KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1266187

Form ACO-1 November 2016 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.: | |
|----------------------------------|-----------------|-----------------------|--|--------------------------------------|
| Name: | | | Spot Description: | |
| Address 1: | | | Sec | _TwpS. R East _ West |
| Address 2: | | | Feet from the second sec | om 🗌 North / 🗌 South Line of Section |
| City: S | State: Z | Zip:+ | Feet from the set from th | om 📃 East / 🗌 West Line of Section |
| Contact Person: | | | Footages Calculated from Near | est Outside Section Corner: |
| Phone: () | | | | SE SW |
| CONTRACTOR: License # | | | GPS Location: Lat: | , Long: |
| Name: | | | (e.g. x) | (e.gxxx.xxxx) |
| Wellsite Geologist: | | | Datum: NAD27 NAE | |
| Purchaser: | | | County: | |
| Designate Type of Completion: | | | Lease Name: | Well #: |
| | e-Entry | Workover | Field Name: | |
| | _ | | Producing Formation: | |
| | SWD | | Elevation: Ground: | Kelly Bushing: |
| Gas DH | | | Total Vertical Depth: | Plug Back Total Depth: |
| OG | GSW | | | d Cemented at: Feet |
| CM (Coal Bed Methane) | re Expl. etc.). | | Multiple Stage Cementing Colla | |
| If Workover/Re-entry: Old Well I | | | | Feet |
| Operator: | | | | nt circulated from: |
| Well Name: | | | | w/ sx cmt. |
| Original Comp. Date: | | | | W 0X 0//// |
| Deepening Re-perf | | | | |
| Plug Back | | GSW Conv. to Producer | Drilling Fluid Management Pla (Data must be collected from the Re | |
| | | | Chlorido contenti | |
| Commingled | Permit #: | | | ppm Fluid volume: bbls |
| Dual Completion | Permit #: | | Dewatering method used: | |
| SWD | Permit #: | | Location of fluid disposal if haul | ed offsite: |
| EOR | Permit #: | | Operator Name | |
| GSW | Permit #: | | Lease Name: | |
| | | | | wpS. R East West |
| • | eached TD | Completion Date or | | |
| Recompletion Date | | Recompletion 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 Drill Stem Tests Received | | | | |
| Geologist Report / Mud Logs Received | | | | |
| UIC Distribution | | | | |
| ALT I II III Approved by: Date: | | | | |

| | Page Two | |
|--|---------------------------------|---|
| | i ugo mo | 1266187 |
| Operator Name: | Lease Name: | Well #: |
| Sec TwpS. R East West | County: | |
| INSTRUCTIONS: Show important tops of formations penetrated. De | tail all cores Benort all final | conjes of drill stems tests giving interval tested, time tool |

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 tional Sheets) | [| Yes No | [| Log | Formatic | on (Top), Dep | th and Datum | Sample |
|--|-------------------------|---------------------|---|----------------------|------------|------------------------|--------------------------|--|-------------------------------|
| Samples Sent to | Geological Surv | /ey | Yes No | | Name | | | Тор | Datum |
| Cores Taken Electric Log Run Geolgist Report | / Mud Logs | - [[| Yes No Yes No Yes No | | | | | | |
| LIST AIL L. LUGS I | | | | | | | | | |
| | | | CASINC Report all strings set | G RECORD | New [| Used iate, producti | on, etc. | | |
| Purpose of St | | Hole illed | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | | Setting Depth | Type of Cemen | | Type and Percent Additives |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | ADDITIONA | L CEMENTING / | SQUEEZ | E RECORD | | | |
| Purpose: Perforate | | epth Bottom | Type of Cement | # Sacks Use | d | | Туре | and Percent Additives | |
| Protect Ca Plug Back Plug Off Z | TD | | | | | | | | |
| | e of the total base | fluid of the hydrau | this well? Ilic fracturing treatme ubmitted to the chem | | - | Yes Yes Yes | No (If N | lo, skip questions 2 ar lo, skip question 3) lo, fill out Page Three | |
| Date of first Produ Injection: | iction/Injection or R | esumed Production | on/ Producing Me | thod: | Gas I | _ift C |)ther <i>(Explain)</i> . | | |
| Estimated Produc Per 24 Hours | | Oil Bbls. | Gas | Mcf | Water | BI | ols. | Gas-Oil Ratio | Gravity |
| DISPO | OSITION OF GAS: | | | METHOD OF COI | MPLETION | l: | | PRODUCTIO | ON INTERVAL: |
| Vented (If vented | Sold Used | l on Lease | Open Hole | | Dually Com | | nmingled mit ACO-4) | Тор | Bottom |
| Shots Per | Perforation | Perforation | Bridge Plug | Bridge Plug | | Acid | Fracture She | t Compating Squappo | Booord |
| Foot | Тор | Bottom | Туре | Set At | | Aciù, | (Amount and | t, Cementing Squeeze d Kind of Material Used) | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Packer At:

TUBING RECORD:

Size:

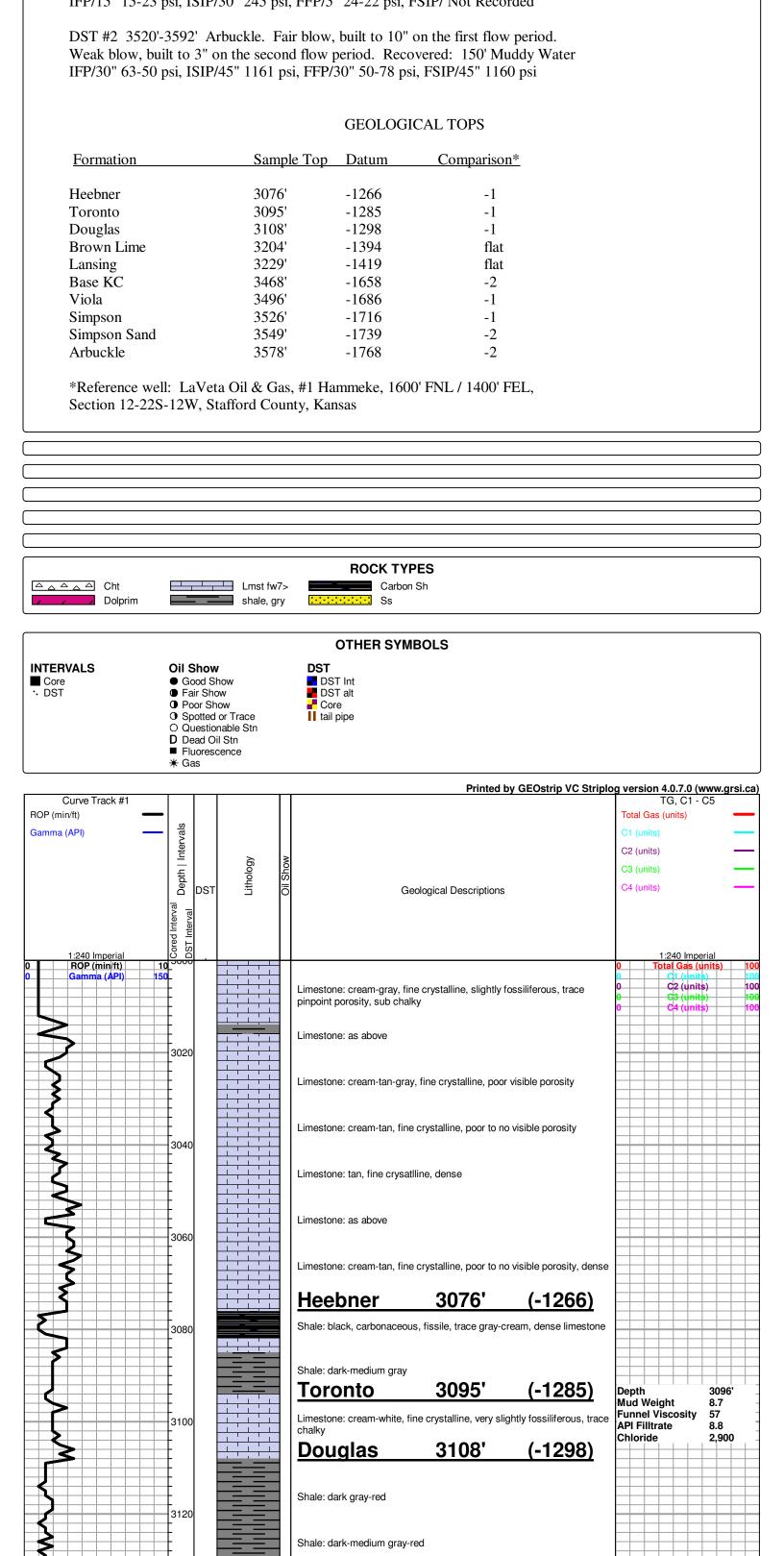
Set At:

| Form | ACO1 - Well Completion |
|-----------|------------------------|
| Operator | La Veta Oil & Gas, LLC |
| Well Name | Hammeke 3 |
| Doc ID | 1266187 |

