

Confidentiality Requested: Yes No

Spud Date or Recompletion Date KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1203724

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 East / West Line of Section |
| Contact Person: | Footages Calculated from Nearest Outside Section Corner: |
| Phone: () | |
| CONTRACTOR: License # | GPS Location: Lat:, Long: |
| Name: | (e.g. xx.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: |
| | Elevation: Ground: Kelly Bushing: |
| ☐ Gas ☐ D&A ☐ ENHR ☐ SIGW □ OG | 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? Yes No |
| 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 | Deilling Fluid Menonement Dien |
| Plug Back Conv. to GSW Conv. to Producer | Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) |
| | Chloride content: ppm Fluid volume: bbls |
| Commingled Permit #: | |
| Dual Completion Permit #: | Dewatering method used: |
| SWD Permit #: | Location of fluid disposal if hauled offsite: |
| ENHR Permit #: | Operator Name: |
| GSW Permit #: | Lease Name: License #: |
| | Quarter Sec TwpS. R East West |

County:

AFFIDAVIT

Date Reached TD

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.

Completion Date or

Recompletion Date

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: |

Permit #:___

| | Page Two | 1203724 |
|---|------------------------------|---|
| Operator Name: | Lease Name: | Well #: |
| Sec TwpS. R □ East □ West | County: | |
| INCTRUCTIONS. Chaw important tang of formations papetrated Da | tail all aaraa Bapart all fi | nal appias of drill stome tests siving interval tested, time test |

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

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

| Drill Stem Tests Taken (Attach Additional She | eets) | Yes No | | _og Formatio | on (Top), Depth an | d Datum | Sample |
|--|------------------------|-----------------------------------|----------------------|--------------------------------|--------------------|------------------|-------------------------------|
| Samples Sent to Geolog | gical Survey | Yes No | Nan | ie | | Тор | Datum |
| Cores Taken Electric Log Run | | ☐ Yes ☐ No ☐ Yes ☐ No | | | | | |
| List All E. Logs Run: | | | | | | | |
| | | | | | | | |
| | | CASING Report all strings set- | | ew Used ermediate, producti | on, etc. | | |
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | ADDITIONAL | CEMENTING / SQ | JEEZE RECORD | | | |
| Purpose: Perforate | Depth Top Bottom | Type of Cement | # Sacks Used | | Type and Pe | ercent Additives | |
| Protect Casing Plug Back TD | | | | | | | |
| Plug Off Zone | | | | | | | |
| Did you perform a hydraulic | fracturing treatment o | n this well? | | Yes | No (If No, skij | o questions 2 an | d 3) |

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

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

(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 | | | | | | ement Squeeze Record I of Material Used) | Depth | | |
|--------------------------------------|---|-----------------|------------|--------------------------|---------|-----------------|---|-----------------|-----------------|---------|
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TUBING RECORD: | b: Size: Set At: Packer At: | | | r At: | Liner R | | No | | | |
| Date of First, Resumed | Producti | on, SWD or ENHF | } . | Producing Me | thod: | ping | Gas Lift | Other (Explain) | | |
| Estimated Production Per 24 Hours | | Oil Bb | ls. | Gas | Mcf | Wate | er | Bbls. | Gas-Oil Ratio | Gravity |
| | DISPOSITION OF GAS: METHOD OF COMPLETION: PRODUCTION | | | | | PRODUCTION INTE | | | | |
| Vented Sold | | Jsed on Lease | | Open Hole | Perf. | Dually | Comp. | Commingled | FRODUCTION INTE | NVAL. |
| (If vented, Sub | omit ACO | -18.) | | Other <i>(Specify)</i> _ | | (Submit A | , | (Submit ACO-4) | | |

