Confidentiality Requested: Yes No

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

1104321

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 North / South Line of Section |
| City: State: Zip:+ | Feet from Feast / West Line of Section |
| Contact Person: | Footages Calculated from Nearest Outside Section Corner: |
| Phone: () | |
| CONTRACTOR: License # | GPS Location: Lat:, Long: |
| Name: | (e.g. xx.xxxx) (e.gxxx.xxxxx) |
| Wellsite Geologist: | Datum: NAD27 NAD83 WGS84 |
| Purchaser: | County: |
| Designate Type of Completion: | Lease Name: Well #: |
| New Well Re-Entry Workover | Field Name: |
| | Producing Formation: |
| ☐ Oil ☐ WSW ☐ SWD ☐ SIOW □ Gas □ D&A □ ENHR □ SIGW | Elevation: Ground: Kelly Bushing: |
| ☐ GG ☐ GSW ☐ Temp. Abd. | Total Vertical Depth: Plug Back Total Depth: |
| CM (Coal Bed Methane) | Amount of Surface Pipe Set and Cemented at: Feet |
| Cathodic Other (Core, Expl., etc.): | Multiple Stage Cementing Collar Used? |
| If Workover/Re-entry: Old Well Info as follows: | If yes, show depth set: Feet |
| Operator: | If Alternate II completion, cement circulated from: |
| Well Name: | feet depth to:w/sx cmt. |
| Original Comp. Date: Original Total Depth: | |
| Deepening Re-perf. Conv. to ENHR Conv. to SWD | Drilling Fluid Management Plan |
| Plug Back Conv. to GSW Conv. to Producer | (Data must be collected from the Reserve Pit) |
| | Chloride content: ppm Fluid volume: bbls |
| Commingled Permit #: | Dewatering method used: |
| Dual Completion Permit #: | |
| SWD Permit #: | Location of fluid disposal if hauled offsite: |
| ENHR Permit #: | Operator Name: |
| GSW Permit #: | Lease Name: License #: |
| | Quarter Sec TwpS. R East West |
| Spud Date or Date Reached TD Completion Date or Recompletion Date 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 | | | | |
| 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 Taken (Attach Additional Sh | neets) | Yes No | | - | on (Top), Depth a | | Sample |
|---|----------------------|------------------------------------|----------------------|------------------|-------------------|-------------------|-------------------------------|
| Samples Sent to Geolog | gical 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 | | 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 | Type of Cement | # Sacks Used | | Type and F | Percent Additives | |

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

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

(If No, skip questions 2 and 3) No No (If No, skip question 3)

No

No

(If No, fill out Page Three of the ACO-1)

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | | | А | | ement Squeeze Record d of Material Used) | Depth | | | |
|--------------------------------------|---|------------------|---------|-----------------|--------|---|-------------------------|---------------------------|----------------|---------|
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TUBING RECORD: | Siz | ze: | Set At: | | Packer | At: | Liner Ru | in: Yes | No | |
| Date of First, Resumed | Producti | ion, SWD or ENHR | | Producing N | | oing | Gas Lift | Other (Explain) | | |
| Estimated Production Per 24 Hours | | Oil Bbls | ŝ. | Gas | Mcf | Wate | er | Bbls. | Gas-Oil Ratio | Gravity |
| | | | | | | | | | | |
| DISPOSITIO | ON OF G | GAS: | | | | | | □ - | PRODUCTION INT | ERVAL: |
| Vented Sold | ι <u></u> ι | Used on Lease | | Open Hole | Perf. | Uually (Submit) | Comp. 4 <i>CO-5)</i> | Commingled (Submit ACO-4) | | |
| (If vented, Sul | bmit ACO |)-18.) | | Other (Specify) |) | | | . , | | |

| Form | ACO1 - Well Completion |
|-----------|-------------------------|
| Operator | Lario Oil & Gas Company |
| Well Name | Ottley 3-4 |
| Doc ID | 1104321 |

Tops

| Name | Тор | Datum |
|---------------|------|-------|
| Heebner | 3948 | -1004 |
| Lansing | 3990 | -1046 |
| Stark Shale | 4218 | -1274 |
| Hushpuckney | 4252 | -1308 |
| Base KC | 4286 | -1342 |
| Marmaton | 4344 | -1400 |
| Pwnee | 4419 | -1475 |
| Ft. Scott | 4444 | -1500 |
| Johnson | 4543 | -1599 |
| Morrow | 4560 | -1616 |
| Mississippian | 4584 | -1640 |

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



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

Mark Sievers, Chairman Thomas E. Wright, Commissioner Shari Feist Albrecht, Commissioner Sam Brownback, Governor

January 18, 2013

Jay Schweikert Lario Oil & Gas Company 301 S MARKET ST WICHITA, KS 67202-3805

Re: ACO1 API 15-063-22059-00-00 Ottley 3-4 NW/4 Sec.04-13S-31W Gove County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, Jay Schweikert

| CONSOLIDATED Oil Well Services, LLC | REMIT Consolidated Oil We Dept. 9 P.O. Box Houston, TX 7 | ell Services, LLC 970 4346 | Chani 620/431-9210 • 1- | IAIN OFFICE P.O. Box 884 ute, KS 66720 800/467-8676 620/431-0012 |
|---|---|---|--|--|
| INVOICE | | | Invoice # | 255165 |
| | Terms: 15/15/30, | | ============ Pa | age 1 |
| | | | | ng thin that the soul and some only the Bas |
| LARIO OIL & GAS P.O. BOX 1093 GARDEN CITY KS 637846 (316)265-5611 | | <u>OTTLEY 3-4</u> 39213 4-13-31 12-07-2012 KS | dr. Ilmig AFE 12-17-12 LK | 12-330 |
| ************************ | | | ============== | ========= |
| 1102 CALCIU | ption "A" CEMENT (SALE) M CHLORIDE (50#) M GEL / BENTONITE | 165.00 465.00 | .8900 | Total 2912.25 413.85 77.50 |
| Sublet PerformedDescri9996-130CEMENT9995-130CEMENT | ption MATERIAL DISCOUN EQUIPMENT DISCOU | T NT | | Total -510.54 -231.75 |
| Description 463 CEMENT PUMP (SURFACE) 463 EQUIPMENT MILEAGE (ON 693 MIN. BULK DELIVERY | E WAY) | Hours 1.00 10.00 1.00 | 5.00 | Total 1085.00 50.00 410.00 |
| | yc. | | | |
| ÷. | Amount Due | s 5222.59 if pa | aid after 01/ | 09/2013 |
| Parts: 3403.60 Freight: | .00 Tax | | ====================================== | 4439.20 |
| Labor: .00 Misc: Sublt: -742.29 Supplies | .00 Tot | | .20 .00 ============== | |
| | | | Date | |
| Signed | | AKLEY, KS OTTAWA, K | s Thayer, Ks | GILLETTE, WY |
| BARTLESVILLE, OK EL DORADO, KS EUREI 918/338-0608 316/322-7022 620/58 | A, 110 | AKLEY, KS OTTAWA, K 5/672-2227 785/242-404 | | 307/686-4914 |