Casing

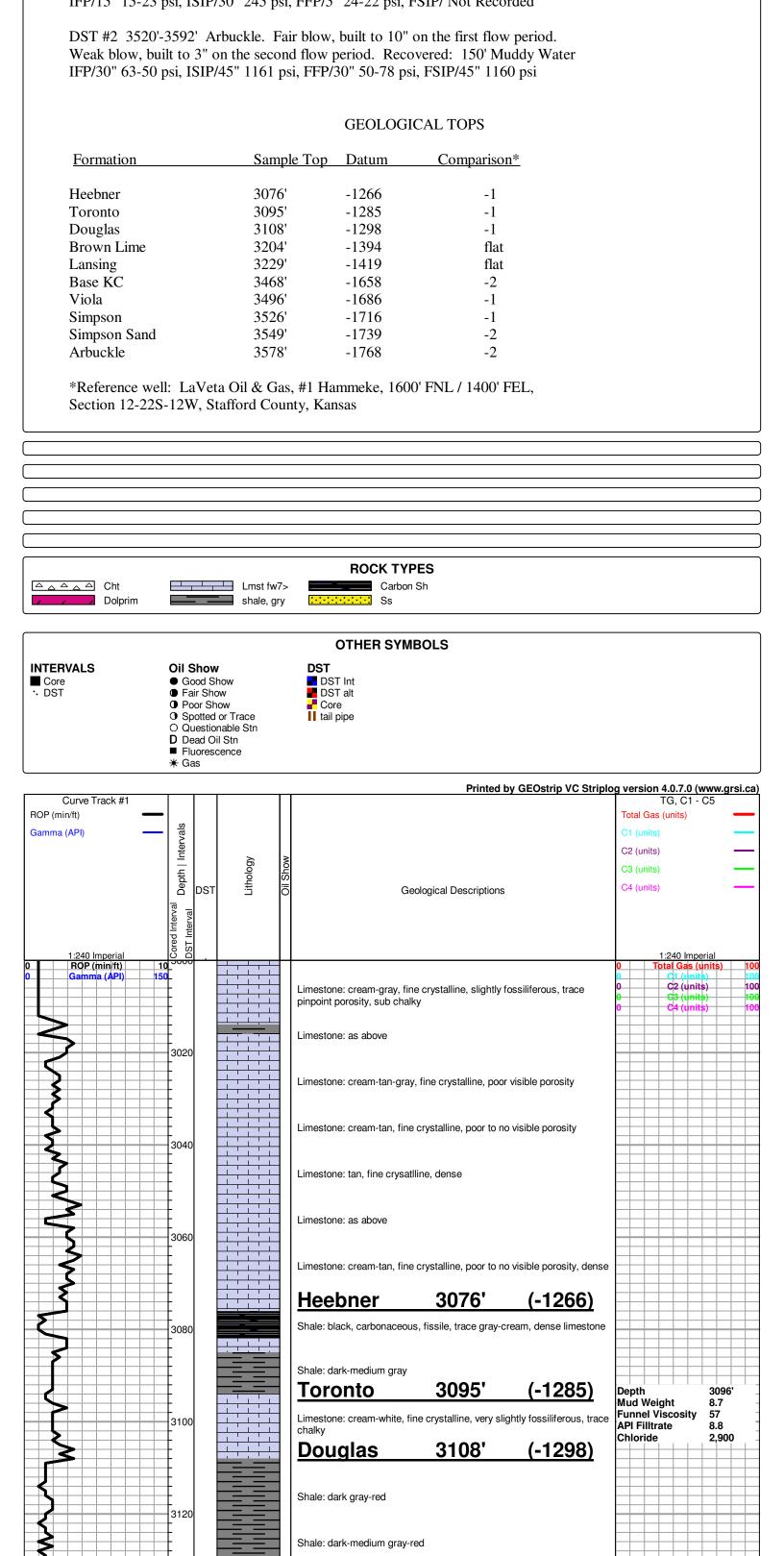
| Purpose Of String | Size Hole Drilled | Size Casing Set | Weight | Setting Depth | Type Of Cement | | Type and Percent Additives |
|----------------------|----------------------|-----------------------|--------|------------------|-------------------|-----|----------------------------------|
| Surface | 12.25 | 8.625 | 24 | 269 | class a 3% | 300 | 3% |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | | | RATOR | | |
|--|-----------------------------|------------------|---------------------|----------------|---------------------|
| Company: Address: | La Veta Oil . PO Box 780 | - | | | |
| | Middleburg, | | 8-0780 | | |
| Contact Geologist: | | | | | |
| Contact Phone Nbr: Well Name: | #3 Hammek | e | | | |
| Location: Pool: | Section 12-2 | 22S-12W | | API: Field: | 15-185-23945 Max |
| State: | Kansas | | | untry: | USA |
| | S | cale 1:24 | 40 Imperial | | |
| Well Name: | #3 Hammek | | io importar | | |
| Surface Location: Bottom Location: | Section 12-2 | | 1 | | |
| API: | 15-185-2394 | 45 | | | |
| License Number: Spud Date: | 9/25/2015 | | | Time: | 8:15 AM |
| Region: Drilling Completed: | Stafford 9/30/2015 | | | Time: | 2:00 PM |
| Surface Coordinates: Bottom Hole Coordinates: | 1945' FNL & | 1775' F | | | |
| Ground Elevation: | 1800.00ft | | | | |
| K.B. Elevation: Logged Interval: | 1810.00ft 3000.00ft | | | To: | 3592.00ft |
| Total Depth: Formation: | 3592.00ft | | | | |
| Drilling Fluid Type: | Chemical (N | ludCo) | | | |
| | SURF | ACE CO | D-ORDINATES | | |
| Well Type: Longitude: | Vertical | | l ai | itude: | |
| N/S Co-ord: | 1945' FNL | | La | | |
| E/W Co-ord: | 1775' FEL | | | |) |
| | | LOGG | ED BY | | |
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| | ILII | | | | |
| | ENERG | Y SP | ERVICE, LL | 6 | |
| Company: | TerraTech E | | | | |
| Address: | 1632 S. We Wichita, KS | st St. Su | | | |
| | | | | | |
| Phone Nbr: Logged By: | 316-617-395 Geologist | 59 | ٦ | lame: | Bruce Reed |
| | | CONTE | ACTOR | |) |
| Contractor: | Maverick Dr | | | | |
| Rig #: Rig Type: | 106 mud rotary | | | | |
| Spud Date: TD Date: | 9/25/2015 9/30/2015 | | | Time: Time: | 8:15 AM 2:00 PM |
| Rig Release: | 10/1/2015 | | | Time: | 11:00 AM |
| | | ELEVA | TIONS | | |
| K.B. Elevation: K.B. to Ground: | 1810.00ft 10.00ft | | Ground Elev | ation: | 1800.00ft |
| | | | | | |
| Surface Casing: | 8-5/8" at 269' | NO | TES | | |
| - | None | | | | |
| | | | | | |
| |)9/25/15)9/26/15 | SPUD 785' | @ 8:15 AM | | |
| (|)9/27/15 | 783 2070' | | | |
| |)9/28/15 | 3050' 3355' | | | |
| |)9/29/15)9/30/15 | 3355' 3440'] | RTD @ 2:00 PM | | |
| | 10/01/15 | | Rig released @ 11 | :00 AN | M |
| | | | | | |
| | | DRILL | STEM TESTS | | |
| DST #1 3350'-3370' L/KC "H | I". Weak blov | w that d | ied in 5 minutes of | n the in | itial flow period. |
| No blow on the second flow pe | eriod, pulled to | ool. Re | covered: 25' Drill | ing Mu | - |
| IFP/15" 15-23 psi, ISIP/30" 24 | 5 ps1, FFP/5" | 24-22 p | osi, f51P/ Not Rec | orded | |