Yes

Yes

No

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

Leis Oil Services, LLC

1410 150th Rd Yates Center, KS 66783

Invoice

| Date | Invoice # |
|-----------|-----------|
| 3/22/2014 | 1020 |

Bill To

Piqua Petro, Inc. 1331 Xylan Rd Piqua, KS 66761

| | | P.O. No. | Terms | Project |
|-----------|--------------------------|----------|----------------|--------------|
| | | | Due on receipt | - |
| antity | Description | 1 | Rate | Amount |
| Drillin | ng- Hammond E 66-14 | | | 6.25 6,950.0 |
| 1 Drill I | | | 10 | 0.00 100.0 |
| | nt for Surface | | | 1.60 116.0 |
| Drillin | ng- Hammond E 67-14 | | | 6.25 6,931.2 |
| 1 Drill H | | | 10 | 0.00 100.0 |
| | nt for Surface | | 1 | 1.60 116.0 |
| | ng- Hammond E 68-14 | | | 6.25 6,937.5 |
| 1 Drill H | | | 10 | 0.00 100.0 |
| | nt for Surface | | 1 | 1.60 116.0 |
| | ig- Hammond E 69-14 | | | 6.25 6,893.7 |
| 1 Drill F | | | 10 | 0.00 100.0 |
| | at for Surface | | 1 | 1.60 116.0 |
| | g- Collins Bennett 15-14 | | | 6.25 5,550.0 |
| 1 Drill F | | | 10 | 0.00 100.0 |
| | nt for Surface | | 1 | 1.60 92.8 |
| | g- Collins Bennett 16-14 | | | 6.25 7,562.5 |
| 1 Missis | sippi Drill Charge | | | 0.00 600.0 |
| 1 Drill F | | | 10 | 0.00 100.0 |
| | nt for Surface | | 1 | 1.60 92.8 |
| Drillin | g- Collins Bennett 17-14 | | | 6.25 5,518.7 |
| 1 Drill F | | | 10 | 0.00 100.0 |
| | it for Surface | | 1 | 1.60 92.8 |
| Drillin | g- Collins Bennett 18-14 | | | 5,556.2 |
| 1 Drill F | 'it | | 10 | 0.00 100.0 |
| 8 Cemer | t for Surface | | 1 | 1.60 92.8 |
| Drillin | g- Shannon 3-14 | | | 5.25 5.531.2 |
| 1 Drill P | | | 10 | 0.00 100.0 |
| 8 Cemer | t for Surface | | | 1.60 92.8 |
| . Drillin | g- Shannon 4-14 | | | 5.25 7,543.7 |
| 1 Missis | sippi Drill Charge | | | 600.0 |
| 1 Drill P | it | | | 0.00 100.0 |
| 8 Cemen | t for Surface | | | 1.60 92.8 |
| Drillin | g- Shannon 5-14 | | 1 | 5.25 5,481.2 |
| 1 Drill P | it | | | 0.00 100.00 |
| | | | Total | |

| PC Box 884, Chanute, KS 66720 620-431-9210 or 800-467-8676 | FIELD TICKE | T & TREA | Q2. 1. | | Eureka, KS | |
|---|---|-----------------------------|----------------------------|-----------------|------------|--------------|
| DATE CUSTOMER # | WELL NAME & NUM | CEMEN BER | SECTION | TOWNSHIP | RANGE | COUNTY |
| 2-27-14 4950 | Collins Bennett | 16-14 | | | | Woodson |
| CUSTOMER Piqua Petrole | | | TRUCK # | DRIVER | TRUCK # | DRIVER |
| MAILING ADDRESS | |] | 445 | Chris B. | | |
| 1331 Xyland K | d. | | 611 | Joey K. | | |
| CITY Piqua S | KS 66761 | | 1 | | | |
| JOB TYPE Longstring O H | OLE SIZE 55/6" | L HOLE DEPTI TUBING 2 | | CASING SIZE & W | | |
| SLURRY WEIGHT 13.6 SI | SPLACEMENT PSI 400 | WATER gal/s | ik 6.5 | CEMENT LEFT in | | |
| REMARKS: Safety Meeting Mixed 200 Gel Flush. | . Rig up to 27/8" + 5 Bbl water spacer | ubing. Br Mixed | ak circulati 135 sks 60 | 140 Pozmir Ce | ment w/ | 4 # Kol-scal |
| /SK, 4% Gel, 4 1% (an Displace w/ 5.75 Bb/ 1 Shut well in Good ci | Fresh water, Final | pumping 1 | pressure of | 400 PSI. Bury | plugs to | 900 PS1. |
| | Jab complete. | | | / | | |

| QUANITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL |
|------------------|---|--|---|
| . 1 | PUMP CHARGE | 1085.00 | 1085.00 |
| 0 | MILEAGE 2nd Well | 4.20 | N/C |
| 135 sks | 60/40 Pozmix Cement | 13.18 | 1779,30 |
| 540# | Kol-segl@Y#/sk | .46 | 248.40 . |
| 465# | Gel@4% | ,22 | 102.30 |
| 115# | Cac/2. @ 1% | , 78 | 89.70 - |
| 200# | Gel Flush | ,22 | 44.00 0 |
| 5,805 Tons | Ton Mileage Bulk Truck | 1.41 | 368.00 |
| 3 HRS. | 80 Bbl Vac. Truck | 90.00/HR | 2.70.00 |
| 2 | 27/8" Top Rubber Plug | 29.50 | 59.00 |
| | completed | | |
| | | Subtotal | 4045,70 |
| | "Thank You" 7.15% | SALES TAX | 100007 |
| 11. | | ESTIMATED TOTAL | 4211.77 |
| | 1 0 135 sks 540# 445# 115# 200# 5,805 Tons 3 HRS. | 1 PUMP CHARGE MILEAGE 2 nd Well 135 sts 60/40 Pozmix Cement 540 th Kol-seql @ 4 ^d /sk 460 th Gel @ 4% 115 th Gel @ 4% 200 th Gel Flush 5,805 Tons Ton Millage Bulk Truck 3 HRS. 80 Bbl Vac. Truck 2 27/8" Top Rubber Plug Completed | 1 PUMP CHARGE 1085.00 0 MILEAGE 2 nd Well 4.20 135 sxs 60/40 Pozmix Cement 13./8 540 th Kol-scal @ 4 ^d /sk .46 445 th Gel @ 4 ^d /sk .46 445 th Gel @ 4 ^d /sk .46 115 th Caclz. @ 1 ^d /sk .78 200 th Gel Flush .22 5,805 Tons Ton Millage Bulk Truck 1.41 3 HRS. 80 Bbl Vac. Truck 90.00/HR 2 27/8" Top Rubber Plug 28.50 Thank You" 7,15 % SALES TAX 11 Thank You" 7,15 % |

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

LEIS OIL SERVICES



1410 150th Rd. • Yates Center, Kansas 66783 • (620) 212-0752



| Operator License #: 30345 | API #: 15-207-28852-00-00 |
|--|---------------------------------------|
| Operator: Piqua Petro, Inc. | Lease: Collins-Bennett |
| Address: 1331 Xylan Rd Piqua, KS 66761 | Well #: 16-14 |
| Phone: (620) 433-0099 | Spud Date: 2-25-14 Completed: 2-27-14 |
| Contractor License: 34036 | Location: NW-SE-NW-SW of 16-25-17E |
| T.D.: 987 T.D. of Pipe: 982 Size: 2.875" | 1965 Feet From South |
| Surface Pipe Size: 7" Depth: 22' | 4280 Feet From East |
| Kind of Well: Oil | County: Woodson |

