Confidentiality Requested: Yes No

KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1195449

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

| OPERATOR: License # | API No. 15 |
|---|---|
| Name: | Spot Description: |
| Address 1: | |
| Address 2: | Feet from Dorth / South Line of Section |
| City: State: Zip:+ | Feet from East / West Line of Section |
| Contact Person: | Footages Calculated from Nearest Outside Section Corner: |
| Phone: () | |
| CONTRACTOR: License # | GPS Location: Lat:, Long: |
| Name: | (e.g. xx.xxxxx) (e.gxxx.xxxxx) |
| Wellsite Geologist: | Datum: NAD27 NAD83 WGS84 |
| Purchaser: | County: |
| Designate Type of Completion: | Lease Name: Well #: |
| New Well Re-Entry Workover | Field Name: |
| Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic. Other (Core Expl. etc.): | Producing Formation: |
| If Workover/Re-entry: Old Well Info as follows: | If yes, show depth set: Feet |
| Operator: | If Alternate II completion, cement circulated from: |
| Well Name: | feet depth to:w/sx cmt. |
| Original Comp. Date: Original Total Depth: Deepening Re-perf. Conv. to ENHR Conv. to SWD Plug Back Conv. to GSW Commingled Permit #: Dual Completion Permit #: SWD Permit #: ENHR Permit #: GSW Permit #: | Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) Chloride content: ppm Fluid volume: bbls Dewatering method used: Location of fluid disposal if hauled offsite: Operator Name: Lease Name: |
| Spud Date or Date Reached TD Completion Date or Recompletion Date | Quarter Sec. Twp. S. R. East West |

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

| KCC Office Use ONLY |
|---------------------------------|
| Confidentiality Requested |
| Date: |
| Confidential Release Date: |
| Wireline Log Received |
| Geologist Report Received |
| UIC Distribution |
| ALT I II III Approved by: Date: |

| | Page Iwo | 1195449 |
|-----------------------|-------------|---------|
| Operator Name: | Lease Name: | Well #: |
| Sec TwpS. R East West | County: | |

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

| Drill Stem Tests Taken (Attach Additional She | eets) | Yes No | | og Formatic | on (Top), Depth an | nd Datum | Sample |
|--|----------------------|------------------------------|--------------------------|--------------------|--------------------|-----------------|-------------------------------|
| Samples Sent to Geological Survey | | Yes No | Nam | e | | Тор | Datum |
| Cores Taken Electric Log Run | | ☐ Yes ☐ No ☐ Yes ☐ No | | | | | |
| List All E. Logs Run: | | | | | | | |
| | | | | | | | |
| | | CASING | RECORD Ne | w Used | | | |
| | | Report all strings set-o | conductor, surface, inte | rmediate, producti | on, 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 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | ADDITIONAL | . CEMENTING / SQU | EEZE RECORD | | | |
| | | | | | | | |

| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
|--------------------------------|---------------------|----------------|--------------|----------------------------|
| Protect Casing Plug Back TD | | | | |
| Plug Off Zone | | | | |

No

No

(If No, skip questions 2 and 3)

(If No, skip question 3)

| Did you perform a hydraulic fracturing treatment on this well? | Yes |
|---|-----|
| Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? | Yes |
| Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? | Yes |

| Was the hydraulic fractur | ring treat | ment information su | bmitted | I to the chemica | al disclosure | registry? | Yes | No (If | No, fill out Page Three of the A | ICO-1) |
|--------------------------------------|---|---------------------|---------|------------------|---------------|---------------------|---|---------------------------|----------------------------------|---------|
| 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 | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TUBING RECORD: | Si | ze: | Set At: | | Packe | r At: | Liner Run | : Yes | No | |
| Date of First, Resumed | Product | ion, SWD or ENHR | | Producing M | ethod: | ping | Gas Lift | Other (Explain |) | |
| Estimated Production Per 24 Hours | | Oil Bbls | 5. | Gas | Mcf | Wate | er | Bbls. | Gas-Oil Ratio | Gravity |
| DISPOSITI | ON OF (| GAS: | | | METHOD | OF COMPLE | TION: | | PRODUCTION INT | ERVAL: |
| Vented Solo | | Jsed on Lease | | Open Hole | Perf. | Dually (Submit) | Comp. A <i>CO-5)</i> | Commingled (Submit ACO-4) | | |
| (If vented, Su | bmit ACC | P-18.) | | Other (Specify) | | | | | | |

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

| Form | ACO1 - Well Completion |
|-----------|-------------------------|
| Operator | Black Diamond Oil, Inc. |
| Well Name | KEMPER 2 |
| Doc ID | 1195449 |

