

ORIGINAL

SIDE ONE

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

Operator: License # 7076

Name: Black Diamond Oil, Inc.

Address 3004 Broadway Avenue

City/State/Zip Hays, Kansas 67601

Purchaser: Farmland Industries Inc

Operator Contact Person: Kenneth Vehige

Phone (913) -625-5891

Contractor: Name: Emphasis Oil Operations

License: 8241

Wellsite Geologist: Kenneth Vehige

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If **OWMO**: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

3/14/90 3/22/90 4/24/90
Spud Date Date Reached TD Completion Date

API NO. 15- 163-23,087 00-00

County Rooks

NW NW SE Sec. 25 Twp. 17S Rge. 18 East West

2310 Ft. North from Southeast Corner of Section

2310 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

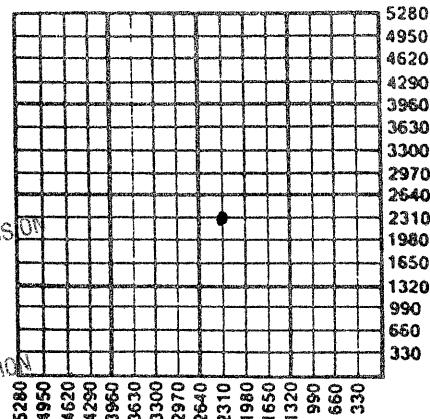
Lease Name KU Well # 2

Field Name _____

Producing Formation Arbuckle

Elevation: Ground 1765' KB 1770'

Total Depth 3247' PBDT _____



Amount of Surface Pipe Set and Cemented at 1142 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 cmt.

RECEIVED
STATE CORPORATION COMMISSION
JUN 15 1990
KANSAS
Wichita, Kansas
1 1/4"

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 Owner/Operator Date 6-14-90

Subscribed and sworn to before me this 14th day of June, 19 90.

Notary Public Jolene H. Klaus
Date Commission Expires 2/5/94

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)



1A112170

SIDE TWO

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

Sec. 25 Twp. 17S Rge. 18 East West County Rooks

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.)
See Attached
Samples Sent to Geological Survey Yes No
Cores Taken Yes No
Electric Log Run Yes No
(Submit Copy.)

Name	Formation Description	
	Top	Bottom
Anhydrite	1132	1172
Topeka	2689	--
Lansing-K.C.	2940	3164
Arbuckle	3197	--
TD in Arbuckle		

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
Conductor	17 1/2"	13 3/8"		96	60/40POZ	100	Quick Set
Surface	12 1/4"	8 5/8"		1142	60/40Poz	425	3%CC 2%Gel
Production	7 7/8"	5 1/2"		3244	60/40Poz	130	10% Salt

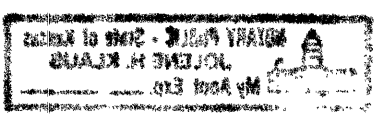
Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	3232-3236 (Arbuckle)	250 gals. 15% INS	
	3160-3137 each with 1 hole	750 gals. 15% MCA	
	2942-2981	750 gals. 15% MCA	
	Perforations in Lansing-K.C. at 3160', 3170', 2942', and 2981', are not commercial.		

TUBING RECORD Size 2 3/8" Set At 3270 Packer At None Liner Run Yes No

Date of First Production 5/1/90 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	20		20		30

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.) METHOD OF COMPLETION Open Hole Perforation Dually Completed Commingled Other (Specify) _____ Production Interval _____



5/9/90

KU#2 ACO1

15-163-23087-00-00

You may notice that surface pipe was set at 1142'. This is 8' short of required depth of 1150'. Pipe was set 10' into the Anhydrite and this is the customary place for setting pipe in all wells of that area. It just happens the Anhydrite was higher than anticipated. The local DCC office was notified of this situation.