LOG

| Thickness | Strata | From | То | Thickness | Strata | From | То |
|-----------|-------------------|------|-----|-----------|-----------------|------|-----|
| 6 | Soil/Clay | 0 | 6 | 3 | Lime | 795 | 798 |
| 12 | Broken Lime | 6 | 18 | 28 | Shale | 798 | 826 |
| 118 | Shale | 18 | 136 | 2 | Sand, light oil | 826 | 828 |
| 89 | Lime | 136 | 225 | 7 | Oil Sand | 828 | 832 |
| 80 | Shale | 225 | 305 | 155 | Shale | 832 | 987 |
| 75 | Lime | 305 | 380 | | | | |
| 12 | Shale/Black Shale | 380 | 392 | | | | |
| 18 | Lime | 392 | 410 | | | | |
| 3 | Black Shale | 410 | 413 | | | | |
| 33 | Lime | 413 | 446 | | | | |
| 151 | Shale | 446 | 597 | | | | |
| 5 | Lime | 597 | 602 | | | | N |
| 19 | Shale | 602 | 621 | | | | |
| 11 | Lime | 621 | 632 | | | | |
| 67 | Shale | 632 | 699 | | | | |
| 4 | Lime | 699 | 703 | | | | |
| 9 | Shale | 703 | 712 | | | | |
| 11 | Lime | 712 | 723 | | | | |
| 6 | Shale | 723 | 729 | | 1 | | |
| 5 | Lime | 729 | 734 | | | | |
| 5 | Shale | 734 | 739 | | | | |
| 3 | Lime | 739 | 742 | | | | |
| 24 | Shale | 742 | 766 | | | | |
| 4 | Lime | 766 | 770 | | | | |
| 7 | Shale | 770 | 777 | | | | |
| 6 | Lime | 777 | 783 | | | | |
| 4 | Shale | 783 | 787 | | T.D. | | 987 |
| 2 | Black Shale | 787 | 789 | | T.D. of Pipe | | 982 |
| 6 | Shale | 789 | 795 | | | | |



PO Box 884, Chanute, KS 66720 620-431-9210 °or 800-467-8676

4IH well

TICKET NUMBER 58021 FIELD TICKET REF # 99035 LOCATION Thay to FOREMAN Bhelt Bushy