Perforations

| Shots Per Foot | Perforation Record | Material Record | Depth |
|----------------|--------------------|-----------------|-------|
| 4 | 3552-54 | 4000 gal 20% NE | |
| 4 | 3439-41 | | |
| 4 | 3421-25 | | |
| 4 | 3406-08 | | |
| 4 | 3373-76 | | |
| 4 | 3356-60 | | |

| Cell 785-324-1041 | erials, pro | tern net | Bange | | ntv been of | State | On Location | Finish |
|--|--------------------------------------|------------------------------|---|---|--------------------|--|--|-----------------------------|
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| ontractor Ww #6 | , any amo | den toan | <u>enco legal conte</u> 1º octat de conte | Yo | u are hereb | y requested to rent helper to assist ow | ner or contractor to do | work as listed |
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| Bulktrk Pu No. Dri | ver Trav | 'is | Contract, a daad | oint to 1 C | Calcium 2 | <u>s officerwise specifi</u> was does and yew r | esini i 2010HARO di Senario ed iliw | bod eoing ine |
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| Mouse Hole | | | | K | Kol-Seal | and the second sec | Lod with the understand of | (A) Damana |
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ITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107 QUAL

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No. 7746 tract, "merchandise" refers to the Cell 785-324-1041

| Date 3-1/-4 27 5 24 Merten K5 1/4 Spin- Location Location Lines Lease Kenner Weil No.Z Owner Owner To Quality Direct Carbon Lines 1/4 Spin- Location Lines Contractor (1/1/4/42 To Quality Direct Carbon Lines To Quality Direct Carbon Lines 1/4 Spin- Location Lines 1/4 Spin- Location Lines Type Job Free Lines To Quality Direct Carbon Lines 1/4 Spin- Location Lines 1/4 Spin- Location Lines 1/4 Spin- Location Lines 1/4 Spin- Location Lines Copy State To State Depth Col State 1/4 Spin- Location Lines Tool Depth Depth The Book wis done to satisfaction and supervision of contractor. Common Lines Depth The Book wis done to satisfaction and supervision of contractor. Carbon Depth The Book wis done to satisfaction and supervision of contractor. Carbon Depth Contractor Lines and Lines State Tool Depth Contractor Lines and Lines State Tool Depth Contractor Lines and Lines State Double Contractor Contractor Lines and Lines Contractor Lines State B | ent enoted "Y FLIALICS" of m | Sec. | Twp. | Range | "Playio | County | State State of tion | On Location | Finish | | |
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| Rat Hole 3054 Flowseal //2# mathematical and the second and the s | Remarks: | inulni 101 | eldeil | ed ion liens Y | TUALKO | Salt /4 100 hours and hours and hours and hours and hours | | | | | |
| Mouse Hole Kol-Seal 750H Centralizers Mud CLR 48 Baskets CFL-117 or CD110 CAF 38 D/V or Port Collar Sand Start on her too BitHild 3565.54 Handling(2) Start on her too BitHild 3565.54 Handling(2) ICBL queue Concert Kathole with 354 FLOAT EQUIPMENT ICBL queue Concert Kathole with 354 FLOAT EQUIPMENT ISD 54 15 ma Offar Invest y Displace Invest 54 with 420 54 Cont Offar Invest y Displace ISD 54 15 ma Offar Invest y Displace IND 10 Not Invest y Displace Invest 54 with 420 54 Cont Invest y Displace Invest 10 Not Invest y | Rat Hole Zask | ed lierle | tomer | rdhandise. Cus | em ent l | Flowseal //2#0 constructing and most gridene of amabito eaplight | | | | | |
| Centralizers Mud CLR 48 Baskets CFL-117 or CD110 CAF 38 D/V or Port Collar Sand Strice on burton BitHill 3565,54 Handling (2) Mileage IOB: Arrive Control Rithill 356,54 Handling (2) IOB: Arrive Control Rithill 356,54 FLOAT EQUIPMENT IOB: Arrive Control Rithill with 358 FLOAT EQUIPMENT IOB: Arrive Control Rithill with 358 FLOAT EQUIPMENT IOB: Arrive Control Rithill with 358 Centralizer 9 Turbols ISO 54 13,555 Deast 189,92 Intersts Baskets 8 Beskets Intersts Intersts Interstop Interstop Interstop Interstop Interstop Interstop Interstop Interstop Interp Pumptrk Charge Mileage I Tax Mall Base Discount Signature Marel Base Total Charge | Mouse Hole | 100 100 011 | a fina : | a an nasfar fu ta 119 | yoos, nt | Kol-Seal 750# | | | | | |
| Baskets CFL-117 or CD110 CAF 38 DV or Port Collar Sand Sand Mileage ISS Strate Construction of Mathed with Six FLOAT EQUIPMENT Capacity Centralizer ISD Strate Construction of Capacity Guide Shoe ISD Strate Construction of Capacity Baskets Physic Tax Capacity Centralizer Physic Tax Capacity AFU Inserts Charles Construction Sand Signature Share United Sand Signature Share United Sand | Centralizers | chuding (| ni ,noe | ight by any pan | uichid, rithe | (A) Damage to property or for bodily injury, sideness, 84 RJJ bulk 8 | | | | | |