Kenneth Vehige

RECEIVED
STATE OF KANSAS
JUN 15 1990
6-15-90
CONSERVATION DIVISION
Wichita Kansas

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

15-163-23087-00-00

Drill-Stem Test Data

Well Name & No. <u>KU #2</u>	Test No. <u>1</u>	Date <u>3/20/90</u>
Company <u>BLACK DIAMOND OIL INC</u>	Zone Tested _____	
Address <u>3004 BROADWAY HAYS KS 67601</u>	Elevation <u>1770 KB</u>	
Co. Rep./CBO <u>MR KEN VEHIGE</u>	Cont. <u>EMPHASIS #6</u>	Est. Ft. of Pay <u>0</u>
Location: Sec. <u>25</u>	Twp. <u>7S</u>	Rge. <u>18W</u> Co. <u>ROOKS</u> State <u>KANSAS</u>

Interval Tested <u>2966-2989</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>29</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>2961</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>2966</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>0</u>
Total Depth <u>2989</u>	Drill Collar — 2.25 Ft. Run <u>0</u>
Mud Wt. <u>9.5</u> lb/gal.	Viscosity <u>52</u> Filtrate <u>6.4</u>
Tool Open @ <u>5:30 AM</u> Initial Blow <u>3" DECREASING TO NO BLOW IN 30 MINUTES -</u> <u>(SLID TOOL 10' TO BOTTOM)</u>	
Final Blow <u>NO BLOW -- (NO FINAL SHUT IN RAN)</u>	

Recovery — Total Feet <u>110</u>	Flush Tool? <u>2nd OPEN</u>
Rec. <u>110</u> Feet of <u>DRILLING MUD-NO SHOW</u>	
Rec. <u>0</u> Feet of _____	
Rec. <u>0</u> Feet of _____	
Rec. <u>0</u> Feet of _____	
Rec. <u>0</u> Feet of _____	
BHT <u>101</u> °F Gravity _____ °API @ <u>0</u> °F Corrected Gravity <u>0</u> °API	
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides <u>36000</u> ppm System	
(A) Initial Hydrostatic Mud <u>1490.2</u> PSI Ak1 Recorder No. <u>13754</u> Range <u>4000</u>	
(B) First Initial Flow Pressure <u>31.2</u> PSI @ (depth) <u>2970</u> w/Clock No. <u>17652</u>	
(C) First Final Flow Pressure <u>42.3</u> PSI AK1 Recorder No. <u>13849</u> Range <u>13849</u>	
(D) Initial Shut-In Pressure <u>999.7</u> PSI @ (depth) <u>2985</u> w/Clock No. <u>31152</u>	
(E) Second Initial Flow Pressure <u>61.2</u> PSI AK1 Recorder No. <u>0</u> Range <u>0</u>	
(F) Second Final Flow Pressure <u>70.3</u> PSI @ (depth) <u>0</u> w/Clock No. <u>0</u>	
(G) Final Shut-In Pressure <u>0</u> PSI Initial Opening <u>30</u>	
(H) Final Hydrostatic Mud <u>1440.1</u> PSI Initial Shut-In <u>45</u>	
	Final Flow <u>15</u>
	Final Shut-In <u>0</u>

RECEIVED
STATE DEPARTMENT OF REVENUE
JUN 15 1990
6-15-90
CONSERVATION DIVISION
Wichita, Kansas

MR DAN BANGLE

400

Our Representative _____

TOTAL PRICE \$ _____

13-163-23087-00-00

3-483-2627, Russell, Kansas

Phone Plainville 913-434-2812

none 316-793-5861, Great Bend, Kansas

Phone Ness City 913-798-3843

New

ALLIED CEMENTING CO., INC. N^o 8731

Home Office P. O. Box 31

Russell, Kansas 67665

Date	4-19-90	Sec.	25	Twp.	7 ^s	Range	18 ^w	Called Out	12:30 P.M.	On Location	1:30 P.M.	Job Start	2:00 P.M.	Finish	6:00 P.M.	
Lease	KU	Well No.	2	Location				Stockton 1/2 s W. side	County	Rooks	State	Ks.				
Contractor	Ostrom Well Service															
Type Job	Squeeze															
Hole Size	7 7/8"	T.D.	3247'													
Csg.	5 1/2"	Depth	3244'													
Tbg. Size	2"	Depth														
Drill Pipe	Bridge Plug	Depth	3100'													
Tool	Reinhardt	Depth	2890'													
Cement Left in Csg.	-	Shoe Joint														
Press Max.	2000#	Minimum														
Meas Line		Displace	X													
Perf.	1 hole @ 2942' & 1 hole @ 2981'															

Owner Same
 To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Black Diamond Oil, Inc.
 Street 3004 Broadway Ave.
 City Hays, State Ks. 67601
 The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. _____
 X *[Signature]*
 CEMENT

