

*for
on
2/13/09*

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL Form ACO-1
September 1999
Form-Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 7076
Name: Black Diamond Oil, Inc.
Address: P.O. Box 641
City/State/Zip: Hays, KS 67601
Purchaser: _____
Operator Contact Person: Kenneth Vehige
Phone: (785) 625-5891
Contractor: Name: Discovery Drilling Co., Inc.
License: 31548
Wellsite Geologist: Tony Richardson

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:
Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

| | | |
|-----------------------------------|------------------|---|
| <u>8/6/2008</u> | <u>8/17/2008</u> | <u>8/18/2008</u> |
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |

API No. 15 - 163-23,745-0000
County: Rooks
SE SW NW SE Sec. 30 Twp. 6 S. R. 20 East West
1630 feet from (S) / N (circle one) Line of Section
2180 feet from (E) / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE (SE) NW SW
Lease Name: States Well #: 1
Field Name: Wildcat

Producing Formation: None
Elevation: Ground: 2297 Kelly Bushing: 2305
Total Depth: 3778 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at 222.40 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.
(30sks In Rat Hole)(25sks In Mouse Hole)

Drilling Fluid Management Plan *P+A Alt II NR*
(Data must be collected from the Reserve Pit) 3-9-09
Chloride content 12,000 ppm Fluid volume 240 bbls
Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover, or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of 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 geologist well report 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.

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 Date: 2-3-09
Subscribed and sworn to before me this 3rd day of February,
2009.

Notary Public: ISSAT WINDHOLZ
NOTARY PUBLIC
Date Commission Expires: ASAS
STATE OF KANSAS My Appt. Exp. 5/21/2011

Messiah Windholz
6/21/2011

KCC Office Use ONLY

Letter of Confidentiality Received
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

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FEB 05 2009
CONSERVATION DIVISION
WICHITA, KS

Operator Name: Black Diamond Oil, Inc. Lease Name: States Well #: 1
 Sec. 30 Twp. 6 S. R. 20 East West County: Rooks

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

| | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|----------------------------------|---------------------------------|------|-----|-------|-----------|------|------|--------|------|------|---------|------|-------|------------|------|-------|----------|------|-------|
| Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: Dual Induction, Micro compensated density | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/> Log</td> <td>Formation (Top), Depth and Datum</td> <td><input type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>Anhydrite</td> <td>1907</td> <td>+398</td> </tr> <tr> <td>Topeka</td> <td>3289</td> <td>-984</td> </tr> <tr> <td>Heebner</td> <td>3492</td> <td>-1187</td> </tr> <tr> <td>Lansing KC</td> <td>3525</td> <td>-1220</td> </tr> <tr> <td>Arbuckle</td> <td>3453</td> <td>-1448</td> </tr> </table> | <input checked="" type="checkbox"/> Log | Formation (Top), Depth and Datum | <input type="checkbox"/> Sample | Name | Top | Datum | Anhydrite | 1907 | +398 | Topeka | 3289 | -984 | Heebner | 3492 | -1187 | Lansing KC | 3525 | -1220 | Arbuckle | 3453 | -1448 |
| <input checked="" type="checkbox"/> Log | Formation (Top), Depth and Datum | <input type="checkbox"/> Sample | | | | | | | | | | | | | | | | | | | | |
| Name | Top | Datum | | | | | | | | | | | | | | | | | | | | |
| Anhydrite | 1907 | +398 | | | | | | | | | | | | | | | | | | | | |
| Topeka | 3289 | -984 | | | | | | | | | | | | | | | | | | | | |
| Heebner | 3492 | -1187 | | | | | | | | | | | | | | | | | | | | |
| Lansing KC | 3525 | -1220 | | | | | | | | | | | | | | | | | | | | |
| Arbuckle | 3453 | -1448 | | | | | | | | | | | | | | | | | | | | |

| CASING RECORD <input 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 Pipe | 12 1/4" | 8 5/8 | 23 | 222.40 | Common | 250 | 2%Gel&3%CC |
| | | | | | | | |
| | | | | | | | |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|--|------------------|----------------|-------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | #Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone | | | | |
| | | | | |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) | Depth |
|----------------|---|---|-------|
| | | | |
| | | | |
| | | | |
| | | | |

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 WICHITA, KS

| | | | | | |
|--|-----------|---|-------------|---------------|--|
| TUBING RECORD | | Size | Set At | Packer At | Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Date of First, Resumerd Production, SWD or Enhr. | | Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) | | | |
| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |

Disposition of Gas Vented Sold Used on Lease *(If vented, Submit ACO-18.)* METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

ALLIED CEMENTING CO LLC. 34774

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Russell

| | | | | | | | |
|-------------------------|----------------|-----------------------------------|-----------------|------------|--------------------|--------------------------|--------------------------|
| DATE <u>8-17-08</u> | SEC <u>30</u> | TWP <u>6</u> | RANGE <u>20</u> | CALLED OUT | ON LOCATION | JOB START <u>11:30am</u> | JOB FINISH <u>2:45pm</u> |
| LEASE <u>STATS</u> | WELL# <u>1</u> | LOCATION <u>Dumas 12 N 20 E W</u> | | | COUNTY <u>Rice</u> | STATE <u>Kansas</u> | |
| OLD OR NEW (Circle one) | | | | | | | |

CONTRACTOR Discerning Drilling, Inc.

TYPE OF JOB Rotary Hdy

HOLE SIZE 7 7/8 TD. 3778

CASING SIZE 5 1/2 DEPTH 223

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 x H DEPTH 3730

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER _____

CEMENT AMOUNT ORDERED 245 SK @ 940

4 bags @ 10 #10 - 800

PER SK

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

EQUIPMENT

PUMP TRUCK CEMENTER GT-444

398 HELPER Barry

BULK TRUCK _____

398 DRIVER Ricky

BULK TRUCK _____

_____ DRIVER _____

REMARKS:

25 SK @ 3730

25 SK @ 1920

100 SK @ 1200

40 SK @ 275

10 SK @ 40

20 SK @ Rethole

15 SK @ mouse hole

TRANS

TOTAL _____

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

MANIFOLD _____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

CHARGE TO: Black Diamond Oil

STREET _____

CITY _____ STATE _____ ZIP _____

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____

SIGNATURE [Signature]

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CONSERVATION DIVISION
WICHITA KS

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

ALLIED CEMENTING CO. LLC. 34767

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Russell

| | | | | | | | |
|---------------------------------------|---------------|------------------------------------|------------------|-------------------|------------------------|-----------------------------|------------------------------|
| DATE <u>8-6-08</u> | SEC <u>30</u> | TWP <u>6 S</u> | RANGE <u>20W</u> | CALLED OUT | ON LOCATION | JOB START <u>7:00 PM</u> | JOB FINISH <u>7:30 PM</u> |
| LEASE <u>STATES</u> WELL # <u>1</u> | | LOCATION <u>DUMAR 11 1/2 N 12W</u> | | | COUNTY <u>HOOKS</u> | STATE <u>KANSAS</u> | |
| OLD OR NEW (Circle one) <u>NEW</u> | | | | <u>Y2 A INTER</u> | | | |

| | |
|--|---|
| CONTRACTOR <u>Discovery Drilling</u> | OWNER _____ |
| TYPE OF JOB <u>Cement Surfaced</u> | CEMENT AMOUNT ORDERED <u>160 SK Com</u> |
| HOLE SIZE <u>13 1/4</u> T.D. <u>223'</u> | <u>39 CC</u> |
| CASING SIZE <u>8 5/8 New</u> DEPTH <u>223'</u> | <u>27 GEL</u> |
| TUBING SIZE _____ DEPTH _____ | COMMON _____ @ _____ |
| DRILL PIPE _____ DEPTH _____ | POZMIX _____ @ _____ |
| TOOL _____ DEPTH _____ | GEL _____ @ _____ |
| PRES. MAX _____ MINIMUM _____ | CHLORIDE _____ @ _____ |
| MEAS. LINE _____ SHOE JOINT _____ | ASC _____ @ _____ |
| CEMENT LEFT IN CSG. <u>15'</u> | _____ @ _____ |
| PERFS. _____ | _____ @ _____ |
| DISPLACEMENT <u>13 1/4 / BBL</u> | _____ @ _____ |
| EQUIPMENT | HANDLING _____ @ _____ |
| PUMP TRUCK CEMENTER <u>Bob</u> | MILEAGE _____ @ _____ |
| # <u>398</u> HELPER <u>Bob</u> | _____ @ _____ |
| BULK TRUCK # <u>345</u> DRIVER <u>Roger</u> | _____ @ _____ |
| BULK TRUCK # _____ DRIVER _____ | _____ @ _____ |

REMARKS:

Cement did not circulate
Run 1" Tank S

CHARGE TO: Black Diamond Oil Co.
STREET _____
CITY _____ STATE _____ ZIP _____

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____
SIGNATURE [Signature]

TOTAL _____

SERVICE

DEPTH OF JOB _____
PUMP TRUCK CHARGE _____
EXTRA FOOTAGE _____ @ _____
MILEAGE _____ @ _____
MANIFOLD _____ @ _____
_____ @ _____

TOTAL _____

PLUG & FLOAT EQUIPMENT

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WICHITA, KS

_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____

TOTAL _____
SALES TAX (If Any) _____
TOTAL CHARGES _____
DISCOUNT _____ IF PAID IN 30 DAYS

ALLIED CEMENTING CO. LLC. 34768

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Russell

| | | | | | | | |
|--------------------------------|-----------------|--------------------------------------|-------------------|-------------------|---------------------|------------------------|-------------------------|
| DATE <u>2-6-08</u> | SEC. <u>30</u> | TWP. <u>6 S</u> | RANGE <u>20 W</u> | CALLED OUT | ON LOCATION | JOB START <u>11:30</u> | JOB FINISH <u>12:45</u> |
| LEASE <u>STATES</u> | WELL # <u>1</u> | LOCATION <u>Demar 11 1/2 N 1/2 W</u> | | | COUNTY <u>ROCKS</u> | STATE <u>KANSAS</u> | |
| OLD OR <u>NEW</u> (Circle one) | | | | <u>1/2 N INTO</u> | | | |

CONTRACTOR Discovery Drilling Right 1 OWNER _____
 TYPE OF JOB Cement / 858 Backside
 HOLE SIZE 12 1/4 T.D. _____
 CASING SIZE 8 7/8 DEPTH 223'
 TUBING SIZE 1" DEPTH 100'
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 300# MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT _____

CEMENT AMOUNT ORDERED 100 sk Com 3% cc

COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
 ASC _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING _____ @ _____
 MILEAGE _____ @ _____

TOTAL _____

EQUIPMENT

PUMP TRUCK CEMENTER GLENN
 # 398 HELPER BOB
 BULK TRUCK _____
 # 347 DRIVER LAVERNE
 BULK TRUCK _____
 # _____ DRIVER _____

REMARKS:

Ran 1" tubing to
100' of CIRCULATED
Cement to surface
THANKS

SERVICE

DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____
 EXTRA FOOTAGE _____ @ _____
 MILEAGE _____ @ _____ -NIC-
 MANIFOLD _____ @ _____
 _____ @ _____
 _____ @ _____

TOTAL _____

CHARGE TO: Black Diamond Oil Co.
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

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 CONSERVATION DIVISION
 WICHITA, KS

_____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____

TOTAL _____

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____

SIGNATURE [Signature]

SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS

ALLIED CEMENTING CO., LLC. 34774

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Russell
8-18-08

| | | | | | | | |
|--------------------------------|----------------|-----------------------------------|-----------------|------------|---------------------|--------------------------|--------------------------|
| DATE <i>8-17-08</i> | SEC <i>30</i> | TWP. <i>6</i> | RANGE <i>20</i> | CALLED OUT | ON LOCATION | JOB START <i>11:30pm</i> | JOB FINISH <i>2:45am</i> |
| LEASE <i>STATES</i> | WELL# <i>1</i> | LOCATION <i>Damar 12 N 2W 2 N</i> | | | COUNTY <i>ROCKS</i> | STATE <i>KANSAS</i> | |
| OLD OR <u>NEW</u> (Circle one) | | | | | | | |

