Confidentiality Requested: Yes No

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

1231620

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 #: |
| | Field Name: |
| | Producing Formation: |
| | Elevation: Ground: Kelly Bushing: |
| | Total Vertical Depth: Plug Back Total Depth: |
| CM (Cool Red Mathene) | Amount of Surface Pipe Set and Cemented at: Feet |
| \square Cathodic \square Other (Core Expl. etc.): | Multiple Stage Cementing Collar Used? Yes No |
| If Workover/Be-entry: Old Well Info as follows: | If ves, show depth set: |
| Operator: | If Alternate II completion, cement circulated from: |
| Well Name: | feet depth to:w/sx cmt. |
| Original Comp. Date: Original Total Depth: | |
| Deepening Be-perf Conv to ENHB Conv to SWD | Drilling Eluid Monogement Plan |
| Plug Back Conv. to GSW Conv. to Producer | (Data must be collected from the Reserve Pit) |
| | Chlorida content:ppmEluid volume:bbls |
| Commingled Permit #: | Devetaring method used |
| Dual Completion Permit #: | Dewatering metriod used. |
| SWD Permit #: | Location of fluid disposal if hauled offsite: |
| ENHR Permit #: | Operator Name: |
| GSW Permit #: | Lease Name: License #: |
| | |
| Spud Date or Date Reached TD Completion Date or Becompletion Date | County: Permit #: |
| | |

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 Two | |
|-------------------------|-------------|---|
| 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 Taker | 1 Shaata) | Yes No | L | og Formatic | on (Top), Depth and | d Datum | Sample |
|---------------------------------|------------------------------|------------------------------------|----------------------|------------------------------|---------------------|------------------|-------------------------------|
| Samples Sent to Geo | logical Survey | Yes No | Nam | e | | Тор | Datum |
| Cores Taken Electric Log Run | | Yes No | | | | | |
| List All E. Logs Run: | | | | | | | |
| | | | | | | | |
| | | CASING Report all strings set-c | RECORD Ne | w Used 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 Pe | ercent Additives | |
| Protect Casing Plug Back TD | | | | | | | |
| Plug Off Zone | | | | | | | |
| Did you perform a hydrau | ulic fracturing treatment of | on this well? | | Yes | No (If No, skip | questions 2 an | d 3) |
| Does the volume of the t | otal base fluid of the hyd | raulic fracturing treatment ex | ceed 350,000 gallons | Yes | No (If No, skip | question 3) | |
| Was the hydraulic fractur | ring treatment information | n submitted to the chemical o | disclosure registry? | Yes | No (If No, fill o | out Page Three o | of the ACO-1) |
| | DEDEODATI | | a Cat/Tura | Asid Fro | atura Chat Comanti | | |

| Shots Per Foot | | PERFORATION Specify For | TRECOF | RD - Bridge Plugs Se Each Interval Perforate | et/Typ ed | e | | Acid, Fracture, Shot, C (Amount and Kind | ement Squeeze Record | Depth |
|--------------------------------------|----------|----------------------------|---------|---|--------------|------------|----------|---|----------------------|---------|
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TUBING RECORD: | Siz | ze: | Set At: | F | Packer | r At: | Liner F | un: | No | |
| Date of First, Resumed | Product | ion, SWD or ENHF | ٦. | Producing Method: | Pump | ping | Gas Lift | Other (Explain) | | |
| Estimated Production Per 24 Hours | | Oil Bb | ls. | Gas Mcf | | Wate | er | Bbls. | Gas-Oil Ratio | Gravity |
| | | | | - | | | | | | |
| DISPOSITI | ON OF (| GAS: | | METH | HOD | | TION: | | PRODUCTION INTER | RVAL: |
| Vented Solo | I 🗌 I | Used on Lease | | Open Hole | erf. | UDually | Comp. | Commingled | | |
| (If vented, Su | bmit ACC | D-18.) | | Other (Specify) | | 1000011111 | | (300/////00 4) | | |