EQUIPMENT

No.	Cementor	Gary H. Wayne Me.
Pumptrk 191	Helper	
No.	Cementor	Glen C.
Pumptrk	Helper	
	Driver	
Bulktrk #212	Driver	

Amount Ordered	150 sks @ 60/40 @ 02	
Consisting of	2 sks sand	
Common	90 sks @ 5.00/sk.	\$450.00
Poz. Mix	60 sks @ 2.25/sk.	135.00
Gel.		
Chloride		
Quickset		
Sand	2 sks @ 4.75/sk.	9.50
Sales Tax		
Handling	290 @ 1/sk. (150 sks)	135.00
Mileage	203 @ 1/sk./mi. (13 mi.)	58.50
Sub Total		788.00
Total		

Floating Equipment Thanks

JUN 15 1990

DEPTH of Job

Reference	#4 Pumptruck-squeeze	\$450.00
	#14 mileage @ 1.00/mi.	13.00
Sub Total		\$463.00
Tax		
Total		

Remarks:

Set bridge plug & tested tools at 2000#
 spotted sand on plug. Came above crabs & took
 injection rate of 3 bbls./min. @ 800# Mixed cement
 & squeezed to 1500#, Cleared plug & csg.

13-163-23087-00-00

Phone 316-793-5861, Great Bend, Kansas
 Phone 913-483-2627, Russell, Kansas

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

New

ALLIED CEMENTING CO., INC. N^o 8701

Home Office P. O. Box 31 Russell, Kansas 67665

Date	3-22-90	Sec.	25	Twp.	7 ^s	Range	18 ^w	Called Out	1:00 A.M.	On Location	4:30 A.M.	Job Start	8:00 A.M.	Finish	8:45 A.M.
Lease	KY	Well No.	2	Location	Stockton 1 1/2 S W. side			County	Rooks	State	KS.				
Contractor	Emphasis Oil Operations Rig #6							Owner	Same						
Type Job	Production String														
Hole Size	7 7/8"			T.D.	3247'										
Csg.	5 1/2"			Depth	3244'										
Csg. Size	8 7/8"			Depth	1142'										
Cmn. Pipe	13 3/8"			Depth	96'										
Tool	Depth														
Cement Left in Csg.	9'			Shoe Joint	9'										
Press Max.	Minimum														
Meas Line	Displace <input checked="" type="checkbox"/>														
Perf.															

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Black Diamond Oil, Inc.
 Street 3004 Broadway Avenue
 City Hays State Ks. 67601

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. _____
 [Signature]
CEMENT

EQUIPMENT

No.	Cementer	<i>Gary H. Wayne Me.</i>
Pumptrk 191	Helper	
No.	Cementer	<i>Glen C.</i>
Pumptrk	Helper	
Bulktrk #212	Driver	
Bulktrk	Driver	

Amount Ordered	130 sks 60/40 902 10% salt	
Consisting of		
Common	78 sks @ \$5.00/sk.	\$390.00
Poz. Mix	52 sks @ 2.25/sk.	117.00
Gel.		
Chloride		
Quickset		
Salt	13 sks @ 4.75/sk.	61.75

DEPTH of Job		
Reference:		
#1	Pumptruck-long string	838.00
#8	1-5 1/2" rubber plug	43.00
#14	Mileage @ 1.00/mi.	13.00
	Sub Total	894.00
	Tax	
	Total	

Handling	290 @ 4/sk. (130 sks)	117.00
Mileage	@ 0.37/sk./mi. (13 mi.)	50.70
	Sub Total	736.45
	Total	

Remarks: ~~Cement~~
 Float Held.
 Plugged rate hole w/15 sks

Floating Equipment	5 1/2"	
1-regular guide shoe		\$119.00
1-AFU insert (model "L")		180.00
4-centralizers @ 44.00 ea		176.00
1-cementing basket		121.00
		<u>\$596.00</u>

Thanks

483-2627, Russell, Kansas
 316-793-5861, Great Bend, Kansas

15-163-23087-00-00

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC. N^o 8570

Home Office P. O. Box 31 Russell, Kansas 67665

Date	3-16-90	Sec.	25	Twp.	7	Range	18	Called Out	4:00 AM	On Location	7:00 AM	Job Start	9:30 AM	Finish	10:15 AM	
Lease	KU	Well No.	2	Location				Stockton 1S 1W5	County	Rooks	State	Ks				

Contractor	Emphasis Dr Dalg	
Type Job	Long Surface	
Hole Size	12 1/4	T.D.
Csg.	8 7/8	Depth
Tbg. Size		Depth
Drill Pipe		Depth
Tool		Depth
Cement Left in Csg.	15-20	Shoe Joint
Press Max.		Minimum
Meas Line	✓	Displace
Perf.		