CONTRACTOR *Discovery Drilling Right 1*

TYPE OF JOB *Rotary Plug*

HOLE SIZE *7 7/8* TD. *3778*

CASING SIZE *8 7/8 SURFACE* DEPTH *223*

TUBING SIZE _____ DEPTH _____

DRILL PIPE *4 1/2 X-H* DEPTH @ *3730*

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER _____

CEMENT

AMOUNT ORDERED *295 SK @ 40*

4 7/8 GEL *1/4 #F10-Seal*

PER SK

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

EQUIPMENT

PUMP TRUCK CEMENTER *GLENN*

398 HELPER *GARY*

BULK TRUCK

378 DRIVER *Rocky*

BULK TRUCK

_____ DRIVER _____

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CONSERVATION DIVISION
WICHITA, KS

HANDLING _____ @ _____

MILEAGE _____ @ _____

REMARKS:

25 SK @ 3730

25 SK @ 1920

100 SK @ 1200

40 SK @ 225

10 SK @ 40'

30 SK @ Rothole

15 SK @ mouse hole

TITANK'S

CHARGE TO: *Black Diamond Oil*

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL _____

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

MANIFOLD _____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cement and helper(s) to assist owner or contractor to do work as is listed. The above work was



DRILLING MUD REPORT REPORT NO. 7

DATE 8/16 2008 DEPTH 3765
 APT. WELL NO. STATE COUNTY WELL SVT

OPERATOR Black Diamond Oil CONTRACTOR Discovery RIG NO. 1
 ADDRESS CO ADDRESS Rt 1 SPUD DATE 8-6-08
 REPORT FOR MR. Ken V. REPORT FOR MR. Cliff M SECTION, TOWNSHIP, RANGE 30-6-20
 WELL NAME AND NO. States #1 FIELD OR BLOCK NO. COUNTY AREA STATE KS

| Drilling Assembly | | | Casing | | Mud Volume (BBL) | | Circulation Data | | |
|--------------------------------|-----------------------------|-----------------------------|---------------------------|----------------|-------------------------------------|-------------------------------|-----------------------------------|---------------------------------------|--|
| Bit Size <u>7 7/8"</u> | No. Bits <u>2</u> | Jet Size <u>3/14</u> | Surface <u>8 1/8"</u> | Fl. <u>387</u> | Hole Pits <u>300</u> | Pump Size x in. <u>6 x 14</u> | Annular Vol (Ft/Min) <u>197</u> | DC <u>356</u> | |
| Drill Pipe Size <u>4 1/2</u> | Type <u>XH</u> | Length | Intermediate | Fl. | Total Circulation Volume <u>587</u> | Pump Make, Model | Assumed Ed | Circulation Pressure (PSI) <u>800</u> | |
| Drill Collar Size <u>6 1/4</u> | Length | No. Pits <u>3</u> | Production or Liner | Fl. | Mud Up Depth <u>3067</u> | Bbl/Stroke <u>1.37</u> | Stroke/Min. <u>60</u> | Bottoms Up (Min.) <u>367</u> | |
| Bit RPM <u>60</u> | Weight on Bit <u>30,000</u> | Present Activity <u>DST</u> | Mud Type <u>Chemizone</u> | | Bbl/Min. <u>8</u> | Gal/Min. <u>36</u> | Total Circ Time (Min.) <u>74+</u> | | |
| Last Bit No. | | | | | Elevation <u>2250</u> | | | | |

| Sample from <input checked="" type="checkbox"/> Flowline () Pit | | MUD PROPERTIES | |
|--|---------------------------------|----------------|--|
| Flowing Temperature F | | | |
| Time Sample Taken | <u>8:27 AM</u> | | |
| Depth (ft.) | <u>3765</u> | | |
| Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.) | <u>9.5</u> | | |
| Mud Gradient (psi/ft.) | <u>494</u> | | |
| Funnel Viscosity (sec./qt.) API at °F | <u>5.5</u> | | |
| Plastic Viscosity cp at °F | <u>24</u> | | |
| Yield Point (lb./100 sq. ft.) | <u>18</u> | | |
| Gel Strength (lb./100 sq. ft.) 10 sec./10 min. | <u>30</u> <u>1</u> <u>1</u> | | |
| pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter | <u>10</u> | | |
| Filtrate API (ml./30 min.) | <u>8.0</u> | | |
| API HP-HT Filtrate (ml./30 min.) °F | | | |
| Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/> | <u>1.75</u> | | |
| Alkalinity, Mud (Pm) | <u>8</u> | | |
| Alkalinity, Filtrate (Pl / Ml) | <u>4</u> <u>1</u> <u>1</u> | | |
| Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input type="checkbox"/> ppm | <u>200</u> | | |
| Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb) | <u>30</u> | | |
| Sand Content (% by Vol.) | <u>0</u> | | |
| Solids Content (% by Vol.) | <u>8.4</u> | | |
| Oil Content (% by Vol.) | | | |
| Water Content (% by Vol.) | <u>91.6</u> | | |
| LCM, #/bbl | <u>2.5</u> | | |
| Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. BBL. base) | | | |

Mud Used:

| | |
|---------------|---------------|
| <u>40 Bar</u> | <u>920.00</u> |
| <u>12-6-1</u> | <u>149.40</u> |

Daily Cost \$1069.40 Cumulative Cost \$10,180.55

MUD PROPERTIES SPECIFICATIONS

WEIGHT 9.6-9.8 VISCOSITY 60+ FILTRATE 10cc

BY AUTHORITY: OPERATOR'S WRITTEN DRILLING CONTRACTOR
 OPERATOR'S REPRESENTATIVE OTHER

RECOMMENDED TREATMENT

60+ Vis/bbl

 60m as needed

 wt. 9.6 to 9.8

REMARKS:

"Thank you" Keep 60+ Vis/bbl!

Keep hole full (Mix 2 Disco with Cement Slush!)

at all times!!!

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUCTED AS AUTHORIZING THE INFRINGEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY ANDY'S MUD & CHEMICAL CO., OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

ENGINEER Rud Ward WAREHOUSE LOCATION 625-3531 TELEPHONE

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 CONSERVATION DIVISION
 WICHITA, KS



DRILLING MUD REPORT REPORT NO. 6
 DATE 8-15-08 DEPTH 3760
 APT. STATE COUNTY WELL S/T

OPERATOR Black Diamond Oil CONTRACTOR Discovery RIG NO. 1
 ADDRESS CO ADDRESS R.3 SPUD DATE 8-6-08
 REPORT FOR MR. Ken U. REPORT FOR MR. Cliff M. SECTION, TOWNSHIP, RANGE 30-6-30
 WELL NAME AND NO. States #1 FIELD OR BLOCK NO. COUNTY AREA Rocks STATE KS

| Drilling Assembly | | | Casing | | Mud Volume (BBL) | | Circulation Data | | |
|---------------------------------|------------------------------|----------------------|-----------------------|-----|---------------------------|------|-------------------------------|--|------------------------|
| Bit Size <u>7 7/8"</u> | No. Bits <u>2</u> | Jet Size <u>3/14</u> | Surface <u>8 5/8"</u> | Fl. | Hole | Pits | Pump Size x in. <u>6 14</u> | Annular Vel (F/Min) DP <u>177</u> | DC <u>356</u> |
| Drill Pipe Size <u>4 1/2"</u> | Type <u>XN</u> | Length | Intermediate | Fl. | Total Circulating Volume | | Pump Make, Model <u>EK 90</u> | Assumed Circulation Pressure (PSI) <u>800T</u> | |
| Drill Collar Size <u>6 1/4"</u> | Length | No. Pits <u>3</u> | Production or Liner | Fl. | Mud Lip Depth <u>3063</u> | | Bbl/Stroke <u>1.39</u> | Stroke/Min <u>60</u> | Bottoms Up (Min.) |
| Bit RPM <u>60</u> | Weight on Bit <u>30000</u> | Chemical | | | | | Bbl/Min <u>8</u> | Gall/Min <u>216</u> | Total Circ Time (Min.) |
| Last Bit No. | Present Activity <u>C.C.</u> | Mud Type <u>Pow</u> | | | | | Elevation <u>2250</u> | | |

Sample from Flowline () Pit
 Flowing Temperature F

| MUD PROPERTIES | |
|--|------------------|
| Time Sample Taken | <u>4:30 P.M.</u> |
| Depth (ft.) | <u>3760</u> |
| Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.) | <u>9.2T</u> ✓ |
| Mud Gradient (psi/ft.) | <u>478</u> |
| Funnel Viscosity (sec./qt.) API at °F | <u>56T</u> ✓ |
| Plastic Viscosity cp at / °F | <u>26</u> |
| Yield Point (lb./100 sq. ft.) | <u>18</u> |
| Gel Strength (lb./100 sq. ft.) 10 sec./10 min. | <u>408</u> |
| pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter | <u>10</u> |
| Filtrate API (ml./30 min.) | <u>8.0</u> ✓ |
| API HP-HT Filtrate (ml/30 min.) °F | |
| Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP - HT <input type="checkbox"/> | <u>138</u> |
| Alkalinity, Mud (Pm) | <u>1.0</u> |
| Alkalinity, Filtrate (Pl / Ml) | <u>4T</u> |
| Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input type="checkbox"/> ppm | <u>1200</u> ✓ |
| Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb) | <u>30</u> |
| Sand Content (% by Vol.) | <u>11</u> |
| Solids Content (% by Vol.) | <u>6.3</u> |
| Oil Content (% by Vol.) | |
| Water Content (% by Vol.) | <u>73.7</u> |
| LCM, #/bbl | <u>3T</u> |
| Methylene Blue Capacity <input type="checkbox"/> (mud) <input type="checkbox"/> (equiv. #/bbl) | |

Mud Used:

| | |
|-------------------|---------------|
| <u>12-Hubs</u> | <u>251.40</u> |
| <u>2-sack ash</u> | <u>43.90</u> |
| <u>1-caustic</u> | <u>54.60</u> |
| <u>1-Dispers</u> | <u>220.00</u> |
| <u>1-PHBA</u> | <u>280.00</u> |

Daily Cost \$959.30 Cumulative Cost \$9111.15

MUD PROPERTIES SPECIFICATIONS

| | | |
|-----------------------|----------------------|----------------------|
| WEIGHT <u>9.5-9.8</u> | VISCOSITY <u>60T</u> | FILTRATE <u>10cc</u> |
|-----------------------|----------------------|----------------------|

BY AUTHORITY: OPERATOR'S WRITTEN DRILLING CONTRACTOR
 OPERATOR'S REPRESENTATIVE OTHER

RECOMMENDED TREATMENT

60T Visc/low

 low as needed

 wt. 9.5-9.8

REMARKS:
Thank you
Full pipe wet
Don't shake down drill pipe.
Spot heavy mud before coming out for logs!
add premix thru pump when premix is empty, pump 2- more minutes, then proceed out for logs.