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

| Phone 785-483-2025 Cell 785-324-1041 | 5 | Ho | ome Office | P.O. B | lox 32 Rus | sell, KS 67665 | No |
|---|-------------------------------|--|--------------------------|----------|--------------------------------|--|--|
| | Sec. | Twp. | Range | | County | State | On Location |
| Date 6 - 15 - 14 | 31 | 15 | 13 | R | ussell | KS | |
| | <u> </u> | | | Locat | ion Russe | 11 + Barton | CO Line 2 |
| Lease Bernaro | $\left(\right)$ | M | Iell No. 3 - | 31 | Owner | | |
| Contractor Val #6 | | an a fa sta | | | To Quality Oi | ilwell Cementing, Inc. | cementing equipmer |
| Type Job Surfac | e | n de la composition de la comp | | | cementer and | d helper to assist own | er or contractor to d |
| Hole Size 12 14 | 3 ² 3 ² | T.D. | 178' | s: , i i | Charge Va | ale Oil | e |
| Csg. 8 5/8 | | Depth L | 178' | | Street | | |
| Tbg. Size | | Depth | 2.138 April | t sest | City | | State |
| Tool | 11.00 | Depth | | 10 | The above wa | s done to satisfaction an | d supervision of owne |
| Cement Left in Csg. 4 | 0' | Shoe Joi | int 40' | | Cement Amo | ount Ordered 25 | 0 com 3% |
| Meas Line | | Displace | 28 66 | 1 | | | |
| | EQUIPN | IENT | | | Common 2 | 50 | - Y - 60 |
| Pumptrk 16 No. Ceme Helpe | r Br | -eff | | | Poz. Mix | | |
| Bulktrk / No. Driver | Long | e M | | | Gel. 5 | 1 | <u></u> |
| Bulktrk No. Driver | | | | | Calcium 8 | | |
| JOB SE | RVICES | & REMAR | KS | ad, ag | Hulls | All baretter | |
| Remarks: | | | | | Salt | | - te ≜i sus essau |
| Rat Hole | : | - 1382 | | | Flowseal | | |
| Mouse Hole | | | | | Kol-Seal | | |
| Centralizers | | | | | Mud CLR 48 | a na Calmana na Ingla Panganana na Tagawa Mandara na Calmana | |
| Baskets | | | | | CFL-117 or C | D110 CAF 38 | the set of the set |
| D/V or Port Collar | | etter and a second | . lan | | Sand | | bar degaine a suit Suite de la companya |
| | | | | | Handling 2 | 33 | |
| | | | <u></u> | | Mileage | | |
| a financia a secondaria | | | ala se a 🖓 | | 8514 | FLOAT EQUIPME | NT |
| | | | | - | Guide Shoe | | |
| | | | | | Centralizer | | e de la compania |
| | | • | | ~ | Baskets | | |
| | 15 2 | patting . | in en en | 100 | AFU Inserts | Vala a | |
| C | 1.0 | | | | Float Shoe | 811 N. | |
| Cemer | , F | | | | Latch Down | | |
| | ġ. | | | uða u T | Wood | Plug-1 | |
| ſ | | 1000 | 11 | | | | |
| Cir | cut | at ec | | | Pumptrk Cha | rge Surface | |
| ing a second second | | a a finite | alter and a | 9-15 | Mileage 17 | | |
| n fillen and geologie ing | in Malan | | 11 ²¹² a 18 E | 1 I I | negtra energia | Second Street | Tax |
| M. MA. | - 0 | | 1 | 7 | ndo na presenta Na presenta | | Discount |
| X VIVC | VIC | | Ala- | 15-14 | N | | Total Charge |

QUALITY CLWELL CEMENTING, IN Federal Tax I.D.# 20-2886107 No. Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 Cell 785-324-1041 On Location State Sec Twp. Range County Date Location (Non Well No Owner Lease To Quality Oilwell Cementing, Inc. n Contractor You are hereby requested to rent cementing equipment cementer and helper to assist owner or contractor to do THIG Type Job Charge To T.D Hole Size Depth Csq Street Depth State Tbg. Size City The above was done to satisfaction and supervision of owner Depth Tool Cement Amount Ordered 60 Cement Left in Cso Shoe Joint 5 Displace Meas Line EQUIPMENT Common Cementer No. Poz. Mix Pumptrk Helper Driver No. Gel. Bulktrk Driver Driver No. Calcium Bulktrk Driver **JOB SERVICES & REMARKS** Hulls Salt Remarks Rat Hole Flowseal Kol-Seal Mouse Hole Mud CLR 48 Centralizers CFL-117 or CD110 CAF 38 Baskets D/V or Port Collar Sand Handling Mileage FLOAT EQUIPMENT Guide Shoe Centralizer Baskets **AFU Inserts** Float Shoe Latch Down 90 Pumptrk Charge Drod STIL Mileage Tax Discount X Signature **Total Charge** MI-JA-IK