TREATMENT REPORT FRAC & ACID

| Pigua Petro. Inc. TRUCK# DRIVER TRUCK# DRIVER MAILING ADDRESS 476 Jash 4 Y STATE ZIP CODE 490 Karry R 4 Y STATE ZIP CODE 482 Mark 521 | DATE | CUSTOMER # | WELL | NAME & NUM | BER | SECTION | TOWNSHIP | RANGE | COUNTY |
|--|--------------------|---|--------------|-----------------------|----------|----------------------------|--|-----------------------------|---------------------|
| DUSTOMER PIGUG PETED JDC. WILLING NODRESS STATE ZIP CODE WELL DATA WELL | 3-5-14 | | Collins-F | Sennett | 16-14 | 16 | 255 | ITE | WO |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | CUSTOMER | | | | T | and the second part of the | | Course of the second second | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | Piqua | Petro | INC. | | | TRUCK # | DRIVER | TRUCK # | DRIVER |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | MAILING ADDRESS | | | | | 476 | Tash | | |
| CITY STATE ZIP CODE WELL DATA WELL DATA WELL DATA CASING SIZE WELL DATA WELL DATA WHELL DATA WELL DATA WHELL | * | | | | | 490 | | | |
| WELL DATA CASING SIZE TOTAL DEPTH CASING SIZE TOTAL DEPTH CASING SIZE TOTAL DEPTH TOTAL DEPTH < | CITY | | STATE | ZIP CODE | | 482 | DA V. | | |
| WELL DATA CASING SIZE CASING SIZE CASING SIZE CASING WEIGHT PLUG DEPTH TOTAL DEPTH TOTAL DEPTH TUBING SIZE 2/16 SELUC PACKER DEPTH OPEN HOLE PERPS & FORMATION BBL'S PLAGE BBL'S PUMPED TYPE OF TREATMENT. OPEN HOLE PERPS & FORMATION BEL'S PUMPED STAGE BEL'S PUMPED NJ RATE POPPANT STAGE PSI BREAKDOWN / 50 (0) MAD Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Colspa="2"Colspan="2"Colspan="2"Colspan="2"Colspan=" | Sill set in the | | 1.1.2 | Bill Same | | 521 | 1 Con 1 | | |
| WELL DATACASING SIZETOTAL DEPTHCASING VEICHTPLUG DEPTHTUBING SIZEACKER DEPTHTUBING VEICHTDPEN HOLEPERFS & FORMATIONDEPT HD26-3621STAGEPUMPEDNIN RATEPROPPANTPALD20ACIDSandCASING VEICHTDEPT HDERTS & FORMATIONDEPT HD26-3621STAGEPUMPEDNIN RATEPROPPANTPUMPEDNI RATEPROPPANTSAND / STAGEPSIBREAKDOWN / 50016:30Sand202012:204012:204012:201412:201512:201812:201912:201912:201913:101914:101915:101916:1019 | The section of the | | | and the second second | | 424 | | | |
| CASING WEIGHT PLUG DEPTH TUBING SIZE THE SELICE PACKER DEPTH TUBING WEIGHT OPEN HOLE PERFS & FORMATION 226-36 (21) SquitCCCL 37AGE PUMPED INJ RATE PROPART PUMPED RUMPED SAND/STAGE PSI 1226-36 (21) SquitCCCL 1630 Squit CCCL 1630 Squit CCCL 1220 Squit CCCL | | and the second se | | | | 6797102 | and a second and the second se | | |
| TUBING SIZE 2% SELLE PACKER DEPTH TUBING WEIGHT DOPEN HOLE PERFS & FORMATION 226-36(21) Squit CCCL BIBL'S STAGE BIBL'S PUMPED 1/220-36nd 1/220 Squid 1/220 Squid 1/200 Squid 1/200 Squid 1/200 Squid 1/2 | CASING SIZE | 1 | | | | | TYPE OF TR | REATMENT | |
| TUBING SIZE 276 SELLE PACKER DEPTH TUBING WEIGHT DOPEN HOLE DERFS & FORMATION 226-36 21 SquitCCC STAGE PUMPED 226-36 21 SquitCCC 3100^{4} SAND / STAGE PUMPED 1220 BBL'S 1220 30.04 1220 BREAKDOWN / 50.0 1630 Squit CCC 1630 Squit CCC 1220 BBL'S 1220 30.04 1220 BREAKDOWN / 50.0 1220 BREAKDOWN / 50.0 1220 BALL OF PRESSURE 1220 40 1220 40 122 | CASING WEIGH | IT, | PLUG DEPTH | | | Acidson | At Frac | w/acic | TOTE |
