KOLAR Document ID: 1482945

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

| OPERATOR: License # | API No.: |
|---|---|
| Name: | Spot Description: |
| Address 1: | SecTwpS. R East West |
| 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: () | □NE □NW □SE □SW |
| CONTRACTOR: License # | GPS Location: Lat:, Long: |
| Name: | (e.g. xx.xxxxx) (e.gxxx.xxxxx) |
| Wellsite Geologist: | Datum: NAD27 NAD83 WGS84 |
| Purchaser: | County: |
| Designate Type of Completion: | Lease Name: Well #: |
| New Well Re-Entry Workover | Field Name: |
| | Producing Formation: |
| ☐ Oil ☐ WSW ☐ SWD ☐ Gas ☐ DH ☐ EOR | Elevation: Ground: Kelly Bushing: |
| | 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 EOR □ Conv. to SWD □ Plug Back □ Liner □ Conv. to GSW □ Conv. to Producer | Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) |
| Commingled Permit #: | Chloride content: ppm Fluid volume: bbls |
| Dual Completion Permit #: | Dewatering method used: |
| SWD Permit #: | Location of fluid disposal if hauled offsite: |
| EOR Permit #: | · |
| GSW Permit #: | Operator Name: |
| | 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 #: |
| | 1 000000 |

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

| KCC Office Use ONLY | | | | | | |
|---|--|--|--|--|--|--|
| Confidentiality Requested | | | | | | |
| Date: | | | | | | |
| Confidential Release Date: | | | | | | |
| ☐ Wireline Log Received ☐ Drill Stem Tests Received | | | | | | |
| Geologist Report / Mud Logs Received | | | | | | |
| UIC Distribution | | | | | | |
| ALT I II III Approved by: Date: | | | | | | |

KOLAR Document ID: 1482945

Page Two

| Operator Name: _ | | | | Lease Name: | Name: Well #: | | | |
|--|---------------------|-----------------------|---|----------------------|-------------------------------|---------------------|---|--|
| Sec Twp. | S. R. | E | ast West | County: | | | | |
| | flowing and shu | ut-in pressures, v | vhether shut-in pre | ssure reached st | atic level, hydrosta | tic pressures, bot | | val tested, time tool erature, fluid recovery, |
| Final Radioactivity files must be subm | | | | | | iled to kcc-well-lo | gs@kcc.ks.gov | v. Digital electronic log |
| Drill Stem Tests Ta | | | Yes No | | | on (Top), Depth ar | | Sample |
| Samples Sent to 0 | Geological Surv | /ey | Yes No | Na | me | | Тор | Datum |
| Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru | _ | | Yes No Yes No Yes No | | | | | |
| | | B | CASING eport all strings set-c | | New Used | ion, etc. | | |
| Purpose of Strir | | Hole illed | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| | | | | | | | | |
| | | | | | | | | |
| | | | ADDITIONAL | CEMENTING / SO | UEEZE RECORD | | | |
| Purpose: | | epth T Bottom | ype of Cement | # Sacks Used | ed Type and Percent Additives | | | |
| Perforate Protect Casi Plug Back T | | | | | | | | |
| Plug Off Zor | | | | | | | | |
| Did you perform a Does the volume Was the hydraulic | of the total base f | fluid of the hydrauli | | _ | = | No (If No, sk | ip questions 2 an ip question 3) out Page Three | , |
| Date of first Product Injection: | tion/Injection or R | esumed Production | Producing Meth | nod: | Gas Lift 0 | Other (Explain) | | |
| Estimated Production Per 24 Hours | on | Oil Bbls. | | | | | Gas-Oil Ratio | Gravity |
| DISPOS | SITION OF GAS: | | N | METHOD OF COMP | LETION: | | | DN INTERVAL: Bottom |
| | Sold Used | I on Lease | Open Hole | | | mmingled mit ACO-4) | Тор | BOROTT |
| , | , | | | B.11 B1 | | | | |
| Shots Per Foot | Perforation Top | Perforation Bottom | Perforation Bridge Plug Bridge Plug Acid, Fracture, Shot, Cementing Squeeze Record (Amount and Kind of Material Used) | | | | Record | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| TUBING RECORD: | : Size: | Set | Δ+- | Packer At: | | | | |
| TODING RECORD: | . 3126. | | n. | i donei Al. | | | | |

| Form | ACO1 - Well Completion |
|-----------|------------------------|
| Operator | L. D. Drilling, Inc. |
| Well Name | RAMSEY TRUST 15B 1 |
| Doc ID | 1482945 |