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUCTED AS AUTHORIZING THE INFRINGEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY ANDY'S MUD & CHEMICAL CO., OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

ENGINEER Ken W... WAREHOUSE LOCATION 625-3531 TELEPHONE

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 CONSERVATION DIVISION
 WICHITA, KS



DRILLING MUD REPORT

REPORT NO. 5

DATE 8-16 20 08 DEPTH 3760

| APT. WELL NO. | STATE | COUNTY | WELL | S/T |
|---------------|-------|--------|------|-----|
| | | | | |

| | | |
|---------------------------------------|-----------------------------------|--|
| OPERATOR <u>Black Diamond Oil</u> | CONTRACTOR <u>Discovery</u> | RIG NO. <u>1</u> |
| ADDRESS <u>CO</u> | ADDRESS <u>Ris</u> | SPUD DATE <u>8-6-08</u> |
| REPORT FOR MR. <u>Ken V.</u> | REPORT FOR MR. <u>Cliff M.</u> | SECTION, TOWNSHIP, RANGE <u>30-6-20</u> |
| WELL NAME AND NO. <u>States #1</u> | FIELD OR BLOCK NO. | COUNTY AREA <u>Rooks</u> |
| | | STATE <u>KS</u> |

| Drilling Assembly | | | Casing | | Mud Volume (BBL) | | Circulation Data | | |
|-----------------------------------|--------------------------------|-----------------------------|-----------------------------------|--|-----------------------|--------------------------------------|-----------------------------------|---|--|
| Bit Size <u>7 7/8"</u> | No. Bits <u>2</u> | Jet Size <u>3/14</u> | Surface <u>8 5/8" 6222'</u> | Hole <u>286</u> | Pits <u>340</u> | Pump Size x in. <u>6 14</u> | Annual Vel (FV/Min) <u>177</u> | DC <u>356</u> | |
| Drill Pipe Size <u>4 1/2</u> | Type <u>XH</u> | Length | Intermediate <u>626</u> | Total Circulating Volume <u>626</u> | | Pump Make, Model <u>72</u> | Assumed Bit <u>72</u> | Circulation Pressure (PSI) <u>8004</u> | |
| Drill Collar Size <u>6 1/4</u> | Length | No. Pits <u>3</u> | Production or Liner <u>626</u> | Mud Up Depth <u>7063</u> | | Bbl/Stroke <u>1.77</u> | Strokes/Min <u>60</u> | Bottoms Up (Min.) <u>36+</u> | |
| Bit RPM <u>60</u> | Weight on Bit <u>30000</u> | Chemical <u>Chemical</u> | | Bbl/Min <u>8</u> | Gal/Min <u>376</u> | Total Circ Time (Min.) <u>79+</u> | | | |
| Last Bit No. | Present Activity <u>DST</u> | Mud Type <u>Pac</u> | | Elevation <u>2250</u> | | | | | |

| MUD PROPERTIES | |
|---|--|
| Time Sample Taken <u>8:40 A.M.</u> | |
| Depth (ft.) <u>3760</u> | |
| Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.) <u>9.2</u> | |
| Mud Gradient (psi/ft.) <u>4.78</u> | |
| Funnel Viscosity (sec./qt.) API at <u>50</u> | |
| Plastic Viscosity cp at <u>23</u> | |
| Yield Point (lb./100 sq. ft.) <u>16</u> | |
| Gel Strength (lb./100 sq. ft.) 10 sec./10 min. <u>315</u> | |
| pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter <u>10.5</u> | |
| Filtrate API (ml./30 min.) <u>9.8</u> | |
| API HP-HT Filtrate (ml./30 min.) <u>9.8</u> | |
| Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/> <u>1.77</u> | |
| Alkalinity, Mud (Pm) <u>8</u> | |
| Alkalinity, Filtrate (Pf / Mf) <u>31</u> | |
| Salt <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Chloride <input type="checkbox"/> ppm <u>200</u> | |
| Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb) <u>40</u> | |
| Sand Content (% by Vol.) <u>7.1</u> | |
| Solids Content (% by Vol.) <u>6.2</u> | |
| Oil Content (% by Vol.) <u>93.8</u> | |
| Water Content (% by Vol.) <u>1.22</u> | |
| LCM, #/bbl <u>1.22</u> | |
| Methylene Blue Capacity | |

| Mud Used: | |
|-------------------|---------------|
| <u>14-Gel</u> | <u>174.30</u> |
| <u>2-Soda ash</u> | <u>43.90</u> |
| <u>1-Caustic</u> | <u>54.00</u> |

| | |
|-------------------------------|--------------------------------------|
| Daily Cost <u>\$272.20</u> | Cumulative Cost <u>\$8,151.85</u> |
|-------------------------------|--------------------------------------|

| MUD PROPERTIES SPECIFICATIONS | | |
|-------------------------------|-------------------------|------------------------|
| WEIGHT <u>9.5</u> | VISCOSITY <u>50+</u> | FILTRATE <u>100</u> |

BY AUTHORITY: OPERATOR'S WRITTEN DRILLING CONTRACTOR
 OPERATOR'S REPRESENTATIVE OTHER

- RECOMMENDED TREATMENT**
- 50+ vis/gel
 - Low 95 needed
 - Wt. 9.5 or less run on 1/2"
 - Stream at water cost
 - Flowline to control wt.

REMARKS:
"Thank you" "Keep 50+ vis for Log"
Short trip prior to DST Log If needed suck up
circulate hole clean. Pit mud
"Keep hole full" Mix - 60+ vis/gel
7-Soda ash
7-Caustic
1/4-Sack of Pac
4-Hulls
(When drlg lower Arbu) (Jet hole and if needed)
Mix - 20-Hulls for vis!

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUCTED AS AUTHORIZING THE INFRINGEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY ANDY'S MUD & CHEMICAL CO., OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

ENGINEER Art Wood WAREHOUSE LOCATION 625-3531 TELEPHONE

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 CONSERVATION DIVISION
 WICHITA KS



DRILLING MUD REPORT REPORT NO. 4

DATE 8-14 2008 DEPTH 3617

| APT WELL NO. | STATE | COUNTY | WELL | S/T |
|--------------|-------|--------|------|-----|
| | | | | |

| | | |
|---------------------------------------|-----------------------------------|--|
| OPERATOR <u>Black Diamond Oil</u> | CONTRACTOR <u>Discovery</u> | RIG NO. <u>1</u> |
| ADDRESS <u>CO</u> | ADDRESS <u>Ris</u> | SPUD DATE <u>8-6-08</u> |
| REPORT FOR MR. <u>Ken V.</u> | REPORT FOR MR. <u>Cliff M.</u> | SECTION, TOWNSHIP, RANGE <u>30-6-20</u> |
| WELL NAME AND NO. <u>States #1</u> | FIELD OR BLOCK NO. | COUNTY AREA <u>Rooks</u> |
| | | STATE <u>KS</u> |

| Drilling Assembly | | | Casing | | Mud Volume (BBL) | | Circulation Data | | |
|-----------------------------------|--------------------------------|-----------------------------|------------------------------------|--|-------------------------------|--------------------------------------|---|------------------|--|
| Bit Size <u>7 7/8"</u> | No. Bits <u>2</u> | Jet Size <u>3/14</u> | Surface <u>8 5/8" 220'</u> | Hole <u>277</u> | Pits <u>330</u> | Pump Size x in. <u>6 14</u> | Annular Vol (F/Min) <u>177</u> | DC <u>356</u> | |
| Drill Pipe Size <u>4 1/2</u> | Type <u>XH</u> | Length | Intermediate <u>607</u> | Total Circulating Volume <u>607</u> | Pump Make, Model <u>70</u> | Assumed Ed <u>70</u> | Circulation Pressure (PSI) <u>800+</u> | | |
| Drill Collar Size <u>6 1/4</u> | Length | No. Pits <u>3</u> | Production or Liner <u>3063</u> | Mud Lip Depth <u>137</u> | Stroke/Min <u>60</u> | Bottoms Up (Min.) <u>35+</u> | | | |
| Bit RPM <u>60</u> | Weight on Bit <u>30000</u> | Chemical <u>Chemical</u> | Mud Type <u>pac</u> | Block <u>336</u> | Gal/Min <u>336</u> | Total Circ Time (Min.) <u>76+</u> | | | |
| Last Bit No. | Present Activity <u>1st</u> | | | Elevation <u>2250</u> | | | | | |

| MUD PROPERTIES | |
|---|--|
| Time Sample Taken <u>10:00 AM</u> | |
| Depth (ft.) <u>3617</u> | |
| Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.) <u>9.1</u> ✓ | |
| Mud Gradient (psi/ft.) <u>4.74</u> | |
| Funnel Viscosity (sec./qt.) API at °F <u>46</u> ✓ | |
| Plastic Viscosity cp at / °F <u>21</u> | |
| Yield Point (lb./100 sq. ft.) <u>13</u> | |
| Gel Strength (lb./100 sq. ft.) 10 sec./10 min. <u>310</u> | |
| pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter <u>10.5</u> | |
| Filtrate API (ml./30 min.) <u>4.8</u> ✓ | |
| API HP-HT Filtrate (ml/30 min.) °F | |
| Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/> <u>1.32</u> | |
| Alkalinity, Mud (Pm) <u>1.4</u> | |
| Alkalinity, Filtrate (P/ Ml) <u>5.1</u> | |
| Salt <input type="checkbox"/> Chloride <input type="checkbox"/> Sulfate <u>1000</u> ✓ | |
| Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb) <u>20</u> | |
| Sand Content (% by Vol.) <u>0</u> | |
| Solids Content (% by Vol.) <u>5.6</u> | |
| Oil Content (% by Vol.) | |
| Water Content (% by Vol.) <u>94.4</u> | |
| LCM, #/bbl <u>1344</u> | |
| Methylene Blue Capacity <input type="checkbox"/> (ml/mud) <input type="checkbox"/> (equiv. #/bbl. water) | |

| MUD USED: | |
|-------------------|---------------|
| <u>21-Gel</u> | <u>261.45</u> |
| <u>3-Hulls</u> | <u>67.85</u> |
| <u>1-caustic</u> | <u>54.00</u> |
| <u>1-Lignite</u> | <u>23.00</u> |
| <u>3-soln ash</u> | <u>65.85</u> |

| | |
|-------------------------------|-------------------------------------|
| Daily Cost <u>\$467.15</u> | Cumulative Cost <u>\$7879.65</u> |
|-------------------------------|-------------------------------------|

| MUD PROPERTIES SPECIFICATIONS | | |
|-------------------------------|-------------------------|-------------------------|
| WEIGHT <u>9.5-</u> | VISCOSITY <u>50+</u> | FILTRATE <u>10cc</u> |

- BY AUTHORITY: OPERATOR'S WRITTEN DRILLING CONTRACTOR
 OPERATOR'S REPRESENTATIVE OTHER
- RECOMMENDED TREATMENT**
- 50+ Vis/Gel
 - Less as needed
 - Wt 9.5 or less running 10"
 - Strength of water out
 - flowline to control cut.

REMARKS:

"Thank you" When back to Dil. if Vis is low, suck out pit mud (Keep 59 vis!)

Short trip prior to DST, let circulate hole clear.

