

| Co | onfiden | tiality | / Requested: |
|----|---------|---------|--------------|
| | Yes | N | lo |

Kansas Corporation Commission Oil & Gas Conservation Division

1191170

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

Page Two



| Operator Name: | | | Lease Name: | | | Well #: | |
|---|---------------------------|--|--------------------------------|-------------------|----------------------|--|-------------------------------|
| Sec Twp | S. R | East West | County: | | | | |
| open and closed, flow | ing and shut-in pressu | ormations penetrated. Dures, whether shut-in pre ith final chart(s). Attach | ssure reached stati | c level, hydrosta | tic pressures, bott | | |
| | | tain Geophysical Data a r newer AND an image f | | gs must be ema | iled to kcc-well-log | gs@kcc.ks.gov | . Digital electronic log |
| Drill Stem Tests Taken (Attach Additional S | | Yes No | | | n (Top), Depth an | | Sample |
| Samples Sent to Geol | ogical Survey | ☐ Yes ☐ No | Nam | 9 | | Тор | Datum |
| Cores Taken Electric Log Run | | ☐ Yes ☐ No ☐ Yes ☐ No | | | | | |
| List All E. Logs Run: | | | | | | | |
| | | CASING | RECORD Ne | w Used | | | |
| | | Report all strings set-o | | | 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 | I | 1 | |
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | | Type and Po | ercent Additives | |
| Perforate Protect Casing Plug Back TD | тор вошот | | | | | | |
| Plug Off Zone | | | | | | | |
| Does the volume of the to | • | n this well? aulic fracturing treatment ex submitted to the chemical o | | Yes [Yes [Yes [| No (If No, ski) | o questions 2 and question 3) out Page Three | |
| Shots Per Foot | | N RECORD - Bridge Plug | | | cture, Shot, Cement | | |
| S.13.6 Y 3. Y 33. | Specify Fo | ootage of Each Interval Perf | orated | (Ar | nount and Kind of Ma | terial Used) | Depth |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| TUBING RECORD: | Size: | Set At: | Packer At: | Liner Run: | Yes No | | |
| Date of First, Resumed | Production, SWD or ENH | IR. Producing Meth | | Gas Lift C | other (Explain) | | |
| Estimated Production Per 24 Hours | Oil B | bls. Gas | Mcf Wate | er Bl | bls. G | ias-Oil Ratio | Gravity |
| | | | | T.O. | | DE 0-11- | |
| DISPOSITION Vented Sold | ON OF GAS: Used on Lease | Open Hole | METHOD OF COMPLE Perf. Dually | | nmingled | PRODUCTIO | ON INTERVAL: |
| (If vented, Sub | | Other (Specify) | (Submit A | | mit ACO-4) | | |

| Form | ACO1 - Well Completion |
|-----------|--|
| Operator | SandRidge Exploration and Production LLC |
| Well Name | Bleumer 2630 3-13H |
| Doc ID | 1191170 |

Perforations

| Shots Per Foot | Perforation Record | Material Record | Depth |
|----------------|--------------------|---|-----------|
| | | Acid Treatment: 71 bbls gel, 36 bbls NEFE HCI, flush 54 bbls Linear Gel -20# | 6903-6918 |
| | | Acid Treatment: 71 bbls Linear Gel, 36 bbls NEFE HCI 15%, 54 bbls Linear Gel - 20# | 6873-6888 |
| | | Acid Treatment: 71 bbls Linear gel, 36 bbls NEFE 15% Acid gel, 54 bbls Linear Gel - 20# | 6843-6858 |
| | | Acid Treatment: 71 bbls Linear gel, NEFE HCI 15% Acid Gel, 67 bbls Linear gel - 20# | 6252-6267 |
| | | Acid Treatment: 91 bbls Linear Gel, 36 bbls, NEFE HCl 15% Acid, 41 bbls Linear gel -20# | 6222-6237 |
| | | Acid Treatment: 71 bbls Linear Gel, 12 bbls NEFE 15% Acid, 71 bbls Linear Gel - 20# | 5991-6006 |

| Form | ACO1 - Well Completion |
|-----------|--|
| Operator | SandRidge Exploration and Production LLC |
| Well Name | Bleumer 2630 3-13H |
| Doc ID | 1191170 |

Perforations

| Shots Per Foot | Perforation Record | Material Record | Depth |
|----------------|--------------------|---|-----------|
| | | Acid Treatment: 71 bbls Linear Gel, 12 bbls NEFE HCI 15% Acid Gel, 71 bbls Linear Gel - 20# | 5976-5991 |

| Form | ACO1 - Well Completion |
|-----------|--|
| Operator | SandRidge Exploration and Production LLC |
| Well Name | Bleumer 2630 3-13H |
| Doc ID | 1191170 |

Casing

| Purpose Of String | Size Hole Drilled | Size Casing Set | Weight | Setting Depth | Type Of Cement | | Type and Percent Additives |
|----------------------|----------------------|-----------------------|--------|------------------|-------------------|-----|----------------------------------|
| Conductor | 30 | 20 | 75 | 120 | Redi-mix Grout | 10 | see report |
| Surface | 12.25 | 9.625 | 36 | 1572 | Grade A | 747 | see report |
| Intermedia te | 8.75 | 7 | 26 | 5787 | Grade A | 365 | see report |
| | | | | | | | |

