 70 Twp. 16 S Rng. 29 E/W

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 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 geologist well report 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.

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 Vice President Date 8-30-95

Subscribed and sworn to before me this 30th day of August, 19 95.

Notary Public [Signature]

Date Commission Expires 4-16-98

Notary Public
GLENDA FUNK
Notary Public - State of Kansas
Exp. 4/16/98

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

Operator Name Thunderbird Drilling, Inc. Lease Name Jennison "B" Well # 4
 Sec. 20 Twp. 16S Rge. 29 East County Lane
 West

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.)
 List All E.Logs Run: None

Log Formation (Top), Depth and Datum Sample
 Name Top Datum
 See Attachment

CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> Used (SURFACE)							
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 SEE ATTACHMENT	12 3/4"	8 5/8"	24*	324'	Class A	250	12% gel 3% CaCl ₂
Production	7 1/8"	5 1/2"		4518'	Class C	175	

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate				
<input checked="" type="checkbox"/> Protect Casing	1400'	Common	350	2% CC
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone	1050'	Common	200	2%CC

Shots Per Foot	PERFORATION RECORD - Bridge Plug: Set Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	SEE ATTACHMENT 4222'-4228'		
2	4298'-4306' & 4348'-4358'		
2	4384'-4390'		
2	3957'-3963' [CURRENTLY INACTIVE]		

TUBING RECORD Size 2 3/8 Set At Straddle At 4210' 3916' & 4199' Liner Run Yes No
 Date of First, Resumed Production, SWD or (ND) 8-29-95 Producing Method Flowing Pumping Gas Lift Other (Explain)
 Estimated Production Per 24 Hours Oil Bbls. Gas Bbls. Water Bbls. Gas-Oil Ratio Gravity 300

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)
 METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Injection Production Interval 4222'-4390' OA
 Other (Specify)

ORIGINAL

TYPE AFFIDAVIT OF COMPLETION FORM ACO-1 WELL HISTORY
SIDE ONE Compt. _____

Two (2) copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within thirty (30) days after the completion of a well, regardless of how the well was completed.

F Attach separate letter of request if the information is to be held confidential. If confidential, only file one copy. Information on Side One will be of public record and Side Two will then be held confidential.

Applications must be made on dual completion, commingling, salt water disposal, injection and temporarily abandoned wells.

C Attach one copy only wireline logs (i.e. electrical log, sonic log, gamma ray neutron log, etc.). (Rules 82-2-105 & 82-2-125) KCC# (316) 263-3238. ___ No Log

LICENSE # 5131 EXPIRATION DATE 6-30-83

OPERATOR Thunderbird Drilling, Inc. API NO. 15-101-20,744

ADDRESS P.O. Box 18407 COUNTY Lane

Wichita, Kansas 67218 FIELD Jennison

** CONTACT PERSON Gloria DeJesus PROD. FORMATION Lansing-Kansas City & Marmaton
PHONE (316) 685-1441

PURCHASER Koch Oil Company LEASE JENNISON "B"

ADDRESS P.O. Box 2256 WELL NO. 4

Wichita, Kansas 67201 WELL LOCATION SW SE SW

DRILLING Thunderbird Drilling, Inc. 330 Ft. from South Line and

CONTRACTOR CONTRACTOR ADDRESS Same as above 990 Ft. from East Line of (E)
the SW/4 (Qtr.) SEC 20 TWP 16S RGE 29W (W).

PLUGGING CONTRACTOR ADDRESS

WELL PLAT (Office Use Only)
KCC _____
KGS _____
SWD/REP _____
PLG. _____

TOTAL DEPTH 4520 PBD

SPUD DATE 12/22/82 DATE COMPLETED 1/26/83

ELEV: GR 2769 DF KB 2774

DRILLED WITH (~~WIRELINE~~) (ROTARY) (~~WIRELINE~~) TOOLS.