| | | | Geologist on site 3132' |
|--|--|--|---|
| 314 | | Shale: gray, soft | |
| } | | Shale: gray-some red, soft, very slightly silty | |
| <u> </u> | | | |
| | | Shale: as above | |
| 316 | | | |
| } | | Shale: as above | |
| | | Shale: gray-green-brown-red, samples wash dirty | |
| 318 | • | | |
| | | Shale: gray-brown-red, samples wash dirty | |
| \$ | | | |
| 0 POP (min/ft) 10 ³²⁰ | | Shale: gray-brown, samples wash dirty | |
| 0 ROP (min/ft) 10 320 0 Gamma (API) 150 | | Brown Lime 3204' (-1394) Limestone: brown-tan, microcrystalline, dense | 0 Total Gas (units) 100 0 C1 (units) 100 0 C2 (units) 100 |
| E | | Linestone. Drown-tan, microcrystainne, dense | 0 C3 (units) 100 0 C4 (units) 100 |
| | | Shale: gray-green-some black, very slightly silty | |
| 322 | | Shale: gray, soft | |
| $\boldsymbol{\mathcal{L}}$ | | Lansing 3229' (-1419) | |
| | | Limestone: cream-gray, fine crystalline, poor to no visible porosity, sub | |
| 324 | | chalky, no shows | |
| <pre></pre> | | Limestone: cream-light gray, some tan pieces, fine crystalline, poor to no visible porosity, sub chalky, no shows | |
| $\boldsymbol{\zeta}$ | | no visible porosity, sub chalky, no snows | |
| 326 | | Limestone: cream-white, some gray pieces, fine crystalline to very slightly fissile, poor visible porosity, chalky | |
| | | Limestone: as above | |
| | | | |
| | | Circulated at 3276' Limestone: cream-white, fine crystalline, poor visible porosity, trace fossiliferous pieces with poor inter-fossiliferous porosity, | |
| 328 | | sub shaley, very faint odor, no show free oil | |
| | | Limestone: cream-gray, fine to slightly medium crystalline, poor to no visible porosity, looks tite, trace chalky, no shows | |
| | | Shale: dark-medium gray | |
| 330 | | Circulated at 3306' Limestone: cream-light tan, fine crystalline to slightly | |
| | 0 + + + + + + + + + + + + + + + + + + + | fossiliferous, rare scattered vugular porosity, fair odor, few pieces show free oil and gas bubble | |
| | | | |
| 332 | | Limestone: light tan-cream-white, mostly fine crystalline, trace medium crystalline, poor visible porosity, chalky, no shows | |
| 3 | | Limestone: as above, slightly more fossiliferous and chalky | |
| | | | |
| 334 | | Limestone: more cream-white, fine crystalline, poor to no visible porosity, dense, chalky | |
| | | Paralan and a state of the state | |
| 3 | | Limestone: as above, no shows | |
| <u> </u> | | Limestone: light-medium tan-cream, fine crystalline, poor visible | |
| 336 | | porosity, sub chalky, no shows | Depth 3370' |
| | | | Mud Weight 9.2 |
| | | Circulated at 3370' Limestone: tan, fine crystalline, oolicastic, poor to fair intercolicastic porosity, fair odor, show free oil and gas hubble, 60" | Funnel Viscosity 45 API Filltrate 9.2 |
| | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas | Funnel Viscosity 45 API Filltrate 9.2 Chloride 4,900 |
| 338 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair | API Filltrate 9.2 |
| 338 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas | API Filltrate 9.2 |
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| 0 ROP (min/ft) 10 340 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, | API Filltrate 9.2 Chloride 4,900 |
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| 0 ROP (min/ft) 10 340 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few | API Filltrate 9.2 Chloride 4,900 Image: state |
| 0 ROP (min/ft) 10 340 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil | API Filltrate 9.2 Chloride 4,900 Image: state |
| 0 ROP (min/ft) 10 Gamma (API) 150 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, dense, sub chalky | API Filltrate 9.2 Chloride 4,900 Image: state |
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| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, colicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, dense, sub chalky Limestone: more cream-gray, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-tan-gray, fine crystalline, no visible porosity, dense Limestone: as above, trace fossiliferous piece, sub chalky, no shows Limestone: cream-light tan, fine crystalline, trace fossiliferous, tite, very faint odor, few pieces slight show free oil Shaley limestone: cream-gray, dense Base KC 3468' (-1658) | API Filltrate 9.2 Chloride 4,900 April Filltrate 9.2 Chloride 4,900 April Filltrate 9.2 Chloride 4,900 April Filltrate 9.2 Chloride 4,900 Chloride |
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| 0 ROP (min/ft) 10 340 342 342 342 344 344 344 344 344 | | fair intercolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, colicastic pieces, poor to fair intercolicastic porosity, faint to fair odor with show free oil and gas bubble. Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorty developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-light tan, fine crystalline, no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-light tan, fine crystalline, trace fossiliferous, tite, very faint odor, few pieces slight show free oil Shaley limestone: cream-gray, dense Base KC 3468' (-1658) Limestone: cream-tan-gray, white, fine crystalline, slightly fossiliferous, appears tite and chalky, odor, no show free oil Shale: gray-green-black-red, samples wash slightly red Limestone: cream-tan-gray-white, fine crystalline, slightly fossiliferous, agas bubble when broke, sample wash slightly red Chert: white-tan, fresh, opaque to semi-translucent, sharp and blocky, very rare piece tripolitic with spong texture, no odor, scum of oil and gas bubble when broke, sample wash slightly red Shale: pale green-turquiose-blue | API Filltrate 9.2 Chloride 4,900 April Chloride 9,2 |
| 0 0 ROP (min/ft) 10 340 342 342 344 344 344 344 344 344 | | fair intercolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, olicastic pieces, poor to fair intercolicastic porosity, faint to fair odor with show free oil and gas bubble. Limestone: cream-white-light gray, fine crystalline, rare colitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, dense, sub chalky Limestone: more cream-gray, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-tan-gray, fine crystalline, no visible porosity, dense Limestone: cream-light tan, fine crystalline, no visible porosity, dense Limestone: cream-light tan, fine crystalline, trace fossiliferous, tite, very faint dor, few pieces slight show free oil Shaley limestone: cream-gray, dense Base KC 3468' (-16588) Limestone: cream-light tan, fine crystalline, slightly fossiliferous, appears tite and chalky, odor, no show free oil Shaley gray-green-black-red, samples wash slightly ressiliferous, appears tite and chalky, odor, no show free oil Shale: gray-green-black-red, samples wash slightly ressiliferous, agas bubble when broke, sample wash slightly red Circulated at 3510' Chert: off white-white-tan, fresh, sharp and blocky, eyr rare pice tripolitic with sponge texture, no odor, scum of oil and gas bubble when broke, sample wash slightly red Chert: white-tan, fresh, opaque to semi-translucent, sharp and blocky, eys as pice tripolite with sponge texture, no odor, scum of oil and gas bubble when broke, sample wash slightly red Shale: pale green-turquiose-blue Shale: as above, brittle Simestone Sand 3549' (-1739). | API Filltrate 9.2 Chloride 4,900 April Chloride 9,2 |
| 0. ROP (min/ft) 10 340 Gamma (API) 150 342 344 344 344 344 344 344 344 344 344 | | fair intercolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, colicastic pieces, poor to fair intercolicastic porosity, faint to fair odor with show free oil and gas bubble. Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorty developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-light tan, fine crystalline, no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-light tan, fine crystalline, trace fossiliferous, tite, very faint odor, few pieces slight show free oil Shaley limestone: cream-gray, dense Base KC 3468' (-1658) Limestone: cream-tan-gray, white, fine crystalline, slightly fossiliferous, appears tite and chalky, odor, no show free oil Shale: gray-green-black-red, samples wash slightly red Limestone: cream-tan-gray-white, fine crystalline, slightly fossiliferous, agas bubble when broke, sample wash slightly red Chert: white-tan, fresh, opaque to semi-translucent, sharp and blocky, very rare piece tripolitic with spong texture, no odor, scum of oil and gas bubble when broke, sample wash slightly red Shale: pale green-turquiose-blue | API Filltrate 9.2 Chloride 4,900 April Chloride 9,2 |
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| 0. ROP (min/ft) 10 340 Gamma (API) 150 342 344 344 344 344 344 344 344 344 344 | | fair interoolicastic porosity, fair dor, show free oil and gas bubble. 60° sample limestone: more light gray, oolicastic poros to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble. So the fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble. So the fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble. So the fair odor with show free oil and gas bubble for the fair odor with show free oil and gas bubble for the fair odor with show free oil and gas bubble for the fair odor with show free oil fair odor with show free oil and gas bubble for the fair odor with show free oil fair odor with show free oil and gas bubble for the fair odor with show free oil fair odor with show free oil and gas bubble for the fair odor with show free oil and gas bubble for the fair odor with show free oil and gas bubble for the fair odor with show free oil and gas bubble for the fair odor with show free oil and gas bubble for the fair odor with show free oil and gas bubble for the fair odor with show free oil and gas bubble for the fair odor with show free oil and gas bubble for the fair odor with show free oil and gas bubble for the fair odor with show free oil and gas bubble for the fair odor with fair odor in fresh, sharp and block for fair oddr, few pieces slight show free oil and gas bubble for the fair oddr, fai | API Filltrate 9.2 Chloride 4,900 April Chloride 9,2 |
| 0. ROP (min/ft) 10 340 Gamma (API) 150 342 344 344 344 344 344 344 344 344 344 | | <pre>fair intercolicastic porosity, fair dor, show free oil and gas bubble. 60" sample limestone: more light fary, colicastic pieces, poor to fair intercolicastic porosity, faint to fair odor with show free oil and gas bubble.</pre> Limestone: cream-white-light gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare colitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-light tan, fine crystalline, no visible porosity, dense Limestone: cream-light tan, fine crystalline, trace fossiliferous, tite, very faint dor, few pieces slight show free oil Shaley limestone: cream-gray, dense Limestone: cream-tan-gray, white, fine crystalline, slightly fossiliferous, tite, very faint dor, few pieces slight show free oil Limestone: cream-tan-gray, white, fine crystalline, slightly fossiliferous, tite, very faint dor, few pieces slight show free oil Shaley limestone: cream-gray, one show free oil Limestone: cream-tan-gray, white, fine crystalline, slightly fossiliferous, tite, very appears tite and chalky, odor, no show free oil Shale: gray-green-black-red, samples wash slightly red Circulated at 3510' Chert: off white-white-tan, fresh, sharp and blocky, rey rare piece tripolitic with sponge texture, no odor, scum of oil and gas bubble when broke, sample wash slightly red Chert: white-tan, fresh, opaque to semi-translucent, sharp and blocky, rey rare piece tripolitic with sponge texture, no odor, scum of oil and gas bubble when broke, sample wash slightly red Chert: white-tan, fresh, opaque to semi-translucent, sharp and blocky, rey rare piece tripolitic with sponge texture, no odor, scum | API Filltrate 9.2 Chloride 4,900 April Chloride 9,2 |
| 0. ROP (min/ft) 10 340 Gamma (API) 150 342 344 344 344 344 344 344 344 344 344 | | fair intercolicastic porosity, fair dor, show free oil and gas bubble. 60° sample limestone: more light gray, olicastic pieces, poor to fair intercolicastic porosity, fain to fair odor with show free oil and gas bubble. Simple measures are shown free oil and gas bubble are shown free oil and gas bubble are shown free oil and gas bubble shows. It mestone: cream-white-light gray, fine crystalline, rare oolitic piece, to siliferous, poor visible proosity, questionable odor, rare piece slight show free oil. Circulated at 3404' Limestone: cream-white-light gray, fine crystalline, the crystalline to silightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil. Limestone: cream-white, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint dor in fresh, no show free oil and gas bubble. Siliferous are vugular, poorly developed, good odor, few pieces show free oil and gas bubble porosity, dense, sub shaley in part, very faint dor in fresh, no show free oil and gas bubble porosity, dense, sub shaley in part, very faint dor in fresh, no show free oil and gas bubble porosity, dense, sub shaley in part, very faint dor in fresh, no show free oil and gas bubble porosity, dense and brow free oil and gas bubble dor show free oil and gas bubble when broke, sample wash slightly red for subble porosity, dense, show free oil and gas bubble when broke bube when broke, sample wash slightly red for subble porosity, dense are piece tripolitic with sponge texture, no dor, scum of oil and gas bubble when broke, sample wash slightly red are porosity with sponge texture, no dor, scum of oil and gas bubble when broke, sample wash slightly red are bubble. Since colle are sandstone grains, sub conded, no shows: | API Filltrate 9.2 Chloride 4,900 April Chloride 9,2 |
| 0 ROP (min/ft) 10 340 342 342 344 344 344 344 344 346 346 346 | | fair intercolicastic porosity, fair dor, show free oil and gas bubble. 60° sample limestone: more light gray, oblicastic porosity, faint to fair odor with show free oil and gas bubble. | API Filltrate 9.2 Chloride 4,900 April Filltrate 9.2 Chloride 4,900 April Filltrate 9.2 Chloride 4,900 April Filltrate 9.2 Chloride 4,900 Chloride |
| 0 ROP (min/ft) 10 340 342 342 344 344 344 344 344 346 346 346 | | <pre>fair intercolicastic porosity, fair dor, show free oil and gas bubble. 60° sample limestone: more light gray, oblicastic pieces, poor to fair intercolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight individual for out in the state of the crystalline, trace of the crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, poor to no visible porosity, dense cub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-tan-gray, fine crystalline, trace fossiliferous, tite, very faint door, few pieces slight tan, fine crystalline, trace fossiliferous, tite, very faint door, few pieces slight show free oil Limestone: cream-tan-gray, dine crystalline, slightly fossiliferous, tite, very faint door, few pieces slight show free oil Limestone: cream-tan-gray, dine crystalline, slightly fossiliferous, tite, very faint door, few pieces slight show free oil Limestone: cream-tan-gray, white, fine crystalline, slightly fossiliferous, tite, regar-green-black-red, samples wash slightly red Limestone: cream-tan-gray-white, fine crystalline, slightly fossiliferous, try piece thipolite, with sponge tash slightly red Linestone: sample wash slightly red Linestone: sample wash slightly red Linestone, sample wash slightly red Linestone, sample wash slightly red Limestone: sample wash slightly red Linestone: sample wash slightly red Linestone broke, sample wash slightly red Linestone samo, sample wash slightly red Linestone samo, prove the semi-translucent, sharp and blocky, reg shows Linestone frosted white to clear sandstone grains, sub Lines shows Lines that: with some frosted white to clear sandstone grains, sub Lines whore. Lines vari-colored Line: vari-colo</pre> | API Filltrate 9.2 Chloride 4,900 April Filltrate 9.2 Chloride 4,900 April Filltrate 9.2 Chloride 4,900 April Filltrate 9.2 Chloride 4,900 Chloride |