ALLIED OIL & GAS SERVICES, LLC 059994 Federal Tax I.D.# 20-5975804

| REMIT TO P.O. BOX 93999 | SERVICE POINT: |
|---|---|
| SOUTHLAKE, TEXAS 76092 | medicine Louse, Ks |
| | 11-9 11-10 11-10 |
| DATE 11-18 2013 SEG 4 TYP RANGE 30W CA | LLED OUT ON LOCATION JOB START JOB FINISH 0100 Pm 4100 Pm 7100 Pm 8.30 AB |
| Bleumer 2 1211 | |
| LEASE 2630 WELL & 3-13H LOCATION LINGGI | SIKS South on RX Grav Ks |
| OLD OR (NEW) Circle one) 11 to Pa P. 4 | IW, Slines 101 Til |
| | |
| CONTRACTOR NOM9C 片52 | OWNER SGNARILGE Energy |
| TYPE OF JOB SUIFGIE | |
| HOLE SIZE 1214 T.D. 1571' | CEMENT |
| CASING SIZE 75/8 36# DEPTH 1577' | AMOUNT ORDERED 5258x 65:38:6% |
| TUBING SIZE DEPTH | Ge1 +240CC + 14 # Floses1 , 2155x Class A+240CC+ 14 # Floses1 |
| DRILL PIPE DEPTH | 0)965 A+290CL+ 14# Floses1 |
| TOOL DEPTH | |
| PRES. MAX 2,000ps. MINIMUM | COMMON C1955 12 2155 2 17.90 3,848,50 |
| MEAS, LINE SHOE JOINT 43' | POZMIX@ |
| CEMENT LEFT IN CSG. | GEL @ |
| PERFS. | CHLORIDE 185x @ 64,80 1,152 00 |
| DISPLACEMENT 1/8 bbls Of fresh weren | ASC @ |
| EQUIPMENT | ALU Type 1 5255x @ 16,50 8,662,50 |
| ~ | Floses 186 lbs @ 2,97 552,42 |
| PUMPTRUCK CEMENTER DGnn 15. | Sugar 80165 @ 1.00 80.00 |
| #548 (545) HELPER JGIC 17, | @ |
| RIII K TÜLICK | |
| # 421-290 DRIVER JESSE C. 3 | |
| BUILK TRUCK | |
| #381-252 DRIVER CGr) R. 3 | 0 |
| | HANDLING 824, 10 WFs @ 2,48 2043,77 |
| | MILEAGE 1402,56 ton mile 260 31646,66 |
| REMARKS: | TOTAL 19, 985,85 |
| Ω 10. | 1.1 24 |
| rife on hotton a presk ciralistion | LLO.K. |
| Pressur test to 2 mosse. Oung tables | 1402.56 TOTAL 19, 485,85 |
| Pressure test to 2,000psr. Pump tobbis | 140 Kir SERVICE |
| Pressur test to 2,000psr, pump 10bhls water, mry 525st lead Cement, 215sx | DERTICE |
| Pressur test to 2,000psr, pump 10bhls water, mry 525st lead Cement, 215sx | DEPTH OF JOB 1872' |
| Pressur test to 2,000psr, pump 10bhls Water, mry 525st lead Cement, 215st tall Cement, Shut Down, Poletse plus Start dis Placement, Slow rate to 3hen | DEPTH OF JOB 1572' PUMP TRUCK CHARGE 22/3 75 |
| Pressur test to 2,000psr, pump 10bhls Water, mry 525st lead Cement, 215st tall Cement, Shut Down, Poletse pluc Start dis Placement, Slow rate to 3hen at 110 hbls huma plua at 118 hbls | DEPTH OF JOB 1572' PUMP TRUCK CHARGE 22/3 75 EXTRA FOOTAGE @ |
| Pressur test to 2,000psr, pump 10bhls water, mix 525st lest cement, 215sx tall cement, shut down, faletse plus Star dis Placement, slow rate to 3ben at 110 bhis humo plus at 118 bhls boo- 1100 951, flort did helt, cement | DEPTH OF JOB 1572' PUMP TRUCK CHARGE 3213 75 EXTRA FOOTAGE @ 308,06 |
| Pressur test to 2,000psr, pump 10bhls Water, mry 525st lead Cement, 215st tall Cement, Shut Down, Poletse pluc Start dis Placement, Slow rate to 3hen at 110 hbls huma plua at 118 hbls | DEPTH OF JOB 1572' PUMP TRUCK CHARGE 22/3 75 EXTRA FOOTAGE @ 7.70 308,06 MANIFOLD Heggrents 1 @ 275,00 |
| Pressur fest to 2,000psr, pump 10bhls Water, mry 525st lest cement, 215st 1911 Cement, Shut Down, Paletse plus Start dis Placement, Slow rate to 3hem 9+ 110 bhis humo plus ge 118 hhis 600-1100 951, Flort dis helt, cement did Circulare 50 bhis to pit | DEPTH OF JOB 1572' PUMP TRUCK CHARGE 3213 75 EXTRA FOOTAGE @ 308,06 |
| Pressur fest to 2,000psr, pump 10bhls Water, mry 525st lest cement, 215st tall cement, shut down, faletse plus Star dis Placement, slow rate to 3ben at 110 bhis humo plus at 118 hhls boo-1100 951, flort dis helt, cement did circular 50 bhls to pit | DEPTH OF JOB 1572' PUMP TRUCK CHARGE 22/3 75 EXTRA FOOTAGE @ 7.70 308,06 MANIFOLD Heggrents 1 @ 275,00 |
| Pressur dest to 2,000pst, pump tobbis Water, mry 525st lest cement, 215st 4911 Cement, Shut Down, faletse plus Star dis Placement, Slow rate to 3ben 9+ 110 bhis humo plus gt 118 hhis 600-1100 951, Flort dis helt, cement did circulare 50 bhis to pit AFE Number: \$\int \lambda \l | DEPTH OF JOB 1572' PUMP TRUCK CHARGE 22/3 75 EXTRA FOOTAGE @ 7.70 308, 06 MILEAGE 40 @ 7.70 308, 06 MANIFOLD Hegdrenks @ 275,00 L1'8hr Veh'cle 40 @ 4.40 176,00 |
| Pressur fest to 2,000pst, pump 10bhls Water, mix 525sx less cement, 215sx toll cement, shut down, poletse plug Start dis Placement, slow rate to 3hpm 9+ 110 bhis bump plug 9+ 118 hhls boo- 1100 95i, flort dis hols, cement did circulare 50 bhis to pit AFE Number: 13327 CHANNER Name: 11cumel 2630 3-13H STREEDER: 830390 | DEPTH OF JOB 1572' PUMP TRUCK CHARGE 22/3 75 EXTRA FOOTAGE @ 7.70 308,06 MANIFOLD Heggrents 1 @ 275,00 |
| Pressur fest to 2,000pst, pump 10bhls Water, mry 525st lest cement, 21.5st +011 Cement, Shut Down, Polesse plus Start dis Placement, Slow rate to 3hen 9+ 110 bhls humo plus 9+ 118 hhls 600-1100 951, Flort dis hold, cement did Circuiere 50 bhls to pit AFE Number: 13327 CHARVER Name: Sleumer 2630 3-13H STREET | DEPTH OF JOB 1572' PUMP TRUCK CHARGE 22/3 75 EXTRA FOOTAGE @ 7.70 308, 06 MILEAGE 40 @ 7.70 308, 06 MANIFOLD Hegdrenks @ 275,00 L1'8hr Veh'cle 40 @ 4.40 176,00 |