| DV or Port Collar Sand Handling 621 Signature bhaveller Stage Marker Stage Mileage Stage | Baskets did low a most pri | ieha ega | r dami | isorvoir loss, o | n llew i | CFL-117 or CD110 CAF 38 | | | | | |
| # 5 1/2 on berton Bill (0 3565:54 Handling 621 E57: Invite mp Stegge 1 mol Charx Mileage 10BL - Arche Conert Rethole with 35K FLOAT EQUIPMENT Concert Strain 1 and Charx Guide Shoe Concert Strain 1 and Charx Guide Shoe Concert Strain 1 and Charx Guide Shoe Discourt Strain 1 and Strain 2 and | D/V or Port Collar | nethoos | e ni e | of manchaneli | gétrieten | Sand and to senametree 2'YTLAUC ritiw neasonap is to to auto pri | | | | | |
| Est Cincilation Pomp Set get mod Chark Mileage 10.BL - Direct Rithole with 35K FLOAT EQUIPMENT Center 5 k with 420 st Comix & 11.2pp, Guide Shoe 150 st 15 m Olear 1, wes 4 Displace Centralizer 9 Timbols Phys. This lawlefe 2000th Baskets 8 Beskets Centralizer 9 Timbols Centralizer 9 Timbols Phys. This lawlefe 2000th Baskets Centralizer 9 Timbols Phys. This lawlefe 2000th Baskets Centralizer 9 Timbols Centralizer 9 Timbols Centralizer 9 Timbols Phys. This lawlefe 2000th Baskets Centralizer 9 Timbols Centralizer 9 Ti | \$51/2 on herton | N-Bat | flee | 3565 | ~4. | Handling 621 Here a beeuso al epis mab to adol doute | | | | | |
| 10.BL Grick Commer Rithole with JOSK FLOAT EQUIPMENT Cpickt 5 k with 420 sk Q mix & 11.2pp; Guide Shoe 150 sk 15 mg, Chear Lives & Displace Centralizer 9 Twiske's Phy: Pwg: Pwg: Pwg. Lives & Displace Baskets 8 Beskets Centralizer 9 Twiske's Pwg: Pwg. Lives & Displace Centralizer 9 Twiske's Centralizer 9 Twiske's Pwg: Pwg. Lives & Displace Latch Down Inserts Pumptrk Charge Mileage & Mileage & Tax Obscount Total Charge Signature Bhavell Direc | Est. Constation Po | mps | A ca | 1 mod Cla | ich | Mileage | | | | | |
| Cinert 5 K with 420 st G mix & 11.7pps Guide Shoe 150 st 15 ms Olear I we st Displace Centralizer 9 Turbe's Phys. Prys Tawlefe 2000#. Baskets 8 Baskets Cement Circulated: Float Shoe Latch Down 1 Call Charge Mileage & Discount Tax Mall Base Signature Sharel Latch | 10.RL Spelle G | ement | Rat | hole with 3 | 70sk | FLOAT EQUIPMENT | | | | | |
| 150 st 15 m Olear lives y Displace Centralizer 9 Turbo's Phys. Phys. Lawlefe 2000#. Baskets 8 Beskets AFU Inserts Cement Circulated. Float Shoe Latch Down Baskets 8 Beskets Float Shoe Latch Down Comment Circulated. Float Shoe Latch Down Tax Male Bore Signature Sharel of the Shoe Signature Sharel of the Shoe Shoe Shoe Signature Sharel of the Shoe Signature Sharel of the Shoe Shoe Shoe Shoe Signature Sharel of the Shoe S | ament 51/cwith | 420: | SK B | MDC B 11 | ppa- | Guide Shoe shoe shoe shoe shoe shoe shoe shoe s | | | | | |
| Phys. Phys. Tangell 2000#. AFU Inserts Cement Circulated. Latch Down Baskets & Baskets Float Shoe Latch Down Pumptrk Charge Mileage 6/ Tax Discount Signature Sharel dree | 150 St 15.00.a. | Cle | arl | wesy Disi | slace | Centralizer 9 Turbols of water or other of Turbols | | | | | |
| AFU Inserts Float Shoe Latch Down Latch Down Pumptrk Charge Mileage 6/ Tax Discount Signature Sharel Orce | Phra: Phra Pan | 2000 | 200 | 90# · | ni beoh | Baskets & Beskets | | | | | |
| Clement Circulated: Latch Down Latch Down Pumptrk Charge Mileage 6/ Mileage 6/ Tax Discount Total Charge | 19-31 | | 1 | tot sons | AFU Inserts AFU Desired visions of the strew aid tebru | | | | | | |
| Latch Down / Latch | Clment instated. | | | | | Float Shoe | | | | | |
| And Base Signature Shareletice | | | | 9,000 | Latch Down | | | | | | |
| Pumptrk Charge Mileage 6/ Mall Bare Signature Bhavel else | 1 | ~ | | storiale, produ | m ødige | n ob yd bleun | | noeleni memeoside Demos evilinua demea | be the repair or plant of plant | | |
| Pumptrk Charge Mileage 6/ Mal Bage Xignature Signature | 1/1/ | フ | | Y | | | | sheally: | . Nore spec | | |
| Mileage 6/ Tax Mail Boge Signature Sharel elize | (D) | | | | | Pumptrk Ch | arge | ane sendos seran | (A) Nound | | |
| Mail Bore Signature Shareletice Total Charge | LIALIO VI Abarta participation | H ,alost V | në fo i | or conscines | овитясу | Mileage | e construed as a v | n this contract was | (B) Nothing | | |
| Xignature Shareletice | LET or its employees in the | IAUO to | 0000 | er aross necks | ina mai Joubnot | annous repto | agrillation released by the | Tax | by OUABLEY OF A | | |
| Signature Shareletce 200 entro and and heliqueso in YTLAUC bas inege Total Charge 300 entro los | Marl | 3290 | tu ed l | Ishe YTLIAUO | Jone by | o work (C) | s, information or data. | Discount | preparation or fur | | |
| | X Signature Sharele | lise |) | о извате средня | <u>ne as d</u> | ompilen the p | and QUALITY will accu | Total Charge | trol of the OUST | | |