| | | | RATOR | | |
|--|-----------------------------|------------------|---------------------|----------------|---------------------|
| Company: Address: | La Veta Oil . PO Box 780 | - | | | |
| | Middleburg, | | 8-0780 | | |
| Contact Geologist: | | | | | |
| Contact Phone Nbr: Well Name: | #3 Hammek | e | | | |
| Location: Pool: | Section 12-2 | 22S-12W | | API: Field: | 15-185-23945 Max |
| State: | Kansas | | | untry: | USA |
| | S | cale 1:24 | 40 Imperial | | |
| Well Name: | #3 Hammek | | io importar | | |
| Surface Location: Bottom Location: | Section 12-2 | | 1 | | |
| API: | 15-185-2394 | 45 | | | |
| License Number: Spud Date: | 9/25/2015 | | | Time: | 8:15 AM |
| Region: Drilling Completed: | Stafford 9/30/2015 | | | Time: | 2:00 PM |
| Surface Coordinates: Bottom Hole Coordinates: | 1945' FNL & | 1775' F | | | |
| Ground Elevation: | 1800.00ft | | | | |
| K.B. Elevation: Logged Interval: | 1810.00ft 3000.00ft | | | To: | 3592.00ft |
| Total Depth: Formation: | 3592.00ft | | | | |
| Drilling Fluid Type: | Chemical (N | ludCo) | | | |
| | SUR | ACE CO | D-ORDINATES | | |
| Well Type: Longitude: | Vertical | | l ai | itude: | |
| N/S Co-ord: | 1945' FNL | | Ldi | | |
| E/W Co-ord: | 1775' FEL | | | |) |
| | | LOGG | ED BY | | |
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| | ILII | | | | |
| | ENERG | Y SP | ERVICE, LL | 6 | |
| Company: | TerraTech E | | | | |
| Address: | 1632 S. We Wichita, KS | st St. Su | | | |
| | | | | | |
| Phone Nbr: Logged By: | 316-617-395 Geologist | 59 | ١ | lame: | Bruce Reed |
| | | CONTE | ACTOR | |) |
| Contractor: | Maverick Dr | | | | |
| Rig #: Rig Type: | 106 mud rotary | | | | |
| Spud Date: TD Date: | 9/25/2015 9/30/2015 | | | Time: Time: | 8:15 AM 2:00 PM |
| Rig Release: | 10/1/2015 | | | Time: | 11:00 AM |
| | | ELEVA | TIONS | | |
| K.B. Elevation: K.B. to Ground: | 1810.00ft 10.00ft | | Ground Elev | ation: | 1800.00ft |
| | | | | | |
| Surface Casing: | 8-5/8" at 269' | NO | TES | | |
| - | None | | | | |
| | | | | | |
| |)9/25/15)9/26/15 | SPUD 785' | @ 8:15 AM | | |
| (|)9/27/15 | 783 2070' | | | |
| |)9/28/15 | 3050' 3355' | | | |
| |)9/29/15)9/30/15 | 3355' 3440'] | RTD @ 2:00 PM | | |
| | 10/01/15 | | Rig released @ 11 | :00 AN | M |
| | | | | | |
| | | DRILL | STEM TESTS | | |
| DST #1 3350'-3370' L/KC "H | I". Weak blov | w that d | ied in 5 minutes of | n the in | itial flow period. |
| No blow on the second flow pe | eriod, pulled to | ool. Re | covered: 25' Drill | ing Mu | - |
| IFP/15" 15-23 psi, ISIP/30" 24 | 5 ps1, FFP/5" | 24-22 p | osi, f51P/ Not Rec | orded | |