"Keep hole full" Mix - 60+ Vis/Gel 2-soln ash 1-caustic 1/4-Sack of Dispac

(When spg lower Arb.) Mix - 20 Hulls (Set 4 gal gel premix if needed for Vis or Volume)

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUCTED AS AUTHORIZING THE INFRINGEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY ANDY'S MUD & CHEMICAL CO., OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

| | | |
|-------------------------------|---------------------------------------|-----------|
| ENGINEER <u>Rich Weath</u> | WAREHOUSE LOCATION <u>625-3531</u> | TELEPHONE |
|-------------------------------|---------------------------------------|-----------|

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 WICHITA KS



DRILLING MUD REPORT REPORT NO. 3

| | | | |
|--------------|-----------|-------|------|
| DATE | 8-13-2008 | DEPTH | 3042 |
| APT WELL NO. | | STATE | |
| COUNTY | | WELL | |
| | | S/T | |

| | | |
|---------------------------------------|-----------------------------------|--|
| OPERATOR <u>Black Diamond Oil</u> | CONTRACTOR <u>Discovery</u> | RIG NO. <u>1</u> |
| ADDRESS <u>CO</u> | ADDRESS <u>R-4</u> | SPUD DATE <u>8-6-08</u> |
| REPORT FOR MR. <u>Ken V.</u> | REPORT FOR MR. <u>Cliff M.</u> | SECTION, TOWNSHIP, RANGE <u>30-6-20</u> |
| WELL NAME AND NO. <u>States #1</u> | FIELD OR BLOCK NO. | COUNTY AREA <u>ROOKS</u> |
| | | STATE <u>KS</u> |

| Drilling Assembly | | Casing | | Mud Volume (BBL) | | Circulation Data | |
|-----------------------------------|--------------------------------|--------------------------------|---------------------------------|--|---------------------------------|--------------------------------------|---|
| Bit Size <u>7 7/8"</u> | No. Bits <u>2</u> | Jet Size <u>3/14</u> | Surface <u>8 7/8 @ 200'</u> | Hole <u>273.330</u> | Pump Size x in. <u>6 14</u> | Annual Vel (FyMin) <u>197</u> | DC <u>356</u> |
| Drill Pipe Size <u>4 1/2</u> | Type <u>xh</u> | Length | Intermediate <u>@</u> | Total Circulating Volume <u>603</u> | Pump Make, Model <u>E102</u> | Assumed <u>E102</u> | Circulation Pressure (PSI) <u>800+</u> |
| Drill Collar Size <u>6 1/4</u> | Length | No. Pits <u>3</u> | Production or Liner <u>@</u> | Mud Up Depth <u>3063</u> | Bbl/Stroke <u>.179</u> | Stroke/Min <u>60</u> | Bottoms Up (Min.) <u>35+</u> |
| Bit RPM <u>60</u> | Weight on Bit <u>30,000</u> | Present Activity <u>EST</u> | Mud Type <u>Chemical PVC</u> | Bbl/Min. <u>8</u> | Gal/Min. <u>336</u> | Total Circ Time (Min.) <u>76+</u> | |
| Last Bit No. | | | | Elevation <u>3250</u> | | | |

| MUD PROPERTIES | |
|---|------------|
| Time Sample Taken <u>8:45 AM</u> | |
| Depth (ft.) <u>3542</u> | |
| Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.) <u>9.1</u> | |
| Mud Gradient (psi/ft.) <u>1.74</u> | |
| Funnel Viscosity (sec./qt.) API at °F <u>59</u> | |
| Plastic Viscosity cp at / °F <u>23</u> | |
| Yield Point (lb./100 sq. ft.) <u>12</u> | |
| Gel Strength (lb./100 sq. ft.) 10 sec./10 min. <u>4128</u> | <u>1 1</u> |
| pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter <u>11.0</u> | |
| Filtrate API (ml./30 min.) <u>8.0</u> | |
| API HP-HT Filtrate (ml/30 min.) °F | |
| Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/> <u>1/32</u> | |
| Alkalinity, Mud (Pm) <u>2.2</u> | |
| Alkalinity, Filtrate (PI / MI) <u>6.1</u> | <u>1 1</u> |
| Salt <input type="checkbox"/> Chloride <input type="checkbox"/> <u>800</u> | |
| Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb) <u>20</u> | |
| Sand Content (% by Vol.) <u>1.0</u> | |
| Solids Content (% by Vol.) <u>5.6</u> | |
| Oil Content (% by Vol.) | |
| Water Content (% by Vol.) <u>94.4</u> | |
| LCM, #/bbl <u>134</u> | |
| Methylene Blue Capacity <input type="checkbox"/> (total mud) <input type="checkbox"/> (equiv #Bbl bent.) | |

| Mud Used: | |
|--------------------|---------------|
| <u>18-Gal</u> | <u>224.10</u> |
| <u>7-Sacks ash</u> | <u>65.85</u> |
| <u>1-Caustic</u> | <u>54.00</u> |
| <u>1-Lignite</u> | <u>23.00</u> |
| <u>8-Halts</u> | <u>167.60</u> |
| <u>1-Driftac</u> | <u>330.00</u> |

| | |
|-------------------------------|-------------------------------------|
| Daily Cost <u>\$864.55</u> | Cumulative Cost <u>\$7412.50</u> |
|-------------------------------|-------------------------------------|

| MUD PROPERTIES SPECIFICATIONS | | |
|-------------------------------|-------------------------|-------------------------|
| WEIGHT <u>9.5-</u> | VISCOSITY <u>50+</u> | FILTRATE <u>10cc</u> |

BY AUTHORITY: OPERATOR'S WRITTEN DRILLING CONTRACTOR
 OPERATOR'S REPRESENTATIVE OTHER

| RECOMMENDED TREATMENT | |
|--------------------------|--------------------------------------|
| <input type="checkbox"/> | <u>50+ Vis/Gal</u> |
| <input type="checkbox"/> | <u>LCM as needed</u> |
| <input type="checkbox"/> | <u>Wt. 0.5 or less per 1/2"</u> |
| <input type="checkbox"/> | <u>Stream of water on + flowline</u> |
| <input type="checkbox"/> | <u>to control wt.</u> |

REMARKS:
 "Thank you"
 Short trip prior to DST Log
 Circulate hole clean.
 "Keep hole full"
 When drill tower Arch.
 Mix - 20-Halts
 Premix: 1/2 Pit + mud 1/2 water
 Mix - 60+ Vis/Gal
 3-Sacks ash
 1-Caustic
 1-Lignite
 1/2-Sacks of Driftac
 3-Halts
 Jet hole add Premix
 as needed for
 Vis or Volume.
 (Keep 50+ Vis!)

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUCTED AS AUTHORIZING THE INFRINGEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY ANDY'S MUD & CHEMICAL CO., OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

| | | |
|-------------------------------|---------------------------------------|-----------|
| ENGINEER <u>Rick Weiss</u> | WAREHOUSE LOCATION <u>675-3531</u> | TELEPHONE |
|-------------------------------|---------------------------------------|-----------|

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FEB 05 2009

CONSERVATION DIVISION
 WICHITA, KS



DRILLING MUD REPORT

REPORT NO. 2

| | | | |
|---------------|----------------|-------|-------------|
| DATE | <u>8-12-08</u> | DEPTH | <u>3180</u> |
| APT. WELL NO. | | STATE | |
| COUNTY | | WELL | |
| | | | ST |

| | | |
|---------------------------------------|-----------------------------------|--|
| OPERATOR <u>Black Diamond Oil</u> | CONTRACTOR <u>Discovery</u> | RIG NO. <u>1</u> |
| ADDRESS <u>CO</u> | ADDRESS <u>Rig</u> | SPUD DATE <u>8-6-08</u> |
| REPORT FOR MR. <u>Ken V.</u> | REPORT FOR MR. <u>Cliff M.</u> | SECTION, TOWNSHIP, RANGE <u>30-6-20</u> |
| WELL NAME AND NO. <u>States #1</u> | FIELD OR BLOCK NO. | COUNTY AREA <u>Rooks</u> |
| | | STATE <u>KS</u> |

| Drilling Assembly | | | Casing | | Mud Volume (BBL) | | Circulation Data | | | | |
|-----------------------------------|---------------------------------|--------------------------|------------------------------------|--|--------------------|----------------------------------|-------------------------------------|---|--|--|--|
| Bit Size <u>7 7/8"</u> | No. Bits <u>2</u> | Joi Size <u>3 1/4</u> | Surface <u>8 5/8" 222'</u> | Hole <u>250' 300'</u> | Pits <u>380</u> | Pump Size x in. <u>6 x 14</u> | Annular Vel. (Ft/Min) <u>177</u> | DP <u>35C</u> | | | |
| Drill Pipe Size <u>4 1/2</u> | Type <u>XN</u> | Length | Intermediate <u>380</u> | Total Circulating Volume <u>380</u> | | Pump Make, Model <u>EIK</u> | Assumed <u>2</u> | Circulation Pressure (PSI) <u>800+</u> | | | |
| Drill Collar Size <u>6 1/4</u> | Length | No. Pits <u>3</u> | Production of Liner <u>3063</u> | Mud Up Depth <u>3063</u> | | Bbl/Stroke <u>1.179</u> | Strokes/Min <u>60</u> | Bottoms Up (Min.) <u>32+</u> | | | |
| Bit RPM <u>60</u> | Weight on Bit <u>30,000</u> | | Mud Type <u>Chemical</u> | | | Bbl/Min. <u>8</u> | Gal/Min. <u>32</u> | Total Circ Time (Min.) <u>73+</u> | | | |
| Last Bit No. | Present Activity <u>Drig</u> | | | | | Elevation <u>2250</u> | | | | | |

| MUD PROPERTIES | |
|--|--|
| Time Sample Taken <u>11:30 A.M.</u> | |
| Depth (ft.) <u>3180</u> | |
| Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.) <u>8.7</u> ✓ | |
| Mud Gradient (psi/ft.) <u>4.53</u> | |
| Funnel Viscosity (sec./qt.) API at °F <u>52</u> ✓ | |
| Plastic Viscosity cp at °F <u>30</u> | |
| Yield Point (lb./100 sq. ft.) <u>10</u> | |
| Gel Strength (lb./100 sq. ft.) 10 sec./10 min. <u>3.2</u> 1 1 | |
| pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter <u>11.5</u> | |
| Filtrate API (ml/30 min.) <u>8.0</u> ✓ | |
| API HP-HT Filtrate (ml/30 min.) °F | |
| Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP - HT <input type="checkbox"/> <u>17.2</u> | |
| Alkalinity, Mud (Pm) <u>3.2</u> | |
| Alkalinity, Filtrate (Pl / Mf) <u>1.1</u> 1 1 | |
| Salt <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Chloride <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb) <u>1000</u> ✓ | |
| Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb) <u>10</u> | |
| Sand Content (% by Vol.) <u>7.2</u> | |
| Solids Content (% by Vol.) <u>2.6</u> | |
| Oil Content (% by Vol.) | |
| Water Content (% by Vol.) <u>97.4</u> | |
| LCM, #/bbl <u>1#</u> | |
| Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (sqy. #/bbl bent.) | |

| MUD PROPERTIES SPECIFICATIONS | |
|--------------------------------|-------------------------------------|
| Mud Used: <u>1-DHAA</u> | <u>280.00</u> |
| <u>233-Gel</u> | <u>2900.35</u> |
| <u>73-Hulls</u> | <u>1529.30</u> |
| <u>24-Scalen ash</u> | <u>526.80</u> |
| <u>8-Caustic</u> | <u>432.00</u> |
| <u>9-Lignite</u> | <u>207.00</u> |
| <u>1-Lime</u> | <u>11.95</u> |
| <u>2-Driscoll</u> | <u>660.00</u> |
| Daily Cost <u>\$6547.95</u> | Cumulative Cost <u>\$6547.95</u> |

| RECOMMENDED TREATMENT | | |
|--|------------|-------------|
| WEIGHT | VISCOSITY | FILTRATE |
| <u>9.5-</u> | <u>50+</u> | <u>10cc</u> |
| BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR | | |
| <input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER | | |
| <input type="checkbox"/> 50+ 1/2 S/Gel | | |
| <input type="checkbox"/> 6cm as needed | | |
| <input type="checkbox"/> wt. 9.5 or less max 1/2" stream | | |
| <input type="checkbox"/> of water at flowline | | |
| <input type="checkbox"/> to control wt. | | |

REMARKS: Thank you

Reserve Pit:
Chlorides - 5,000
Calcium - 800
Volume - 400

Premix: 1/2 Pit + mud, 1/2 water
mix - 6.5 + 1.5/Gel
3 - Scalen ash
1 - Caustic
1 - Lignite
1/2 - South of Driscoll
8 - Hulls

Short trip prior to Drilling
circulate hole clean.

"Keep hole full" "Set hole in system" gel of
 Premix at 3450'

(Good Displacement!)