| TUBING WEIGHT OPEN HOLE PERFS & FORMATION PERFS & FORMATION BBL'S TAGE BBL'S PUMPED INJ RATE PROPPANT SAND / STAGE PSI PAD AO AO AO AO AO AO AO AO AO | TUBING SIZE | 27/2 DEUE | PACKER DEPTH | 4 | - | | | | |
| PERFS & FORMATION Acid - Inhibitor - Stim(); P26-36 21 Squitccl STAGE PUMPED INJ RATE PROPPANT SAND / STAGE PSI PAD 20 20 3004 START PRESSURE 12-20 Sand 20 3004 START PRESSURE 12-20 AIO 20 20 3004 START PRESSURE 12-20 AIO 20 20 3004 START PRESSURE 12-20 AIO 20 20 100 Rock SAIT PRESS 12-20 I ISIP 7'75 1220 100 ININ 12-20 I I ISIP 7'75 100 ININ 12-20 I I I ININ 1220 ININ I2-20 I I I ININ ININ 1220 I2-20 I | TUBING WEIGH | | OPEN HOLE | | | Bioride - | | - | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | PERFS & FORM | ATION | | | | | | - Stima | 1 |
| STAGE BBL'S INJ RATE PROPPANT SAND / STAGE PSI 16.30 Sqn.d 20 20 BREAKDOWN / 30.0 16.30 Sqn.d 20 20.04 STAGE 12.20 Sqn.d 20 20.04 STAGE 12.20 100 20 20.04 END PRESSURE 12.20 100 20 27.004 BALL OFF PRESS 12.20 100 20 27.004 BALL OFF PRESS 12.20 100 20 1.5004 5 MIN 12.20 1.5004 5 MIN 10 MIN 12.20 1.2 1.5004 5 MIN 12.20 1.2 1.5004 5 MIN 12.20 1.2 1.5004 5 MIN 12.20 1.2 1.5004 10 MIN 12.20 1.2 1.5004 MIN RATE FLUSH ADT.D X.2 TOTAL GOOD 4 DISPLACEMENT 4/.7 OVER FLUSH 1.0 20 SNND IND TOTAL BGUS 170 TOTAL MIL ACCEMEN | P26-" | 36 (21) | Squirro | cl | | the second second | uniter that | | |
| STAGE BBL'S PUMPED INJ RATE PROPPANT PPG SAND/STAGE PSI 16-30 3gnd 20 20 BREAKDOWN / 5000 16-30 3gnd 20 2004 START PRESSURE 12-20 3gnd 20 2004 END PRESSURE 12-20 10 20 27004 BALL OFF PRESS 12-20 10 10 10 10 12-20 12 10 10 10 10 12-20 12 12 10 10 10 12-20 12 12 10 10 10 12-20 12 12 13 10 11 12-20 12 12 13 10 11 12-20 12 12 13 10 11 12-20 12 12 14 15 10 12-20 12 12 14 15 10 12-20 12 12 14 15 | 0 200 0 | 00 | - yur | | | The second second | and the second | 4 | 2 - 201 - 10 |
| STAGEPUMPEDPPGIAD2020IAD20IAD20IAD20IAD20IAD20IAD20IAD20IAD20IAD20IAD20IAD20IAD20IAD20IAD20IAD20IAD20IAD20IAD20IAD10 MinIAD10 Min | | | , | | | | and the second second | Constant of the | alter of the second |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | ACE | | INJ RATE | | SAND / STAGE | PSI | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 51 | AGE | PUMPED | 1 | PPG | | | | IPAN |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | PAD | | 20 | | | De G D | | , | 1500 |
| $\frac{1220}{1220}$ $\frac{15000}{120}$ $\frac{12000}{120}$ $\frac{1200}{120}$ $\frac{1200}{120$ | | Sand | | | | 3004 | | 1 | |
| $\frac{1220}{1220}$ $\frac{15000}{120}$ $\frac{12000}{120}$ $\frac{1200}{120}$ $\frac{1200}{120$ | | Sand | GALL | | | 00004 | | END PRESSUR | E |
| $\frac{1220}{1220}$ $\frac{15000}{120}$ $\frac{12000}{120}$ $\frac{1200}{120}$ $\frac{1200}{120$ | 12-20 | Gal | 2101. | 20 | | 2/00 (+ | | BALL OFF PRES | SS |