| Pressur fest to 2,000pst, pump 10 bhls Water, mry 525sx Jest Cement, 215sx +011 Cement, Shut Down, Paletse plug Start dis Placement, Slow rate to 3hpm 9th 110 bhls hump plug 9th 118 hhls boor 1100 951, Flort dis hols, Cement did Circulare 50 bhls to pit AFE Number: 13327 CHARVAII Name: 1100mel 2630 3-1311 STREE. CODE: 830390 Amount: 231 3 149 CITYCO. Man: LARRANT LIVENTIP | DEPTH OF JOB 1572' PUMP TRUCK CHARGE 22/3 75 EXTRA FOOTAGE @ 7.70 308, 06 MILEAGE 40 @ 7.70 308, 06 MANIFOLD Hegdrenks @ 275,00 Li'8hr Vehicle 40 @ 4.40 176,00 TOTAL 2,972.75 |
| Pressur fest to 2,000pst, pump 10 bhls Water, mry 525sy Jest Cement, 215sy toll Cement, Shut Lown, Poletse plus Start dis Placement, Slow rate to 3hpm 9t 110 bhis hump plus 9t 118 bhls bpo-1100 psi, flort dis hols, cement did Circulare 50 bhls to pit AFE Number: 13327 CHARVER Name: SIEUMER 2630 3-BH STREEN Amount: 23143046 CITYCO. Man: LARRENTE IVENTIP CO. Man Sign Jump | DEPTH OF JOB 1572' PUMP TRUCK CHARGE 22/3 75 EXTRA FOOTAGE @ 7.70 308, 06 MILEAGE 40 @ 7.70 308, 06 MANIFOLD Hegdrenks @ 275,00 L1'8hr Veh'cle 40 @ 4.40 176,00 |
| Pressur fest to 2,000pst, pump 10 bhls Water, mry 525sr Jest Cement, 215sr +011 Cement, Shut Down, Paletse plug Start dis Placement, Slow rate to 3hpm 9+ 110 bhls hump plug 9+ 118 hhls 600-1100 951, Flort dis hols, Cement did Circulare 50 bhls to pit AFE Number: 13327 CHARVAI Name: 1120mel 2630 3-1311 STREE. COde: 830390 Amount: 231-3044 CITYCO. Man: LARRANT LIVENTIP | DEPTH OF JOB 1872' PUMP TRUCK CHARGE 2213.75 EXTRA FOOTAGE @ 7.70 308, 96 MILEAGE 40 @ 7.70 275,00 L'8h+ Veh'cle 40 @ 4.40 176,00 TOTAL 2,972.75 PLUG & FLOAT EQUIPMENT |
| Pressur fest to 2,000pst, pump 10 bhls Water, mry 525sy Jest Cement, 215sy toll Cement, Shut Lown, Poletse plus Start dis Placement, Slow rate to 3hpm 9t 110 bhis hump plus 9t 118 bhls bpo-1100 psi, flort dis hols, cement did Circulare 50 bhls to pit AFE Number: 13327 CHARVER Name: SIEUMER 2630 3-BH STREEN Amount: 23143046 CITYCO. Man: LARRENTE IVENTIP CO. Man Sign Jump | DEPTH OF JOB 1572' PUMP TRUCK CHARGE 22/3 75 EXTRA FOOTAGE @ |
| Pressure feet to 2,000pst, Pump tobbis Water, Mry 525st Jest Cement, 215st +011 Cement, Shut Down, Poletse plug Start dis Platement, Slow rate to 3hpm 9th 110 bhis hump plug 9th 118 hhis boor 1100 95i, Post dis hold, Cement did Circulare 50 bhis to pit AFE Number: 13327 CHARVEN Name: 1120mel 2630 3-1314 STREET. Amount: 23143 1449 CITYCO. Man: 1120kt | DEPTH OF JOB 1872' PUMP TRUCK CHARGE 2213.75 EXTRA FOOTAGE @ 7.70 308, 06 MILEAGE 40 @ 7.70 308, 06 MANIFOLD Hegdrents; @ 275,00 L'8h+ Veh,'cle 40 @ 4.40 174,00 TOTAL 2,972.75 PLUG & FLOAT EQUIPMENT 95/4 1-Pubher Plus @ 184,86 |
| Pressure fest to 2,000pst, Pump tobbis Water, Mry 525st Jest Cement, 215st +0.11 Cement, Shut Lown, Poletse plug Start dis Placement, Slow rate to 3hpm 9th 110 bhis hump plug 9th 118 hhis 600-1100 951, Flort dis hold, Cement did Circulate 50 bhis to pit AFE Number: 13327 CHARVEN Name: 1120mel 2630 3-1311 STREE LANGER STREET Amount: 231 13 144 CITYCO. Man: 2120 144 Notes: Notes: 1200 144 To: Allied Oil & Gas Services, LLC. | DEPTH OF JOB 1872' PUMP TRUCK CHARGE 2213 75 EXTRA FOOTAGE @ 7.70 308, 06 MILEAGE 40 @ 7.70 308, 06 MANIFOLD Hegdrents; @ 275,00 L1'8h2 Veh,'0le 40 @ 4,40 174,00 TOTAL 2,972.75 PLUG & FLOAT EQUIPMENT 95/L 1-Pubher Plug @ 184,86 |
| Pressure dest to 2,000pst, Pump tobbis Water, Mry 525st less Cement, 215st +0.11 Cement, Shut Lown, Poletse plus State dis Placement, Slow rate to 3hpm 9th 110 bhis hump plus 9th 118 hhis hoo- 1100 95i, Flort dis hold, Cement did Circulere 50 bhis to pit AFE Number: 13327 CHARVER Name: 1120mel 2630 3-1311 STREET Amount: 23143 1449 CON Man: 2412 1420 1420 1420 Notes: To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment | DEPTH OF JOB 1872' PUMP TRUCK CHARGE 2213.75 EXTRA FOOTAGE @ 7.70 308, 06 MILEAGE 40 @ 7.70 308, 06 MANIFOLD Hegdrents; @ 275,00 L1'8h2 Veh,'0le 40 @ 4,40 174,00 TOTAL 2,972.75 PLUG & FLOAT EQUIPMENT 95/L 1-Pubher Plug @ 184,86 |
| Pressure fest to 2,000pst, Pump tobbis Water, Mry 525st Jest Cement, 215st +0.11 Cement, Shut Lown, Poletse plug Start dis Placement, Slow rate to 3hpm 9th 110 bhis hump plug 9th 118 hhis 600-1100 951, Flort dis hold, Cement did Circulate 50 bhis to pit AFE Number: 13327 CHARVEN Name: 1120mel 2630 3-1311 STREE LANGER STREET Amount: 231 13 144 CITYCO. Man: 2120 144 Notes: Notes: 1200 144 To: Allied Oil & Gas Services, LLC. | DEPTH OF JOB 1872' PUMP TRUCK CHARGE 2213 75 EXTRA FOOTAGE @ 7.70 308, 06 MILEAGE 40 @ 7.70 308, 06 MANIFOLD Hegdrents; @ 275,00 L1'8h2 Veh,'0le 40 @ 4,40 174,00 TOTAL 2,972.75 PLUG & FLOAT EQUIPMENT 95/L 1-Pubher Plug @ 184,86 |
| Pressure dest to 2,000pst, Pump tobbis Water, Mry 525st less Cement, 215st +0.11 Cement, Shut Lown, Poletse plus State dis Placement, Slow rate to 3hpm 9th 110 bhis hump plus 9th 118 hhis hoo- 1100 95i, Flort dis hold, Cement did Circulere 50 bhis to pit AFE Number: 13327 CHARVER Name: 1120mel 2630 3-1311 STREET Amount: 23143 1449 CON Man: 2412 1420 1420 1420 Notes: To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment | DEPTH OF JOB 1572' PUMP TRUCK CHARGE 22/3 75 EXTRA FOOTAGE @ 7.70 308, 06 MILEAGE 40 @ 7.70 308, 06 MANIFOLD Heg drents: @ 275,00 Li'8hr Vehi'cle 40 @ 4,40 17600 TOTAL 2,972.75 PLUG & FLOAT EQUIPMENT 954, 1-2vbher Plus @ 184,86 |