All Electric Logs Run

| DUAL COMP POROSITY LOG |
|--------------------------------|
| MICRORESISTIVITY LOG |
| DUAL INDUCTION LOG |
| BOREHOLE COMPENSATED SONIC LOG |

| Form | ACO1 - Well Completion |
|-----------|------------------------|
| Operator | L. D. Drilling, Inc. |
| Well Name | RAMSEY TRUST 15B 1 |
| Doc ID | 1482945 |

Tops

| Name | Тор | Datum |
|------------------|------|-------|
| ANHYDRITE | 2268 | +692 |
| BASE ANHYDRITE | 2286 | +674 |
| STOTLER | 3529 | -569 |
| HEEBNER | 3918 | -958 |
| LANSING | 3958 | -998 |
| MUNCIE | 4140 | -1180 |
| BASE KANSAS CITY | 4323 | -1363 |
| ALTAMONT | 4377 | -1417 |
| PAWNEE | 4450 | -1490 |
| FT SCOTT | 4499 | -1539 |
| CHEROKEE | 4520 | -1560 |
| JOHNSON | 4560 | -1600 |
| MISSISSIPPI | 4590 | -1630 |

| Form | ACO1 - Well Completion |
|-----------|------------------------|
| Operator | L. D. Drilling, Inc. |
| Well Name | RAMSEY TRUST 15B 1 |
| Doc ID | 1482945 |

Casing

| Purpose Of String | Size Hole Drilled | Size Casing Set | Weight | | Type Of Cement | | Type and Percent Additives |
|----------------------|----------------------|-----------------------|--------|------|-------------------|-----|----------------------------------|
| Surface | 12.25 | 8.625 | 23 | 251 | COMMON | | 3%CC,2% GEL |
| Production | 7.875 | 7.875 | 15.5 | 4681 | AA-2 | 180 | 10%Salt, 1/4# CF |
| | | | | | | | |
| | | | | | | | |



Uploading recovery &

pressures

Company: Ritchie Exploration, Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

2nd Open

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE June 19

2019

DST #1 Formation: Lans H Test Interval: 4126 -Total Depth: 4180' 4180'

> Time On: 01:44 06/19 Time Off: 11:09 06/19

Time On Bottom: 04:27 06/19 Time Off Bottom: 07:27 06/19

Electronic Volume Estimate: 1305'

1st Open Minutes: 30 **Current Reading:** 60.8" at 30 min

Max Reading: 60.8"

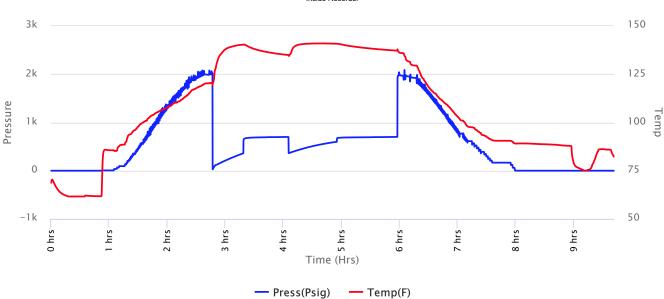
1st Close Minutes: 45 Current Reading: 0" at 45 min

Minutes: 45 **Current Reading:** 57.1" at 45 min Max Reading: 0" Max Reading: 57.1"

2nd Close Minutes: 60 **Current Reading:** 0" at 60 min

Max Reading: 0"

Inside Recorder





Uploading recovery &

pressures

Company: Ritchie Exploration, Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE

June 19 2019 **DST #1** Formation: Lans H Test Interval: 4126 -

Total Depth: 4180'

4180'

Time On: 01:44 06/19

Time Off: 11:09 06/19

Time On Bottom: 04:27 06/19 Time Off Bottom: 07:27 06/19

Recovered

BBLS Description of Fluid Foot 184 2.61832 **HMCW** 1134 14.404229 **SLMCW**

Gas % <u>Oil %</u> Water % Mud % 0 0 55 45 0 0 95 5

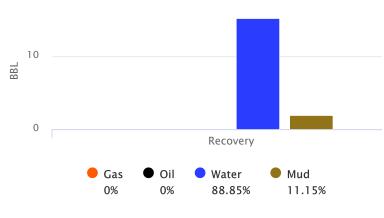
Total Recovered: 1318 ft

Total Barrels Recovered: 17.022549

Reversed Out NO

| Initial Hydrostatic Pressure | 1988 | PSI |
|------------------------------|------------|-----|
| Initial Flow | 28 to 359 | PSI |
| Initial Closed in Pressure | 699 | PSI |
| Final Flow Pressure | 364 to 598 | PSI |
| Final Closed in Pressure | 700 | PSI |
| Final Hydrostatic Pressure | 1984 | PSI |
| Temperature | 141 | °F |
| | | |
| Pressure Change Initial | 0.0 | % |
| Close / Final Close | | |