| Company: Address: | OPERATOR BLACK DIAMOND OIL, INC. PO BOX 641 HAYS, KANSAS 67601 | | | | | | |
|--|---|----------------------------|--|--|--|--|--|
| Contact Geologist: Contact Phone Nbr: Well Name: Location: Pool: State: | KEN VEHIGE 785-625-5891 KEMPER # 2 NE NW NE NW Sec.27-5s-21w KANSAS | API: Field: Country: | 15-137-20,689-00-00 RAY WEST USA | | | | |
| | Scale 1:240 Imperial | | | | | | |
| Well Name: Surface Location: Bottom Location: | KEMPER # 2 NE NW NE NW Sec.27-5s-21w | | | | | | |
| License Number: Spud Date: Region: | 7076 3/6/2014 NORTON COUNTY | Time: | 8:28 PM | | | | |
| Drilling Completed: Surface Coordinates: Bottom Hole Coordinates: | 3/9/2014 30' FNL & 1950' FWL | Time: | 10:02 PM | | | | |
| K.B. Elevation: K.B. Elevation: Logged Interval: Total Depth: Formation: Drilling Fluid Type: | 2175.001 2180.00ft 3100.00ft 3609.00ft ARBUCKLE CHEMICAL/FRESH WATER GEL | To: | 3609.00ft | | | | |
| | SURFACE CO-ORDINATE | =s | | | | | |
| Well Type: Longitude: N/S Co-ord: E/W Co-ord: | Vertical -99.6767942 30' FNL 1950' FWL | Latitude: | 39.5959863 | | | | |
| LOGGED BY | | | | | | | |
| Company: Address: | SOLUTIONS CONSULTING, INC 108 W 35TH HAYS, KS 67601 | <u>.</u> | | | | | |
| Phone Nbr: Logged By: | (785) 639-1337 GEOLOGIST | Name: | HERB DEINES | | | | |
| Contractor: | CONTRACTOR WW DRILLING, LLC | | | | | | |
| Rig #: Rig Type: Spud Date: TD Date: Rig Release: | 6 MUD ROTARY 3/6/2014 3/9/2014 3/11/2014 | Time: Time: Time: | 8:28 PM 10:02 PM 3:45 AM | | | | |
| ELEVATIONS | | | | | | | |
| K.B. Elevation: K.B. to Ground: | 2180.00ft Ground 5.00ft | d Elevation: | 2175.00ft | | | | |
| NOTES | | | | | | | |
| RECOMMENDATION TO RUN PRODUCTION CASING TO FURTHER TEST ARBUCKLE BASED ON POSITIVE RESULTS OF DST # 1 AND FAVORABLE STRUCTURE. | | | | | | | |
| | VORABLE STRUCTURE. | | | | | | |
| OPEN HOLE LOGGING BY: NAE COMPENSATED DENSITY/NEU | VORABLE STRUCTURE. BORS COMPLETION & PRODUCTI TRON LOG, MICRO LOG | ION SERVICE | ES CO: DUAL INDUCTION LOG, | | | | |