Owner	To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Charge To	Black Diamond Oil	
Street	3004 Broadway Ave.	
City	Hays	State Ks 67601
The above was done to satisfaction and supervision of owner agent or contractor.		

Purchase Order No. *[Signature]* #6

CEMENT

Amount Ordered	425.00 3% CC 2% gel	
Consisting of		
Common	255	5.00 1275.00
Poz. Mix	170	2.25 382.50
Gel.	8	6.75 54.00
Chloride	13	20.00 260.00
Quickset.		

Handling	90	382.50
Mileage	12 mi	03 153.00
Sub Total		2507.00
Total		

Floating Equipment

STATE COMPTROLLER
 JUN 15 1990
 CONSERVATION DIVISION
 Wichita, Kansas

EQUIPMENT

No.	Cementor	<i>Dave Gould</i>
Pumptrk 133	Helper	
No.	Cementor	<i>Mark</i>
Pumptrk	Helper	
Bulktrk 146	Driver	
Bulktrk	Driver	

DEPTH of Job	
Reference:	
<i>PUMD tok chg</i>	360.00
<i>100 per mile</i>	12.00
<i>Sold 8 7/8 Rubber Plug</i>	71.00
Sub Total	443.00
Tax	
Total	

Remarks: *Cement Cic*

15-163-23087-00-00

3-483-2627, Russell, Kansas
 ne 316-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

New

ALLIED CEMENTING CO., INC. N^o 8545

Home Office P. O. Box 31

Russell, Kansas 67665

3-15-90

Date	3-14-90	Sec.	25	Twp.	7 ^s	Range	18 ^w	Called Out	5:45 P.M.	On Location	8:00 P.M.	Job Start	12:45 A.M.	Finish	1:00 A.M.	
Lease	KU	Well No.	2	Location				Stockton 1/2 S.W. side	County	Rooks	State	Ks.				

Contractor	Emphasis Oil Operations Rig #6		Owner	Same	
Type Job	Set Conductor Pipe		To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.		
Hole Size	17 1/4"	T.D.	100'	Charge To	Black Diamond Oil, Inc.
Csg.	13 3/8"	Depth	96'	Street	3004 Broadway Avenue
Tbg. Size		Depth		City	Hays, State Ks. 67601
Drill Pipe		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tool		Depth		Purchase Order No.	
Cement Left in Csg.	7'	Shoe Joint		x M.R. Halford (Emphasis Rep)	
Press Max.		Minimum		CEMENT	
Meas Line		Displace	X	Amount Ordered	100 sks 60/40 902 Quick Set
Perf.				Consisting of	

EQUIPMENT

No.	Cementer	Gary H. Wayne Mc.
Pumptrk 191	Helper	
No.	Cementer	Blen C.
Pumptrk	Helper	
	Driver	
Bulktrk #212		
Bulktrk	Driver	

Amount Ordered	100 sks 60/40 902 Quick Set	
Consisting of		
Common	60 sks @ \$5.00/sk.	\$300.00
Poz. Mix	40 sks @ 2.25/sk.	90.00
Gel.		
Chloride		
Quickset	5 units @ 25.00/sk.	125.00
Sales Tax		
Handling	@ 90¢/sk. (100 sks)	90.00
Mileage	@ 0.34/sk./mi. (13 mi. min.)	40.00
Sub Total		\$645.00
Total		

STATE OF KANSAS
 JUN 15 1990
 CONSERVATION DIVISION
 Wichita, Kansas
 Floating Equipment
 Thanks

DEPTH of Job		
Reference:	#1 Pumptruck-conductor	360.00
	#14 mileage @ 1.00/mi.	13.00
Sub Total		373.00
Tax		
Total		

Remarks: Cement Circulated.