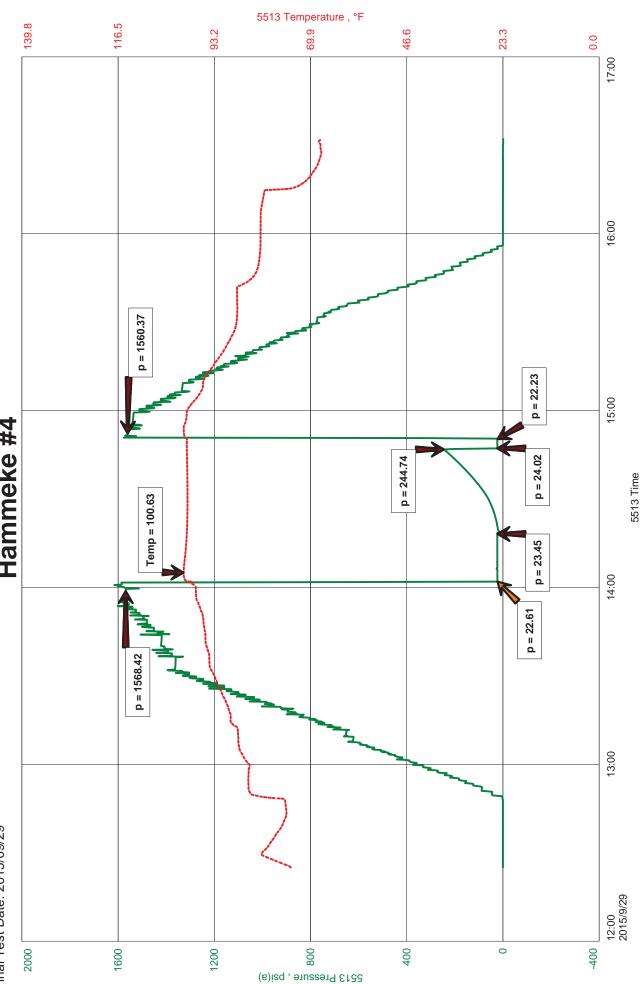


| | | | Geologist on site 3132' |
|--|--|--|---|
| 314 | 。 | Shale: gray, soft | |
| } | | Shale: gray-some red, soft, very slightly silty | |
| <u> </u> | | | |
| | | Shale: as above | |
| 316 | | | |
| } | | Shale: as above | |
| | | Shale: gray-green-brown-red, samples wash dirty | |
| 318 | • | | |
| | | Shale: gray-brown-red, samples wash dirty | |
| \$ | | | |
| 0 POP (min/ft) 10 ³²⁰ | | Shale: gray-brown, samples wash dirty | |
| 0 ROP (min/ft) 10 320 0 Gamma (API) 150 | | Brown Lime 3204' (-1394) Limestone: brown-tan, microcrystalline, dense | 0 Total Gas (units) 100 0 C1 (units) 100 0 C2 (units) 100 |
| E | | Linestone. Drown-tan, microcrystainne, dense | 0 C3 (units) 100 0 C4 (units) 100 |
| | | Shale: gray-green-some black, very slightly silty | |
| 322 | | Shale: gray, soft | |
| $\boldsymbol{\mathcal{L}}$ | | Lansing 3229' (-1419) | |
| | | Limestone: cream-gray, fine crystalline, poor to no visible porosity, sub | |
| 324 | | chalky, no shows | |
| <pre></pre> | | Limestone: cream-light gray, some tan pieces, fine crystalline, poor to no visible porosity, sub chalky, no shows | |
| $\boldsymbol{\zeta}$ | | no visible porosity, sub chalky, no snows | |
| 326 | | Limestone: cream-white, some gray pieces, fine crystalline to very slightly fissile, poor visible porosity, chalky | |
| | | Limestone: as above | |
| | | | |
| | | Circulated at 3276' Limestone: cream-white, fine crystalline, poor visible porosity, trace fossiliferous pieces with poor inter-fossiliferous porosity, | |
| 328 | | sub shaley, very faint odor, no show free oil | |
| | | Limestone: cream-gray, fine to slightly medium crystalline, poor to no visible porosity, looks tite, trace chalky, no shows | |
| | | Shale: dark-medium gray | |
| 330 | | Circulated at 3306' Limestone: cream-light tan, fine crystalline to slightly | |
| | 0 + + + + + + + + + + + + + + + + + + + | fossiliferous, rare scattered vugular porosity, fair odor, few pieces show free oil and gas bubble | |
| | | | |
| 332 | | Limestone: light tan-cream-white, mostly fine crystalline, trace medium crystalline, poor visible porosity, chalky, no shows | |
| 3 | | Limestone: as above, slightly more fossiliferous and chalky | |
| | | | |
| 334 | | Limestone: more cream-white, fine crystalline, poor to no visible porosity, dense, chalky | |
| | | Paralan and the state of the state | |
| 3 | | Limestone: as above, no shows | |
| <u> </u> | | Limestone: light-medium tan-cream, fine crystalline, poor visible | |
| 336 | | porosity, sub chalky, no shows | Depth 3370' |
| | | | Mud Weight 9.2 |
| | | Circulated at 3370' Limestone: tan, fine crystalline, oolicastic, poor to fair intercolicastic porosity, fair odor, show free oil and gas bubble, 60" | Funnel Viscosity 45 API Filltrate 9.2 |
| | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas | Funnel Viscosity 45 API Filltrate 9.2 Chloride 4,900 |
| 338 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair | API Filltrate 9.2 |
| 338 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas | API Filltrate 9.2 |
| | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows | API Filltrate 9.2 |
| 0 ROP (min/ft) 10 340 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, | API Filltrate 9.2 Chloride 4,900 |
| | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil | API Filltrate 9.2 Chloride 4,900 |
| 0 ROP (min/ft) 10 340 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few | API Filltrate 9.2 Chloride 4,900 Image: state |
| 0 ROP (min/ft) 10 340 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil | API Filltrate 9.2 Chloride 4,900 Image: state |
| 0 ROP (min/ft) 10 Gamma (API) 150 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, dense, sub chalky | API Filltrate 9.2 Chloride 4,900 Image: state |
| 0 ROP (min/ft) 10 Gamma (API) 150 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil | API Filltrate 9.2 Chloride 4,900 Image: state |
| 0 ROP (min/ft) 0 Gamma (API) 10 340 0 Gamma (API) 150 342 342 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, dense, sub chalky Limestone: more cream-gray, fine crystalline, poor to no visible porosity, | API Filltrate 9.2 Chloride 4,900 Image: state |
| 0 ROP (min/ft) 10 Gamma (API) 150 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, dense, sub chalky Limestone: more cream-gray, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-tan-gray, fine crystalline, no visible porosity, dense | API Filltrate 9.2 Chloride 4,900 Image: state |
| 0 ROP (min/ft) 0 Gamma (API) 10 340 0 Gamma (API) 150 342 342 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, dense, sub chalky Limestone: more cream-gray, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-tan-gray, fine crystalline, no visible porosity, dense Limestone: as above, trace fossiliferous piece, sub chalky, no shows | API Filltrate 9.2 Chloride 4,900 Image: state |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, dense, sub chalky Limestone: more cream-gray, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-tan-gray, fine crystalline, no visible porosity, dense | API Filltrate 9.2 Chloride 4,900 Image: state |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, dense, sub chalky Limestone: more cream-gray, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-tan-gray, fine crystalline, no visible porosity, dense Limestone: as above, trace fossiliferous piece, sub chalky, no shows Limestone: cream-light tan, fine crystalline, trace fossiliferous, tite, very faint odor, few pieces slight show free oil Shaley limestone: cream-gray, dense | API Filltrate 9.2 Chloride 4,900 |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, dense, sub chalky Limestone: more cream-gray, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-tan-gray, fine crystalline, no visible porosity, dense Limestone: as above, trace fossiliferous piece, sub chalky, no shows Limestone: cream-light tan, fine crystalline, trace fossiliferous, tite, very faint odor, few pieces slight show free oil | API Filltrate 9.2 Chloride 4,900 April Chloride 4,900 |
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| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, colicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, dense, sub chalky Limestone: more cream-gray, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-tan-gray, fine crystalline, no visible porosity, dense Limestone: as above, trace fossiliferous piece, sub chalky, no shows Limestone: cream-light tan, fine crystalline, trace fossiliferous, tite, very faint odor, few pieces slight show free oil Shaley limestone: cream-gray, dense Base KC 3468' (-1658) | API Filltrate 9.2 Chloride 4,900 April Chloride 9,2 |
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| 0 ROP (min/ft) 10 340 342 342 342 344 344 344 344 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, fain to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, dense, sub chalky Limestone: more cream-gray, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-tan-gray, fine crystalline, no visible porosity, dense Limestone: as above, trace fossiliferous piece, sub chalky, no shows Limestone: cream-light tan, fine crystalline, trace fossiliferous, tite, very faint odor, few pieces slight show free oil Shaley limestone: cream-gray, dense Base KC 3468' (-1658) Limestone: cream-tan-gray-white, fine crystalline, slightly fossiliferous, appears tite and chalky, odor, no show free oil Shale: gray-green-black-red, samples wash slightly red | API Filltrate 9.2 Chloride 4,900 April Chloride 9,2 |
| 0 ROP (min/ft) 10 340 342 342 342 344 344 344 344 344 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, dense, sub chalky Limestone: more cream-gray, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-tan-gray, fine crystalline, no visible porosity, dense Limestone: as above, trace fossiliferous piece, sub chalky, no shows Limestone: cream-light tan, fine crystalline, trace fossiliferous, tite, very faint odor, few pieces slight show free oil Shaley limestone: cream-gray, dense Base KC 3468' (-1658) Limestone: cream-tan-gray, white, fine crystalline, slightly fossiliferous, appears tite and chalky, odor, no show free oil Shale: gray-green-black-red, samples wash slightly red Viola 3496' (-16866) Circulated at 3510' Chert: off white-white-tan, fresh, sharp and blocky. | API Filltrate 9.2 Chloride 4,900 April Chloride 9,2 |
| 0 ROP (min/ft) 10 340 342 342 342 344 344 344 344 344 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, dense, sub chalky Limestone: more cream-gray, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-tan-gray, fine crystalline, no visible porosity, dense Limestone: as above, trace fossiliferous piece, sub chalky, no shows Limestone: cream-light tan, fine crystalline, trace fossiliferous, tite, very faint odor, few pieces slight show free oil Shaley limestone: cream-gray, dense Base KC 3468' (-1658) Limestone: cream-tan-gray, white, fine crystalline, slightly fossiliferous, appears tite and chalky, odor, no show free oil Shale: gray-green-black-red, samples wash slightly red Viola 3496' (-16866) Circulated at 3510' Chert: off white-white-tan, fresh, sharp and blocky. | API Filltrate 9.2 Chloride 4,900 April Chloride 9,2 |
| 0 ROP (min/ft) 10 340 342 342 342 344 344 344 344 344 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, dense, sub chalky Limestone: more cream-gray, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-tan-gray, fine crystalline, no visible porosity, dense Limestone: as above, trace fossiliferous piece, sub chalky, no shows Limestone: cream-light tan, fine crystalline, trace fossiliferous, tite, very faint odor, few pieces slight show free oil Shaley limestone: cream-gray, dense Base KC 3468' (-1658) Limestone: cream-tan-gray, white, fine crystalline, slightly fossiliferous, appears tite and chalky, odor, no show free oil Shale: gray-green-black-red, samples wash slightly red Viola 3496' (-16866) Circulated at 3510' Chert: off white-white-tan, fresh, sharp and blocky. | API Filltrate 9.2 Chloride 4,900 April Chloride 9,2 |
| 0 ROP (min/ft) 10 340 342 342 342 344 344 344 344 344 | | fair interoolicastic porosity, fair odor, show free oil and gas bubble. 60° sample limestone: more light gray, oolicastic pieces, poor to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare ooltic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, dense, sub chalky Limestone: more cream-gray, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-tan-gray, fine crystalline, no visible porosity, dense Limestone: cream-light tan, fine crystalline, no visible porosity, dense Limestone: cream-light tan, fine crystalline, trace fossiliferous, tite, very faint odor, few pieces slight show free oil Shaley limestone: cream-gray, dense Base KC 3468' (-1658) Limestone: cream-tan-gray-white, fine crystalline, slightly fossiliferous, appears tite and chalky, odor, no show free oil Shale: gray-green-black-red, samples wash slightly red Circulated at 3510' Chert: off white-white-tan, fresh, sharp and blocky, very rare piece tripolitic with sponge texture, no odor, scum of oil and gas bubble when broke, sample wash slightly red | API Filltrate 9.2 Chloride 4,900 April Chloride 9,2 |
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| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | fair intercolicastic porosity, fair odor, show free oil and gas bubble. 60° sample limestone: more light gray, colicastic pieces, poor to fair intercolicastic porosity, faint to fair odor with show free oil and gas bubble. Sow shaley, no shows: Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows: Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-gray, fine crystalline, no visible porosity, dense Limestone: cream-light tan, fine crystalline, no visible porosity, dense Limestone: cream-light tan, fine crystalline, trace fossiliferous, tite, very faint odor, few pieces slight show free oil Shaley limestone: cream-gray, dense Base KC <u>3468'</u> (-1658) Limestone: cream-lan-gray, white, fine crystalline, slightly fossiliferous, appears tite and chalky, odor, no show free oil Shale: gray-green-black-red, samples wash slightly ressiliferous, appears tite and chalky, odor, no show free oil Shale: gray-green-black-red, samples wash slightly red Circulated at 3510' Chert: off white-white-tan, fresh, sharp and blocky, very rare piece tripolitic with sponge texture, no odor, scum of oil and gas bubble when broke, sample wash slightly red Chert: white-tan, fresh, opaque to semi-translucent, sharp and blocky, os shows Simspon <u>3526'</u> (-1716) Shale: pale green-turquiose-blue | API Filltrate 9.2 Chloride 4,900 April Chloride 9,2 |