| Pressure dest to 2,000pst, Pump tobbis Water, Mry 525sr Jest Cement, 215sr +0.11 Cement, Shut Down, Poletse plus Start dis Placement, Slow rate to 3hpm 9th 110 bhis hump plus 9th 118 hhis hoo- 1100 95i, Flort dis hold, Cement did Circulere 50 bhis to p.4 AFE Number: 13327 CHARVAII Name: 160mel 2630 3 BH STREE LANGUARD COMENTAL COMENTA | DEPTH OF JOB 1872' PUMP TRUCK CHARGE 2213.75 EXTRA FOOTAGE @ 7.70 308, 06 MILEAGE 40 @ 7.70 308, 06 MANIFOLD Hegdrents; @ 275,00 L1'8h2 Veh,'0le 40 @ 4,40 174,00 TOTAL 2,972.75 PLUG & FLOAT EQUIPMENT 95/L 1-Pubher Plug @ 184,86 |
| Pressure dest to 2,000pst, Pump tobbis Water, Mry 525sr Jest Cement, 215sr +0.11 Cement, Shut down, Poletse plus Start dis Placement, Slow rate to 3hpm 9th 110 bhis hump plus 9th 118 hhis hoo- 1100 95i, Flort dis helt, Cement did Circulere 50 bhis to p.4 AFE Number: 13327 CHARVAII Name: 124 AFE Number 2630 37 BH STREE LAMOUNT: 237 AFE AFE NUMBER 2630 37 BH CON Man Sign 144 AFE Number: 144 AFE Number: 154 AFE Number: 155 AFE Number: | DEPTH OF JOB 1572' PUMP TRUCK CHARGE 3213 75 EXTRA FOOTAGE @ 7.70 308, 06 MILEAGE 40 @ 7.70 308, 06 MANIFOLD Heg drents: @ 275,00 Libbar Vehicle 40 @ 4,40 176,00 TOTAL 2,972.75 PLUG & FLOAT EQUIPMENT 9 5/1 1-Pubher Plus @ 184,86 |
| Pressure dest to 2,000sst, Pump tobbis Water, Mry 525sr Jesa Cement, 215sr +011 Cement, Shut down, Poletse plus Start dis Platement, Slow rate to 3horn 9th 110 bhis hump plus 9th 118 hhis hoo- 1100 95i, Flort dis helt, Cement did Circulere 50 bhis to p.4 AFE Number: 13327 CHARVAII Name: 160mel 2630 3 BH STREE Co. Man: 170mel 2630 3 BH CITYCO. Man: 170mel 2630 3 BH Notes: To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL" | DEPTH OF JOB 1572' PUMP TRUCK CHARGE |
| Pressure dest to 2,000sst, Pump tobbis Water, Mry 525sr Jesa Cement, 215sr +011 Cement, Shut down, Poletse plus Start dis Platement, Slow rate to 3hpm 9th 110 bhis hump plus 9th 118 hhis hoo- 1100 95i, Flort dis helt, Cement did Circulere 50 bhis to pit AFE Number: 13327 CHARVER Name: 160mel 2630 3-1311 STREE. Code: 830390 Amount: 2112 1412 CITYCO. Man: 2112 1412 Notes: 160mel 1 | DEPTH OF JOB 1572' PUMP TRUCK CHARGE |
| Pressure dest to 2,000pst, Pump tobbis Water, mry 525st less Cement, 215st 1011 Cement, Shut down, Polesse plus Start dis Platement, Slow rate to 3her, 9th 110 hhis humo plus 9th 118 hhis 600-1100 PSi, Flort dis helt, cement Code: Strovere 50 hbis to pit AFE Number: 13327 CHARVAII Name: 12000 Horizon Cityco Man: 13327 Cityco Man: 13327 Cityco Man: 13327 Co. Man Signature 1000 Horizon Notes: To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side. | DEPTH OF JOB 1572' PUMP TRUCK CHARGE |
| Pressure dest to 2,000sst, Pump tobbis Water, Mry 525sr Jesa Cement, 215sr +011 Cement, Shut down, Poletse plus Start dis Platement, Slow rate to 3horn 9th 110 bhis hump plus 9th 118 hhis hoo- 1100 95i, Flort dis helt, Cement did Circulere 50 bhis to p.4 AFE Number: 13327 CHARVAII Name: 160mel 2630 3 BH STREE Co. Man: 170mel 2630 3 BH CITYCO. Man: 170mel 2630 3 BH Notes: To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL" | DEPTH OF JOB 1572' PUMP TRUCK CHARGE |
| Pressure dest to 2,000pst, Pump tobbis Water, mry 525st less Cement, 215st 1011 Cement, Shut down, Polesse plus Start dis Platement, Slow rate to 3her, 9th 110 hhis humo plus 9th 118 hhis 600-1100 PSi, Flort dis helt, cement Code: Strovere 50 hbis to pit AFE Number: 13327 CHARVAII Name: 12000 Horizon Cityco Man: 13327 Cityco Man: 13327 Cityco Man: 13327 Co. Man Signature 1000 Horizon Notes: To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side. | DEPTH OF JOB 1572' PUMP TRUCK CHARGE |
| Pressure dest to 2,000sst, Pump tobbis Water, Mry 525sr Jesa Cement, 215sr +0.11 Cement, Shut down, Poletse plus Start dis Platement, Slow rate to 3horn 9th 110 bhis bump plus 9th 118 hhis hoo- 1100 95i, Flort did held, Cement did Circulere 50 bhis to pit AFE Number: 13327 CHANNall Name: 1240 April 1200 April STREET Amount: 234 April 1200 April Notes: 100 April 1200 April To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side. PRINTED NAME X ARRY ALL VEMS | DEPTH OF JOB 1872' PUMP TRUCK CHARGE 2213.75 EXTRA FOOTAGE @ 7.70 308, 06 MILEAGE 40 @ 7.70 308, 06 MANIFOLD Hegdrents @ 275,00 L'8h+ Veh'ole 40 @ 4.40 176,00 TOTAL 2,972.75 PLUG & FLOAT EQUIPMENT 9 5/6 TOTAL 184, 86 SALES TAX (If Any) 1057.06 TOTAL CHARGES 823,143, 46 DISCOUNT 643,04 |
| Pressure dest to 2,000pst, Pump tobbis Water, mry 525st less Cement, 215st 1011 Cement, Shut down, Polesse plus Start dis Platement, Slow rate to 3her, 9th 110 hhis humo plus 9th 118 hhis 600-1100 PSi, Flort dis helt, cement Code: Strovere 50 hbis to pit AFE Number: 13327 CHARVAII Name: 12000 Horizon Cityco Man: 13327 Cityco Man: 13327 Cityco Man: 13327 Co. Man Signature 1000 Horizon Notes: To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side. | DEPTH OF JOB 1572' PUMP TRUCK CHARGE |