| Consol | IDATED | |
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| o chigo che | | |

| TICKET NUN | IBER | <u>39213</u> | |
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| LOCATION_ | ORHEY | 125 | - |

on whith Services, LLC

| FOREMAN | Fuzz 4 | |
|-------------------------------|--------|--|
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| | | - FIFI | | & TREAT | MENT REP | ORT | | a . |
|----------------|------------------------------------|-------------|----------------|-------------|----------|--|----------|---------------|
| PO Box 884, Ci | nanute, KS 6672 pr 800-467-8676 | 20 | | CEMEN' | | | | 125 |
| DATE | CUSTOMER # | | NAME & NUME | | SECTION | TOWNSHIP | RANGE | COUNTY |
| | 4793 | OHIE | <u>, z.</u> | 14 | 4 | 135 | 3100 | Goure |
| 12.7.12 | 4 195 | | <u>y</u> | OAHIY | | | 能透過這個語 | 电器运行 包括 2 |
| CUSTOMER | $p \cdot 0; l \neq$ | GAS | | 5-600'R | TRUCK # | DRIVER | TRUCK # | DRIVER |
| MAILING ADDR | SS | | | Pd. 46 | 463 | CONTD | | |
| | | | | 1125 | 693 | Joudenh | | |
| CITY | | STATE | ZIP CODE | -e'.r | | | | |
| | | | | | | | | |
| JOB TYPE 5 | | HOLE SIZE | 12114 | HOLE DEPTH | 266' | CASING SIZE & W | EIGHT ST | 'ନ <u>୍</u> |
| | | | <u> </u> | | | | OTHER | |
| CASING DEPTH | | DRILL PIPE | | WATER gal/s | × / < | CEMENT LEFT in | | 1 1 |
| SLURRY WEIGH | | SLURRY VOL | | | <u> </u> | RATE | · · | |
| DISPLACEMEN | T_15.6 | DISPLACEMEN | | | Det | | 2 uliste | |
| REMARKS: | Salady m | eeting. | on Dul | | Risop | 19110 | A 4 | |
| | 653HS | Class A | <u>` 3°702</u> | 1 2010 | A | rop Plysi | | iplace DAL |
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Crow

| ACCOUNT CODE | QUANITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | | TOTAL |
|-----------------|---------------------------------------|------------------------------------|------------------------|---------|
| 54015 | 1 | PUMP CHARGE | 108500 | 108500 |
| 540.6 | 10 | MILEAGE | 5 000 | 5000 |
| 5407 | 7.76 dow | Ton millings Delivory | 41000 | 41000 |
| | · · · · · · · · · · · · · · · · · · · | | | 25 |
| 11045 | , 1655HS | Class A' zewont | N 65 | ja12 25 |
| 1102 | 465* | Calcium chlorion | ,89 | 413 85 |
| 1118B | 310* | Bendonte | 125 | י גר |
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| - | | | · . | |
| -1 | | | | 220.00 |
| | | | SALES TAX ESTIMATED | 232.89 |
| Ravin 3737 | | | TOTAL | 4439.20 |
| AUTHORIZTION | tinh Wheele | TITLE 7. P. | DATE | |

AUTHORIZTION The Little I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

2551105



PO Box 93999 Southlake, TX 76092

Voice: (817) 546-7282 Fax: (817) 246-3361

Bill To:

Lario Oil & Gas Co. P.O. Box 1093 Garden City, KS 67846

INVOICE

Invoice Number: 134123 Invoice Date: Dec 17, 2012 Page: 1



| drilling | AFE | 12 | ~330 | |
|----------|-----|----|------|--|
| 1-3-2013 | | | | |

| Custon | ner ID | Well Name/# or Customer P.O. | Payment Terms | | |
|----------|----------|------------------------------|---------------|----------|--|
| Lari | io | Ottley #3-4 | Net 30 Days | | |
| Job Loo | cation | Camp Location | Service Date | Due Date | |
| KS1- | 02 | Oakley | Dec 17, 2012 | 1/16/13 | |
| Quantity | Item | Description | Unit Price | Amount | |
| 3.00 | MAT | Gel – No charge | | | |
| 160.00 | MAT | ASC | 20.90 | 3,344.00 | |
| 450.00 | MAT | Lightweight | 16.50 | 7,425.00 | |
| 16.00 | MAT | Salt – No Charge N | | | |
| 800.00 | MAT | Gilsonite YC | 0.98 | 784.00 | |
| 45.00 | MAT | FI-160 | 18.90 | 850.50 | |
| 22.00 | MAT | Defoamer / | 9.80 | 215.60 | |
| 12.00 | MAT | Super Flush // | 58.70 | 704.40 | |
| 737.22 | SER | Cubic Feet | 2.48 | 1,828.30 | |
| 616.59 | SER | Ton Mileage | 2.60 | 1,603.14 | |
| 1.00 | SER | Production Bottom Stage | 2,765.75 | 2,765.75 | |
| 1.00 | SER | Production Top Stage / | 2,406.25 | 2,406.25 | |
| 20.00 | SER | Pump Truck Mileage | 7.70 | 154.00 | |
| 1.00 | SER | Manifold Head Rental | 275.00 | 275.00 | |
| 20.00 | SER | Light Vehicle Mileage | 4.40 | 88.00 | |
| 1.00 | EQP | 4.5 AFU Float Shoe | 382.59 | 382.59 | |
| 1.00 | EQP | 4.5 Latch Down Plug Assembly | 272.61 | 272.61 | |
| 1.00 | EQP | 4.5 Basket | 394.21 | 394.21 | |
| 1.00 | EQP | 4.5 D V Tool | 4,831.60 | 4,831.60 | |
| 9.00 | EQP | 4.5 Centralizer | 56.16 | 505.44 | |
| 1.00 | CEMENTER | Andrew Forslund | | | |