Image Header 01



Geologist's Report

Company: Yale Oil Association, IncLease: Bernard #3-31Field: TrappSurface Location: N2-SE (1980' FSL & 1320' FEL)Sec: 31Twp: 15SRge: 13WCounty: RussellState: KansasGL: 1915'KB: 1925'

 Contractor: Val Energy Rig #6

 Spud: 6/14/14
 Comp: 6/19/14

 RTD: 3329
 LTD: 3328

 Mud Up: +/- 2600'
 Mud Type: Chemical Displaced

Drilling Time Kept From: <u>2700' to RTD</u> Samples Saved From: <u>2700' to RTD</u> Samples Examined: <u>2700' to RTD</u> Geoloigcal Supervision: <u>2920' to RTD</u> Geologist on Well: <u>Kurt Talbott</u>

Surface Casing: <u>8 5/8"@ '</u> Production Casing: <u>5 1/2" @</u>

Wireline Logs: <u>By Pioneer: CNL/CDL, DIL, MEL</u>

| | | Well C | omparison 25 | | | |
|-------------|----------|-------------|--------------|---------|------|---------|
| | YALE OIL | ASSOCIATION | | | | |
| | BERN | IARD 3-31 | BERN | NARD #1 | RJM | PROSSER |
| | 19 | 25 KB | 19 | 11 KB | 19 | 909 KB |
| FORMATION | Log | Log SS | Log | SS | MD | SS |
| ANHYDRITE | 890 | 1035 | 875 | 1036 | | |
| BASE ANHY | 920 | 1005 | 906 | 1005 | | |
| TOPEKA | 2800 | -875 | 2780 | -869 | 2779 | -870 |
| HEEBNER | 3029 | -1104 | 3010 | -1099 | 3009 | -1100 |
| TORONTO | 3046 | -1135 | 3026 | -1115 | 3026 | -1117 |
| BROWN LIME | 3100 | -1175 | 3080 | -1169 | 3079 | -1170 |
| LANSING | 3112 | -1187 | 3093 | -1182 | 3093 | -1184 |
| TOTAL DEPTH | 3328 | -1403 | 3307 | -1396 | 3325 | -1416 |







Toronto 3050.0 (-1125.0) -1121.0

Total Gas (units)

C2 (units)

C3 (units) C4 (units) 100

100

100 100

Ls-wht/crm, fxln, poorly developed por, chalky,



Douglas 3060.0 (-1135.0) -1135.0

Shale-gry/greenish, soft, silty, few mica

A/A

Brown Lime 3100.0 (-1175.0) - 1175.0

Ls-tan/buff, fxln, dense, few fossils, poor vis por, cherty in part

Lansing 3115.0 (-1190.0) -1187.0

Ls-wht/lt gry, flxn, ool, poor scattered iner xIn to iner ool por, slightly chalky

Ls-crm/wht, ool, fair oom por, scattered light to golden brown stains, Trace weak SFO, faint odor, slightly chalky

Ls-crm/tan/wht, fxln, ool, scattered fair oom por, trace golden to dark brown stains, TrSFO, faint odor, slightly chalky

Ls-crm/lt gry, fxln, dense, cherty in part, slightly ool, poor vis por, chert-boney wht/lt gry

Ls-crm/tan/wht, fine to few med xln, slightly sucrosic, poor iner xln to fair oom por, light to golden brown scattered stains, Trace Weak SFO, faint odor, slightly chalky

Ls-tan/crm, fxln, dense, fossils, poor vis por, cherty in part,

Ls-crm/tan, fxln, ool, fair oom por, scattered golden brown stains, Scattered SFO, faint odor, slightly chalky

Ls-wht/lt gry, fxln, ool few fossils, poor scattered oom por, slightly chalky Shalegry/blk abundant

Ls-wht/lt gry, fxln, dense, few fossils/ool, poor vis por, cherty in part, slightly chalky Shale-gry/grn abundant

Ls- A/A

Ls-lt gry/wht/tan, fxln, ool, few fossils, poor vis por, slightly chalky, cherty in part,