| 0 ROP (min/ft) 10 340 342 342 342 344 344 344 344 344 | | fair intercolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, colicastic pieces, poor to fair intercolicastic porosity, faint to fair odor with show free oil and gas bubble. Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorty developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-light tan, fine crystalline, no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-light tan, fine crystalline, trace fossilferous, tite, very faint odor, few pieces slight show free oil Shaley limestone: cream-gray, dense Base KC 3468' (-1658) Limestone: cream-tan-gray, white, fine crystalline, slightly fossiliferous, appears tite and chalky, odor, no show free oil Shale: gray-green-black-red, samples wash slightly red Limestone: cream-tan-gray-white, fine crystalline, slightly fossiliferous, agas bubble when broke, sample wash slightly red Chert: white-tan, fresh, opaque to semi-translucent, sharp and blocky, very rare piece tripolitic with spong texture, no odor, scum of oil and gas bubble when broke, sample wash slightly red Shale: pale green-turquiose-blue | API Filltrate 9.2 Chloride 4,900 April Chloride 9,2 |
| 0 0 ROP (min/ft) 10 340 342 342 344 344 344 344 344 344 | | fair intercolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, olicastic pieces, poor to fair intercolicastic porosity, faint to fair odor with show free oil and gas bubble. Limestone: cream-white-light gray, fine crystalline, rare colitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, dense, sub chalky Limestone: more cream-gray, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-tan-gray, fine crystalline, no visible porosity, dense Limestone: cream-light tan, fine crystalline, no visible porosity, dense Limestone: cream-light tan, fine crystalline, trace fossiliferous, tite, very faint dor, few pieces slight show free oil Shaley limestone: cream-gray, dense Base KC 3468' (-16588) Limestone: cream-light tan, fine crystalline, slightly fossiliferous, appears tite and chalky, odor, no show free oil Shaley gray-green-black-red, samples wash slightly ressiliferous, appears tite and chalky, odor, no show free oil Shale: gray-green-black-red, samples wash slightly ressiliferous, agas bubble when broke, sample wash slightly red Circulated at 3510' Chert: off white-white-tan, fresh, sharp and blocky, eyr rare pice tripolitic with sponge texture, no odor, scum of oil and gas bubble when broke, sample wash slightly red Chert: white-tan, fresh, opaque to semi-translucent, sharp and blocky, eys shows Simsspon 3526' (-1716) Shale: pale green-turquiose-blue Shale: as above, brittle Simpson Sand 3549' (-1739) | API Filltrate 9.2 Chloride 4,900 April Chloride 9,2 |
| 0. ROP (min/ft) 10 340 Gamma (API) 150 342 344 344 344 344 344 344 344 344 344 | | fair intercolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, colicastic pieces, poor to fair intercolicastic porosity, faint to fair odor with show free oil and gas bubble. Limestone: cream-light tan-gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorty developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-light tan, fine crystalline, no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-light tan, fine crystalline, trace fossiliferous, tite, very faint odor, few pieces slight show free oil Shaley limestone: cream-gray, dense Base KC 3468' (-1658) Limestone: cream-tan-gray, white, fine crystalline, slightly fossiliferous, appears tite and chalky, odor, no show free oil Shale: gray-green-black-red, samples wash slightly red Limestone: cream-tan-gray-white, fine crystalline, slightly fossiliferous, agas bubble when broke, sample wash slightly red Chert: white-tan, fresh, opaque to semi-translucent, sharp and blocky, very rare piece tripolitic with spong texture, no odor, scum of oil and gas bubble when broke, sample wash slightly red Shale: pale green-turquiose-blue | API Filltrate 9.2 Chloride 4,900 April Chloride 9,2 |
| 0 0 ROP (min/ft) 10 340 342 342 344 344 344 344 344 344 | | fair intercolicastic porosity, fair odor, show free oil and gas bubble. 60" sample limestone: more light gray, oolicastic pieces, poor to fair intercolicastic porosity, faint to fair odor with show free oil and gas bubble Limestone: cream-white-light gray, fine crystalline, rare oolitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, dense, sub chalky Limestone: more cream-gray, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-tan-gray, fine crystalline, no visible porosity, dense Limestone: cream-light tan, fine crystalline, trace fossiliferous, tite, very faint door, few pieces slight show free oil Shaley limestone: cream-gray, dense Base KC 3468' (-1658) Limestone: cream-light tan, fine crystalline, slightly fossiliferous, appears the and chalky, odor, no show free oil Shaley gray-green-black-red, samples wash slightly red Viola 3496' (-16866) Circulated at 3510' Chert: off white-white-tan, fresh, sharp and blocky, very rare piece tripolitic with sponge texture, no odor, scum of oil and gas bubble when broke, sample wash slightly red Chert: white-tan, fresh, opaque to semi-translucent, sharp and blocky, rog shows Simspon 3526' (-1716) Shale: pale green-turquiose-blue Shale: as above, brittle Simpson Sand 3549' (-17339) Mostly shale: with some frosted white to clear sandstone grains, sub | API Filltrate 9.2 Chloride 4,900 April Chloride 9,2 |
| 0. ROP (min/ft) 10 340 Gamma (API) 150 342 344 344 344 344 344 344 344 344 344 | | fair interoolicastic porosity, fair dor, show free oil and gas bubble. 60° sample limestone: more light gray, oolicastic poros to fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble. So the fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble. So the fair interoolicastic porosity, faint to fair odor with show free oil and gas bubble. So the fair odor with show free oil and gas bubble for the fair odor with show free oil and gas bubble for the fair odor with show free oil and gas bubble for the fair odor with show free oil fair odor with show free oil and gas bubble for the fair odor with show free oil fair odor with show free oil and gas bubble for the fair odor with show free oil fair odor with show free oil and gas bubble for the fair odor with show free oil and gas bubble for the fair odor with show free oil and gas bubble for the fair odor with show free oil and gas bubble for the fair odor with show free oil and gas bubble for the fair odor with show free oil and gas bubble for the fair odor with show free oil and gas bubble for the fair odor with show free oil and gas bubble for the fair odor with show free oil and gas bubble for the fair odor with show free oil and gas bubble for the fair odor with fair odor in fresh, sharp and block for fair oddr, few pieces slight show free oil and gas bubble for the fair oddr, fai | API Filltrate 9.2 Chloride 4,900 April Chloride 9,2 |
| 0. ROP (min/ft) 10 340 Gamma (API) 150 342 344 344 344 344 344 344 344 344 344 | | <pre>fair intercolicastic porosity, fair dor, show free oil and gas bubble. 60" sample limestone: more light fary, colicastic pieces, poor to fair intercolicastic porosity, faint to fair odor with show free oil and gas bubble.</pre> Limestone: cream-white-light gray, fine to very fine crystalline, very dense, sub shaley, no shows Limestone: cream-white-light gray, fine crystalline, rare colitic piece, fossiliferous, poor visible proosity, questionable odor, rare piece slight show free oil Circulated at 3404' Limestone: cream-white-light gray, fine crystalline to slightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil Limestone: cream-white, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint odor in fresh, no show free oil Limestone: cream-light tan, fine crystalline, no visible porosity, dense Limestone: cream-light tan, fine crystalline, trace fossiliferous, tite, very faint dor, few pieces slight show free oil Shaley limestone: cream-gray, dense Limestone: cream-tan-gray, white, fine crystalline, slightly fossiliferous, tite, very faint dor, few pieces slight show free oil Limestone: cream-tan-gray, white, fine crystalline, slightly fossiliferous, tite, very faint dor, few pieces slight show free oil Shaley limestone: cream-gray, one show free oil Limestone: cream-tan-gray, white, fine crystalline, slightly fossiliferous, tite, very appears tite and chalky, odor, no show free oil Shale: gray-green-black-red, samples wash slightly red Circulated at 3510' Chert: off white-white-tan, fresh, sharp and blocky, rey rare piece tripolitic with sponge texture, no odor, scum of oil and gas bubble when broke, sample wash slightly red Chert: white-tan, fresh, opaque to semi-translucent, sharp and blocky, rey rare piece tripolitic with sponge texture, no odor, scum of oil and gas bubble when broke, sample wash slightly red Chert: white-tan, fresh, opaque to semi-translucent, sharp and blocky, rey rare piece tripolitic with sponge texture, no odor, scum | API Filltrate 9.2 Chloride 4,900 April Chloride 9,2 |
| 0. ROP (min/ft) 10 340 Gamma (API) 150 342 344 344 344 344 344 344 344 344 344 | | fair intercolicastic porosity, fair dor, show free oil and gas bubble. 60° sample limestone: more light gray, olicastic pieces, poor to fair intercolicastic porosity, fain to fair odor with show free oil and gas bubble. Simple measures are shown free oil and gas bubble are shown free oil and gas bubble are shown free oil and gas bubble shows. It mestone: cream-white-light gray, fine crystalline, rare oolitic piece, to siliferous, poor visible proosity, questionable odor, rare piece slight show free oil. Circulated at 3404' Limestone: cream-white-light gray, fine crystalline, the crystalline to silightly fossiliferous, rare vugular, poorly developed, good odor, few pieces show free oil. Limestone: cream-white, fine crystalline, poor to no visible porosity, dense, sub shaley in part, very faint dor in fresh, no show free oil and gas bubble. Siliferous are vugular, poorly developed, good odor, few pieces show free oil and gas bubble porosity, dense, sub shaley in part, very faint dor in fresh, no show free oil and gas bubble porosity, dense, sub shaley in part, very faint dor in fresh, no show free oil and gas bubble porosity, dense are above, trace fossiliferous piece, sub chalky, no shows free oil and gas bubble for the piece slight show free oil. Shaley limestone: cream-light tan, fine crystalline, trace fossiliferous, appears the and chalky, odor, no show free oil. Shaley limestone: cream-gray, white, fine crystalline, slightly fossiliferous, appears the and chalky, odor, no show free oil. Shaley gray-green-black-red, samples wash slightly red. Viola 3496' (-16886) . Circulated at 3510' Chert: off white-white-tan, fresh, sharp and blocky, erg rare piece tripolitic with sponge texture, no odor, scum of oil and gas bubble when broke, sample wash slightly red. Sinspon 3526' (-17716) . Shale: pale green-turquiose-blue. Sinspon (-17739) . Mostly shale: with some frosted white to clear sandstone grains, sub counded, no shows. | API Filltrate 9.2 Chloride 4,900 April Chloride 9,2 |
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LaVeta Oil and Gas, LLC DST #1 LKC H 3350-3370 Start Test Date: 2015/09/29 Final Test Date: 2015/09/29