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUCTED AS AUTHORIZING THE INFRINGEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY ANDY'S MUD & CHEMICAL CO., OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

| | | |
|-------------------------------|---------------------------------------|-----------|
| ENGINEER <u>Rich Weath</u> | WAREHOUSE LOCATION <u>625-3531</u> | TELEPHONE |
|-------------------------------|---------------------------------------|-----------|

RECEIVED
 KANSAS CORPORATION COMMISSION
 FEB 05 2009
 CONSERVATION DIVISION
 WICHITA KS



DRILLING MUD REPORT

REPORT NO. 1

| | | | |
|--------------|-------|--------|------|
| DATE | 20 | DEPTH | |
| APT WELL NO. | STATE | COUNTY | WELL |
| | | | ST |

| | | |
|-------------------|--------------------------------|--------------------------|
| OPERATOR | CONTRACTOR <i>Discovery</i> | RIG NO. <i>1</i> |
| ADDRESS | ADDRESS <i>Rig</i> | SPUD DATE |
| REPORT FOR MR. | REPORT FOR MR. <i>Cliff</i> | SECTION, TOWNSHIP, RANGE |
| WELL NAME AND NO. | FIELD OR BLOCK NO. | COUNTY AREA |
| | | STATE <i>KS</i> |

| Drilling Assembly | | Casing | | Mud Volume (BBL) | | Circulation Data | |
|-----------------------------------|--------------------------------|-------------------------|--------------------------|--------------------------|------|---------------------------------|---|
| Bit Size <i>1 7/8</i> | No. Bits <i>2</i> | Joi Size <i>3/14</i> | Surface <i>8 3/8"</i> | Hole | Pits | Pump Size, x in. <i>6 14</i> | Annular Vel (Ft/Min) DP <i>197</i> DC <i>356</i> |
| Drill Pipe Size <i>4 1/2</i> | Type <i>xh</i> | Length | Intermediate | Total Circulating Volume | | Pump Make, Model | Circulation Pressure (PSI) <i>800+</i> |
| Drill Collar Size <i>6 1/4</i> | Length | No. Pits <i>3</i> | Production or Liner | Mud Up Depth | | Bbl/Stroke <i>1.79</i> | Strokes/Min. <i>60</i> |
| Bit RPM <i>60</i> | Weight on Bit <i>30,000</i> | | Chemical <i>DAL</i> | Bbl/Min. <i>8</i> | | Gal/Min. <i>376</i> | Bottoms Up (Min.) |
| Last Bit No. | Present Activity | | Mud Type <i>DAL</i> | Elevation | | | Total Circ Time (Min.) |

| MUD PROPERTIES | |
|---|--------------|
| Time Sample Taken | |
| Depth (ft.) | |
| Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.) | |
| Mud Gradient (psi/ft.) | |
| Funnel Viscosity (sec./qt.) API at °F | |
| Plastic Viscosity cp at °F | |
| Yield Point (lb./100 sq. ft.) | |
| Gel Strength (lb./100 sq. ft.) 10 sec./10 min. | <i>1 1 1</i> |
| pH <input type="checkbox"/> Strip <input type="checkbox"/> Meter | |
| Filtrate API (ml/30 min.) | |
| API HP-HT Filtrate (ml/30 min.) °F | |
| Cake Thickness 32nd in. API <input type="checkbox"/> HP - HT <input type="checkbox"/> | |
| Alkalinity, Mud (Pm) | |
| Alkalinity, Filtrate (Pl / Mt) | <i>1 1 1</i> |
| Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input type="checkbox"/> ppm | |
| Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb) | |
| Sand Content (% by Vol.) | |
| Solids Content (% by Vol.) | |
| Oil Content (% by Vol.) | |
| Water Content (% by Vol.) | |
| LCM, #/bbl | |
| Methylene Blue Capacity <input type="checkbox"/> (initial mud) <input type="checkbox"/> (exposed, 4500 bbl. bent) | |

Mud Used:
Sweep hole as needed.
(19-gal, 1-sack ash, 6-hulls)
or add DHPA at Drillstring for tight connections.

| MUD PROPERTIES SPECIFICATIONS | | |
|---|--|--------------------|
| WEIGHT <i>9.5</i> | VISCOSITY <i>as needed</i> | FILTRATE <i>NC</i> |
| BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN | <input type="checkbox"/> DRILLING CONTRACTOR | |
| <input type="checkbox"/> OPERATOR'S REPRESENTATIVE | <input type="checkbox"/> OTHER | |

| RECOMMENDED TREATMENT | |
|--------------------------|------------------------------|
| <input type="checkbox"/> | Under surface control wt. |
| <input type="checkbox"/> | 9.5 or less run plenty of |
| <input type="checkbox"/> | water & jet often. |
| <input type="checkbox"/> | |
| <input type="checkbox"/> | Displace at Geobist Request. |
| <input type="checkbox"/> | |
| <input type="checkbox"/> | "Fill Frac Full" |

REMARKS:
"Thank you"
Keep hole full.
Have premix, plus #7 pit full of mud, when ready to Displace.

*Pre-mix: 100 bbls fresh water
 mix - 25-gal
 2 - Sack ash
 1 - Cement
 1 - Liquid R
 1/4 - Sack of Drispac
 2 - Hulls*

(Call when ready to Displace!)

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUCTED AS AUTHORIZING THE INFRINGEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY ANDY'S MUD & CHEMICAL CO., OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

| | | |
|--|---------------------------------------|-----------|
| ENGINEER <i>Rick Ward</i> <i>Denis Reister</i> | WAREHOUSE LOCATION <i>625-3531</i> | TELEPHONE |
|--|---------------------------------------|-----------|

RECEIVED
 KANSAS CORPORATION COMMISSION
 FEB 05 2009
 CONSERVATION DIVISION
 WICHITA, KS

DAILY DRILLING REPORT

CONTRACTOR
 hrc 43-5
 COMPANY
 Black Diamond Oil Co.
 DISTRICT

CONTRACTOR
 Discovery Drilling Co. Inc.
 LEASE
 States
 COUNTY
 Rooks
 STATE
 KS

DATE
 SAT.
 8-16-08
 WELL NO.
 1
 RIG NO.
 1
 D. P. STRING NO.
 1
 SIZE

| FROM | TO | FORMATION | ROTARY SPEED | WEIGHT ON BIT | PUMP PRES. | NAME | HRS. |
|------------|-----------|----------------------------|--------------|---------------|------------|---------------|------|
| 3760 | 3765 | RTD Aubucke | 80 | 40000 | 850 | Kenny Jones | 8 |
| | | (7 3/4 hrs down) | | | | Stan Lovelady | 8 |
| | | | | | | Chuck Dick | 8 |
| SLOPE TEST | | ACCIDENT: - (GIVE NAME) | | | | | |
| 6' | FT. | DST # 3742-3762 20' Anchor | | | | | |
| | DEC. OFF. | 30-30- Rec 10' mud | | | | Terry Jones 8 | |

| BIT AND COREHEAD RECORD | | MUD RECORD | | TIME RECORD | | DRILL STEM RECORD | |
|-------------------------|----------|----------------------|---------|-------------|-------|-------------------|-----|
| RUN NO. | 2 | WEIGHT | 6.30 AM | DRILLING | 1/4 | SIZE D. P. | |
| SIZE | 7 3/8 RE | VISC. | 9.2 | LOGGING | 3/4 | SIZE COLL. | |
| MAKE | GX20C | WTR LOSS C.C. | 55T | DRY | 5 3/4 | JIS. D. P. | FT. |
| SERIAL NO. | 5149882 | FILTER CAKE | | REPAIRS | | KELLY DOWN | FT. |
| DEPTH IN | 222 | PH. | | TRIP | | COLLARS | FT. |
| HOURS RUN | 58 | MTL. ADDED (REMARKS) | | CIRC | 1 1/4 | TOTAL | FT. |

REMARKS: 1100-1145 Log of 1145-1215 MAKE UP TOOL 1215-115 IN W/ TOOL 115-215 TO B 215-230 CUT W/ TOOL
 320-345 Break Lay Down Tool 345-530 IN W/ BIT 530-545- Drill 545-645 C.F.S. 3765
 645-670 DST # 6

| FROM | TO | FORMATION | ROTARY SPEED | WEIGHT ON BIT | PUMP PRES. | NAME | HRS. |
|------------|-----------|-------------------------|--------------|---------------|------------|----------------|------|
| 3765 | | | | | | Larry M. Inert | 8 |
| | | | | | | Randy Baggett | 8 |
| | | | | | | Dustin Rozcar | 8 |
| SLOPE TEST | | ACCIDENT: - (GIVE NAME) | | | | | |
| 6' | FT. | DST # 6 3742-3767 | | | | | |
| | DEC. OFF. | 15-145-5-75 | | | | 5 1/2 8 | |

| BIT AND COREHEAD RECORD | | MUD RECORD | | TIME RECORD | | DRILL STEM RECORD | |
|-------------------------|----|----------------------|--|-------------|---|-------------------|-----|
| RUN NO. | | WEIGHT | | DRILLING | | SIZE D. P. | |
| SIZE | | VISC. | | CONING | | SIZE COLL. | |
| MAKE | | WTR LOSS C.C. | | OTHER | | JIS. D. P. | FT. |
| SERIAL NO. | | FILTER CAKE | | REPAIRS | | KELLY DOWN | FT. |
| DEPTH IN | | PH. | | TRIP | | COLLARS | FT. |
| HOURS RUN | 58 | MTL. ADDED (REMARKS) | | DST # 6 | 8 | TOTAL | FT. |

REMARKS: 7:00 TO 9:15 Cow/Sit. Pick up tool 7:15 in w/ 50 9:15-10:15 215 w/ tool
 11:50-3:00 Puller

| FROM | TO | FORMATION | ROTARY SPEED | WEIGHT ON BIT | PUMP PRES. | NAME | HRS. |
|------------|-----------|------------------------------|--------------|---------------|------------|-----------------|------|
| 3765 | 3768 | | | | | Justin Banting | 8 |
| | | | | | | Cory Adamson | 8 |
| | | | | | | Joe Cotter | 8 |
| SLOPE TEST | | ACCIDENT: - (GIVE NAME) | | | | | |
| 6' | FT. | DST # 7 3765-3768-13' Anchor | | | | | |
| | DEC. OFF. | 50-50- cement | | | | Nason Showker 8 | |

| BIT AND COREHEAD RECORD | | MUD RECORD | | TIME RECORD | | DRILL STEM RECORD | |
|-------------------------|----------|----------------------|--|-------------|----------|-------------------|-----|
| RUN NO. | 2 | WEIGHT | | DRILLING | 1/4 | SIZE D. P. | |
| SIZE | 7 7/8 RE | VISC. | | CONING | | SIZE COLL. | |
| MAKE | GX20C | WTR LOSS C.C. | | OTHER | Circ 1/2 | JIS. D. P. | FT. |
| SERIAL NO. | 5149882 | FILTER CAKE | | REPAIRS | | KELLY DOWN | FT. |
| DEPTH IN | 222 | PH. | | DST # 7 | 4 1/2 | COLLARS | FT. |
| HOURS RUN | 58 1/4 | MTL. ADDED (REMARKS) | | DST # 6 | 1 3/4 | TOTAL | FT. |

REMARKS: 3:00-3:30 Switch off tool / down tool 3:30-4:45 1 MW/OT 4:45-5:00 Drig 5:00-6:30 3768
 6:30-7:15 TO W/ BIT 7:15-8:00 1. 8:00-9:00 7 MW/Tool 9:00-10:00 215
 10:00-11:00 215-230

DAILY DRILLING REPORT

Form 43-5 (03/04) (L.S.A. OR 3410)
1.000 3.01.2004

CONTRACTOR

Discovery Drilling Co. INC.

DATE

Thu.

8-14-08

COMPANY

Blackdiamond OIL Co.

States

WELL NO.

RIG NO.