FORMATION COMPARISON CHART AND CHRONOLOGY OF DAILY ACTIVITY

| | KEMPER #2 NE NW NE NW SEC.27-5S-21W 2175'GL 2180'KB | KEMPER #1 NW SE SE SEC.22-5-21W | KEMPER # 1 SE SE SW SEC.22-5-21W |
|-------------|--|---------------------------------------|--|
| FORMATION | N LOG TOPS | LOG TOPS | LOG TOPS |
| Anhydrite | 1775 +405 | + 409 | +409 |
| B-Anhydrite | e 1805 +375 | + 380 | |
| Topeka | 3179 -999 | - 998 | |
| Heebner Sh | . 3327-1147 | -1146 | -1159 |
| Toronto | 3354-1174 | -1174 | -1176 |
| LKC | 3372-1192 | -1191 | -1192 |
| ВКС | 3560-1380 | -1377 | |
| Arbuckle | 3605-1425 | -1422 | -1422 |
| RTD | 3609-1429 | -1424 | -1429 |

CHRONOLOGY OF DAILY ACTIVITY

- 3-06-14 RU, Spud 1:30 PM, set 8 5/8" surface casing to 207' w/150 sxs Common 2%gel 3%CC, plug down 5:00PM, slope 1/4 degree
- 3-07-14 1020', drill plug at 1:00 AM
- 3-08-14 2357', drilling, displacement complete at 2972'
- 3-09-14 3300', drilling, CFS 3300', short trip-pulled 33 stands, CFS 3609', RTD 3609' @10:02 PM, mini trip 20 stands, CCH, TOWB, slope ¾ degree, strap 3610.65 board 3611.63
- 3-10-14 3609', DST # 1 3561' to 3609' Arbuckle, log behind DST # 1, TIWB, CCH, LDDP, run and cement production casing
- 3-11-14 3609', cementing-plug down 1:30AM, RD, rig released 3:45 AM