Continued Subtotal ALL PRICES ARE NET, PAYABLE Continued Sales Tax 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED Continued **Total Invoice Amount** THEREAFTER. IF ACCOUNT IS Payment/Credit Applied CURRENT, TAKE DISCOUNT OF TOTAL Continued \$ Dee next ONLY IF PAID ON OR BEFORE Jan 11, 2013



PO Box 93999 Southlake, TX 76092

Voice: (817) 546-7282 Fax: (817) 246-3361

Bill To:

Lario Oil & Gas Co. P.O. Box 1093 Garden City, KS 67846

ONLY IF PAID ON OR BEFORE Jan 11, 2013

INVOICE

Invoice Number: 134123 Invoice Date: Dec 17, 2012 Page: 2



| Customer ID | Well Name/# or Customer P.O. | Paymen | t Terms |
|--------------|------------------------------|--------------|----------|
| Lario | Ottley #3-4 | Net 30 | Days |
| Job Location | Camp Location | Service Date | Due Date |
| KS1-02 | Oakley | Dec 17, 2012 | 1/16/13 |

| Quantity | ltem | | Description | Unit Price | Amount |
|---------------|------------------------------|------|------------------------|--|-----------|
| 1.00 | EQUIP OPER | Dane | Retzloff | | |
| . 1.00 | OPER ASSIST | DJG | гау | | |
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| | | | | | |
| ALL PRICES AR | E NET, PAYABLE | =] | Subtotal | | 28,830.39 |
| 30 DAYS FOLL | OWING DATE OF | - | Sales Tax | ***** | 1,586.65 |
| | /2% CHARGED IF ACCOUNT IS | | Total Invoice Amount | | 30,417.04 |
| | KE DISCOUNT OF | | Payment/Credit Applied | and with the state of the state | |
| | | | TOTAL | | 30,417.04 |
| \$ 9,802. | . 33 | | | | |

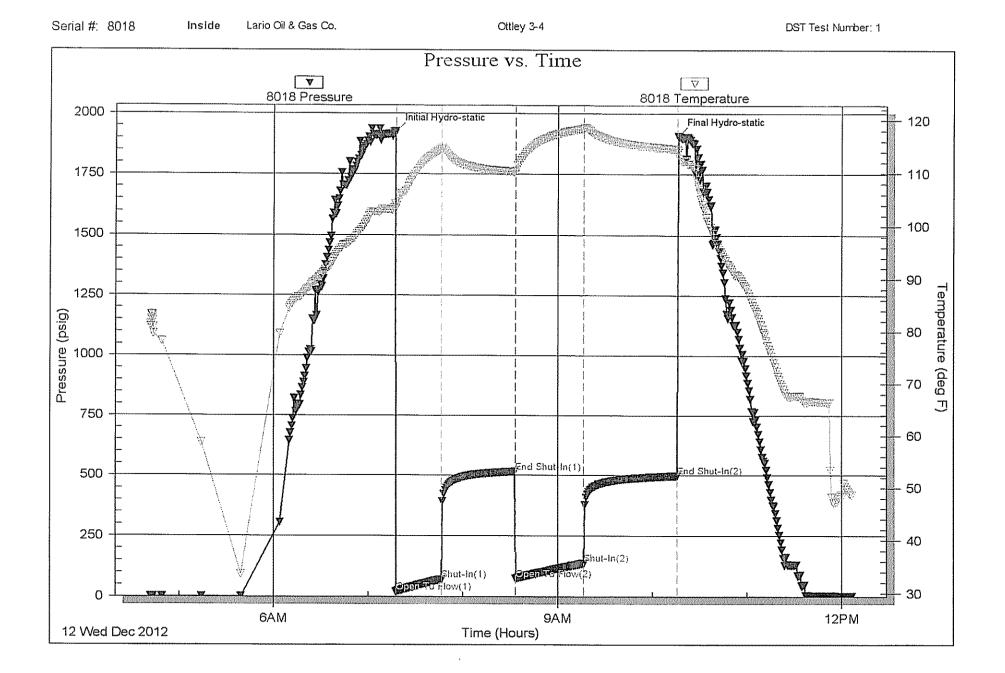
| ALLIED OIL & GA | S SERVIC | ;es, l | | 060091 |
|---|--|---------------------------------|-----------------------------|--------------------------------|
| EMITTO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092 | . # 20-866 147 8 | SBRVIO | : E POINT: Og ISU | <u></u> |
| MIB 2-12-12 4 13 31 | ALLED OUT . ON I | OCATION 1 | 1~~ 0D START 150 8/02 | |
| EASE WELL # 3-4 LOCATION Dalicey | <u>115 48 2</u> | ter of | OUNTY | STATE J D S |
| ONTRACTOR Duke 4 | OWNER SOME | ا | 1.0 22 | <u> </u> |
| <u>VPEOFJOB</u> <u>roduction</u> (2 stage) <u>IOLESIZE 78 T.D. 44601</u> | CEMENT | - 10 - | | atte et |
| ASING SIZE 412 DEPTH 4645" UBING SIZE DEPTH DRILL PIPE DEPTH | AMOUNT ORDERE 1255/1259=1 455-602Nek | x3705185 | bilo, O | Selar C |
| OOL DV DEPTH AUSY 'RES. MAX MINIMUM | COMMON | ; | , : | <u>564//2437</u> |
| AEAS. LINE SHOE JOINT 20,93 EMENT LEFT IN CSO. 20,93 | POZMIX GEL | 45 | » | NE |
| USPLACEMENT 2.7 JOOBL | CHLORIDE ASC/CoO.SK | | 20,90 | 3344,00 |
| EQUIPMENT | Lite 4500ks | | | 2425.00 |
| UMPTRUCK CEMENTER Andrew? 1 1431 HELPER Dane | Gilsonite | 5/25 (0 800 ⁷⁴ (0 | 28 | N/C 284,00 |
| 1540 DRIVER DIT 3 JULK TRUCK | FL-160 DeRomer Super Flysh | | 9,80 | 850,50 215,60 704,401 |
| I DRIVER | HANDLING CON | <u>6737,254</u> | 2148 | 1828,30 1828,30 1603 114 |
| REMARKS: Aug 12 All super Flush , mix 1 Losts ASC | .616 | ,5Î | TOTAL | 16754,94 |
| Josh purpand Line clean, Displace Lug 8004 LIFT pressure, 17004 Land | * | SERVICE | • | • |
| Olig, DRU DV 7002 60074, Plug Pat ale 30 Sts mix 430 sts down 4/2. "asing, Wash Pump and Line cher Rillose | - DEPTH OF JOB | <u>4645'</u> . 108@ | 120 2 - | 7151,25 |
| dug, Displace 850th LIPT, 1600th land | MILEADE Hase | 23 Miles @ | 2.20 | 15410D 225.00 |
| Thank you | Litevehicle | | 440 | 88100 |
| STREET PO BOX 109.3 | | | TOTAL | 5189,00 |
| TITY Granden STATE K.S ZIP 62844 | S PLUG | & FLOAT E | QUIPMENT | r - i |
| | 4/2 I AFy Flict St | 10 C · G | | 382.59 |
| To: Ailied Oil & Gas Services, LLC. | 1 Latch down Au Basket | G | · | 272.61 |
| You are hereby requested to rent comenting equipment and furnish comenter and helper(s) to assist owner or | outralizers | @ @ | 56,16 | 505.44 |
| contractor to do work as is listed. The prove work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL | | المربونة مسترقر | | 386,45 |
| TERMS AND CONDITIONS" listed on the reverse side. | SALES TAX (If Any). TOTAL CHARGES | <u>1586.</u> 27 | <u>65</u> 830.7 | 39 |
| PRINTED NAME CUVIS DE Keil | DISCOUNT | 1802. | <i>.</i> | IN 30 DAYS |
| SIGNATURE Canto 1911 | , | , Pid | 8.06. 249 | \mathcal{D} |
| . (Gree | t Job |). | 0. | - |

