SIDE ONE

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 # 5131
name Thunderbird Drilling, Inc.
address P.O. Box 18407
City/State/Zip Wichita, KS 67218

Operator Contact Person Burke Krueger
Phone (316) 685-1441

Contractor: license # 5131
name Thunderbird Drilling, Inc.

Wellsite Geologist Mark Thompson
Phone (316) 267-2672
PURCHASER Koch Oil Company

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

API NO. 15- 163-22,509-0000
County Rooks
SE SW SW (location) Sec 3 Twp 7S Rge 20W ☐ East ☐ West

330 Ft North from Southeast Corner of Section
4290 Ft West from Southeast Corner of Section
(Note: locate well in section plat below)

Lease Name ~~ROSS~~ ~~PRUDASCO~~ ROSS **Well#** 2

Field Name SLATE, S.W.

Producing Formation Lansing-KC

Elevation: Ground 2147 KB 2152

Section Plat

Vertical scale	5280, 4950, 4620, 4290, 3960, 3630, 3300, 2970, 2640, 2310, 1980, 1650, 1320, 990, 660, 330
Horizontal scale	5280, 4950, 4620, 4290, 3960, 3630, 3300, 2970, 2640, 2310, 1980, 1650, 1320, 990, 660, 330

RECEIVED
STATE CORPORATION COMMISSION
11/13/84
NOV 13 1984
CONSERVATION DIVISION
Wichita, Kansas

WELL HISTORY

Drilling Method: ☒ Mud Rotary ☐ Air Rotary ☐ Cable

10/6/84	10/13	10/26/84
Spud Date	Date Reached TD	Completion Date

3665	
Total Depth	PBTD

Amount of Surface Pipe Set and Cemented at 345' feet

Multiple Stage Cementing Collar Used? ☐ Yes ☒ No

If Yes, Show Depth Set feet

If alternate 2 completion, cement circulated
from 0 feet depth to 345' w/ 225 SX cmt

WATER SUPPLY INFORMATION

Source of Water:

Division of Water Resources Permit #

☐ Groundwater Ft North From Southeast Corner and
(Well) Ft. West From Southeast Corner of
Sec Twp Rge ☐ East ☐ West

☐ Surface Water Ft North From Southeast Corner and
(Stream, Pond etc.) Ft West From Southeast Corner
Sec Twp Rge ☐ East ☐ West

☐ Other (explain) Purchased from landowner
(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. Rules 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] Burke B. Krueger

Title Vice-President Date 11/9/84

Subscribed and sworn to before me this 9th day of November 19 84

Notary Public [signature: Gloria DeJesus]
Date Commission Expires 3-25-88

GLORIA DE JESUS
NOTARY PUBLIC
STATE OF KANSAS
MY APPT. EXP.

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. 3 Twp. 7 Rge. 20W

Form ACO-1 (7-84)

SIDE TWO

Operator Name Thunderbird Drilling, Inc Lease Name Ross Well# 2 SEC 3 TWP 7S RGE 20W ☐ 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

DST #1, 3364-3385/30-45-60-45, rec. 135' mw, FP 19-126#, BHP 962-933#
DST #2, 3511-3550/30-30-30-30, rec. 1520' gip, 1250' co, FP 87-475#, BHP 647-704#
DST #3, 3637-3665/30-30-30-30, rec. 190' mw w/few oil spkes., FP 38-107#, BHP 924-886#

Formation Description
☒ Log ☐ Sample

Name	Top	Bottom
Anhydrite	1714+	438
B/Anhydrite	1745+	407
Topeka	3122-	970
Heebner	3327-	1175
Toronto	3349-	1197
LKC	3363-	1211
BKC	3573-	1421
Rew Arb	3621-	1469
Arbuckle	3631-	1479
RTD	3665-	1513
LTD	3661-	1509

Description	From	To
Surface Hole	0	345
Shale	345	1225
Sand	1225	1442
Shale & Red bed	1442	1715
Anhydrite	1715	1747
Shale	1747	1960
Shale & lime strks	1960	2215
Shale	2215	2460
Shale & Lime	2460	2710
Lime & shale strks	2710	2895
Lime & Shale	2895	3235
Lime & shale strks	3235	3370
Lime	3370	3665
RTD	3665	

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"	24#	345'	com	225	2% gel, 3% cc
Production		4½"	14#	3661		125	

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	3514-3524		
2	3530-3538	A 1000 gal M.A.	3514-38 OA

TUBING RECORD size set at packer at Liner Run ☐ Yes ☐ No

Date of First Production	Producing method					
10/26/84	☐ flowing	☒ pumping	☐ gas lift	☐ Other (explain)		

	Oil	Gas	Water	Gas-Oil Ratio	Gravity
Estimated Production Per 24 Hours	85 Bbls	none MCF	none Bbls	CFPB	

Disposition of gas: ☐ vented ☐ sold ☐ used on lease

METHOD OF COMPLETION
☐ open hole ☒ perforation
☐ other (specify)
☐ Dually Completed.
☐ Commingled

PRODUCTION INTERVAL
3514-38 OA