DOCKET NO. OF DISPOSAL OR REPRESSURING WELL BEING USED TO DISPOSE OF WATER FROM THIS LEASE

Amount of surface pipe set and cemented 324' DV Tool Used? NO

THIS AFFIDAVIT APPLIES TO: (Circle ONE) - (Oil) Gas, Shut-in Gas, Injection, Temporarily Abandoned, OWWO. Other

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AUG 3 1995

ALL REQUIREMENTS OF THE STATUTES, RULES AND REGULATIONS PROMULGATED TO REGULATE THE OIL AND GAS INDUSTRY HAVE BEEN FULLY COMPLIED WITH.

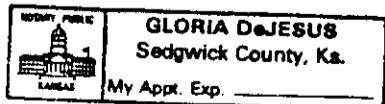
A F F I D A V I T

Burke Krueger, being of lawful age, hereby certifies that:

I am the Affiant, and I am familiar with the contents of the foregoing Affidavit. The statements and allegations contained therein are true and correct.

Burke Krueger
(Name)

SUBSCRIBED AND SWORN TO BEFORE ME this 28th day of January, 1983.



Gloria DeJesus
(NOTARY PUBLIC)

MY COMMISSION EXPIRES: 3-25-84

** The person who can be reached by phone regarding any questions concerning this information.

SIDE TWO

ACO-1 WELL HISTORY (E)

OPERATOR Thunderbird Drilling, Inc. LEASE Jennison "B" SEC. 20 TWP. 16S RGE. 29W (W)

FILL IN WELL INFORMATION AS REQUIRED: WELL NO. 4

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
Check if no Drill Stem Tests Run.			LOG TOPS	
Surface Hole	0	324	Anhydrite	2172+ 602
Shale	325	750	B/Anhydrite	2202+ 572
Shale & Sand	750	1135	Heebner	3827-1053
Shale w/strks sand	1135	1540	Toronto	3846-1072
Shale	1540	2070	Lansing	3864-1090
Shale & Lime	2070	2170	BKC	4204-1430
Anhydrite	2170	2205	Marmaton	4231-1457
Shale & Lime	2205	2691	Pawnee	4312-1538
Lime & Shale	2691	2805	Fort Scott	4366-1592
Lime	2805	3235	Cherokee	4391-1617
Shale & Lime	3235	3345	Mississippian	4458-1684
Lime & Shale	3345	3580	LTD	4511-1737
Lime	3580	4520	RTD	4520-1746
R.T.D.	4520			
DST #1, 3844-3870/30-30-30-30, rec. 5' mud w/so, FP 19-19# BHP 680-326#				
DST #2, 3900-3961/30-45-60-45, rec. 30' thin mud, 30' o&gcm, 480' gcm, 180' co&gcm, 240' gcm (33% wtr) 180' wtr, FP 88-533#, BHP 1013-954#				
DST #3, 3962-70/misrun				
DST #3, 3964-70/30-45-60-45, gst 12", tstm, rec. 2700' cgo, FP 128-817#, BHP 1042-1042#				
DST #4, 4032-4073/30-45-60-45, rec. 2020' wtr, FP 177-935#, BHP 964-964#				
DST #5, 4075-4100/30-45-60-45, rec. 300' cgo, 120' mgo, FP 39-167#, BHP 207-296#				
DST #6, 4104-4130/30-30-30-30, rec. 5' osm, all press 19#				
DST #7, 4211-4170/30-30-30-30, rec. 10' mud, FP 4-4#, BHP 86-86#				
DST #8, 4165-4250/30-45-60-45, rec. 800' gip, 1700' cgo, 150' mgo, FP 177-670#, BHP 788-778#				
If additional space is needed use Page 2, Side 2				

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WICHITA, KANSAS

Report of all strings set — surface, intermediate, production, etc. CASING RECORD (New) or ~~Recess~~

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Sacks	Type and percent additives
Surface	12 3/4	8 5/8"	24#	324'	com	250	2% gel, 3% cc
Production		5 1/2"		4518 (RM)		175	

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			2		4384-4390; 4348-4358;
					4298-4306; 4222-4228
Size	Setting depth	Packer set at			3957-3963