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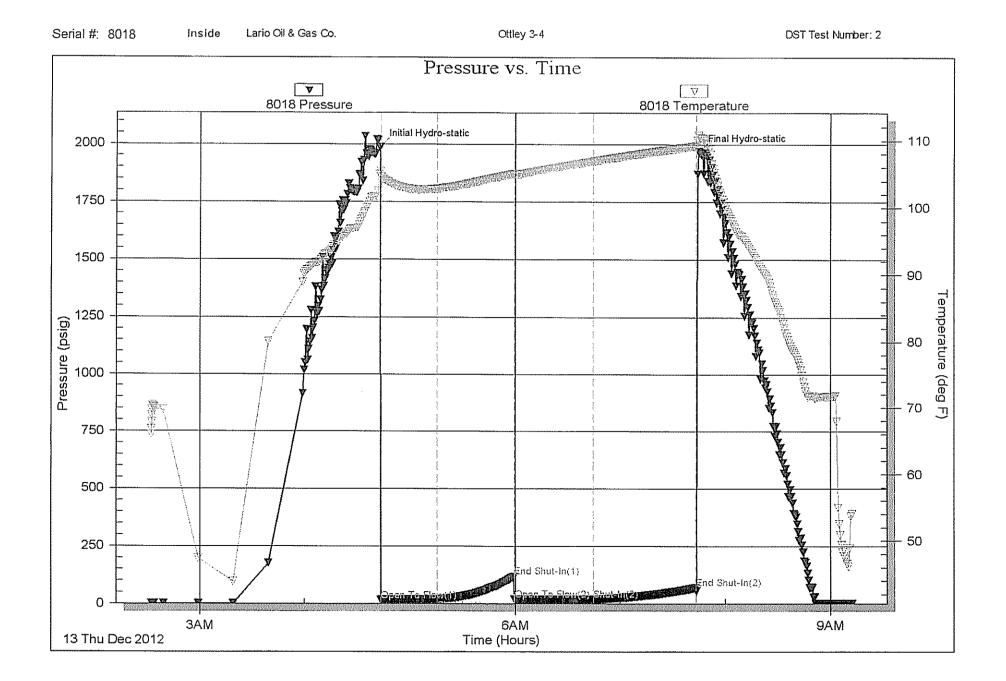
| | DRILL STEM TES | TREP | ORT | | | | |
|---|---|------------------------|---|-------------------|-----------------------------------|---------------------|-----------------------------------|
| RILOBITE | Lario Oil & Gas Co. | | 4-13: | s-31w-(| Gove KS | · · · · · | |
| ESTING , INC. | 301 S Market ST. | | Ottle | ey 3-4 | | | |
| | Wichita KS 67202 | | Job Ti | icket: 51 | 403 | DST | #:1 |
| | ATTN: Steve Murphy | | Test S | Start: 20 | 12.12.12 @ | 04:41:53 |) |
| GENERAL INFORMATION: | | | | <u> </u> | | | |
| Formation:TorontoDeviated:NoWhipstock:Time Tool Opened:07:17:23Time Test Ended:12:06:32 | ft (KB) | | Test T Tester Unit N | r: 1 | Conventional Fate Lang 62 | Bottom I | Hole (Initia!) |
| Interval:3960.00 ft (KB) To39Total Depth:3986.00 ft (KB) (TVHole Diameter:7.88 inchesHole | | | Refere | ence Ele KB to | vations: o GR/CF: | 2938.0 | 00 ft (KB) 00 ft (CF) 00 ft |
| Serial #:8018InsidePress@RunDepth:136.65 psigStart Date:2012.12.12Start Time:04:41:55 | 3951.00 ft (KB) End Date: End Time: | 2012.12.12 12:06:33 | Capacity: Last Calib.: Time On Bti Time Off Bt | m: 2 | 2 2012.12.12 @ 2012.12.12 @ | 012.12.1 07:17:1 | 13 |
| FSI-Dead no reut | n. caught ear on head unscrew ed fro rn | om D.P Stror | - | | | | |
| Pressure vs. T Diffresses | DIG DIG Terrorization | Time | | | E SUMMA | | |
| | 7 half regime line | (Min.) | (psig) (| Temp (deg F) | Annotatior | | |
| | 10 | 0 | | | Initial Hydro- Open To Flo | | |
| | | 29 | 70.70 | 114.55 | Shut-In(1) | | |
| | | 76 77 | | | End Shut-In Open To Flo | | |
| | | 120 | 136.65 | | Shut-In(2) | · · · | |
| | | 179 179 | | | End Shut-In(Final Hydro- | | |
| Recovery | | | | Gas | Rates | ***** | |
| Length (fl) Description | Volume (bbl) | | | Chole (in | | (psig) | Gas Rale (Mcf/d) |
| 258.00 5%M 95%W | 3.62 | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Trilobite Testing, Inc | Ref. No: 51403 | | | | 2012.12.12 @ | | |