ALLIED OIL & GAS SERVICES, LLC 059999 Federal Tax 1.D.# 20-5975804 SERVICE POINT:

REMIT TO P.O. BOX 93999

| COLITUIAND TOVADOCOCO | SERVICE POINT: |
|--|---|
| SOUTHLAKB, TEXAS 76092 | Medicine labor 10 |
| SEC. TWP PANCE | |
| DATE 11 - 18-2013 SEC. 24 TWP 265 RANGE 300 | 200 pm 6.30 pm 2.00 pm 8.20 pm |
| BLEUMES 130 WELL # 3-13 H LOCATION TOSE! | CQUNTY STATE |
| OLD ODGERACION I POGG | 1, ks South on Pe Gray KS |
| OLD OR NEW (Circle one) 13, to PS P | then 4.1 wast, Sline 108 |
| CONTRACTOR MARION ILCO | 100 |
| CONTRACTOR Name #52 TYPE OF JOB Freened in the State State | OWNER Sans Ridse Energy |
| TYPE OF JOB Intermediate 5812 HOLE SIZE 8 34" T.D. 5812 | |
| CASINO SIZE 7" DEPTH 5794 | CEMENT |
| TUBING SIZE DEPTH | AMOUNT ORDERED 26550 50:50 (b) Po2 |
| DRILL PIPE DEPTH | 2%601+.4% FLIGO +.1%C-51, 1005,0 C1955 A+.8% FLIGO+.2%00-31 |
| TOOL DEPTH | C1988 H + 870 + 1/16 + 27000-31 |
| PRES. MAX 3,000 ps. MINIMUM | COMMON Store in last of the B. 1 784 |
| MEAS. LINE SHOE JOINT 89' | COMMON Class & loss @ 17,90 1,790,00 |
| CEMENT LEFT IN CSG. 85' | POZMIX @ |
| PERFS. | |
| DISPLACEMENT 216 bbls of Grach using | 100 |
| EQUIPMENT | Superflush 30 bhis @ 58.70 1,761.00 |
| EQUIPMENT | 50 00 16 00 00 00 00 00 00 00 00 00 00 00 00 00 |
| DIM III MINING CONTROL OF THE CONTRO | Diliver solve And Bleen 2605 to @ 14 40 3 516 00 FILLS @ 18,90 2,96736 Sh-51 21 1bs @ 17.55 368.55 |
| PUMPTRUCK CEMENTER Darin F | Sh-ri 2111c 01750 246/36 |
| #558 (555) HELPER SCOLL D. V | CD-31 15 165 @ 16.30 185.70 |
| BULK TRUCK | Additioner 3hrs @ 440.00 1320,000 |
| BULK TRUCK BULK TRUCK | @ @ |
| | @ |
| # DRIVER | HANDLING 366, 84 0 12 @ 248 934, 56 3 |
| | MILEAGE 646, 22 January 2,60 1680,17 |
| REMARKS: | moral 14 222 201 |
| | IUIAL 74,033, 240 |
| Pipe on house de heart civeria in Proce | |
| Pipe on batton & biesk Cycuis rica, Press | |
| AGE M JOOUPS! DOMD SOAN DEE MILE | SERVICE |
| 26Sar lega coment 1005 to 1 Coment | SERVICE |
| 2653x legs coment, 1005x tg:1 coment Shut sown, ferense flus, Start dis pissement Lift Plassure St 650 bhis. Shur coment | DEPTH OF JOB |
| 2653x legs coment, 1005x tg:1 coment Shut sown, ferense flus, Start dis pissement Lift Plassure St 650 bhis. Shur coment | DEPTH OF JOB PUMP TRUCK CHARGE 3098.25 |
| 2653x legs coment, 1005x tg:1 coment Shut sown, ferense flus, Start dis pissement Lift Plassure St 650 bhis. Shur coment | DEPTH OF JOB |
| 2653x legs coment, 1005x tg:1 coment Shut sown, Peresse plus, Start dis piscement | DEPTH OF JOB |
| 2653x lead coment, 1005x tq:1 coment. Shut down, Reverse flus, Start did pierement. Lift plessure st 150 bhis, Shut 15x 10 3bpm, 8x20x bhis bump plus ct216 bhis 960-1400 95; Flost did Mold | SERVICE DEPTH OF JOB |
| 2653x lead coment, 1005x tq:1 coment. Shut down, Reverse flus, Start did pierement. Lift plessure st 150 bhis, Shut 15x 10 3bpm, 8x20x bhis bump plus ct216 bhis 960-1400 95; Flost did Mold | DEPTH OF JOB |
| Shut down, Reverse flus, Start dis pistement. Lift plessure st 150 bhs, Shut 15k to 3hp. 42-26 bhs bump flus 42-216 bhs. Shut 15k to 3hp. 42-26 bhs bump flus 42-216 bhs. Show of the start | SERVICE DEPTH OF JOB |
| AFE Number: DC/3327 CHARGE TOYOU PS:, POMP 20 66) ROF, MI'K 265x Legs comeny 1005, 49:1 Coment Shut sown, Peresse glus, Start dis placement Li'et plessure st 150 bh's, Shus is a to Shut sown plus ct 216 bhis Sho -1400 PS:, Flort dis 1018 AFE Number: DC/3327 CHARGE TOYOU Name: BLEIMER 2630 3-13H | SERVICE |
| AFE Number: DC/3327 CHARGE TOYOU DS:, POMP 26 60 RSF, MI'K 2653x Legs cement, 1005. Fq: 1 Cement Shut sown, Reverse Plus, Start dis Pistement Lift Plessure St K50 bh's, Skut 15 k to 3 Spm, 92-26 shis bomp plus G1216 shis G00-1400 PSi, Plost dis 1012 AFE Number: DC/3327 CHARGE TOYOU Name: BLEIMER 2630 3-13H CTREET Code: DP 322 FSXX SUM Y | SERVICE |
| CHARGE TYPELL Name: BLEIMER 2630 3-13H STREET Code: 181, 180, 180, 180, 180, 180, 180, 180, | SERVICE |
| CITY CO. Man: "STATRAGE V. CRUTTS | SERVICE |
| CITY Co. Man: STATIBLE Common Page 10 Page 13 Property 100 Page 10 | SERVICE |
| CITY CO. Man: "STATRAGE V. CRUTTS | SERVICE |
| CITY Co. Man: STATIBLE Common Page 10 Page 13 Property 100 Page 10 | DEPTH OF JOB |
| CITY Co. Man: STATIFACE V. CRUENTS CO. Man Sig. Notes: | DEPTH OF JOB PUMP TRUCK CHARGE 3099, 25 EXTRA FOOTAGE 6 MILEAGE 40 276 305,00 MANIFOLD Hadreney 6 275,00 Light Vehre 40 64,40 176,00 30.370 TOTAL 3,858,25 PLUG & FLOAT EQUIPMENT 7' 1-Rubber Plus 6 99,45 |
| CITY Co. Man: STATISTE V. CRUSTO Co. Man Sig. To: Allied Oil & Gas Services, LLC. | DEPTH OF JOB |
| CITY Co. Man: STATEAR C. CRUSTO Co. Man Sig. To: Allied Oil & Gas Services, LLC. You are hereby requested to rent comenting equipment | DEPTH OF JOB |
| AFE Number: DC/3327 CHARGE TWEll Name: BLAIMER 2630 3-13H STREET Code: SATERATE CREATER CO. Man: STATRATE CREATER Co. Man Sig. Notes: To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or | DEPTH OF JOB |
| AFE Number: DC/3327 CHARGE TOYEll Name: BLEIMER 2630 3-13H STREET Code: SATINGE 1630 3-13H CO. Man: STATIGATE CRUTTED Co. Man Sig: Notes: To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was | DEPTH OF JOB |
| AFE Number: DC/3327 CHARGE TOYEll Name: BLEIMER 2630 3-13H STREET Code: SATERATE CRUPTS Co. Man: STATRATE CRUPTS Co. Man Sig: Notes: To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or | DEPTH OF JOB |
| AFE Number: DC/3327 CHARGE TOTAL Name: BLEIMER 2630 3-13H STREET Code: SASTAGE COMENTS OF SASTAGE SA | DEPTH OF JOB PUMP TRUCK CHARGE 3099, 25 EXTRA FOOTAGE 6 MILEAGE 40 276 305,00 MANIFOLD Hadreney 6 276,00 Light Vehrin 40 64, 40 J76,00 PLUG & FLOAT EQUIPMENT 7' I-Rubber Plus 6 99, 45 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 |
| AFE Number: DC/3327 CHARGE TOYEll Name: BLEIMER 2630 3-13H STREET Code: SATERATE CRUPTS Co. Man: STATRATE CRUPTS Co. Man Sig: Notes: To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or | DEPTH OF JOB |
| AFE Number: DC/3327 CHARGE TOTAL Name: BLEIMER 2630 3-13H STREET Code: SASTAGE COMENTS OF SASTAGE SA | DEPTH OF JOB PUMP TRUCK CHARGE 3099, 25 EXTRA FOOTAGE 6 MILEAGE 40 276 305,00 MANIFOLD Hadreney 6 276,00 Light Vehrin 40 64, 40 J76,00 PLUG & FLOAT EQUIPMENT 7' I-Rubber Plus 6 99, 45 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 |
| AFE Number: DC/3327 CHARGE TOTAL Name: BLEIMER 2630 3-13H STREET Code: SASTAGE COMENTS OF SASTAGE SA | DEPTH OF JOB PUMP TRUCK CHARGE 3099.25 EXTRA FOOTAGE 6 MILEAGE 40 276 305.00 MANIFOLD Hadreney 6 276 075.00 Light Vehicle 40 64.40 176.00 TOTAL 3.858.25 PLUG & FLOAT EQUIPMENT |
| AFE Number: DC /3327 CHARGE TWELL Name: BLEIMER 2630 3-13H STREET Code: STATEMEN PROPERTY OF MANUAL TO STATEMENT OF MANUAL TO MANUAL T | DEPTH OF JOB |
| AFE Number: DC /3327 CHARGE TWELL Name: BLEIMER 2630 3-13H STREET Code: STATEMEN PROPERTY OF MANUAL TO STATEMENT OF MANUAL TO MANUAL T | DEPTH OF JOB PUMP TRUCK CHARGE 3099.25 EXTRA FOOTAGE 6 MILEAGE 40 276 305.00 MANIFOLD Hadreney 6 276 075.00 Light Vehicle 40 64.40 176.00 TOTAL 3.858.25 PLUG & FLOAT EQUIPMENT |

5D Survey Report

Sandridge Energy

Field Name:

Site Name: Well Name:

Survey:

Sandridge Energy - Gray Co., KS S NAD 27 US FT

Bleumer 2630 3-13H

Bleumer 2630 3-13H

Definitive Survey (Geographic)

26 November 2013





Grid Convergence: -1.26

Mag Declination: 5.99

Total Correction 7.25

Grid = True + 1.26

True = Mag + 5.99

Bearing:

54°

Section 323

Vertical

3250

Long ('/'\') -100'32'58.9"