Ls-wht/lt gry, flxn, few fossils/ool, poor scattered iner xln por, trace stains, Trace Weake SFO, faint odor, slightly chalky





| Pioneer Energy Se Pioneer Energy Se Pioneer Energy Se API No. Company 0 | Prvices Prv | Dual Compe Porosity Sociation, Inc. -31 320' FEL 320' FEL Selevation 1915 Ft. Above Perm. Datum | Insated Log Other Services DIL/MEL Elevation K.B. 1925 G.L. 1915 | nces from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or sulting from any interpretation made by any of our officers, agents or employees. These interpretations are also to our general terms and conditions set out in our current Price Schedule. |
|---|--|--|--|---|
| Jermanent Datum | Twp: 158 Ground Level | State Kal 320' FEL Rge: 13W Elevation 1915 | Other Services DIL/MEL Elevation | ents and we cannot and on our part, be liable o any of our officers, age out in our current Price |
| Permanent Datum | Ground Level Kelly Bushing 10 Kelly Bushing | Elevation 1915 Ft. Above Perm. Datum | Liovanon D.F. G.L. 1915 | easurements egligence on made by any itions set out nments |
| Date Run Number | 06/18/2014 One | | | her mea illful neg ation m conditio Com |
| Type Log Depth Driller | CNL / CDL 3329 | | | or oth or wil preta |
| Depth Logger | 3328 | | | ical o oss inter rms |
| Bottom Logged Interval | 3307 | | | lectri of gr any ral te |
| Top Logged Interval | 2600 | | | m el ase c rom a enera |
| Salinity. PPM CL | Cnemical 3100 | | | s froi ne ca ng fr ur ge |
| Density | 9.1 | | | nce in th sulti to o |
| Level | Full | | | fere ept e re: ect |
| Max. Rec. Temp. F | 111 | | | n inf exc one ubj |
| Operating Rig Time | 4 Hours | | | d or ot, e any s |
| Equipment Location | 91 Hay | /s | | asec all n by a |
| Recorded By | M. Beoughe | D. Schmidt | | s ba sha ned |
| Witnessed By | Kurt Talbott | | | iions we stain |
| Borehole Rt | ecord | Casing Rec | ord | opin and sus |
| un No. Bit From | To | Size Wgt. From | To | re o n, a l or : |
| One 12.25 00 | 478 | 8.625 23# 00 | 478 | s ar atior red |
| Two 7.875 478 | TD | | | tions preta |
| | | | | rpreta inter ises in |
| | | | | l inter any expen |
| | | | | Al |

Database File:yaDataset Pathname:dilPresentation Format:cdDataset Creation:WaCharted by:Dataset

yale_bernard_3-31hd.db dil/yastack cdl Wed Jun 18 15:24:06 2014 Depth in Feet scaled 1:600

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| PIONEE | | Dual Inducti | on Log | y or correctness of s, damages, or retations are also | |
|--|--|---|----------------------------------|--|--|
| Pioneer Energy Serv | vices | | | accura oss, cos se interp | |
| API No. | | | | ee the any I . The | |
| Well | Bernard #3 | -31 | | guaran sible fo pployee e. | |
| Field | Trapp | | | lo not respoi s or er chedu | |
| 23979 County | Russell | State K | ansas | and c ole or r agents rice S | |
| 15-167- Location | 1980' FSL & 1 | 320' FEL | Other Services CNL/CDL MEL | d we canno part, be lial ur officers, ur current P | |
| Sec: 31 | Twp: 15 | 3 Rge: 13W | Elevation | ts an y of t in g-T 8 Rd ss, | |
| Permanent Datum G Log Measured From Ke Drilling Measured From Ke | round Level elly Bushing 10 elly Bushing | Elevation 1915 Ft. Above Perm. Datum | K.B. 1925 D.F. G.L. 1915 | asurement gligence or ade by any ons set out <u>ments</u> ng Log 25-3856 sell, 230th F /4 miles n Into | |
| Date | 06/18/2014 | | | mean neg n m om dition om om) 62 Rus to 2 1 ortl | |
| Depth Driller | 3329 | | | for for for for for for for for for for | |
| Depth Logger | 3328 | | | or c or v erpresan OU (7 Sol | |
| Bottom Logged Interval | 3327 | | | rical ross rinte erms | |
| Casing Driller | 8.625 @ 47 | 8 | | elec e of (n an eral ⁻ | |
| Casing Logger | 477 | | | rom case fror gen Th | |
| Bit Size Tyne Fluid in Hole | Chemical | | | ces f i the ilting our | |
| Salinity,ppm CL | 3100 | | | eren ept ir resu ct tc | |
| Density / Viscosity | 9.1 6 | | | n infe exce one ubje | |
| Source of Sample | Flowline | | | ed o not, y any | |
| Rm @ Meas. Temp | 0.76 @ 8 | | | bas hall ed by | |
| Rmf @ Meas. Temp | 0.57 @ 8 | | | ons ve s aine | |
| Rmc @ Meas. Lemp | 1.03 @ 8 | | | pinio nd v sust | |
| Rm @ BHT | 0.60 @ 11 | <u> </u> | | are o on, a d or | |
| Operating Rig Time | 4 Hours | | | ns a etatio | |
| Max Rec. Temp. F | 111 | | | tatio erpre | |
| Location | Hays | | | erpre y inte nses | |
| Recorded By | M. Beoughe | r D. Schmidt | | l inte an expe | |
| Witnessed By | Kurt Talbot | | | All | |

