

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 # 7076
Name Black Diamond Oil, Inc.
Address 1105 E. 30th
City/State/Zip Hays, Ks. 67601

Purchaser: Farmland Ind.
P.O. Box 7305
Kansas City, Mo. 64116
Operator Contact Person Kenneth Vehige
Phone 913 625-5891

Contractor: License # 8241
Name Emphasis Oil Operations

Wellsite Geologist Mark Torr
Phone 913 628-3131

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

If OWVO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
5/15/84 5/22/84 8/01/84
Spud Date Date Reached TD Completion Date
3770'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 250' feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 1968' feet
If alternate 2 completion, cement circulated from 1968' feet depth to Surf. 350' SX cmt

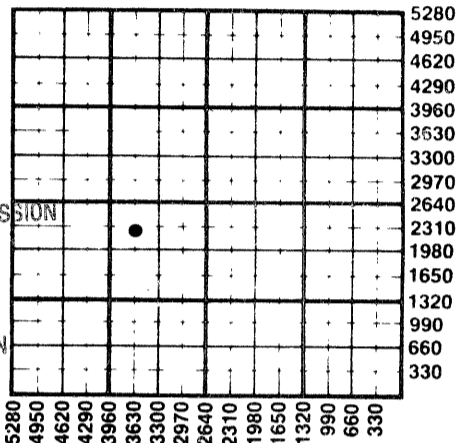
API NO. 15-163-22-368-00-00
County Rooks
NW NE SW Sec. 32 Twp. 6 Rge. 20 East West

2310 Ft North from Southeast Corner of Section
3630 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name Mollhagen Well # 5
Field Name Todd SE

Producing Formation Kansas City

Elevation: Ground 2245' KB 2240'
Section Plat



RECEIVED
STATE CORPORATION COMMISSION
OCT 26 1984
CONSERVATION DIVISION
Wichita, Kansas

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 #
 Groundwater (Well) Ft North from Southeast Corner
Ft West from Southeast Corner of Sec Twp Rge East West
 Surface Water (Stream, pond etc) Ft North from Southeast Corner
Ft West from Southeast Corner Sec Twp Rge East West
 Other (explain) Water hauled in by truck (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.

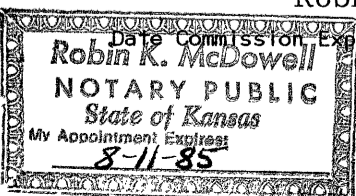
All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature *Kenneth Vehige*
Title President/Operator Date 10-24-84

Subscribed and sworn to before me this 24th day of October 1984
Notary Public Robin K. McDowell

Date Commission Expires August 11, 1985

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



Sec 32 Twp 6 Rge 20 W

SIDE TWO

Operator Name Black Diamond Oil, Inc. Lease Name Mollhagen Well # 5

Sec. 32 Twp. 6S Rge. 20W East West County Rooks

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

Formation Description
 Log Sample

DST #1

Interval: 3432-3466
 Times: 45-45-45-45
 Blow: Fair slow bldg./weak slow bldg.
 Flow Pressures: 68-78/78-88#
 Shutin Pressures: 1096-1058#
 Recovery: 90' muddy water

DST #2

Interval: 3494-3534
 Times: 45-45-45-45
 Blow: good, good steady; good slow bldg.
 Flow Pressures: 68-78/107-126#
 Shutin Pressures: 1213-1213#
 Recovery: 185' slight oil cut muddy water

DST #3

Interval: 3608-3667 Blow: strong off btm.
 Times: 45-45-45-45 Flow Pressures: 97-146/185-205
 Shutin: 575-604' Recovery: 665' GIP: 355' clean gassy oil; 60' muddy oil

Name	Top	Bottom
Topeka Lmst.	3241'	-991
Heebner Shale	3444'	-1194
Toronto Lmst.	3467'	-1217
Lansing-K.C.	3481'	-1231
Bs. K.C.	3673'	-1423
Arbuckle	3711'	-1461
RTD	3783'	-1533

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> 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#	259'	Common	180	3% cc, 2% gel.
Production	7 7/8"	4 1/2"	10.5#	3372'	60/40 pz.		5% gel, 2% gel

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
1	3652, 3634, 3620	1500 gls. 15% mud acid	3652, 3634 &
4	3704-08, 3651-54, 3633-35 & 3618-21	retreat w/ 750 gls. 15% Mod-202	3620

TUBING RECORD	Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2 3/8"	3676'	None		

Date of First Production	Producing Method
8/01/84	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
15	Bbls	0 MCF	30 Bbls	CFPB	37°

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) 3618'
 Used on Lease Dually Completed 3652'
 Commingled