SIDE ONE

33-6-20W

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

Operator Contact Person Kenneth Vehige
Phone 913 625-5891

Contractor: license # 8241
name Emphasis Oil Operations

Wellsite Geologist Mark Torr
Phone 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 OWWO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

API NO. 15 - 163-22,387

County Rooks

SW/4 (location) Sec 33 Twp 6 Rge 20 ☐ East ☒ West

330 Ft North from Southeast Corner of Section
4950 Ft West from Southeast Corner of Section
(Note: locate well in section plat below)

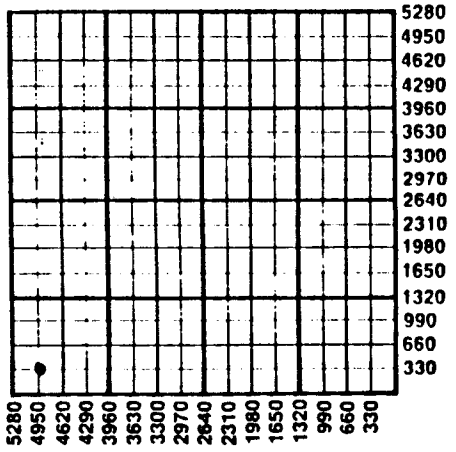
Lease Name Vehige Well# #1

Field Name Todd Southeast

Producing Formation N/A

Elevation: Ground 2182' KB 2187'

Section Plat



WELL HISTORY

Drilling Method: ☒ Mud Rotary ☐ Air Rotary ☐ Cable

5/24/84 5/31/84 7/2/84
Spud Date Date Reached TD Completion Date

3832 RTD 3832'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 259' 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

RECEIVED
STATE CORPORATION COMMISSION

WATER SUPPLY INFORMATION

Source of Water:

Division of Water Resources Permit # N/A

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

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

☑ Other (explain) supplied by Water Hauler
(purchased from city, R.W.D.#)

Disposition of Produced Water: ☐ Disposal ☐ Repressuring

Docket #

TUBING RECORD size 2 7/8" set at 3750' packer at 3750' Liner Run ☐ Yes ☑ No

Date of First Production	Producing method					
	☐ flowing	☐ pumping	☐ gas lift	☑ Other (explain) SAM Water Disposal		

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

SIDE TWO

Operator Name Black Diamond Oil, Inc Lease Name Vehige Well# 1 SEC 33 TWP 6 RGE 20 ☐ East ☑ West

33-6-20W

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 3385-3410 (Toronto)
Times: 30-45-15-0
Blow: Weak, decreasing to very weak
no blow on second open
Recovery: 10' of mud w/ few spots of oil
Shut-in Pressures: 1164#
Flow Pressures: 29-29#

DST #2 3440-3480 (L-K.C. C & D zones)
times: 60-45-60-45
Blow: Weak on both opens
Recovery: 30' muddy water
Shut-in Pressures: 1030-1025#
Flow Pressures: 28-28 & 38-38#

DST #3 3552-3614 (L-K.C. I,J,K & L Zones)
Times: 45-30-45-30
Blow: building to 5"-1st open
1"-2nd open
Recovery: 5' clean oil; 15' heavy oil-cut mud
60' oil-cut mud
Shut-in Pressures: 689-275#
Flow Pressures: 38-38# & 48-48#

Formation Description
☒ Log ☐ Sample

Name	Top	Bottom
Topeka Limestone	3173'	-986'
Heebner Shale	3381'	-1194'
Toronto Limestone	3404'	-1217'
Lansing-K.C.	3419'	-1232'
Bs. of K.C.	3616'	-1429'
Arbuckle	3652'	-1465'
Granite Wash	3797'	-1610'
RTD	3832'	-1645'

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

AUG 1 1984

State Geological Survey

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

PRODUCTION INTERVAL
.....
.....

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#	259'	Class A	175	3% CC, 2% gel
Production	7 7/8"	5 1/2"	14#	3786'	Common	100	3% cc, 2% gel
Production	7 7/8"	5 1/2"	14#	1804-Surf.	Class A	625	celloflake

PERFORATION RECORD

shots per foot	specify footage of each interval perforated	Acid, Fracture, Shot, Cement Squeeze Record (amount and kind of material used)	Depth
4 per foot	3405½-06½	250 gls. 15% mud acid	3404½-06½
1 each	3605 & 3587	1250 gls. 28% reg. acid	open hole
2 per foot	3763-83	treat w/ 750 gls. 15% mud acid; retreat w/...	3605-3587
		3500 gls. 15% AOG-200; retreat w/ 3500 gls. AOG-200	
			open hole &