Name TVD Northing Easting (USFt) (USft) (USft) (Y/'')
PBHL 5020.00 413865.00 1407702.00 37.47'7.5"

Target Set Information:

THE POWER OF US Bleumer 2630 3-13H Nomac 52

Plan Point Information:

Severity Unit: 7100.00ft Position offsets from Slot centre

D Inc Az TVD +N/-S +E/-W VSec DLS Toolface

(') (') ('10ft) ('USft) ('USft) ('USft) ('USft)

0 90.00 327.83 5013.12 1354.61 -1020.36 1695.84 1.44

8 77.00 324.42 5016.09 1448.83 -1083.62 1809.21 4.00 228.6

8 97.00 324.42 5020.00 1359.96 -1144.84 11921.24 4.00 0.0

0 90.00 324.42 5020.00 2009.07 -1484.44 2497.99 0.00 0.0

DogLeg Severity
MD Inc
(USft) ()
6406.00 90.00 3
6519.56 87.00 3
6536.69 87.00 3
6631.68 90.00 3

Plan Data for Bleumer 2630 3-13H

Gray County, KS X= 1409186.45' Y= 411855.92'

Plan 3 vs Actual



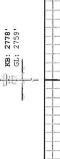








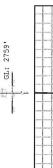








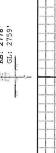
















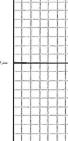






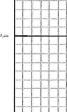






Plan Data for Bleumer 2630 3-13H







Field: Sandridge Energy - Gray Co., KS S NAD 27 US FT Map Unit: USFt Projected Coordinate System: NAD27 / Kansas South



3500

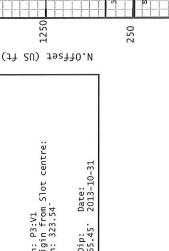


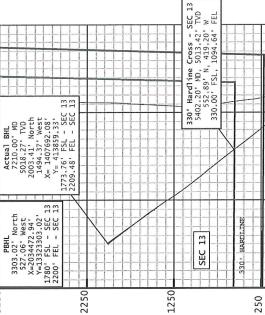
4000

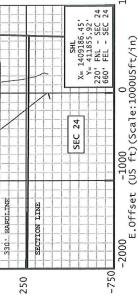














1000

Proj. to TD 7210.00' MD 5018.27' TVD 90.14' INC 323.03' AZM

330' Hardline Cross

4500

(1) (US ft)

5000



2500

(US ft)(Bearing:323.54° Scale:500USft/in)

500 VS

-500

5500

Vertical Section View

Created By: Gary Rhodes Date: 11/01/2013

Weatherford Drilling Services 6525 N. Meridian Ste. #201 0klaboma City. 0k 73116 +1.405.773.1100 Main +1.405.773.1887 Fax

Bleumer 2630 3-13H

Company Name: Sandridge Energy

Projected Coordinate System: NAD27 / Kansas South Vertical Reference Datum (VRD): Mean Sea Level Map Units: US ft Sandridge Energy - Gray Comment: Co., KS S NAD 27 US FT Field Name

Easting: 1409186.45 USft Northing: 411855.92 USft North Reference: Grid Elevation above Mean Sea Level:2759.00 US ft Position Units: US ft Bleumer 2630 3-13H Site Name

Longitude: -100° 32' 39.90" Convergence Angle: -1.26 Latitude: 37° 46' 47.99"

Comment:

Longitude: -100°32'39.90" Latitude: 37°46'47.99" Position (Offsets relative to Site Centre) Northing :411855.92 US ft Easting:1409186.45 USft Slot TVD Reference: Ground Elevation +E / -W: 0.00 US ft +N / -S: 0.00 US ft

Elevation above Mean Sea Level: 2759.00 US ft

Comment:

Bleumer 2630 3-13H

Slot Name

Rig Height Drill Floor: 19:00 US $\hat{\pi}$ Relative to Mean Sea Level: 2778:00 US $\hat{\pi}$ Closure Distance: 2499.36 US ft Type: Main well Well Name

Vertical Section (Position of Origin Relative to Slot) +N / -S: 0.00 US ft

Bleumer 2630 3-13H

Closure Azimuth: 323.28°

Comment: UWI:

+E / -W: 0.00 US ft

Az:323.54°

5D Survey Report

Target Set

Number of Targets: 1 Name: Bleumer 2630 3-13H - T3

Comment:

Latitude: 37°47'7.52" Position (Relative to Slot centre) Northing: 413865.00 US ft Easting: 1407702.00US ft +E / -W : -1484.45 US ft +N / -S: 2009.08US ft **TargetName:** PBHL

TVD (Drill Floor): 5020.00 US ft SS: -2242.00 US ft

Shape: Cuboid

Length: 0.00 US ft Azimuth: 0.00° Dimensions Orientation

Breadth: 0.00 US ft

Inclination: 0.00°

Longitude: -100°32'58.94"

Height: 0.00 US ft

Survey Name : Definitive Survey

Dip: 65.45° Company: Declination: 5.99° Comment: Field Strength: 51909.2 nT Survey Tool: Date: 31/Oct/2013 Date: 31/Oct/2013 Magnetic Model Model Name: IGRF

Source Survey WFT MWD Surveys Rig Surveys End MD (usft) 7210.00 1572.00 Start MD (us #) 1572.00 Inc Only 3deg_WFTR MWD **Survey Tool Ranges**

Well path created using minimum curvature

First WFT MWD Survey Cedar Hills Base: First Rig Survey Last Rig Survey Cedar Hills: Comment 0.43 1.07 0.75 0.75 0.31 0.00 0.34 0.08 0.41 0.31 11.98 14.79 18.47 11.54 6.72 16.78 21.37 2.52 5.04 0.00 0.54 -14.72 -19.61 -33.68 -34.97 -43.17 -48.96 -53.90 -58.88 -62.80 -1.59 -7.34 0.00 -10.54 -10.94 -13.50 -16.86 -18.42 -19.83 -0.50 -2.30 -4.60 -6.14 -15.31 0.00 1637.25 1699.11 237.99 1322.36 1340.00 1441.95 1510.00 1570.46 493.92 739.80 984.74 0.00 centre, TVD relative to Drill Floor) 252.63 252.63 252.63 252.63 252.63 252.63 252.63 252.63 252.63 252.63 247.30 0.00 0.00 0.80 0.80 1.90 1.70 0.70 4.30 5.20 4.80 4.14 Survey Points (Relative to Slot 1323.00 1340.69 1443.00 1639.00 1511.32 1572.00 1701.00 MD (US R) 238.00 494.00 740.00 985.00 0.00