| RILOBIT | c I | DRI | LL STE | M TEST F | REPORT | *** | | FLUID S | UMMARY |
|---|--------------------------------------|------------------------|---------------------|---|-----------------------------|-------------------|----------------------------|---------|----------------|
| | | Lario C | il & Gas Co. | | | 4-13s-31w | -Gove KS | <u></u> | |
| ESTIN | | Varket ST. KS 67202 | | | Ottley 3-4 Job Ticket: { | | DST#:1 | | |
| | | ATTN: | Steve Murpl | hy | | | 2012.12.12 @ (| | |
| Mud and Cushion Inform | nation | | | | | | | | |
| Mud Type:Gel ChemMud Weight:9.00 lb/gaViscosity:46.00 sec/Water Loss:6.79 in³Resistivity:ohmSalinity:2000.00 ppmFilter Cake:1.00 inch | (qt m | | Cush Cush Gas | nion Type: nion Length: nion Volume: Cushion Type: Cushion Pressure | : | ft bbl psig | Oil API: Water Salinity | : | deg APi ppm |
| Recovery Information | | | D | | | | | | |
| | Lengti | h | | overy Table | | Volume | 7 | | |
| | ft | 258.00 | 5%M 95%W | | | bbl 3.619 | - | | |
| Total L | ength: | | | otal Volume: | 3.619 bbl | 0.010 | 식 | | |
| Labora | luid Sampl atory Nama ery Comm | e: | La | um Gas Bombs: aboratory Location 40 F = 35000 | 0 r: | Serial # | | | |
| | | | | | | | | | |



| RILOBITE | | ST REP | | <u> </u> | A 1 1 1 | |
|--|---|---|---|---|---|---|
| TESTING, INC. | Lario Oil & Gas Co. | | | | Gove KS | |
| | 301 S Market ST. Wichita KS 67202 | | | ley 3-4 Ticket: 51 | 404 | DST#: 2 |
| | ATTN: Steve Murphy | | Tes | t Start: 20 |)12.12.13 @ | 02:31:53 |
| GENERAL INFORMATION: | | | | | | . 'o |
| Formation:LCK "D"Deviated:NoWhipstock:Time Tool Opened:04:43:13Time Test Ended:09:12:13 | ft (KB) | | Tes | ter: | Conventiona Tate Lang 32 | l Bottom Hole (Reset) |
| Interval: 4060.00 ft (KB) To 40 Total Depth: 4078.00 ft (KB) (T Hole Diameter: 7.88 inchesHok | | | Ref | erence Ele KB t | evations: o GR/CF: | 2944.00 ft (KB) 2935.00 ft (CF) 9.00 ft |
| Serial #: 8018 Inside Press@RunDepth: 18.98 psig Start Date: 2012.12.13 Start Time: 02:31:55 TEST COMMENT: IF-Weak surface ISI-Dead no retur FF-Dead no blow | End Date: End Time: blow built to 1/4 in. | 2012.12.13 09:12:13 | Capacity Last Calil Time On Time Off | o.: Btm: 2 | 2012.12.13 @ 2012.12.13 @ | - |
| FSI-Dead no retu | irn | · [| | | | |
| Pressure vs. 3 | TITTC COTO Terryostikure | Time | PF Pressure | RESSUR Temp | E SUMMA Annotatio | |
| F 1 ¥7 1 . A | | (Min.) 0 1 33 77 77 77 122 | (psig) 1986.56 15.88 18.17 118.42 18.36 18.98 68.51 1966.74 | (deg F) 105.40 104.63 102.82 105.05 | Initial Hydro Open To Fid Shut-In(1) End Shut-In Open To Fid Shut-In(2) End Shut-In | -static ow (1) (1) ow (2) (2) |
| Recovery | | | | Ga | s Rates | <u> </u> |
| Length (It) Description | Volume (bbł) | | | Choke (ii | nches) Pressur | e (psig) Gas Rate (Mcf/d) |
| 1.00 100%M w ith oil spots | 0.01 | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| * Recovery from multiple tests | l | 1 | | | | |

| (DA) | RILOBITE | DRILLS | STEM TEST REPO | ORT | | FLUID SUMMAR |
|--------------|---|-------------------------------|--|---------------------|---------------------------------------|--------------|
| NEW | | Lario Oil & Gas | s Co. | 4-13s-3 | 1w-Gove KS | |
| | ESTING , INC | 301 S Market Wichita KS 67 | | Ottley Job Ticke | 3-4 et: 51404 | DST#:2 |
| | | ATTN: Sleve | Murphy | Test Star | rt: 2012.12.13 @ C |)2:31:53 |
| Mud and C | Cushion Information | | | | · · · · · · · · · · · · · · · · · · · | |
| Mud Type: | Gel Chem | | Cushion Type: | | Oil API: | deg API |
| Mud Weight: | 9.00 lb/gal | | Cushion Length: | ft | Water Salinity: | : ppm |
| Viscosity: | 50.00 sec/qt | | Cushion Volume: | bbl | | |
| Water Loss: | 7.20 in* | | Gas Cushion Type: | | | |
| Resistivity: | ohm.m | | Gas Cushion Pressure: | psig | | |
| Salinity: | 2200.00 ppm | | | | | |
| Filter Cake: | 1.00 inches | | | | | |
| Recovery | Information | | | | | |
| | | | Recovery Table | | | |
| | Leng ft | | Description | Volum bbl | | |
| | | 1.00 100% | M w ith oil spots | 0 | .014 | |
| | Total Length: | 1.00 ft | Total Volume: 0.01 | 4 bbl | | |
| | Num Fluid Sam Laboratory Nar Recovery Com | ne: | Num Gas Bombs: 0 Laboratory Location: | Serì | al #: | |
| | | | | | | |
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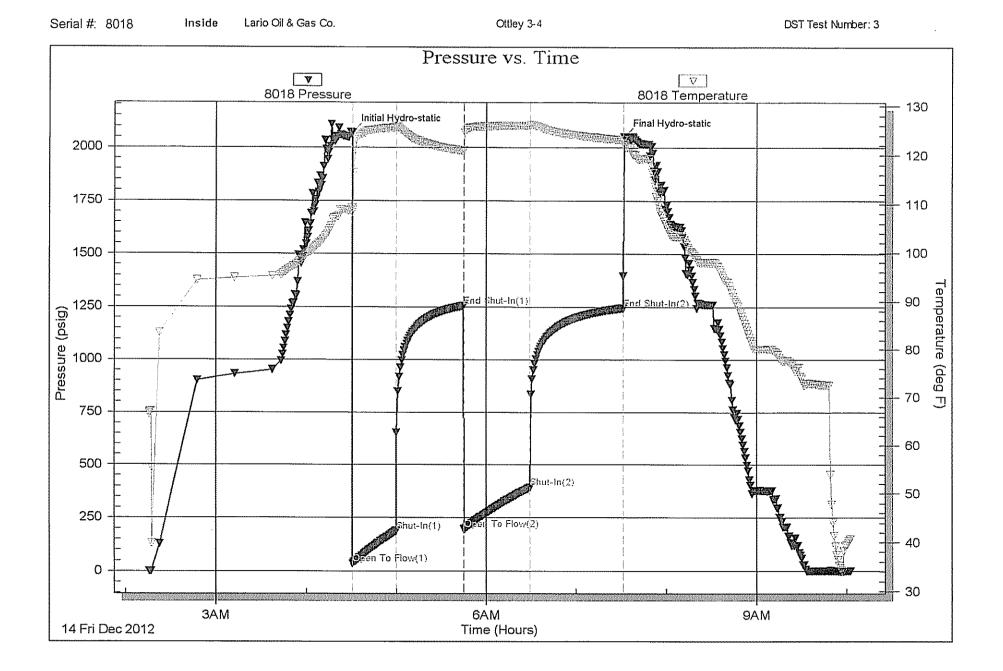