D. P. STRING NO.

SIZE

DISTRICT

COUNTY

Rooks

STATE

KS

| FROM | TO | FORMATION | ROTARY SPEED | WEIGHT ON BIT | PUMP PRES. | NAME | HRS. |
|------------|------|----------------------------|--------------|--------------------|------------|---------------|------|
| 3595 | 3617 | Shale & Lime | 80 | 40000 | 850 | Kenny Jones | 8 |
| | | (1/2 HRS Daywork) | | | | Stan Lovelady | 8 |
| | | | | | | Chuck Dick | 8 |
| SLOPE TEST | | ACCIDENT - (GIVE NAME) | | | | | |
| UP | FE | DST#2 3547-3617 70' Anchor | | | | | |
| DEG. OFF | | 15-30- | | (25) Terry Jones 8 | | | |

| BIT AND COREHEAD RECORD | | MUD RECORD | | TIME RECORD | | DRILL STEM RECORD | |
|-------------------------|---------|----------------------|--|---------------------|---|-------------------|-----|
| RUN NO. | 2 | WEIGHT | | DRILLING | 4 | SIZE D. P. | |
| SIZE | 7/8 RR | WISC. | | DST#2 | | SIZE COLL. | |
| MAKE | Ga200 | WTR LOSS-C.C. | | OTHER | | JTS. D. P. | FT. |
| SERIAL NO. | 5149882 | FILTER CAKE | | PUMP WATER DRIPS #2 | | KELLY DOWN | FT. |
| DEPTH IN | 222 | PH. | | WORK ON MUD #2 | | COLLARS | FT. |
| HOURS RUN | 5124 | MTL. ADDED (REMARKS) | | TRIP | | TOTAL | FT. |

REMARKS: 1100-1200 Drill 1200-30 CFS @ 3617 30' CIP with bit P152 @ 250 WORK ON PUMP
230-300 CIRC/WOT @ 300-430 OUT W/ BIT 430-445 MAKE UP TOOL 445-600 W/ W/ TOOL
600-700 TOP

| FROM | TO | FORMATION | ROTARY SPEED | WEIGHT ON BIT | PUMP PRES. | NAME | HRS. |
|------------|------|------------------------|--------------|---------------------|------------|---------------|------|
| 3617 | 3692 | Shale & Lime | 80 | 40000 | 850 | Larry Mlinak | 8 |
| | | (4 HRS Daywork) | | | | Paul Reynolds | 8 |
| | | | | | | Dave Rogers | 8 |
| SLOPE TEST | | ACCIDENT - (GIVE NAME) | | | | | |
| UP | FE | DST#2 3647-3617 | | | | | |
| DEG. OFF | | | | (50) Sgt. Pomeroy 8 | | | |

| BIT AND COREHEAD RECORD | | MUD RECORD | | TIME RECORD | | DRILL STEM RECORD | |
|-------------------------|---------|----------------------|--|-------------|-------|-------------------|-----|
| RUN NO. | 2 | WEIGHT | | DRILLING | 3 1/2 | SIZE D. P. | |
| SIZE | 7/8 RR | WISC. | | CORING | 1/4 | SIZE COLL. | |
| MAKE | Ga200 | WTR LOSS-C.C. | | OTHER | 1/4 | JTS. D. P. | FT. |
| SERIAL NO. | 5149882 | FILTER CAKE | | REPAIRS | | KELLY DOWN | FT. |
| DEPTH IN | 222 | PH. | | TRIP | | COLLARS | FT. |
| HOURS RUN | 5124 | MTL. ADDED (REMARKS) | | DST#2 | 4 | TOTAL | FT. |

REMARKS: 1:05-1:30 20' loss 1.8 sec 9' loss 1.1 sec 10' loss 1.1 sec 11:00 7.2 hrs
11:00 to 12:30 17.1" 12:30 to 12:45 7.0" + 1.0" 3649.12 12:45 to 3:00 DRILL

| FROM | TO | FORMATION | ROTARY SPEED | WEIGHT ON BIT | PUMP PRES. | NAME | HRS. |
|------------|------|----------------------------|--------------|----------------------|------------|----------------|------|
| 3692 | 3720 | Shale & Lime | 80 | 40000 | 850 | Justin Bunting | 8 |
| | | (6 1/2 HRS Daywork) | | | | Cory Adanson | 8 |
| | | | | | | Chad Mayfield | 8 |
| SLOPE TEST | | ACCIDENT - (GIVE NAME) | | | | | |
| UP | FE | DST#3 3679-3720 41' Anchor | | | | | |
| DEG. OFF | | 30-30-45-45 | | (25) Jason Showker 8 | | | |

| BIT AND COREHEAD RECORD | | MUD RECORD | | TIME RECORD | | DRILL STEM RECORD | |
|-------------------------|---------|----------------------|--|-------------|-------|-------------------|-----|
| RUN NO. | 2 | WEIGHT | | DRILLING | 1 1/4 | SIZE D. P. | |
| SIZE | 7/8 RR | WISC. | | CORING | 1/4 | SIZE COLL. | |
| MAKE | Ga200 | WTR LOSS-C.C. | | OTHER | 2 | JTS. D. P. | FT. |
| SERIAL NO. | 5149882 | FILTER CAKE | | REPAIRS | | KELLY DOWN | FT. |
| DEPTH IN | 222 | PH. | | TRIP | | COLLARS | FT. |
| HOURS RUN | 56 | MTL. ADDED (REMARKS) | | DST#3 | 4 1/2 | TOTAL | FT. |

REMARKS: 3:00-3:15 Drilg 3:15-4:15 CFS @ 3698 4:15-5:00 Drilg 5:00-5:15 Rig @ 3713 5:15-5:30 Drilg
5:30-6:30 CFS @ 3720 6:30-7:45 TO 41' DST#3 7:45-8:00 Make up tool 8:00-9:00 T.W. / Tool
9:00-11:00 DWT test

RECEIVED

KANSAS CORPORATION COMMISSION

TOOL
PUSHER

FEB 05 2009

CONSERVATION DIVISION
WICHITA, KS

DAILY DRILLING REPORT

43-5 BOY 100, FULL SA GR. 7101
1500-011 7204

CONTRACTOR

Discovery Drilling Co. Inc.

DATE

Wed.
8-13-08

COMPANY

Black Diamond Oil Co. States

WELL NO.

RIG NO.

D. P. STRING NO.

SIZE

DISTRICT

COUNTY

Rooks

STATE

KS

| FROM | TO | FORMATION | ROTARY SPEED | WEIGHT ON BIT | PUMP PRES. | NAME | HRS. |
|------------|------|----------------------------|--------------|---------------|------------|---------------|------|
| 3452 | 3542 | Shale + Lime | 80 | 40000 | 350 | Kenny Jones | 8 |
| | | (3 1/2 hrs Daywork) | | | | Stan Lovelady | 8 |
| | | | | | | Chuck Dick | 8 |
| SLOPE TEST | | ACCIDENT: - (GIVE NAME) | | | | | |
| SP | FT | | | | | | |
| DEG. OFF | | | | | | Ferry Jones | 8 |

| BIT AND COREHEAD RECORD | | MUD RECORD | | TIME RECORD | | DRILL STEM RECORD | |
|-------------------------|----------|----------------------|-----|-------------|-------|-------------------|-----|
| RUN NO. | 2 | WEIGHT | 9.1 | DRILLING | 4 | SIZE D. P. | |
| SIZE | 7 3/8 RR | VISC. | SS | CORING | 1/4 | SIZE COLL. | |
| MAKE | 6x200 | WTR. LOSS-C.C. | | REPAIRS | 1 1/2 | WTS. D. P. | FT. |
| SERIAL NO. | 5119882 | FILTER CAKE | | TRIP | 2 | KELLY DOWN | FT. |
| DEPTH IN | 222 | PH | | | | COLLARS | FT. |
| HOURS RUN | 4 1/2 | MTL. ADDED (REMARKS) | | | | TOTAL | FT. |

REMARKS: 11:00-11:15 Drill 11:15-11:30 @ 4162 VRI6/Jot hole. 7:00-7:15 Mud 1:30-3:30 Drill 3:30-4:45 CF 50 3542
145-615 Show trip 20 States Tight 615-700 CAST

| FROM | TO | FORMATION | ROTARY SPEED | WEIGHT ON BIT | PUMP PRES. | NAME | HRS. |
|------------|----|----------------------------|--------------|---------------|------------|---------------|------|
| 3542 | | | | | | Larry Milmet | 8 |
| | | | | | | Randy Saggio | 8 |
| | | | | | | Dusty Pazzari | 8 |
| SLOPE TEST | | ACCIDENT: - (GIVE NAME) | | | | | |
| SP | FT | | | | | | |
| DEG. OFF | | | | | | Sy1 Romer | 8 |

| BIT AND COREHEAD RECORD | | MUD RECORD | | TIME RECORD | | DRILL STEM RECORD | |
|-------------------------|-------|----------------------|--|-------------|--|-------------------|-----|
| RUN NO. | | WEIGHT | | DRILLING | | SIZE D. P. | |
| SIZE | | VISC. | | CORING | | SIZE COLL. | |
| MAKE | | WTR. LOSS-C.C. | | REPAIRS | | WTS. D. P. | FT. |
| SERIAL NO. | | FILTER CAKE | | TRIP | | KELLY DOWN | FT. |
| DEPTH IN | | PH | | | | COLLARS | FT. |
| HOURS RUN | 4 1/2 | MTL. ADDED (REMARKS) | | | | TOTAL | FT. |

REMARKS: 7:00-7:15 CF 50 3542 7:15-7:30 Mud 7:30-7:45 Drill 7:45-8:00 CF 50 3542
10:45-11:00 CF 50 3542 11:00-11:15 Drill 11:15-11:30 CF 50 3542

| FROM | TO | FORMATION | ROTARY SPEED | WEIGHT ON BIT | PUMP PRES. | NAME | HRS. |
|------------|------|----------------------------|--------------|---------------|------------|-----------------|------|
| 3542 | 3595 | Shale + Lime | 80 | 40000 | 900 | Justin Bunting | 8 |
| | | (5 hrs Daywork) | | | | Cory Adamson | 8 |
| | | | | | | Chad Mayfield | 8 |
| SLOPE TEST | | ACCIDENT: - (GIVE NAME) | | | | | |
| SP | FT | | | | | | |
| DEG. OFF | | | | | | Leson Showalter | 8 |

| BIT AND COREHEAD RECORD | | MUD RECORD | | TIME RECORD | | DRILL STEM RECORD | |
|-------------------------|----------|----------------------|-----|-------------|-------|-------------------|-----------|
| RUN NO. | 2 | WEIGHT | 8.9 | DRILLING | 3 | SIZE D. P. | 21-Gel |
| SIZE | 7 3/8 RR | VISC. | 60+ | CORING | | SIZE COLL. | 1-C |
| MAKE | 6x200 | WTR. LOSS-C.C. | | REPAIRS | 2 1/4 | WTS. D. P. | 1-L |
| SERIAL NO. | 5149882 | FILTER CAKE | | TRIP | 1/4 | KELLY DOWN | 3-SA |
| DEPTH IN | 222 | PH | | | | COLLARS | 3-Hullg |
| HOURS RUN | 5 1/4 | MTL. ADDED (REMARKS) | | | | TOTAL | 11-SK Pac |

REMARKS: 20-3:45 Pull Trip 3:45-4:00 Mud 4:00-4:15 Drill 4:15-4:30 CF 50 3542
4:30-4:45 Drill 4:45-6:15 CF 50 3542 6:15-8:30 Drill 8:30-9:00 CF 50 3542
9:00-9:45 Drill 9:45-11:00 CF 50 3542

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TOOL
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CONSERVATION DIVISION
WICHITA, KS

Tues.