| | Comment | | | | | | | | | | | | | | | Chase: | | | | | | | | | | | | | | | | | | | | | | | | | Heebner: | |
|--|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|---------|
| | DLS (*/100 US ft.) | 1.43 | 1.74 | 2.17 | 2.52 | 0.35 | 0.40 | 0.17 | 0.30 | 1.22 | 1.17 | 0.17 | 1.50 | 1.44 | 0.73 | 0.15 | 0.15 | 0.58 | 0.31 | 0.35 | 0.58 | 0.26 | 0.20 | 0.54 | 0.31 | 0.51 | 1.48 | 1.25 | 1.73 | 1.46 | 0.55 | 0.55 | 1.72 | 0.72 | 1.25 | 1.16 | 0.13 | 0.67 | 1.17 | 1.10 | 0.83 | 0.83 |
| | 8/ (# SN) | 22.09 | 22.25 | 21.95 | 21.25 | 20.22 | 19.35 | 18.67 | 18.13 | 17.78 | 17.70 | 17.83 | 17.53 | 16.29 | 14.71 | 13.89 | 13.30 | 12.09 | 11.05 | 9.89 | 8.56 | 7.23 | 6.05 | 4.76 | 3.28 | 1.80 | 0.49 | -0.44 | -0.59 | 0.13 | 1.34 | 2.64 | 3.72 | 4.55 | 4.88 | 4.41 | 3.57 | 3.00 | 2.62 | 2.22 | 1.97 | 1.94 |
| | E.Offset (US ft) | -65.89 | -67.96 | -68.77 | -68.14 | -66.58 | -65.00 | -63.53 | -62.22 | -60.78 | -58.85 | -56.79 | -54.31 | -51.08 | -47.72 | -45.93 | -44.66 | -41.78 | -39.13 | -36.40 | -33.61 | -31.00 | -28.53 | -25.97 | -23.18 | -20.46 | -18.35 | -17.12 | -16.46 | -15.83 | -15.30 | -15.03 | -14.28 | -12.78 | -10.78 | -8.35 | -5.71 | -3.18 | -1.04 | 0.51 | 1.36 | 1.49 |
| | N.Offset (US ft) | -21.21 | -22.55 | -23.52 | -23.93 | -24.06 | -23.98 | -23.73 | -23.44 | -22.80 | -21.47 | -19.80 | -18.33 | -17.49 | -16.97 | -16.67 | -16.46 | -15.83 | -15.17 | -14.60 | -14.19 | -13.92 | -13.56 | -13.26 | -13.05 | -12.87 | -12.95 | -13.20 | -12.89 | -11.54 | -9.64 | -7.82 | -5.93 | -3.78 | -1.89 | -0.68 | 0.23 | 1.38 | 2.49 | 3.14 | 3.46 | 3.52 |
| | 7VD (US ft) | 1761.02 | 1823.97 | 1885.96 | 1947.95 | 2010.93 | 2073.91 | 2136.89 | 2198.88 | 2260.86 | 2323.81 | 2385.76 | 2448.69 | 2510.60 | 2573.51 | 2610.00 | 2636.43 | 2699.36 | 2761.30 | 2823.24 | 2886.18 | 2949.12 | 3011.07 | 3073.02 | 3134.95 | 3196.89 | 3258.86 | 3320.84 | 3381.84 | 3443.82 | 3505.79 | 3568.76 | 3631.73 | 3693.67 | 3755.61 | 3817.55 | 3881.49 | 3944.43 | 4006.38 | 4068.36 | 4120.00 | 4130.35 |
| relative to Drill Floor) | 40 | 244.06 | 226.98 | 197.86 | 98.71 | 91.47 | 82.05 | 78.97 | 75.47 | 60.23 | 52.01 | 49.69 | 67.63 | 82.13 | 80.24 | 80.61 | 80.89 | 74.22 | 77.66 | 78.60 | 85.06 | 83.12 | 80.16 | 86.54 | 84.88 | 87.76 | 98.97 | 106.50 | 31.93 | 20.96 | 10.21 | 6.75 | 31.30 | 38.13 | 55.42 | 71.78 | 70.16 | 60.91 | 64.90 | 71.40 | 65.87 | 64.00 |
| Survey Points (Relative to Slot centre, TVD relative to Drill Floor) | Inc (e) | 2.70 | 1.82 | 0.58 | 1.36 | 1.49 | 1.40 | 1.32 | 1.15 | 1.80 | 2.47 | 2.43 | 2.89 | 3.32 | 2.87 | 2.82 | 2.78 | 2.59 | 2.47 | 2.68 | 2.46 | 2.32 | 2.29 | 2.49 | 2.67 | 2.38 | 1.54 | 0.78 | 0.95 | 1.82 | 1.84 | 1.51 | 2.26 | 2.60 | 2.55 | 2.52 | 2.48 | 2.59 | 1.88 | 1.22 | 0.80 | 0.72 |
| Survey Points (Relative | MD (US ft) | 1763.00 | 1826.00 | 1888.00 | 1950.00 | 2013.00 | 2076.00 | 2139.00 | 2201.00 | 2263.00 | 2326.00 | 2388.00 | 2451.00 | 2513.00 | 2576.00 | 2612.54 | 2639.00 | 2702.00 | 2764.00 | 2826.00 | 2889.00 | 2952.00 | 3014.00 | 3076.00 | 3138.00 | 3200.00 | 3262.00 | 3324.00 | 3385.00 | 3447.00 | 3509.00 | 3572.00 | 3635.00 | 3697.00 | 3759.00 | 3821.00 | 3885.00 | 3948.00 | 4010.00 | 4072.00 | 4123.65 | 4134.00 |

Weatherford International Limited

5D 7.5.5 : 26 November 2013, 16:37:49 UTC

| | Comment | Lansing: | | | | | | | | | | | | | | | | | Marmaton: | | | | | | Cherokee: | | | | | | | | | Mississippian : | | | | | | | | |
|---|----------------------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|---------|---------|---------|---------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|
| | DLS (*/100 US ft) | 0.93 | 0.93 | 1.21 | 2.68 | 3.79 | 4.65 | 5.44 | 6.43 | 6.13 | 5.77 | 6.81 | 7.74 | 7.35 | 8.09 | 9.19 | 9.92 | 7.73 | 9.15 | 9.15 | 8.92 | 10.23 | 7.09 | 9.02 | 7.16 | 7.16 | 5.62 | 6.99 | 9.07 | 10.89 | 11.94 | 10.92 | 7.95 | 6.12 | 6.13 | 6.44 | 6.25 | 9.77 | 8.63 | 6.23 | 4.14 | 3.95 |
| | (1) S(1) | 1.79 | 1.73 | 1.64 | 1.80 | 2.52 | 3.93 | 6.17 | 9.40 | 13.82 | 19.06 | 25.29 | 32.96 | 41.93 | 51.81 | 63.02 | 75.68 | 90.13 | 94.74 | 105.40 | 121.96 | 139.86 | 159.55 | 180.35 | 185.33 | 202.22 | 224.19 | 246.88 | 269.69 | 295.11 | 320.02 | 346.75 | 373.35 | 392.18 | 402.26 | 431.63 | 461.44 | 490.77 | 521.53 | 551.65 | 581.96 | 612.40 |
| | E.Offset (US ft) | 1.92 | 1.98 | 2.16 | 2.20 | 1.81 | 0.92 | -0.50 | -2.41 | -4.95 | -7.82 | -11.08 | -15.06 | -19.76 | -25.27 | -31.84 | -39.46 | -48.31 | -51.14 | -57.72 | -67.94 | -78.91 | -90.95 | -103.72 | -106.79 | -117.26 | -130.94 | -145.06 | -159.20 | -174.84 | -190.10 | -206.53 | -222.95 | -234.60 | -240.83 | -258.98 | -277.44 | -295.64 | -314.74 | -333.43 | -352.14 | -370.70 |
| | N.Offset (US ft) | 3.64 | 3.62 | 3.64 | 3.86 | 4.47 | 5.56 | 7.31 | 9.91 | 13.53 | 17.92 | 23.26 | 29.86 | 37.53 | 45.75 | 54.83 | 64.94 | 76.37 | 80.01 | 88.40 | 101.44 | 115.59 | 131.17 | 147.60 | 151.52 | 164.79 | 181.99 | 199.78 | 217.70 | 237.74 | 257.44 | 278.53 | 299.47 | 314.29 | 322.21 | 345.32 | 368.74 | 391.76 | 415.89 | 439.53 | 463.40 | 487.53 |
| | TVD (US ft) | 4180.00 | 4192.35 | 4220.35 | 4252.34 | 4284.34 | 4315.30 | 4346.22 | 4377.05 | 4408.74 | 4439.29 | 4469.65 | 4500.71 | 4531.42 | 4560.79 | 4589.69 | 4617.98 | 4646.53 | 4655.00 | 4673.50 | 4699.70 | 4725.01 | 4750.22 | 4774.53 | 4780.00 | 4797.87 | 4819.74 | 4840.84 | 4860.30 | 4879.72 | 4896.43 | 4912.10 | 4925.95 | 4935.00 | 4939.63 | 4952.29 | 4963.91 | 4973.89 | 4982.64 | 4989.90 | 4996.32 | 5002.16 |
| slative to Drill Floor) | ଷ୍ | 95.57 | 113.78 | 67.64 | 335.62 | 323.81 | 319.49 | 321.69 | 325.21 | 324.78 | 328.58 | 328.48 | 329.29 | 327.88 | 324.60 | 323.69 | 322.38 | 322.14 | 322.02 | 321.78 | 322.09 | 322.29 | 322.31 | 322.00 | 321.89 | 321.55 | 321.45 | 321.68 | 321.77 | 322.29 | 322.18 | 321.98 | 321.82 | 321.82 | 321.82 | 321.87 | 321.66 | 321.69 | 321.56 | 321.78 | 322.03 | 322.84 |
| Survey Points (Relative to Slot centre, TVD relative to Drill Floor) | ğ© | 0.35 | 0.30 | 0.47 | 0.70 | 1.89 | 3.32 | 5.00 | 96.9 | 8.92 | 10.59 | 12.70 | 15.17 | 17.49 | 19.77 | 22.60 | 25.63 | 28.10 | 28.98 | 30.93 | 33.69 | 36.86 | 39.13 | 42.01 | 42.53 | 44.28 | 46.02 | 48.18 | 20.90 | 54.36 | 57.94 | 61.32 | 63.70 | 64.98 | 92.69 | 67.72 | 69.71 | 72.74 | 75.50 | 77.42 | 78.68 | 79.61 |
| Survey Points (Relative | MD (US ft) | 4183.65 | 4196.00 | 4224.00 | 4256.00 | 4288.00 | 4319.00 | 4350.00 | 4381.00 | 4413.00 | 4444.00 | 4475.00 | 4507.00 | 4539.00 | 4570.00 | 4601.00 | 4632.00 | 4664.00 | 4673.64 | 4695.00 | 4726.00 | 4757.00 | 4789.00 | 4821.00 | 4828.40 | 4853.00 | 4884.00 | 4915.00 | 4945.00 | 4977.00 | 2007.00 | 5038.00 | 2068.00 | 5088.91 | 5100.00 | 5132.00 | 5164.00 | 5195.00 | 5227.00 | 5258.00 | 5289.00 | 5320.00 |