Recovery at a glance



GIP cubic foot volume: 0



Uploading recovery &

pressures

Company: Ritchie Exploration,

Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

<u>DATE</u> June

19

2019

DST #1 Formation: Lans H Test Interval: 4126 -Total Depth: 4180' 4180'

Time On: 01:44 06/19 Time Off: 11:09 06/19

Time On Bottom: 04:27 06/19 Time Off Bottom: 07:27 06/19

BUCKET MEASUREMENT:

1st Open: 1" Blow. BOB in 5 mins

1st Close: NOBB

2nd Open: 1/4" Blow. BOB in 7 3/4 mins

2nd Close: NOBB

REMARKS:

Tool Sample: 0% Gas 0% Oil 95% Water 5% Mud

Ph: 7

Measured RW: .26 @ 61 degrees °F

RW at Formation Temp: 0.119 @ 141 °F

Chlorides: 26,000 ppm



Uploading recovery &

pressures

Company: Ritchie Exploration, SEC: 15 TWN: 1 County: SCOTT

Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE

June 19

2019

DST #1 Formation: Lans H

Test Interval: 4126 -

Total Depth: 4180'

4180'

Time On: 01:44 06/19 Time Off: 11:09 06/19

Time On Bottom: 04:27 06/19 Time Off Bottom: 07:27 06/19

Down Hole Makeup

Heads Up: 13.16 FT Packer 1: 4120.71 FT

Drill Pipe: 3920.2 FT Packer 2: 4125.71 FT

ID-3 1/2 Top Recorder: 4110.13 FT

Weight Pipe: FT

Bottom Recorder: 4164 FT ID-2 7/8

Well Bore Size: 7 7/8 Collars: 186.1 FT

1" **Surface Choke:** ID-2 1/4

Bottom Choke: 5/8" **Test Tool:** 33.57 FT

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 54.29

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 3 FT

4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 31.29 FT

ID-3 1/2

Change Over: 1 FT

Perforations: (below): 17 FT

4 1/2-FH



Uploading recovery &

pressures

Company: Ritchie Exploration, SEC: 15 TWN: 19S RNG: 31W County: SCOTT

Inc.

Lease: Ramsey Trust 15B #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE June

19 2019 **DST #1** Formation: Lans H Test Interval: 4126 -Total Depth: 4180'

4180'

Time On: 01:44 06/19 Time Off: 11:09 06/19

Time On Bottom: 04:27 06/19 Time Off Bottom: 07:27 06/19

Mud Properties

Mud Type: Chem Weight: 9 Viscosity: 64 Filtrate: 6.4 Chlorides: 1500 ppm



Uploading recovery &

pressures

Company: Ritchie Exploration,

Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE
June
19
2019

DST #1 Formation: Lans H

Test Interval: 4126 -

Total Depth: 4180'

4180'

Time On: 01:44 06/19 Time Off: 11:09 06/19

Time On Bottom: 04:27 06/19 Time Off Bottom: 07:27 06/19

Gas Volume Report

1st Open 2nd Open

| Time | Orifice | PSI | MCF/D | | Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|--|------|---------|-----|-------|
|------|---------|-----|-------|--|------|---------|-----|-------|



Company: Ritchie Exploration, Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

Operation:
Uploading recovery & pressures

June 19 2019 DST #2 Formation: Lans I Test Interval: 4182 - Total Depth: 4210'

4210'

Time On: 19:28 06/19 Time Off: 03:26 06/20

Time On Bottom: 21:49 06/19 Time Off Bottom: 00:49 06/20

Electronic Volume Estimate: 230' 1st Open Minutes: 30 Current Reading: 3.2" at 30 min

Max Reading: 3.2"

1st Close Minutes: 45 Current Reading: 0" at 45 min

Max Reading: 1.2"

<u>2nd Open</u> Minutes: 45 Current Reading:

5.3" at 45 min

Max Reading: 5.3" Max Reading: .1"

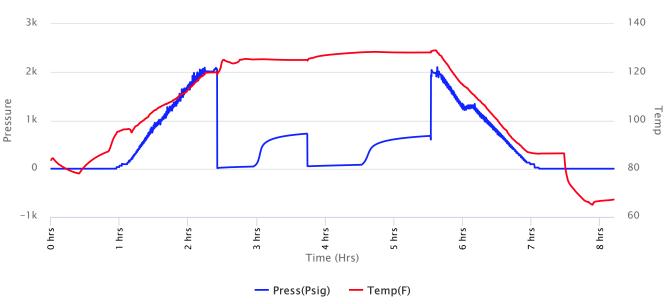
2nd Close

Minutes: 60

Current Reading:

.1" at 60 min

Inside Recorder





Company: Ritchie Exploration, Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

Uploading recovery & pressures

Operation:

| DATE | |
|------|--|
| June | |
| 19 | |
| 2019 | |

DST #2 Formation: Lans I Test Interval: 4182 - Total Depth: 4210' 4210'