DAILY DRILLING REPORT
 KCS/43-5
 COMPANY: Black diamond oil co.
 DISTRICT: [] COUNTY: Rooks STATE: KS
 CONTRACTOR: Discovery Drilling Co. INC.
 DATE: 8-12-08
 WELL NO.: 1 RIG NO.: 1
 D. P. STRING NO.: [] SIZE: []

| FROM | TO | FORMATION | ROTARY SPEED | WEIGHT ON BIT | PUMP PRES. | NAME | HRS. |
|------------|------|-----------------------------|--------------|---------------|------------|---------------|------|
| 2798 | 3020 | Shale | 80 | 25000 | 550 | Kenny Jones | 8 |
| | | | | | | Stan Lohelady | 8 |
| | | | | | | Chuck dick | 8 |
| SLOPE TEST | | ACCIDENT: - (GIVE NAME) | | | | | |
| ° | FT. | | | | | | |
| DEG. OFF | | Frac Full #2 Full Lead tank | | (25) | | Terry Jones | 8 |

| BIT AND COREHEAD RECORD | | MUD RECORD | | TIME RECORD | | DRILL STEM RECORD | |
|-------------------------|----------|----------------------|--|-------------|-------------------------------|-------------------|-------|
| RUN NO. | 2 | WEIGHT | | DRILLING | 6 ³ / ₄ | SIZE D. P. | 1-1/2 |
| SIZE | 7 7/8 PR | WISC. | | CORING | CON | SIZE COLL. | 2 |
| MAKE | GX200 | WTR. LOSS-C.C. | | OTHER | VPL | IS. D. P. | 2 |
| SERIAL NO. | 5149882 | FILTER CAKE | | REPAIRS | | KELLY DOWN | 4 |
| DEPTH IN | 222 | PH. | | TRIP | | COLLARS | 1/2 |
| HOURS RUN | 29 3/4 | MTL. ADDED (REMARKS) | | JET | 1/2 | TOTAL | 10 |

REMARKS: 1100-1115 VRL 6 @ 2804 1115-115 Drill 115-130 @ 2867 Jet #1 130-215 Drill 1215-230 @ 2897
 Jet #2 Form mud 230-700 Drill

| FROM | TO | FORMATION | ROTARY SPEED | WEIGHT ON BIT | PUMP PRES. | NAME | HRS. |
|------------|------|-------------------------|--------------|---------------|------------|---------------|------|
| 3020 | 3248 | Shale | 80 | 35000 | 850 | Larry Mlinak | 8 |
| | | | | | | Randy Bassett | 8 |
| | | | | | | Dusty Pearson | 8 |
| SLOPE TEST | | ACCIDENT: - (GIVE NAME) | | | | | |
| ° | FT. | | | | | | |
| DEG. OFF | | | | (50) | | Greg 1 Mlinak | 8 |

| BIT AND COREHEAD RECORD | | MUD RECORD | | TIME RECORD | | DRILL STEM RECORD | |
|-------------------------|----------|----------------------|------|-------------|-------------------------------|-------------------|--|
| RUN NO. | 2 | WEIGHT | 8.7 | DRILLING | 6 ³ / ₄ | SIZE D. P. | |
| SIZE | 7 7/8 PR | WISC. | 52 | CORING | CON | SIZE COLL. | |
| MAKE | GX218 | WTR. LOSS-C.C. | 8.0 | OTHER | ✓ | IS. D. P. | |
| SERIAL NO. | 5149882 | FILTER CAKE | 132 | REPAIRS | | KELLY DOWN | |
| DEPTH IN | 222 | PH. | 11.5 | TRIP | | COLLARS | |
| HOURS RUN | 36 | MTL. ADDED (REMARKS) | | JET | 1/2 | TOTAL | |

REMARKS: 7:00-7:15 Set Rig @ 3023, 7:15-7:30 Drill, 8:15-9:30 Circulation @ 3048
 8:30-9:00 Drill, 9:00-9:15 Jet #1 After Displacement @ 3063, 9:15-12:30 Drill, 12:30-12:45 Pump, @ 3181, 12:45-3:00 Drill

| FROM | TO | FORMATION | ROTARY SPEED | WEIGHT ON BIT | PUMP PRES. | NAME | HRS. |
|------------|------|-------------------------|--------------|---------------|------------|-----------------|------|
| 3248 | 3452 | Shale | 80 | 35000 | 850 | Justin Bunting | 8 |
| | | | | | | Corey Adamson | 8 |
| | | | | | | Chad Mayfield | 8 |
| SLOPE TEST | | ACCIDENT: - (GIVE NAME) | | | | | |
| ° | FT. | | | | | | |
| DEG. OFF | | | | (25) | | Jason Showalter | 8 |

| BIT AND COREHEAD RECORD | | MUD RECORD | | TIME RECORD | | DRILL STEM RECORD | |
|-------------------------|--------------------------------|----------------------|-----|-------------|-------------------------------|-------------------|------------|
| RUN NO. | 7 | WEIGHT | 8.8 | DRILLING | 7 ¹ / ₄ | SIZE D. P. | 18-Gel |
| SIZE | 7 7/8 PR | WISC. | 50 | CORING | CON | SIZE COLL. | 3-5A |
| MAKE | GX200 | WTR. LOSS-C.C. | 52 | OTHER | ✓ | IS. D. P. | 1-C |
| SERIAL NO. | 5149882 | FILTER CAKE | | REPAIRS | 1/4 | KELLY DOWN | 1.6 |
| DEPTH IN | 222 | PH. | | TRIP | | COLLARS | 1/2 SK Pac |
| HOURS RUN | 43 ¹ / ₄ | MTL. ADDED (REMARKS) | | | | TOTAL | 8-Hulls |

REMARKS: 3:00-4:00 Rig, 4:00-4:15 Rig, 4:15-11:00 Drill

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 WICHITA, KS

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DAILY DRILLING REPORT

43-5 BOX 802 TERLSA OK 7100
1-800-331-2264

CONTRACTOR

Discovery Drilling Co. Inc.

MON.

DATE 8-11-08

COMPANY

Black diamond oil co

LEASER

Stacks

WELL NO.

LOG NO.

D. P. STRING NO.

SIZE

COUNTY

Rockers

STATE

KS

| FROM | TO | FORMATION | ROTARY SPEED | WEIGHT ON BIT | PUMP PRES. | NAME | HRS. |
|------------|------|-------------------------|--------------|---------------|------------|---------------|------|
| 1610 | 1907 | Shale | 80 | 30000 | 700 | Kenny Jones | 8 |
| 1908 | 1940 | ANYH | 80 | 30000 | 700 | Chuck Dick | 8 |
| 1940 | 2144 | Shale | | | | MAT RODRIGUEZ | 8 |
| SLOPE TEST | | ACCIDENT: - (GIVE NAME) | | | | | |
| 6" | FT. | | | | | | |
| DEC. OFF | | 4 IN FRAC | | | | Terry Jones | 8 |

| BIT AND COREHEAD RECORD | | MUD RECORD | | TIME RECORD | | DRILL STEM RECORD | |
|-------------------------|----------|----------------------|--|-------------|----------|-------------------|--------------|
| RUN NO. | 2 | WEIGHT | | DRILLING | 5 1/4 | SIZE D. P. | 6el 25 |
| SIZE | 7 3/8 RR | VISC. | | CORING CON | 1 1/2 | SIZE COLL. | CAUL 1 |
| MAKE | G&D | WTR. LOSS-C.C. | | OTHER | VRIG 1/4 | ITS. D. P. | 1 1/2 FT. |
| SERIAL NO. | 5147882 | FILTER CAKE | | REPAIRS | | KELLY DOWN | S&A 2 FT. |
| DEPTH IN | 222 | PH | | TRIP | 2 1/4 | COLLARS | CDTS 1/4 FT. |
| HOURS RUN | 13 | MTL. ADDED (REMARKS) | | JET | 1/4 | TOTAL | Hulls 2 FT. |

REMARKS: 1100-1200 Drill 1200-1215 VRIG @ 1704 1215-400 Drill 400-415 @ 1955 Jet #1
415-615 Drill 615-700 Pull 14 stands hole in standpipe

| FROM | TO | FORMATION | ROTARY SPEED | WEIGHT ON BIT | PUMP PRES. | NAME | HRS. |
|------------|------|-------------------------|--------------|---------------|------------|---------------|------|
| 2144 | 2396 | Shale | 80 | 35000 | 800+ | Dusty Stewart | 8 |
| SLOPE TEST | | ACCIDENT: - (GIVE NAME) | | | | | |
| 6" | FT. | | | | | | |
| DEC. OFF | | Frac full | | | | SGI Home | 8 |

| BIT AND COREHEAD RECORD | | MUD RECORD | | TIME RECORD | | DRILL STEM RECORD | |
|-------------------------|----------|----------------------|--|-------------|-------|-------------------|-----------|
| RUN NO. | 2 | WEIGHT | | DRILLING | 5 1/2 | SIZE D. P. | 2.5 Gel |
| SIZE | 7 3/8 RR | VISC. | | CORING CON | 3/4 | SIZE COLL. | 2 500' |
| MAKE | G&D | WTR. LOSS-C.C. | | OTHER | | ITS. D. P. | 1 1/2 FT. |
| SERIAL NO. | 5147882 | FILTER CAKE | | REPAIRS | 3 1/2 | KELLY DOWN | 1 G&D |
| DEPTH IN | 222 | PH | | TRIP | | COLLARS | 2 Hulls |
| HOURS RUN | 16 1/2 | MTL. ADDED (REMARKS) | | JET | 1/4 | TOTAL | 1/4 P&C |

REMARKS: 7:00 TO 9:00 W&W 4 INTO 2144 W&W on Standpipe Trip back in 10:30 TO 12:30 Drill 12:30 TO 12:45 Jet #1 @ 2271 12:45 TO 3:00 Drill

| FROM | TO | FORMATION | ROTARY SPEED | WEIGHT ON BIT | PUMP PRES. | NAME | HRS. |
|------------|------|-------------------------|--------------|---------------|------------|-----------------|------|
| 2390 | 2798 | Shale | 80 | 35000 | 800 | Justin Bunting | 8 |
| SLOPE TEST | | ACCIDENT: - (GIVE NAME) | | | | | |
| 6" | FT. | | | | | | |
| DEC. OFF | | | | | | Jason Showalter | 8 |

| BIT AND COREHEAD RECORD | | MUD RECORD | | TIME RECORD | | DRILL STEM RECORD | |
|-------------------------|----------|----------------------|--|-------------|-------|-------------------|-------------|
| RUN NO. | 2 | WEIGHT | | DRILLING | 6 1/2 | SIZE D. P. | 18-Gel |
| SIZE | 7 3/8 RR | VISC. | | CORING CON | 1 | SIZE COLL. | 2-S&A |
| MAKE | G&D | WTR. LOSS-C.C. | | OTHER | 1/4 | ITS. D. P. | 1-6 FT. |
| SERIAL NO. | 5147882 | FILTER CAKE | | REPAIRS | | KELLY DOWN | 1-C FT. |
| DEPTH IN | 222 | PH | | TRIP | | COLLARS | 2-Hulls |
| HOURS RUN | 23 | MTL. ADDED (REMARKS) | | JET | 1/4 | TOTAL | 1/4-S&A P&C |

REMARKS: 3:00-3:15 Rig Jet @ 2396 3:15-6:00 Drill 6:00-6:15 Jet #1 @ 2552 6:15-11:00 Drill

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CONSERVATION DIVISION
WICHITA KS

DAILY DRILLING REPORT

Form 43-5 Rev. 8-11-78

CONTRACTOR: Dismore Oil
LEASE: States
WELL NO.: 1
RIG NO.: 1
D. P. STRING NO.: K
DATE: 8-10-08

Table with columns: FROM, TO, FORMATION, ROTARY SPEED, WEIGHT ON BIT, PUMP PRES., NAME, HRS. Includes SLOPE TEST and ACCIDENT: - (GIVE NAME)

BIT AND COREHEAD RECORD, MUD RECORD, TIME RECORD, DRILL STEM RECORD. Includes columns for RUN NO., SIZE, MAKE, SERIAL NO., DEPTH IN, HOURS RUN, WEIGHT, VISC., WTR. LOSS-C.C., FILTER CAKE, PH., MTL. ADDED (REMARKS), DRILLING, CORING, OTHER, REPAIRS, TRIP, SIZE D. P., SIZE COLL., JTS. D. P., KELLY DOWN, COLLARS, TOTAL.