| | DR | ILL STEM | TES | T REPO | ORT | | | | |
|--|--|----------------------------------|---|--------------------------------------|---|--|--|--|-------------|
| | Black | Diamond Oil | | | 27- | 5S-21W | / Norton, I | KS | |
| ESTIN(| G, INC POB | ox 641 | | | Ke | Kemper #2 | | | |
| | Hays, | KS 67601 | | | Job | Job Ticket: 56955 DST#:1 | | | |
| KON. | ATTN | : Herb Deines | | | Tes | t Start: 2 | 014.03.10 @ | 03:24:00 | |
| GENERAL INFORMATION | l: | | | | | | | | |
| Formation: Arbuckle Deviated: No Whip Time Tool Opened: 05:39:30 | ostock: | ft (KB) | | | Tesi Tesi | t Type: ter: | Conventiona Kevin Mack | I Bottom Hole | e (Initial) |
| Inne rest Ended. 09.56.00 | To 3609.00 ft | | | | Unit | NO. | oo levetions: | 2172.00 | |
| Total Depth: 3609.00 ft | (KB) (TVD) | | | | Ken | | evalions. | 2172.00 | ft (CF) |
| Hole Diameter: 7.88 in/ | chesHole Conditi | on: Good | | | | KB | to GR/CF: | 5.00 | ft |
| Serial #: 8653 Outsi | ide | | | | | | | | |
| Press@RunDepth: 302.6 | 68 psig @ 3 | 3562.00 ft (KB) | | | Capacity | | | 8000.00 | psig |
| Start Date: 2014 | 4.03.10 | End Date: | 2 | 2014.03.10 | Last Calil | D.: | 0011.00.10 | 2014.03.10 | |
| Start lime: U | 3:25:00 | End lime: | | 09:56:00 | Time Off | Btm: Btm: | 2014.03.10 | @ 05:37:00 @ 07:46:00 | |
| | | | | | | | | | |
| TEST COMMENT: 30 - IF- 30 - ISI- 30 - FF- 30 - FSI- 30 - FSI- | BoB in 12 min. No Return BoB in 15 min. - No Return | | | | | | | | |
| TEST COMMENT: 30 - IF- 30 - ISI- 30 - FF- 30 - FSI- Pr | BoB in 12 min. No Return BoB in 15 min. - No Return - ssure vs. Time | | | | PF | RESSU | RE SUMM | ARY | |
| TEST COMMENT: 30 - IF- 30 - ISI- 30 - FF- 30 - FSI- 30 - FSI- BOS Prosure Theorem | BoB in 12 min. No Return BoB in 15 min. - No Return | 9053 Temperature |] | Time | Pressure | RESSUI Temp | RE SUMM | ARY | |
| TEST COMMENT: 30 - IF- 30 - ISI- 30 - FF- 30 - FSI- 30 - FSI- Pr | BoB in 12 min. No Return BoB in 15 min. - No Return | 803 Tempenäure ari työn dala. | 110 | Time (Min.) | Pressure (psig) 1743.05 | RESSU Temp (deg F) 101 70 | RE SUMM | ARY on | |
| TEST COMMENT: 30 - IF- 30 - ISI- 30 - FF- 30 - FSI | BoB in 12 min. No Return BoB in 15 min. - No Return | 8053 Tempenäere | | Time (Min.) 0 3 | PF Pressure (psig) 1743.05 46.75 | RESSU Temp (deg F) 101.70 101.98 | RE SUMM Annotatio | ARY on o-static low (1) | |
| TEST COMMENT: 30 - IF- 30 - ISI- 30 - FF- 30 - FSI- 30 - FSI- Pr BOD Presure FR | BoB in 12 min. No Return BoB in 15 min. No Return | 805 Tempendure Il types data | - 110 - 110 - 105 - 100 100 55 | Time (Min.) 0 3 37 | PF Pressure (psig) 1743.05 46.75 189.66 | RESSU Temp (deg F) 101.70 101.98 106.39 | RE SUMM Annotatic Initial Hydro Open To F Shut-In(1) | ARY on o-static low (1) | |
| TEST COMMENT: 30 - IF- 30 - ISI- 30 - FF- 30 - FSI- 30 - FSI- 500 Fromue | BoB in 12 min. No Return BoB in 15 min. No Return | 803 Tompositure | - 110 - 100 | Time (Min.) 0 3 37 66 | Pressure (psig) 1743.05 46.75 189.66 1026.32 | RESSU Temp (deg F) 101.70 101.98 106.39 107.52 | RE SUMM Annotatio Initial Hydro Open To F Shut-In(1) End Shut-I | ARY on o-static low (1) n(1) | |





Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)





| | .63 SHORT |
|---|--|
| soft and sticky | |
| L TOP 3606-1426 | SLOPE @3609' 3/4 DEGREE |
| n, fnxln-granular, fn-cxln, glauconitic, rains, good odor and saturation with SFO. vorked with clear dolomite recrystallization | CFS 3609' Mini short trip 20 stands, CCH |