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| | DRILL STEM TES | ST REP | ORT | | | · · · · · · · · · · · · · · · · · · · | | |
|---|---|------------------------|--|---------------------|---|---------------------------------------|--|--|
| RILOBITE | Lario Oil & Gas Co. | | | 4-13s-31w-Gove KS | | | | |
| ESTING, INC | 301 S Market ST. | | | ey 3-4 | | | | |
| | Wichita KS 67202 | | | y 3-4 icket: 514 | 05 05 | T#:3 | | |
| | ATTN: Steve Murphy | | | | 2.12.14 @ 02:15: | | | |
| GENERAL INFORMATION: | ······· | | | ····· | | | | |
| Formation: LKC "J" | | | | | | | | |
| Deviated: No Whipstock: Time Tool Opened: 04:30:29 Time Test Ended: 10:02:29 | ft (KB) | | Test T Teste Unit N | r: Ta | onventional Botton ite Lang | n Hole (Reset) | | |
| Interval: 4194.00 ft (KB) To 42 Total Depth: 4220.00 ft (KB) (TV 42000 ft (KB) (TV) | /D) | | Refer | ence Eleva | 2935 | 4.00 ft (KB) 5.00 ft (CF) | | |
| Hole Diameter: 7.88 inchesHole | Condition: Good | | | KB to | GR/CF: 9 | 9.00 ft | | |
| Serial #: 8018 Inside Press@RunDepth: 392.90 psig Start Date: 2012.12.14 Start Time: 02:15:31 | @ 4195.00 ft (KB) End Date: End Time: | 2012.12.14 10:02:29 | Capacity: Last Calib.: Time On Bl Time Off Bt | m: 20 | 8000 2012.12 12.12.14 @ 04:30 12.12.14 @ 07:31 |):19 | | |
| TEST COMMENT: IF-B.O.B. In 5 min ISI-Weak surface FF-B.O.B. In 8 mi FSI-Dead no retu | e return blow died in 35 mins. ns. | | | | | | | |
| Pressure vs. T (F) (Dia fresses | ime Du Terrenzue | | PRE | SSURE | SUMMARY | | | |
| | 2010 Terrestature / but inventorie | Time (Min.) | | Temp deg F) | Annotation | | | |
| | | 0 | 2069.68 | 109.19 lr | nitial Hydro-static | | | |
| | 10 | 1 30 | | 108.21 C | Open To Flow (1) | | | |
| | | 75 | | | and Shut-In(1) | | | |
| | | 75 | | | Open To Flow (2) | | | |
| | | 119 182 | | 126.06 S | Shut-In(2) Ind Shut-In(2) | | | |
| | | 182 | E E | F | inal Hydro-static | | | |
| | | | | | | | | |
| | | | | | | | | |
| E <mark>lasona anna an Anna Anna Anna Anna Anna Ann</mark> | oc - <mark>E_{rentenen} herringen son son son son son son son son son so</mark> | | | | | | | |
| Recovery | | - | | Gael | Rates | | | |
| Length (fl) Description | Volume (bbl) | | T | Choka (inch | | Gas Rate (Mcf/d) | | |
| 124.00 2%G 10%M 88%W | 1.74 | 1 | L | - | L | _ | | |
| 702.00 2%G 3%M 95%W | 9.85 | | | | | | | |
| 0.00 62' GIP | 0.00 | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| * Recovery from multiple tests | | | | | | | | |
| Trilobite Testing, Inc | Ref. No: 51405 | .1 | <u></u> | Printed: 20 |)12.12.14 @ 11:5 | 7-52 | | |

Printed: 2012.12.14 @ 11:57:52

| RILOBITE | DRI | LL STEM TEST REPOR | T | | FLUID SUMM | IARY |
|---|--------------------------------------|----------------------------------|---------------------------------|----------------------------|------------|---------|
| | Lario C | Dil & Gas Co. | 4-13s-31w | -Gove KS | | |
| TESTING , INC | 301 S Market ST. Wichita KS 67202 | | Ottley 3-4 Job Ticket: 51405 | | DST#:3 | |
| | ATTN | ATTN: Steve Murphy | | 2012.12.14 @ (| | |
| «ի≁ս∦. | | | | | | |
| Mud and Cushion Information | | | | | | |
| Mud Type: Gel Chem Mud Weight: 9.00 lb/gal | | Cushion Type: Cushion Length: | ft | Oil API: Water Salinity | | |
| Viscosity: 58.00 sec/qt | | Cushion Volume: | bbl | vvater Gainity | . pn | |
| Water Loss: 6.80 in ^a | | Gas Cushion Type: | | | | |
| Resistivity: ohm.m Salinity: 3000.00 ppm | | Gas Cushion Pressure: | psig | | | |
| Filter Cake: 1.00 inches | | | | | | |
| Recovery Information | | nterestertentententententente | | | | |
| | | Recovery Table | | | | |
| Leng | llh | Description | Volume bbl | | | |
| | 124.00 | 2%G 10%M 88%W | 1.73 | ~ 1 | | |
| | 702.00 | 2%G 3%M 95%W 62' GIP | 9.84 0.00 | | | |
| Total Length: | | .00 ft Total Volume: 11.586 bbl | 0.00 | 4 | | |
| Num Fluid Sam | | Num Gas Bombs: 0 | Serial # | . . | | |
| Laboratory Nar | | Laboratory Location: | Jeliai# | • | | |
| Recovery Com | ments: Al | PIRW .320 @ 40F= 39000 | | | | leg API |
| | | | | | | |
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Ref. No: 51405

