

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, Suite A  
City/State/Zip Hays, Ks. 67601

Purchaser Farmland Industries  
Kansas City, Mo. 64116

Operator Contact Person Kenneth Vehige  
Phone 913 625-5891

Contractor: License # 8241  
Name Emphasis Oil Operations

Wellsite Geologist Kenneth VEhige  
Phone 913 625-5891

Designate Type of Completion

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

If OWNO: old well info as follows:

Operator  
Well Name  
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:

- Mud Rotary  Air Rotary  Cable

1/08/85 1/13/85 02/08/85  
Spud Date Date Reached TD Completion Date  
3510  
Total Depth PBT

Amount of Surface Pipe Set and Cemented at 218 feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set...feet  
If alternate 2 completion, cement circulated from...feet depth to...w/SX cmt

API NO. 15-163-22-585-00-00

County Rooks

N.W. N.W. N.W. Sec. 24. Twp. 7S. Rge. 20W.  East  West

4950 Ft North from Southeast Corner of Section  
4950 Ft West from Southeast Corner of Section

(Note: Locate well in section plat below)

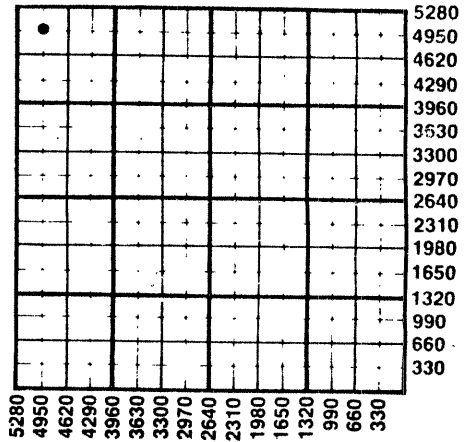
Lease Name Perkins Well # 2

Field Name Alcona

Producing Formation K.C.

Elevation: Ground 2029' KB 2034'

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 # POND

Groundwater...Ft North from Southeast Corner (Well) ...Ft West from Southeast Corner of Sec Twp Rge  East  West

Surface Water 200 Ft North from Southeast Corner (Stream, pond etc) 200 Ft West from Southeast Corner Sec 10 Twp 7S Rge 20  East  West

Other (explain) (purchased from city, R.W.D. #)

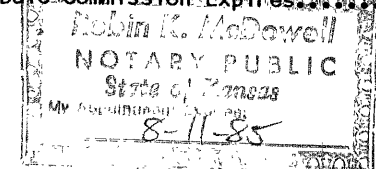
INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 and 82-3-107 apply. Information on side two of this form will be held 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 [Signature] President Date 4/10/85

Subscribed and sworn to before me this 10th day of April 1985  
Notary Public Robin K. McDowell

Date Commission Expires 8/11/85



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)

APR 11 1985  
APR 11 1985  
Form ACO-1 (7-84)  
CONSERVATION DIVISION  
Wichita, Kansas

Sec 24 Twp 7S Rge 20W

**SIDE TWO**

Operator Name Black Diamond Oil, Inc. Lease Name Perkins Well # 2

Sec. 24 Twp. 7S Rge. 20  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 3382-3415  
 Blow: good bldg. 2nd-strong blow  
 Recovery: 390' gas in pipe  
 270' gassy oil  
 Pressures: IF: 78-97# in 45 min.  
 ISI: 826# in 45 min.  
 FF: 107-126# in 45 min.  
 FSI: 806# in 45 min.

Name	Top	Subsea Bottom
Anhydrite	1539'	+495
Bs. Anhydrite	1568'	+466
Topeka	3000'	-966
Oread	3153'	-1119
Heebner	3202'	-1168
Toronto	3225'	-1191
Lansing-K.C.	3240'	-1206
Bs. K.C.	3451'	-1417
Conglomerate	3490'	-1456
Arbuckle	Not Reached	
T.D.	3510'	-1476

**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"	20#	218'	Common	140	2% gel, 3% cc
Production	7 7/8"	5 1/2"	14#	3509'	60/40 pz	75	10% salt, 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
4	3485-95	250 gls. 15% MCA (Alcohol phase)	open hole 3512
1	3414, 3399, 3395	1000 gls. 15% MCA "	3485-95
4	3414-16, 3394-99	750 gls. 15% MCA; retreat with	3414-3399
		5000 gls. 15% deml.	
		Squeeze w/ 50 sks. cement	3497-3512

**TUBING RECORD** Size 2 7/8" Set At 3493' Packer at NONE Liner Run  Yes  No

Date of First Production 02/08/85 Producing Method  Flowing  Pumping  Gas Lift  Other (explain).....

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	25 Bbls	0 MCF	0 Bbls	0 CFPB	35.9

**METHOD OF COMPLETION** Production Interval

Disposition of gas:  Vented  Open Hole  Perforation  
 Sold  Other (Specify) ..... 3394'  
 Used on Lease  Dually Completed 3495'  
 Commingled .....