| | DRILL STEM TES | ST REPORT | | | | |
|--|---|---|--|--|--|--|
| | Black Diamond Oil | 27-5S-21W Norton, KS | | | | |
| ESTING , INC | PO Box 641 | Kemper #2 | | | | |
| | Hays, KS 67601 | Job Ticket: 56955 DST#:1 | | | | |
| New . | ATTN: Herb Deines | Test Start: 2014.03.10 @ 03:24:00 | | | | |
| GENERAL INFORMATION: | | | | | | |
| Formation:ArbuckleDeviated:NoWhipstock:Time Tool Opened:05:39:30Time Test Ended:09:56:00 | ft (KB) | Test Type:Conventional Bottom Hole (Initial)Tester:Kevin MackUnit No:66 | | | | |
| Interval:3561.00 ft (KB) To36Total Depth:3609.00 ft (KB) (THole Diameter:7.88 inchesHol | 609.00 ft (KB) (TVD) ∀D) e Condition: Good | Reference Elevations: 2172.00 ft (KB) 2167.00 ft (CF) KB to GR/CF: 5.00 ft | | | | |
| Serial #: 8653 Outside Press@RunDepth: 302.68 psig Start Date: 2014.03.10 Start Time: 03:25:00 TEST COMMENT: 30 - IF- BoB in 1 30 - ISI- No Retu 30 - FF- BoB in 1 30 - FSI- No Retu 30 - FSI- No Retu | @ 3562.00 ft (KB) End Date: End Time: 2 min. 15 min. urn | Capacity: 8000.00 psig 2014.03.10 Last Calib.: 2014.03.10 09:56:00 Time On Btm: 2014.03.10 @ 05:37:00 Time Off Btm: 2014.03.10 @ 07:46:00 | | | | |
| Pressure vs. | lime | PRESSURE SUMMARY | | | | |
| 1729 | BCS Interportance | Time Pressure Temp (deg F) Annotation 0 1743.05 101.70 Initial Hydro-static 3 46.75 101.98 Open To Flow (1) 37 189.66 106.39 Shut-In(1) 66 1026.32 107.52 End Shut-In(1) 67 193.46 107.49 Open To Flow (2) 97 302.68 110.74 Shut-In(2) 126 1015.82 110.64 End Shut-In(2) 129 1741.10 109.50 Final Hydro-static | | | | |
| Recovery | | Gas Rates | | | | |
| Length (ft) Description | Volume (bbl) | Choke (inches) Pressure (psig) Gas Rate (Mcf/d) | | | | |
| 120.00 MW | 0.59 | | | | | |
| 63.00 OSMW 80W 20M (oil spo | nts) 0.88 | | | | | |
| 126.00 OSMW 50M 50W (oil spo | ots) 1.77 | | | | | |
| 189.00 WCOM 30o 20W 50M | 2.65 | | | | | |
| 33.00 WCOM 30o 10W 60M | 0.46 | | | | | |

| t | | | | | | | |
|--------------|----------------------|--|--------------------------------|--------------------------|---------------------------------------|---------------|--|
| 10D | | DRI | LL STEM TEST REPORT | Γ | I | FLUID SUMMARY | |
| | | Black Diamond Oil 27-5S-21W Norton, KS | | | | ; | |
| | ESTING , INC | PO Box 641 Kemper #2 | | | | | |
| | | Hays, | KS 67601 | Job Ticket: 56955 DST#:1 | | | |
| NO. | | ATTN: | Herb Deines | Test Start: 2 | 014.03.10 @ 03 | 3:24:00 | |
| Mud and Cu | ushion Information | | | | | | |
| Mud Type: G | el Chem | | Cushion Type: | | Oil API: | 23 deg API | |
| Mud Weight: | 9.00 lb/gal | | Cushion Length: | ft | Water Salinity: | 55000 ppm | |
| Viscosity: | 52.00 sec/at | | Cushion Volume: | bbl | · · · · · · · · · · · · · · · · · · · | | |
| Water Loss: | 6.80 in ³ | | Gas Cushion Type: | | | | |
| Resistivity: | 0.00 ohm.m | | Gas Cushion Pressure: | psia | | | |
| Salinity: | inity: 0.00 onn | | | | | | |
| Filter Cake: | 1.00 inches | | | | | | |
| Recovery In | nformation | | | | | | |
| | | | Recovery Table | | _ | | |
| | Leng | th | Description | Volume | | | |
| | | 120.00 | MW | 0.590 |) | | |
| | | 122.00 | OSMW 90W 10M (oil spots) | 1.684 | ŀ | | |
| | | 63.00 | OSMW 80W 20M (oil spots) | 0.884 | ŀ | | |
| | | 126.00 | OSMW 50M 50W (oil spots) | 1.767 | 7 | | |
| | | 189.00 | WCOM 30o 20W 50M | 2.651 | | | |
| | | 33.00 | WCOM 30o 10W 60M | 0.463 | 3 | | |
| | | 40.00 | Clean Oil | 0.561 | | | |
| | Total Length: | 693 | .00 ft Total Volume: 8.600 bbl | | _ | | |
| | Num Fluid Samp | oles: 0 | Num Gas Bombs: 0 | Serial # | rial #: | | |
| | Laboratory Nan | ne: | Laboratory Location: | | | | |
| | Recovery Com | ments: Oi | I API 24 @ 70 deg = 23 cor | | | | |
| | ····) | R | N .179 @ 54 deg = 55000ppm | | | | |
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Printed: 2014.03.10 @ 13:03:15