Weatherford International Limited

5D 7.5.5 : 26 November 2013, 16:37:49 UTC

| | | | | | | | | が 日本 |
|-------------|-----------|--------|---------------|----------|----------|---------|------|--|
| MD (USA) | ξ. Σίο | 240 | 775 (# 21) | N.Offset | E.Offset | SV S | DLS | Comment |
| 5351.00 | , | 323.73 | 5007.36 | 512.03 | -388.97 | | 5.49 | |
| 5369.78 | 82.75 | 323.61 | 5010.00 | 527.01 | -399.99 | 661.55 | 8.99 | St. Louis: |
| 5382.00 | 83.85 | 323.54 | 5011.42 | 536.77 | -407.19 | 673.69 | 8.99 | |
| 5402.20 | 84.80 | 323.11 | 5013.42 | 552.89 | -419.20 | 693.79 | 5.16 | 330' Hardline Cross |
| 5413.00 | 85.31 | 322.88 | 5014.35 | 561.48 | -425.68 | 704.55 | 5.16 | |
| 5445.00 | 85.16 | 322.63 | 5017.01 | 586.87 | -444.98 | 736.43 | 0.91 | |
| 5476.00 | | 322.62 | 5019.30 | 611.44 | -463.74 | 767.35 | 3.87 | |
| 5507.00 | 87.83 | 322.43 | 5020.87 | 636.01 | -482.58 | 798.30 | 4.78 | |
| 5538.00 | | 322.19 | 5022.14 | 660.52 | -501.51 | 829.27 | 1.37 | |
| 5569.00 | | 322.05 | 5023.62 | 684.96 | -520.53 | 860.22 | 1.43 | |
| 5601.00 | 86.92 | 321.71 | 5025.30 | 710.10 | -540.25 | 892.16 | 1.15 | |
| 5632.00 | 87.21 | 321.69 | 5026.89 | 734.39 | -559.44 | 923.11 | 0.94 | |
| 5663.00 | 86.91 | 321.59 | 5028.48 | 758.67 | -578.66 | 954.05 | 1.02 | |
| 5694.00 | | 321.40 | 5030.22 | 782.89 | -597.92 | 984.98 | 1.06 | |
| 5725.00 | 87.49 | 321.75 | 5031.81 | 807.15 | -617.17 | 1015.92 | 2.96 | |
| 5752.00 | | 322.04 | 5032.61 | 828.38 | -633.82 | 1042.90 | 6.02 | |
| 5832.00 | 20.77 | 320.84 | 5032.71 | 890.93 | -683.68 | 1122.84 | 2.58 | |
| 5896.00 | | 321.50 | 5031.66 | 940.78 | -723.81 | 1186.78 | 1.17 | |
| 5959.00 | | 322.02 | 5029.35 | 990.23 | -762.77 | 1249.70 | 3.22 | |
| 6023.00 | | 322.07 | 5025.91 | 1040.62 | -802.08 | 1313.59 | 0.08 | |
| 6087.00 | | 322.69 | 5022.47 | 1091.24 | -841.09 | 1377.48 | 0.97 | |
| 6151.00 | | 324.32 | 5018.99 | 1142.61 | -879.10 | 1441.38 | 2.55 | |
| 6215.00 | | 324.58 | 5015.19 | 1194.59 | -916.24 | 1505.26 | 0.85 | |
| 6278.00 | | 326.92 | 5012.65 | 1246.62 | -951.66 | 1568.15 | 5.62 | |
| 6342.00 | | 327.70 | 5012.61 | 1300.48 | -986.23 | 1632.01 | 3.19 | |
| 6406.00 | | 327.83 | 5013.12 | 1354.61 | -1020.36 | 1695.84 | 1.44 | |
| 6470.00 | | 326.36 | 5013.39 | 1408.34 | -1055.13 | 1759.71 | 2.42 | |
| 6534.00 | 87.76 | 326.16 | 5014.92 | 1461.54 | -1090.66 | 1823.62 | 2.75 | |
| 6598.00 | | 325.70 | 5017.46 | 1514.52 | -1126.49 | 1887.51 | 0.73 | |
| 6661.00 | | 324.04 | 5020.07 | 1565.99 | -1162.71 | 1950.44 | 2.64 | |
| 6725.00 | | 322.64 | 5021.59 | 1617.31 | -1200.91 | 2014.41 | 4.02 | |
| 6789.00 | | 322.93 | 5021.67 | 1668.28 | -1239.61 | 2078.41 | 0.80 | |
| 6853.00 | | 322.46 | 5021.04 | 1719.19 | -1278.40 | 2142.40 | 1.50 | |
| 6917.00 | | 322.64 | 5019.83 | 1769.99 | -1317.31 | 2206.38 | 0.43 | |
| 6980.00 | | 322.67 | 5018.71 | 1820.06 | -1355.52 | 2269.36 | 0.56 | |
| 7044.00 | | 322.64 | 5018.24 | 1870.94 | -1394.34 | 2333.35 | 1.31 | |
| 7108.00 | | 322.99 | 5018.40 | 1921.93 | -1433.02 | 2397.34 | 0.70 | |
| 7140.00 | | 323.03 | 5018.44 | 1947.49 | -1452.28 | 2429.34 | 1.32 | Last WFT MWD Survey |
| 7210.00 | 90.14 | 323.03 | 5018.27 | 2003.41 | -1494.37 | 2499.34 | 0.00 | Proj. to TD |