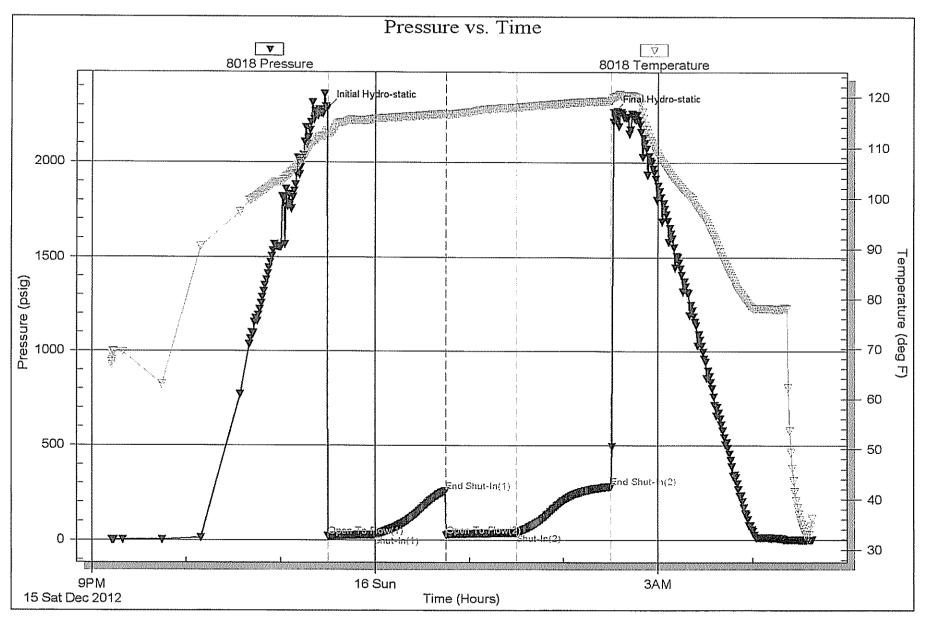
Printed: 2012.12.14 @ 11:57:57

| RILOBITE | DRILL STEM TES | ST REP | ORT | | | |
|---|--------------------------------------|------------------------|-------------------------------------|---------------------------------------|--------------------------------|----------------------------|
| | Lario Oil & Gas Co. | 4-13s-31w-Gove KS | | | | |
| ESTING , INC. | 301 S Market ST. Wichita KS 67202 | | | ley 3-4 | | |
| | | | | Ticket: 5 | | DST#:4 |
| | ATTN: Steve Murphy | | les | |)12.12.15 @ | |
| GENERAL INFORMATION: | | | | | | |
| Formation:JohnsonDeviated:NoWhipstock:Time Tool Opened:23:29:40Time Test Ended:04:37:59 | ft (KB) | | Tes | ter: | Conventiona Tate Lang 62 | l Bottom Hole (Reset) |
| Interval: 4496.00 ft (KB) To 456 | | | Ref | erence 🖽 | evations: | 2944.00 ft (KB) |
| Total Depth:4564.00 ft (KB) (TVHole Diameter:7.88 inchesHole | | | | KB t | o GR/CF: | 2935.00 ft (CF) 9.00 ft |
| Serial #: 8018 Inside | | | | | ····· | ····· |
| Press@RunDepth: 36.45 psig (| | | Capacity | | | 8000.00 psig |
| Start Date: 2012.12.15 Start Time: 21:12:22 | End Date: End Time: | 2012.12.16 04:38:00 | Last Calil Time On | | ; 2012.12.15 (| 2012.12.16 ര 23:29:20 |
| | | | Time Off | | 2012.12.16 (| |
| ISI-Dead no return FF-B.O.B. in 45 m FSI-Dead no retur Pressure vs. Tu | ins. n blow. | | | | | |
| Mil Pressure V2. 11 | ne <u>(V)</u> (010 Tenyessus | Time | Pressure | Temp | RE SUMMA | |
| | | (Min.) 0 1 30 | (psig) 2283.58 20.36 26.62 | (deg F) 113.26 112.52 115.60 | Initial Hydro Open To Fl | o-static |
| | | 75 76 | 257.75 24.89 | | End Shut-In Open To Fl | |
| | POPERATIVE (Greg 7) | 121 | 36.45 | | Shut-In(2) | ow (2) |
| | | 181 183 | 281.06 2262.42 | 119.22 119.88 | 6 | |
| | | | | | | |
| Recovery | | | | Ga | s Rates | |
| Length (fl) Description | Volume (bbl) | | | Choke (i | | e (psig) Gas Rate (Mcf/d) |
| 52.00 5%G 35%O 60%M | 0.73 | | | | | ······ |
| 0.00 72 G.I.P. | 0.00 | | | | | |
| | | | | | | |
| | | | | | | |
| * Recovery from multiple tests | | | | | | |
| Trilobite Testing, Inc | Ref. No: 51406 | 1 | | Printed | 2012.12.16 | መ |