REMARKS:

Table with columns: FROM, TO, FORMATION, ROTARY SPEED, WEIGHT ON BIT, PUMP PRES., NAME, HRS. Includes SLOPE TEST and ACCIDENT: - (GIVE NAME). Handwritten: 2 IN FRAC

BIT AND COREHEAD RECORD, MUD RECORD, TIME RECORD, DRILL STEM RECORD. Includes handwritten notes: 2 1/2, 3 1/4, 2, 3 1/2, 44-Gel, CAUST., LIG-1, 5.45H-4, HULLS-32, DRIS-1/3sk

REMARKS: 10:30 Delg. 10/30 to 11:00 Drill. 11:00 Delg. 11:00

Table with columns: FROM, TO, FORMATION, ROTARY SPEED, WEIGHT ON BIT, PUMP PRES., NAME, HRS. Includes SLOPE TEST and ACCIDENT: - (GIVE NAME). Handwritten: 3 IN FRAC

BIT AND COREHEAD RECORD, MUD RECORD, TIME RECORD, DRILL STEM RECORD. Includes handwritten notes: 4.00, 8.7, 5, 2 1/2, 1/4, 44-Gel, 1-C, 1-L, 4-SA, 1/2-SK frac, 12-Hulls

REMARKS: 3:00-4:30 Delg. 4:30-4:45 Riqv @ 915' 4:45-6:45 Delg 6:45-7:00 JET #1 @ 1137' 7:00-11:00 Delg.

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CONSERVATION DIVISION WICHITA, KS

DAILY DRILLING REPORT

Form 43-5 BOX 451 TULSA OK 74101
TULSA 01 7250

CONTRACTOR

Discovery Drilling Co. Inc.

DATE

Thurs. 8-7-08

COMPANY

Black diamond oil co

LEASE

States

WELL NO.

1

TRIG NO.

1

DISTRICT

Rooke

STATE

KS

D. P. STRING NO.

SIZE

| FROM | TO | FORMATION | ROTARY SPEED | WEIGHT ON BIT | PUMP PRES. | | NAME | HRS. |
|------------|-----|-------------------------|--------------|---------------|------------|----|----------------|------|
| 223 | 279 | Sand shale | 90 | 15000 | 600 | UM | Kenny Jones | 8 |
| | | | | | | EM | Chuck Dick | 8 |
| | | | | | | H | Matt Rodriguez | 8 |
| SLOPE TEST | | ACCIDENT: - (GIVE NAME) | | | | | | |
| 6" | 11" | | | | | | | |
| DEC. OFF | | | | | | | | |

(3 1/4 hrs Drilled)

(25)

Terry Jones 8

| BIT AND COREHEAD RECORD | | MUD RECORD | | TIME RECORD | | DRILL STEM RECORD | |
|-------------------------|---------|----------------------|--|-------------|----|-------------------|-----|
| RUN NO. | 2 | WEIGHT | | DRILLING | 1 | SIZE D. P. | |
| SIZE | 7/8 PP | VISC. | | CORING | | SIZE COLL. | |
| MAKE | G&D | WTR. LOSS-C.C. | | OTHER | 6 | JIS. D. P. | FT. |
| SERIAL NO. | 5149287 | FILTER CAKE | | REPAIRS | 1" | KELLY DOWN | FT. |
| DEPTH IN | 223 | PH. | | TRIP | | COLLARS | FT. |
| HOURS RUN | 1 | MTL. ADDED (REMARKS) | | | | TOTAL | FT. |

REMARKS: 1:00-1:20 Finish cementing 1" 1:20-8:00 WDC @ 223 600-700 Drill

| FROM | TO | FORMATION | ROTARY SPEED | WEIGHT ON BIT | PUMP PRES. | | NAME | HRS. |
|------------|-----|-------------------------|--------------|---------------|------------|----|---------------|------|
| 319 | 474 | Sand shale | 70 | 15000 | 600 | UM | Larry Mizek | 8 |
| | | | | | | EM | Randy Bessell | 8 |
| | | | | | | H | Dave Pearson | 8 |
| SLOPE TEST | | ACCIDENT: - (GIVE NAME) | | | | | | |
| 6" | 11" | | | | | | | |
| DEC. OFF | | | | | | | | |

(27)

John Stigler 8

| BIT AND COREHEAD RECORD | | MUD RECORD | | TIME RECORD | | DRILL STEM RECORD | |
|-------------------------|---------|----------------------|--|-------------|-----|-------------------|-----|
| RUN NO. | 2 | WEIGHT | | DRILLING | 1 | SIZE D. P. | |
| SIZE | 7/8 RR | VISC. | | CORING | 1/2 | SIZE COLL. | |
| MAKE | G&D | WTR. LOSS-C.C. | | OTHER | 1/4 | JIS. D. P. | FT. |
| SERIAL NO. | 5149287 | FILTER CAKE | | REPAIRS | | KELLY DOWN | FT. |
| DEPTH IN | 222 | PH. | | TRIP | | COLLARS | FT. |
| HOURS RUN | 1 | MTL. ADDED (REMARKS) | | | | TOTAL | FT. |

REMARKS: 7:00-8:30 D/B. 8:30-9:00 Check Collars / Lost Returns 9:00-10:00 D/B. 10:00-10:30 D/B. 10:30-11:00 D/B. 11:00-11:30 D/B. 11:30-12:00 D/B.

| FROM | TO | FORMATION | ROTARY SPEED | WEIGHT ON BIT | PUMP PRES. | | NAME | HRS. |
|------------|-----|-------------------------|--------------|---------------|------------|----|------|------|
| | | | | | | DM | | |
| | | | | | | EM | | |
| SLOPE TEST | | ACCIDENT: - (GIVE NAME) | | | | | | |
| 6" | 11" | | | | | | | |
| DEC. OFF | | | | | | | | |

| BIT AND COREHEAD RECORD | | MUD RECORD | | TIME RECORD | | DRILL STEM RECORD | |
|-------------------------|--|----------------------|--|-------------|--|-------------------|-----|
| RUN NO. | | WEIGHT | | DRILLING | | SIZE D. P. | |
| SIZE | | VISC. | | CORING | | SIZE COLL. | |
| MAKE | | WTR. LOSS-C.C. | | OTHER | | JIS. D. P. | FT. |
| SERIAL NO. | | FILTER CAKE | | REPAIRS | | KELLY DOWN | FT. |
| DEPTH IN | | PH. | | TRIP | | COLLARS | FT. |
| HOURS RUN | | MTL. ADDED (REMARKS) | | | | TOTAL | FT. |

REMARKS:

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TOOL
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CONSERVATION DIVISION
WICHITA, KS

DAILY DRILLING REPORT

43-5 1000 1000 1000 1000

CONTRACTOR

Discovery Delq Inc.

WEDNESDAY

DATE 8-6-08

COMPANY

BLACK DIAMOND OIL CO

LEASE

STATES

WELL NO.

1

PIG NO.

1

DISTRICT

COUNTY

ROOKS

STATE

KS

D. P. STRING NO.

SIZE

4 1/2 - 2 - HOLE

| FROM | TO | FORMATION | ROTARY SPEED | WEIGHT ON BIT | PUMP PRES. | NAME | HRS. |
|-------------------------|----|-------------------------|--------------|---------------|------------|--------------------|------|
| | | | | | | (25) KENNY JONES | 8 |
| | | | | | | (25) CHAD MAYFIELD | 8 |
| | | | | | | CHUCK CLICK | 8 |
| SLOPE TEST | | ACCIDENT: - (GIVE NAME) | | | | | |
| UP | FE | | | | | | |
| DEC. OFF | | | | | | (25) TERRY JONES | 8 |
| BIT AND COREHEAD RECORD | | MUD RECORD | | TIME RECORD | | DRILL STEM RECORD | |
| RUN NO. | | WEIGHT | | DRILLING | | SIZE D. P. | |
| SIZE | | VISC. | | CORING | | SIZE COLL. | |
| MAKE | | WTR. LOSS-C.C. | | OTHER | | ITS. D. P. | FT. |
| SERIAL NO. | | FILTER CAKE | | REPAIRS | | KELLY DOWN | FT. |
| DEPTH IN | | PH. | | TRIP | | COLLARS | FT. |
| HOURS RUN | | MTL. ADDED (REMARKS) | | TOTAL | | TOTAL | FT. |

REMARKS: 7:00-3:00 Help set rig / rig up / pump / yard / water / etc

| FROM | TO | FORMATION | ROTARY SPEED | WEIGHT ON BIT | PUMP PRES. | NAME | HRS. |
|-------------------------|---------|-------------------------|--------------|---------------|------------|---------------------|------|
| 0 | 40 | SAND + SHALE + CLAY | 120 | ALL | 600 | LARRY MLINER | 10 |
| | | | | | | RANDY BASGALL | 10 |
| | | | | | | DUSTY ROGEEAN | 10 |
| SLOPE TEST | | ACCIDENT: - (GIVE NAME) | | | | | |
| UP | FE | | | | | | |
| DEC. OFF | | | | | | (100) JASON SHENKLE | 10 |
| BIT AND COREHEAD RECORD | | MUD RECORD | | TIME RECORD | | DRILL STEM RECORD | |
| RUN NO. | 1 | WEIGHT | | DRILLING | 1/2 | SIZE D. P. | |
| SIZE | 12 1/4 | VISC. | | CORING | 2 3/4 | SIZE COLL. | |
| MAKE | MXO9DX | WTR. LOSS-C.C. | | OTHER | 4 1/2 | ITS. D. P. | FT. |
| SERIAL NO. | 6005028 | FILTER CAKE | | REPAIRS | 4 1/2 | KELLY DOWN | FT. |
| DEPTH IN | 0 | PH. | | TRIP | | COLLARS | FT. |
| HOURS RUN | 1/2 | MTL. ADDED (REMARKS) | | TOTAL | | TOTAL | FT. |

REMARKS: 2:00-11:15 Load out Move 11:15-2:00 Rig up 2:00-2:30 Put hole 2:30-3:00 Sand FINISH PUTTING RIG TOGETHER (WAIT ON LOADS).

| FROM | TO | FORMATION | ROTARY SPEED | WEIGHT ON BIT | PUMP PRES. | NAME | HRS. |
|-------------------------|---------|-------------------------|--------------|---------------|------------|---------------------|------------|
| 40 | 223 | SAND + SHALE | 120 | ALL | 600 | (25) JUSTIN BUNTING | 8 |
| | | | | | | CORY ADAMSON | 8 |
| | | | | | | CHAD MAYFIELD | 8 |
| SLOPE TEST | | ACCIDENT: - (GIVE NAME) | | | | | |
| UP | FE | | | | | | |
| DEC. OFF | | | | | | (25) STAN LOUCLADY | 8 |
| BIT AND COREHEAD RECORD | | MUD RECORD | | TIME RECORD | | DRILL STEM RECORD | |
| RUN NO. | 1 | WEIGHT | | DRILLING | 2 1/4 | SIZE D. P. | 25 GEL |
| SIZE | 12 1/4 | VISC. | | CORING | 3 1/4 | SIZE COLL. | 1 CAUSTIC |
| MAKE | MXO9DX | WTR. LOSS-C.C. | | OTHER | 4 1/4 | ITS. D. P. | 1 LIC FT. |
| SERIAL NO. | 6005028 | FILTER CAKE | | REPAIRS | | KELLY DOWN | 2 SIDELINE |
| DEPTH IN | 0 | PH. | | TRIP | 1/2 | COLLARS | 2 HOLE |
| HOURS RUN | 2 1/2 | MTL. ADDED (REMARKS) | | TOTAL | 1/2 | TOTAL | 1/2 DEPTH |

REMARKS: 3:00-5:45 Delq. SURFACE HOLE 5:45-6:00 CTCH @ 223' 6:00-6:30 Trip out w/Bit - Run 898 csg 6:30-6:45 Circ 8 5/8 6:45-11:00 CEMENT DID NOT CURE WDC

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