C:\Users\Roger Friedly\Desktop\hammeke4dst1 29-Sep-15 Ver

विड

JASON MCLEMORE



CELL # 620-617-0527

General Information

| Company Name | LaVeta Oil and Gas, LLC | | |
|------------------|-------------------------|-----------------|-------------------------|
| Contact | Bennie Griffin | Job Number | K259 |
| Well Name | Hammeke #4 | Representative | Jason McLemore |
| Unique Well ID | DST #1 LKC H 3350-3370 | Well Operator | LaVeta Oil and Gas, LLC |
| Surface Location | 12-22s-12w-Stafford | Prepared By | Jason McLemore |
| Field | Max | Qualified By | Bruce Reed |
| Well Type | Vertical | Test Unit | |
| Test Information | | | |
| | | Representative | Jason McLemore |
| Test Type | Drill Stem Test | Well Operator | LaVeta Oil and Gas, LLC |
| Formation | LKC H | Report Date | 2015/09/29 |
| Well Fluid Type | 01 Oil | Prepared By | Jason McLemore |
| Test Purpose (AE | EUB) Initial Test | | |
| Start Test Date | 2015/09/29 | Start Test Time | 12:25:00 |
| Final Test Date | 2015/09/29 | Final Test Time | 16:37:00 |

Test Results

RECOVERED:

| 25 | Drilling Mud |
|----|--------------|
| 25 | TOTAL FLUID |



DIAMOND TESTING P.O. Box 157 HOISINGTON, KANSAS 67544 (800) 542-7313 DRILL-STEM TEST TICKET FILE: hammeke4dst1

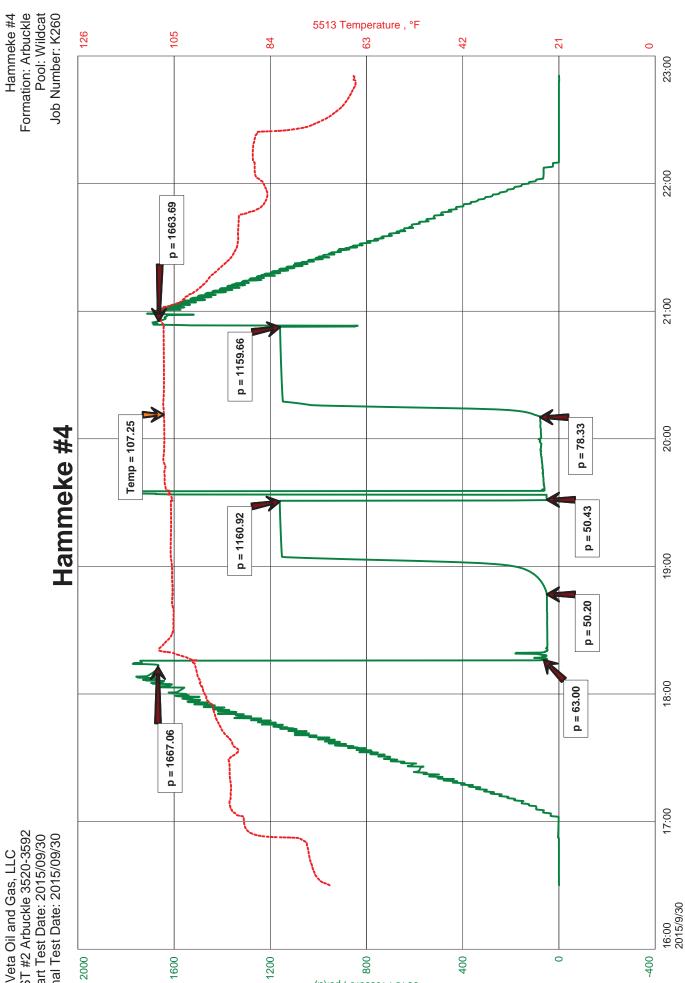
TIME ON: 12:25 PM

TIME OFF: 4:37 PM

| Company LaVeta Oil and Gas, LLC | Lease & Well No. Hammeke #4 |
|---|---|
| | Charge to LaVeta Oil and Gas, LLC |
| | H Effective PayFt. Ticket NoK259 |
| Date 9-29-15 Sec. 12 Twp. 22 S F | Range12 W CountyStaffordState_KANSAS |
| Test Approved By Bruce Reed | Diamond Representative Jason McLemore |
| Formation Test No. 1 Interval Tested from 3 | |
| Packer Depth 3345 ft. Size6 3/4 in. | Packer depthft. Size 6 3/4 in. |
| Packer Depth 3350 ft. Size6 3/4 in. | Packer depthft. Size6 3/4in. |
| Depth of Selective Zone Set | |
| Top Recorder Depth (Inside) 3338 ft. | Recorder Number5513 Cap5000 P.S.I. |
| Bottom Recorder Depth (Outside) 3339 ft. | Recorder Number 5588 Cap. 6000 P.S.I. |
| Below Straddle Recorder Depthft. | Recorder NumberCapP.S.I. |
| Mud Type Chemical Viscosity 45 | Drill Collar Length 0 ft. I.D. 2 1/4 ir |
| Weight 9.2 Water Loss 9.2 ca | c. Weight Pipe Length0_ft. I.D2 7/8i |
| Chlorides 4900 P.P.M. | Drill Pipe Length 3324 ft. I.D 3 1/2 ii |
| Jars: MakeSTERLINGSerial NumberNA | _ Test Tool Length 26 ft. Tool Size 3 1/2-IF in |
| Did Well Flow?NoReversed OutNo | Anchor Length 20 ft. Size 4 1/2-FH i |
| Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. | Surface Choke Size1 in. Bottom Choke Size_5/8 i |
| Blow: 1st Open: Weak Blow, Died in 5 Min., No Blowk | back |
| 2nd Open: Dead | |
| Recovered 25 ft. of Drilling Mud | |
| Recovered 25 ft. of TOTAL FLUID | |
| Recoveredft. of | |
| Recoveredft. of | |
| Recoveredft. of | Price Job |
| Recoveredft. of | Other Charges |
| Remarks: Slid Tool 6' On Open | Insurance |
| | |
| | Total |
| Time Set Packer(s) 2:07 PM P.M. Time Started Off E | Bottom 2:57 PM P.M. Maximum Temperature 101 |
| Initial Hydrostatic Pressure | (A) <u>1568 P.S.I.</u> |
| Initial Flow Period Minutes 15 | (B) 23 P.S.I. to (C) 23 P.S.I. |
| Initial Closed In Period Minutes 30 | (D)245 P.S.I. |
| Final Flow Period | (E) 24 P.S.I. to (F) 22 P.S.I. |
| Final Closed In PeriodMinutes | (G)P.S.I. |
| Final Hydrostatic Pressure | (H) 1560 P.S.I. |

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

LaVeta Oil and Gas, LLC DST #2 Arbuckle 3520-3592 Start Test Date: 2015/09/30 Final Test Date: 2015/09/30



(a)isq , surserre , psi(a)

5513 Time



JASON MCLEMORE

CELL # 620-617-0527

General Information

| Company Name L | aVeta Oil and Gas, LLC | | |
|-------------------|---------------------------|-----------------|-------------------------|
| Contact | Bennie Griffin | Job Number | K260 |
| Well Name | Hammeke #4 | Representative | Jason McLemore |
| Unique Well ID | DST #2 Arbuckle 3520-3592 | Well Operator | LaVeta Oil and Gas, LLC |
| Surface Location | 12-22s-12w-Stafford | Prepared By | Jason McLemore |
| Field | Max | Qualified By | Bruce Reed |
| Well Type | Vertical | Test Unit | 6 |
| Test Information | | | |
| | | Representative | Jason McLemore |
| Test Type | Drill Stem Test | Well Operator | LaVeta Oil and Gas, LLC |
| Formation | Arbuckle | Report Date | 2015/09/30 |
| Well Fluid Type | 01 Oil | Prepared By | Jason McLemore |
| Test Purpose (AEL | JB) Initial Test | | |
| Start Test Date | 2015/09/30 | Start Test Time | 16:30:00 |
| Final Test Date | | | |