| 12-20 20 1,500 ^{ff} 5 MIN 12-20 12 17 10 MIN 12-20 12 18 15 MIN 12-20 12 14 FLUSH (ASTNE 5 20 MAX RATE MAX RATE MAX RATE MAX RATE Release bolls for T.D X 2 TOTAL 6,000 4 Displacement 4,9 OVER FLUSH / 00 20 SAIND 10 TOTAL BBS 170 10 10 REMARKS: 150 gal (RAW AlcL acid - OTF) 10 Authorization 115PM - 2:00 PM 40.' Miles Authorization | 12-201 | 7-1(3) | | | | | | ROCK SALT PR | ESS |
| 12-20 12-20 10 MIN 12-20 12 18 10 MIN 12-20 18 15 MIN 12-20 18 1,500 M Max Rate Max Rate Release bolls to T.D x 2 ToTAL 6,000 M OVER FLUSH 10 20 TOTAL BBOS TO 20 TOTAL BBOS TO 20 Spotled 75 gal -15%. Hicl acid on perfs Blend 150 gal RAW Hicl acid - ottf Vocation 1:15PM - 2:00 M 40: Miles Authorization Title Date 3-5-14 | 12-20 | 50 | | L | | 1 | | ISIP 77 | > |
| 1220 + 0 = 18 15 MIN 1220 18 1,500 ^H MIN RATE FLUSH CASING 5 20 MAX RATE Release bells to T.D.X & TOTAL 6,000 H DISPLACEMENT 4, 9 OVERFLUSH 10 20 5AND DISPLACEMENT 4, 9 TOTAL BBLS 170 20 5AND DISPLACEMENT 4, 9 REMARKS: Spotled 75 gal -15 ^H , HCL acid on perts Blend 150 gal RAW HCL acid - OTF Tocation 1:15PM - 2:00PM 40: miles AUTHORIZATION TITLE DATE 3-5-14 | 12-20 | | | 20 | | 1,500" | | 5 MIN | - |
| 12:20 10 18 1500 18 15 MIN RATE 12:20 18 1,500 MIN RATE FLUSH CASING 5 20 MAX RATE Release bolls ATIDX2 TOTAL 6,000 M DISPLACEMENT 4,9 OVERFLUSH 10 20 5AND DISPLACEMENT 4,9 TOTAL BBSS 170 N DECTS REMARKS: Spotled 75 gal -15% HCL acid on perts Poration 1:15PM - 2:00PM 40: Miles AUTHORIZATION TITLE DATE 3-5-14 | 12:20 | (4) + (2) | Rolls | 19 | | | | 10 MIN | 1 |
| 1220 18 1,500" MIN RATE FLUSH (AS/NG 5 20 MAX RATE Release bolls for T.D X 2 TOTAL 6,000 # DISPLACEMENT 4,7 OVER FLUSH 10 20 SAND TOTAL BBUS 170 20 SAND ISPLACEMENT 4,7 REMARKS: Spotled 75 gal -15%. HCL acid on perfs ISPLACEMENT 4,7 Jocation 1:150 gal RAW HCL acid - OTF 40: Miles Authorization TITLE DATE 3-5-14 | | +0) | tern | 18 | | | | 15 MIN | [|
| Release bolls to T.D.X.2 TOTAL 6,000 4 DISPLACEMENT 4,9 OVERFLUSH 10 20 SAND TOTAL BBLS 170 REMARKS: Spotled 75 gal-15% HCL acid on perfs Potend 150 gal RAW HCL acid - OTF Tocation 1:15PM - 2:00PM 40: miles AUTHORIZATION TITLE DATE 3-5-14 | 12-20 | 1000 | 13) | | | 1500# | | MIN RATE | 4 |
| Release bolls to T.D.X.2 TOTAL 6,000 4 DISPLACEMENT 4,9 OVERFLUSH 10 20 SAND TOTAL BBLS 170 REMARKS: Spotled 75 gal-15% HCL acid on perfs Potend 150 gal RAW HCL acid - OTF Tocation 1:15PM - 2:00PM 40: miles AUTHORIZATION TITLE DATE 3-5-14 | FLUSH | CASING | 5 | 20 | | The second | | MAX RATE | |
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| Spotled 75 gal-15%. HCLacid on perfs Pstend 150 gal RAW HCLacid - OTF Authorization 1:15PM - 2:00PM Title Date 3-5-14 | TOTA | L DDG | 1//0 | | | | | | |
| Blend 150 get RAW HCL acid - OTF Tocation 1:15PM - 2:00PM 40: miles AUTHORIZATION TITLE DATE 3-5-14 | REMARNO: | 1 40 | 1-1-1-1 | Tot or | 1 21 | anato | | | |
| AUTHORIZATION TITLE DATE 3-5-14 | | 2 75 ga | 10-15% | ALL CICI | don | peris | | | . *· |
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| | 10(9)1 | on 1:1- | 25/11 - | aroun | | | 40 | , mics | ~ 1 |
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