Ref. No: 56955

Trilobite Testing, Inc



Kemper #2

DST Test Number: 1

Outside Black Diamond Oil

GENERAL TERMS AND CONDITIONS

QUALITY CILWELL CEMELTING, INC. Federal Tax 1.D.# 20-2886107

| Phone 785-483-202 | 5 payment | He tuli cash | ome Office | P.O. Box 32 Ru | Box 32 Russell, KS 67665 No. 152 | | | | |
|---|--|--------------------------------------|---|---|--|---|----------------------|--|--|
| Cell 763-324-1041 | Sec. | Twp. | Range | County | State | On Location | Finish | | |
| Date 4-1-1-14 | ent per a | 18 pert | o etar a ta be | Norton | 155 | HEMOTEUS | 4:30 PM | | |
| skil box existsion a set of | bernesh | BIBT MUR | nixam ens grad trada de la artic | Location Logo | n W to El | 2 15 1W | 35 Eint | | |
| Lesse Kimper | e, eny an | ter toerlo | Vell No. # 2 | Owner | ed to lower the rate o | motes viscoltamotus etom | na vac la esiga | | |
| Contractor Cacalche | UAUD" 10 Frene lineto | molique e | REPT OF SUC | To Quality (| To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as list Charge Black Dimmond | | | | |
| Type lob Same 20 | Count Hard St | | A | cementer a | | | | | |
| Hole Size | ti to ennie Mi econo | T.D. | a lo enforce an | Charge To | | | | | |
| $\frac{1000020}{100000000000000000000000000000$ | <u> </u> | Depth | | Street | | | | | |
| The Size 2 /1 | 00.8.03 | Depth | ice shall sched | City | chandise listed in "OU | State | - PRICES | | |
| Tool Packer | perona eu | Depth | 3518 | The above w | vas done to satisfaction a | nd supervision of owner | agent or contractor. | | |
| Cement Left in Cso | all mailens in | Shoe Jo | pint | Cement An | nount Ordered 160 | St com | TOMER. | | |
| Meas Line | essary to | Displace | a 21 bb | 1 Usec | x 100 x | CHAMBEST CLOALLY International Address of Decement | DIVINOT | | |
| JACID va benamur i , xo | EQUIP | VENT | alique ed liw | Common | 100 | nt to get to or from th | putting equipme | | |
| Pumptrk 16 No. Cen | nenter B | the | O HEMOTEUR | Poz. Mix | US1 OMEH. a Job and/or metchara | ged to and paid by C Atton of Angles a | Nedo ed liw ,Y II | | |
| Bulktrk 13 No. Driv | er Cla | v ton | 3 yrd berwydd y 6 | Gel. | MER will pay QUALF | liver material, CUST | ical solution or d | | |
| Bulktrk PU No. Driv | er Br | o Fh | Standing Continued and TEUS vel have | Calcium | encies approximation approximation of the second seco | IUL, CHANGES: UNI | | | |
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| Bemarks: | n en junios. An ed lierh | s vaniati e s vaniate: | nn shail noi b amhandise. Ci | Salt | CRONE DEVOND ANORE | no and union the con | sormany uncert | | |
| Bat Hole | rilelo lie br | st any ar | riom and again | Flowseal | LITY, its officers, agen | AUD esetmised DUA | nity, detend, and | | |
| Mouse Hole | | oni nom | an unit uni trimu | Kol-Seal | | od sol u utersone olio | | | |
| Centralizers | an on the mount | | | Mud CLR 4 | 48 | en los los foresterist en e | owner; and: | | |
| Baskets | griana et | or damar lico in an | reservoir loss, | CFL-117 or | r CD110 CAF 38 | s, pollution, surface o | (B) Oli spil | | |
| D/V or Port Collar | yees. | 0.000 20 | 1 QUALITY of | Sand | willing mitsoonduct or | rit yd besuso ai egan | such loss or del | | |
| | | | | Handling | 160 | AUQ to your of Dec | en dativ s | | |
| and the to Rate | of 1 | Yhhl | vaia @ 60 | Olla Mileage | Source States | | ad boa REMOT | | |
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Conservation Division 266 N. Main St., Ste. 220 Wichita, KS 67202-1513



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Shari Feist Albrecht, Chair Jay Scott Emler, Commissioner Pat Apple, Commissioner Sam Brownback, Governor

November 04, 2014

Kenneth Vehige Black Diamond Oil, Inc. PO BOX 641 HAYS, KS 67601-0641

Re: ACO-1 API 15-137-20689-00-00 KEMPER 2 NW/4 Sec.27-05S-21W Norton County, Kansas

Dear Kenneth Vehige:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 03/06/2014 and the ACO-1 was received on November 03, 2014 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department