Test Results

RECOVERED:

| 150 | Muddy Water, 50% Water, 50% Mud |
|-----|---------------------------------|
| 150 | TOTAL FLUID |



DIAMOND TESTING P.O. Box 157 HOISINGTON, KANSAS 67544 (800) 542-7313 DRILL-STEM TEST TICKET FILE: hammeke4dst2

TIME ON: 4:30 PM

TIME OFF: 11:30 PM

| | | LE. <u>Hamme</u> | Ke4usiz | | | | |
|------------------------------------|------------------------|---------------------|--|------------------------|--------------|-----------------|---------------------|
| Company LaVeta Oil and Gas | s, LLC | | _Lease & Well No.H | ammeke #4 | | | |
| Contractor Maverick #106 | | | _ Charge to_LaVeta C | il and Gas, LLC | | | |
| Elevation KB 1810 For | mation | Arbuckl | e_Effective Pay | | _Ft. Ticket | No | K260 |
| Date 9-30-15 Sec. 12 | 2Twp | 22 S Ra | ange | 12 W County | Stafford | State | KANSAS |
| Test Approved By Bruce Reed | | | _Diamond Representati | ve | lason McLe | emore | |
| Formation Test No. 2 | _ Interval Tested from | 35 | 20 ft. to | 3592 ft. Total | Depth | | 3592 ft. |
| Packer Depth3515 | ft. Size 6 3/4 | in. | Packer depth | | ft. Size | 6 3/4 | in. |
| | | in. | Packer depth | | _ft. Size | 6 3/4 | in. |
| Depth of Selective Zone Set | | | | | | | |
| Top Recorder Depth (Inside) | | 3508 _{ft.} | Recorder Number_ | 5513 | Cap | 500 | 0 P.S.I. |
| Bottom Recorder Depth (Outside) | | 3509 _{ft.} | Recorder Number_ | 5588 | Сар | 600 | ⁰ P.S.I. |
| Below Straddle Recorder Depth | | ft. | Recorder Number_ | | Сар | | _ P.S.I. |
| Mud Type Chemical Visco | osity52 | | Drill Collar Length_ | <u>0</u> f | t. I.D | 2 1/- | 4 in. |
| Weight 9.0 Water Lo | oss9.2 | CC. | Weight Pipe Length | 0 | ft. I.D | 2 7/ | 8 in |
| Chlorides | 8000 | P.P.M. | Drill Pipe Length | 3494 | t. I.D | 3 1/2 | 2 in |
| Jars: MakeSTERLINGSerial | Number | NA | Test Tool Length | 26 | t. Tool Siz | ze3_1/2 | 2-IF in |
| Did Well Flow? No F | Reversed Out | No | | 72 | ft. Size | 4 1/2 | 2-FH in |
| Main Hole Size 7 7/8 T | ool Joint Size 4 1 | /2 XH _in. | 62' DP in Anchor Surface Choke Size | i | n. Bottom | Choke Siz | ze_5/8_in |
| Blow: 1st Open: Fair Blow, Bui | lt to 10", No Blo | owback | | | | | |
| ^{2nd Open:} Weak Blow, Bu | ilt to 3", No Blov | vback | | | | | 0 |
| Recovered 150 ft. of Muddy W | ater, 50% Water, 50 | % Mud | | | | | |
| Recovered 150 ft. of TOTAL F | LUID | | | | | | |
| Recoveredft. of | | | | | | | |
| Recoveredft. of | | | | | | | |
| | | | | F | Price Job | | |
| Recoveredft. of | | | | (| Other Charge | es | |
| Remarks: | | | | 1 | nsurance | | |
| | | | | | | | |
| | | | | | otal | | |
| Time Set Packer(s) 6:55 PM | A.M. P.M. Time S | tarted Off Bo | ttom9:25 PM | A.M. P.M. Maxir | num Tempe | rature | 107 |
| Initial Hydrostatic Pressure | | ***** | (A) | 1667 P.S.I. | | | |
| Initial Flow Period | Minutes | 30 | (B) | 63 P.S.I. to (| C) | 50 _F | P.S.I. |
| Initial Closed In Period | Minutes | 45 | (D) | 1161 P.S.I. | | | |
| Final Flow Period | Minutes | 30 | (E) | 50 P.S.I. to (I | =) | 78 _P | .S.I. |
| Final Closed In Period | Minutes | 45 | (G) | 1160 P.S.I. | | | |
| Final Hydrostatic Pressure | | | (H) | 1664 _{P.S.I.} | | | |

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

| ALLIED OIL & GA | S SERVICES, LLC |
|---|--|
| 2 | OINT: |
| SOUTHLAKE, TEXAS 76092 DATE 1@~1~15 SEC. TWP. RANGE | CALLED OUT ON LOCATION JOB START JOB FINISH |
| DR (NEW) (Circle one) | 2 Zy Fast Stated |
| CONTRACTOR WALLICK | OWNER LAVETA |
| | CEMENT AMOUNTORDERED 210 5% Ga/40+4 28 |
| MINIML SHOE JC | COMMON @@ |
| CSG. | DE |
| DISPLACEMENT 14 14 72 42 WILL | ASC @ 2165x 6c/46449 @ 1892 3973.20 + 4 + 10 53 @ 2.97 157.41 |
| PUMPTRUCK CEMENTER VILLY - Davis | |
| | © © 0 |
| BULK TRUCK # DRIVER | @@ TOTAL 4.136.61 |
| REMARKS: | \$ 3-0 |
| 453575 Reves | SERVICE |
| 252 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | HANDLING 225,51 @ 2,48 554.24 MILEAGE 5,42,415 + 2,75 382.53 |
| 220 | ARGE |
| AT JOSX MIL | AGE @ 77C 1 |
| CHARGE TO: A UCLA | LV MILEAGE 15 @ 4.40 Leleroc |
| ET | 14- |
| CITYSTATEZIP | DISCOUNT 2 % 2 CTUNE |
| | PLUG & FLOAT EQUIPMENT |
| To: Allied Oil & Gas Services, LLC. | 8 B |
| | © © |
| contractor to do work as 1s listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL | DTAL 110.0 |
| | SALES TAX (If Any) |
| PRINTED NAME (eci) ? FARMER | TOTAL CHARGES 7. 970. 42 DISCOUNT 3. 785. 21 IF PAID IN 30 DAYS |
| SIGNATURE Cear 2 2 Januar | 3.9 |
| | in the second |

| ROTARY PLUC | General and the second s |
|--|---|
| .0142+.0405=.0548 | 4 1/2 DRILL PIPE IN 7 7/8 HOLE |
| | INSIDE PIPE CAPACITY= .0142 |
| 60% COMMON,40% POZ+ 4% GEL+1/4 # FLO-SEAL | PIPE & HOLE VOLUME & HEIGHT=.0406 |
| | |
| COMPANY | |
| LEASE NAME WELL# | |
| | * |
| CEMENTER | 9. 2 |
| | |
| 1 ST PLUG AT 3575 FT 50 SX | |
| | |
| WATER 50 Sx X 6.7 \div 42 = 7:47 Bbls | far e |
| SLURRY 50 Sx X 1.40 X.1781 = 12.44 Bbls | |
| SLURRY 12.46 Bbls | |
| DEPTH OF DRILL PIPE 3575 FT - FILL UP 2 | |
| BALANCE PLUG 3.348 FT X .0142 = 47.54 B | bls = DISPLACEMENT, CUT 10 Bbls, |
| PUMPBbis, WATER | |
| MIX 7.97 Bbls, CEMENT | 8 |
| DISPLACE_5_Bbls, WATER AND 42_Bbls, MUD | 3.63 |
| | 5.2 |
| DEPTH OF DRILL PIPE 350 FT - FILL UP 22 BALANCE PLUG 623 FT X .0142 = 3.34 PUMPBbls, WATER | FT = FILL UP FT = BALANCE PLUG Bbis, DISPLACEMENT CUT 1 1/2 Bbis, |
| MIX 7.47 Bbls, CEMENT DISPLACE 8.84 Bbls, WATER | |
| | |
| 3 RD PLUG AT 200 FT 40 Sx WATER 40 Sx X 6.7 $42 = 636$ SLURRY 40 Sx X 1.40 X1781= 9.97 SLURRY 7.7 Bbls $30548 = 1.82$ FT=F. | Bbls, Bbls, ILL UP |
| DEPTH OF DRILL PIPE 200 FT - FILL UP 182 | |
| BALANCE PLUG 20018 FT X .0142 = 25 MIX 6.38 Bbis, CEMENT | Bbls, DISPLACEMENT CUT 1 1/2 Bbls, |
| DISPLACE 25 Bbls, WATER | |
| 4 TH PLUG AT GO FT 20 SX | |
| 4 TH PLUG AT G_{C} FT $2C$ SX WATER SX X 6.7 $\frac{1}{2}$ 42 = 3 | Bbls, Mouse 3.17 |
| SLURRY 20 Sx X 1.40 X .1781 = | Bbls, Dal Zaci 1. 35 |
| SLURRYBbls, 2.0548 = DEPTH OF DRILL PIPE FT - FILLL UP | |
| DEPTH OF DRILL PIPEFT - FILLL UP BALANCE PLUGFT X .0142 == | PT = BALANCE PLUG Bbls, DISPLACEMENT |
| MIXBbls, CEMENT | ವರ್ಷಕರ್ಷಕ ಂಗಿಂದ≮ಂಗುವರ್ಗ ಗಾಂಗವರು |
| DISPLACEBbls | |
| | |

ALLIED CEMENTING LLC.