Database File: Dataset Pathname: Presentation Format: Dataset Creation: Charted by:

yale_bernard_3-31hd.db dil/yastack dil2in Wed Jun 18 15:24:06 2014 Depth in Feet scaled 1:600

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| 0.2 | Ondilow recoluting | 2000 |
|-------|--------------------|------|
| 10000 | Line Tension | 0 |
| | | LSPD |
| | | |

| | | | | ss of r Iso | |
|---|--|---|----------------------------------|---|--|
| PIONEE | | Microresis Log | stivity | cy or correctne sts, damages, o pretations are a | |
| Pioneer Energy Servic | es | | | e accura loss, co se inter | |
| API No. | | | | e the any I . The | |
| 00 Well | Bernard #3 | 31 | | guaranta nsible for nployees le. | |
| 9-00- Field | Trapp | | | do not respo s or er chedu | |
| County | Russell | State K | ansas | t and c ble or agents rice S | |
| 15-167- Location | 1980' FSL & 1: | 320' FEL | Other Services CNL/CDL DIL | we canno part, be liai ur officers, ir current F | |
| Sec: 31 | Twp: 155 | Rge: 13W | Elevation | J-Te 8 Rd, s, | |
| Permanent Datum Grou Log Measured From Kelly Drilling Measured From Kelly | und Level / Bushing 10 / Bushing | Elevation 1915 Ft. Above Perm. Datum | K.B. 1925 D.F. G.L. 1915 | ng Log 25-385 sell, 230th F /4 mile | |
| Date | 06/18/2014 | | | usi ausi 2 1 2 1 2 1 | |
| Run Number Depth Driller | Two 3329 | | | for u 785) Ruth 1 ast 2 | |
| Depth Logger | 3328 | | | or of sor | |
| Bottom Logged Interval | 2600 | | | ktrica y into term | |
| Casing Driller | 8.625 @ 47; | | | elec e of n ar eral | |
| Casing Logger | 477 | | | rom case fror gen | |
| <u> Tyne Fluid in Hole</u> | Chemical | | | ces f i the ilting our | |
| Salinity,ppm CL | 3100 | | | eren ept in resu cct tc | |
| Density / Viscosity | 9.1 60 | | | inf€ exce one ubje | |
| pH / Fluid Loss | 10.5 7.6 | | | d on not, e anyo sເ | |
| Rm @ Meas. Temp | 0.76 @ 88 | | | oase nall∣ d by | |
| Rmf @ Meas. Temp | 0.57 @ 88 | | | ons t /e sł iine/ | |
| Rmc @ Meas. Temp | 1.03 @ 88 | | | binic nd w usta | |
| Rm @ BHT | 0.60 @ 11 | | | >> on, au l or s | |
| Operating Rig Time | 4 Hours | | | re >> tatio | |
| Max Rec. Temp. F | 111 | | | I Hei | |
| Equipment Number | Havs | | | Fold rpre / inte | |
| Recorded By | M. Beougher | D. Schmidt | | <<< inte any xpei | |
| Witnessed By | Kurt Talbott | | | All | |

Database File:yaleDataset Pathname:dil/yPresentation Format:micrDataset Creation:WeatCharted by:Dep

yale_bernard_3-31hd.db dil/yastack micro Wed Jun 18 15:24:06 2014 Depth in Feet scaled 1:240

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