| TESTING , INC 301 S Market ST. Wichita KS 67202 Ottley 3-4 Job Ticket: 51406 ATTN: Steve Murphy Test Start: 2012.12.15 @ 21:12:20 | | | DRII | DRILL STEM TEST REPORT | | | | FLUID SUMMAR | | | |
|--|-------------|--------------------|---------|------------------------|-----------|---------------|-----------------|--------------|---------|--|--|
| Wichita KS 67202 Job Ticket: 51406 DST#:4 ATTN: Steve Murphy Test Start: 2012.12.15 @ 21:12:20 Mud and Cushion Information Mud Type: Gel Chem Oil API: deg API Aud Weight: 9.00 lb/gal Cushion Length: ft Water Satinity: ppm Aud Weight: 9.00 lb/gal Cushion Volume: bbl bbl vater Loss: 7.99 in* Gas Cushion Type: Resistivity: ohm.m Gas Cushion Pressure: psig psig psig Satinity: 3000.00 ppm Test Start: psig psig Satinity: 3000.00 ppm Etercovery Table Ecovery Table Ecovery Table Total Length: 52.00 ft Total Volume: 0.729 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: Serial #: | | | | Lario Oil & Gas Co. | | | -Gove KS | <u> </u> | | | |
| Mud and Cushion Information Aud Type: Gel Chem Cushion Type: Oil API: deg API Aud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: ppm Aud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: ppm /iscosity: 54.00 sec/qt Cushion Volume: bbl bbl vater Salinity: ppm Vater Loss: 7.99 in ³ Gas Cushion Type: Bobl Bobl <td></td> <td>ESTING , INC</td> <td>00101</td> <td colspan="3"></td> <td>1406</td> <td>DST#:4</td> <td></td> | | ESTING , INC | 00101 | | | | 1406 | DST#:4 | | | |
| Aud Type: Gel Chem Cushion Type: Oil AP: deg API Aud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: ppm /iscosity: 54.00 sec/qt Cushion Volume: bbl Vater Loss: 7.99 in ³ Gas Cushion Type: Resistivity: ohm.m Gas Cushion Pressure: psig Salinity: 3000.00 ppm Filter Cake: 1.00 inches Recovery Information Recovery Table Length Description Volume bbl 52.00 5%G 35%O 60%M 0.729 0.00 72 G.I.P. 0.000 Total Length: 52.00 ft Total Volume: 0.729 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: | | | ATTN: | Steve Murphy | | Test Start: 2 | 012.12.15 @ 2 | 1:12:20 | | | |
| Aud Weight: 9.00 lb/gal Cushion Length: ft Water Satinity: ppm /iscosity: 54.00 sec/qt Cushion Volume: bbl Nater Loss: 7.99 in³ Gas Cushion Type: Resistivity: ohm.m Gas Cushion Pressure: psig Satinity: 3000.00 ppm Filter Cake: 1.00 inches Recovery Information Recovery Table Length Description Volume bbl 52.00 5%G 35%O 60%M 0.729 0.00 72 G.LP. 0.000 Total Length: 52.00 ft Total Volume: 0.729 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: | lud and C | ushion Information | | | | | | | | | |
| /iscosily: 54.00 sec/qt Cushion Volume: bbl Nater Loss: 7.99 in³ Gas Cushion Type: Resistivity: ohm.m Gas Cushion Pressure: psig Salinity: 3000.00 ppm Filter Cake: 1.00 inches Recovery Information Recovery Table Length Description Volume ft Description Volume bbl 52.00 5%G 35%O 60%M 0.729 0.00 72 G.I.P. 0.000 Total Length: 52.00 ft Total Volume: 0.729 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: | Nud Type: G | | | | | | Oil A PI: | | deg API | | |
| Water Loss: 7.99 in ³ Gas Cushion Type: Resistivity: ohm.m Gas Cushion Pressure: psig Salinity: 3000.00 ppm itter Cake: 1.00 inches Recovery Information Recovery Table Volume bbl Ít Description Volume bbl 52.00 5%G 35%O 60%M 0.729 0.00 72 G.I.P. 0.000 Total Length: 52.00 ft Total Volume: 0.729 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: Serial #: | - | - | | _ | | | Water Salinity: | | ppm | | |
| Resistivity: ohm.m Gas Cushion Pressure: psig Salinity: 3000.00 ppm Filter Cake: 1.00 inches Recovery Information Recovery Table Length Description Volume ft Description 0.729 0.00 72 G.I.P. 0.000 Total Length: 52.00 ft Total Volume: 0.729 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: | * | | | | | bbl | | | | | |
| Salinity: 3000.00 ppm Filter Cake: 1.00 inches Recovery Information Recovery Table Length Description Volume bbl 52.00 5%G 35%O 60%M 0.729 0.00 72 G.I.P. 0.000 Total Length: 52.00 ft Total Volume: 0.729 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: | | | | | | | | | | | |
| Filter Cake: 1.00 inches Recovery Information Recovery Table Length Description Volume ft Description 0.729 0.00 72 G.I.P. 0.000 Total Length: 52.00 ft Total Volume: 0.729 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: Content for the series of th | | | | Gas Cushion Pressure: | | psig | | | | | |
| Recovery Table Length Description Volume ft 0.00 5%G 35%O 60%M 0.729 0.00 72 G.I.P. 0.000 Total Length: 52.00 ft Total Volume: 0.729 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: 0 Serial #: | - | | | | | | | | | | |
| Length ftDescriptionVolume bbl52.005%G 35%O 60%M0.7290.0072 G.I.P.0.000Total Length:52.00 ftTotal Volume:0.729 bblNum Fluid Samples: 0Num Gas Bombs:0Laboratory Name:Laboratory Location: | Recovery li | nformation | | Recovery Table | | | | | | | |
| ft bbl 52.00 5%G 35%O 60%M 0.729 0.00 72 G.I.P. 0.000 Total Length: 52.00 ft Total Volume: 0.729 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: Laboratory Laboratory | | Lon | ath 1 | - | 1 | Veluere | 1 | | | | |
| 0.00 72 G.I.P. 0.000 Total Length: 52.00 ft Total Volume: 0.729 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Laboratory Name: Laboratory Location: Laboratory | | f | t l | Description | | | | | | | |
| Total Length: 52.00 ft Total Volume: 0.729 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: | | | 52.00 | 5%G 35%O 60%M | | 0.729 | | | | | |
| Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: | | | 0.00 | 72 G.LP. | | 0.000 | | | | | |
| Laboratory Name: Laboratory Location: | | Total Length: | 52.0 | 0 ft Total Volume: | 0.729 bbl | | | | | | |
| | | Num Fluid San | ples:0 | Num Gas Bombs: 0 | 1 | Serial #: | | | | | |
| Recovery Comments: | | Laboratory Na | ime: | Laboratory Location: | | | | | | | |
| | | Recovery Con | nments: | | | | | | | | |
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DST Test Number: 4



Trilobite Testing, Inc

Printed: 2012.12.16 @ 06:52:20