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
A 1000	4384-4390
A 1000	4348-4358
A 1000	4298-4306
A 1000	4222-4228
A 250	3957-3963

Date of first production 1/31/83	Producing method (flowing, pumping, gas lift, etc.) Pumping	Gravity 40°
Estimated Production -I.P. 55 bbls.	Gas MCF % 0	Gas-oil ratio bbls. CFPB

Disposition of gas (vented, used on lease or sold) Perforations 4228-4384 OA (Marm) 3957-3963 (LKC)

OPERATOR Thunderbird Drilling, Inc. LEASE NAME Jennison "B" #4

SEC. 20 TWP. 16S RGE. 29W

FILL IN WELL LOG AS REQUIRED:

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
DST #9, 4283-4345/30-45-60-45, rec. 1000' gip, 60' cgo, 120' ho&gcm, FP 167-47#, BHP 1003-984#				
DST #10, 4347-4375/30-45-60-45, gts 27", rec. 1270' cgo, 120' mgo, 30' wtr, FP 128-503# BHP 562-562#				
DST #11, 4378-4410/30-45-60-45, gts 10", rec. 1705' cgo, 100' mgo, FP 39-494#, BHP 788-758#				
DST #12, 4404-4480/30-45-60-45, rec. 120' so&gcm, 120' ho&gcm, 120' mgo, FP 128-523#, BHP 700-670#				

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AUG 31 1995
MULTIPLE SIGNATURES

ALLIED CEMENTING COMPANY, INC.

913-483-2627

P. O. BOX 31

RUSSELL, KANSAS 67665

ORIGINAL

To: Thunderbird Drilling, Inc.
P. O., Box 97
Ellinwood, KS 67526

Invoice No. 69421
Purchase Order No. _____
Lease Name Jennison B #4 ✓
Date 8-7-95

Service and Materials as Follows:

Common 50 sks @\$7.20	\$360.00	
Gel 10 sks @\$9.50	95.00	
Chloride 1 sk @\$28.00	28.00	
Litewate 300 sks @\$6.65	<u>1,995.00</u>	\$2,478.00
Handling 350 sks @\$1.05	367.50	
Mileage (52) @\$.04¢ per sk permi	728.00	
Back Side Circulate	896.00	
Mi @\$2.35 pmp trk chg	<u>122.20</u>	2,113.70

Sales tax RECEIVED 270.91
total AUG 8 1995 \$4,862.61

If Account CURRENT, a ✓
Discount of \$ 918.34
Will Be Allowed ONLY If
Paid Within 30 Days From
Date of Invoice.



AUG 21 1995

Thank You!

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1 1/2% Charged Thereafter.

ALLIED CEMENTING COMPANY, INC.

913-483-2627

P. O. BOX 31

RUSSELL, KANSAS 67665

ORIGINAL

To: Thunderbird Drilling Co., Inc.
P. O. Box 97
Ellinwood, KS 67526

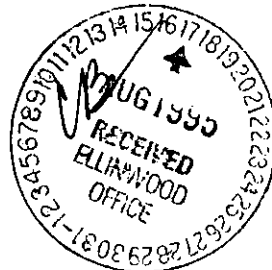
Invoice No. 69422
Purchase Order No. _____
Lease Name Jennison "B" #4 ✓
Date 8-9-95

Service and Materials as Follows:

Common 40 sks @\$7.20	\$288.00	
Lite 200 sks @\$6.30	1,260.00	
Chloride 4 sks @\$28.00	<u>112.00</u>	\$1,660.00
Handling 240 sks @\$1.05	252.00	
Mileage (52) @\$.04¢ per sk per mi	499.20	
Squeeze	445.00	
Extra Footage 750' @\$.41¢	307.50	
Mi @\$2.35 pmp trk chg	<u>122.20</u>	1,625.90

Sales tax 161.01
total \$3,446.91

If Account CURRENT, a
Discount of \$ 657.18
Will Be Allowed ONLY If
Paid Within 30 Days From
Date of Invoice.



Thank You!

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter

AUG 21 1995