Time On: 19:28 06/19 Time Off: 03:26 06/20

Time On Bottom: 21:49 06/19 Time Off Bottom: 00:49 06/20

Recovered

| <u>Foot</u> | BBLS | Description of Fluid |
|-------------|----------|----------------------|
| 73 | 0.972689 | G |
| 116 | 0.57072 | 0 |
| 63 | 0.30996 | SLGCM |

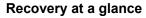
| Gas % | <u>Oii %</u> | <u>water %</u> | Mud % |
|-------|--------------|----------------|-------|
| 100 | 0 | 0 | 0 |
| 0 | 100 | 0 | 0 |
| 7 | 0 | 0 | 93 |

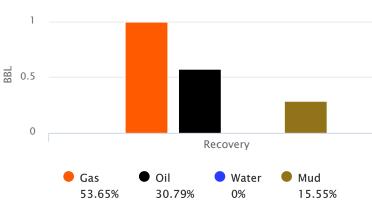
Total Recovered: 252 ft

Total Barrels Recovered: 1.853369

| Reversed Out |
|--------------|
| NO |

| Initial Hydrostatic Pressure | 2013 | PSI |
|------------------------------|----------|-----|
| Initial Flow | 12 to 45 | PSI |
| Initial Closed in Pressure | 726 | PSI |
| Final Flow Pressure | 51 to 82 | PSI |
| Final Closed in Pressure | 681 | PSI |
| Final Hydrostatic Pressure | 2011 | PSI |
| Temperature | 129 | °F |
| | | |
| Pressure Change Initial | 6.3 | % |
| Close / Final Close | | |





GIP cubic foot volume: 5.58298



Uploading recovery &

pressures

Company: Ritchie Exploration, Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATEJune

19 2019

DST #2 Formation: Lans I Test Interval: 4182 - Total Depth: 4210'

Time On: 19:28 06/19 Time Off: 03:26 06/20

Time On Bottom: 21:49 06/19 Time Off Bottom: 00:49 06/20

BUCKET MEASUREMENT:

1st Open: WSB. Built to 3 1/4 inch in 30 mins

1st Close: NOBB

2nd Open: WSB. Built to 5 1/4 inch in 45 mins

2nd Close: Weak Surface Below

REMARKS:

Tool Sample: 10% Gas 10% Oil 0% Water 80% Mud

Gravity: 29 @ 60 °F



Uploading recovery &

pressures

Company: Ritchie Exploration, SEC: 15 TWN: 1 County: SCOTT

Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE

June 19

2019

DST #2 Formation: Lans I Test Interval: 4182 -

Total Depth: 4210'

4210'

Time On: 19:28 06/19 Time Off: 03:26 06/20

Time On Bottom: 21:49 06/19 Time Off Bottom: 00:49 06/20

Down Hole Makeup

Heads Up: 19.23 FT Packer 1: 4177 FT

Drill Pipe: 3982.56 FT Packer 2: 4182 FT

ID-3 1/2 Top Recorder: 4166.42 FT

Weight Pipe: FT

Bottom Recorder: 4184 FT ID-2 7/8

Well Bore Size: 7 7/8 Collars: 186.1 FT

1" **Surface Choke:** ID-2 1/4

Bottom Choke: 5/8" **Test Tool:** 33.57 FT

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 28

Anchor Makeup

Packer Sub: 1 FT

FT Perforations: (top):

4 1/2-FH

Change Over:

Drill Pipe: (in anchor): FT

ID-3 1/2

Change Over: FT

Perforations: (below): 27 FT

4 1/2-FH



Uploading recovery &

pressures

Company: Ritchie Exploration, SEC: 15 TWN: 19S RNG: 31W County: SCOTT

Inc.

Lease: Ramsey Trust 15B #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE June

19 2019 **DST #2** Formation: Lans I Test Interval: 4182 -Total Depth: 4210'

4210'

Time On: 19:28 06/19 Time Off: 03:26 06/20

Time On Bottom: 21:49 06/19 Time Off Bottom: 00:49 06/20

Mud Properties

Mud Type: Chem Weight: 9.2 Viscosity: 54 Filtrate: 6.8 Chlorides: 2000 ppm



Uploading recovery &

pressures

Company: Ritchie Exploration,

Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

2nd Open

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE
June
19
2019

DST #2 Formation: Lans I

Test Interval: 4182 -

Total Depth: 4210'

4210'

Time On: 19:28 06/19 Time Off: 03:26 06/20

Time On Bottom: 21:49 06/19 Time Off Bottom: 00:49 06/20

Gas Volume Report

1st Open

| Time | Orifice | PSI | MCF/D | Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|------|---------|-----|-------|
| | | | | I | | | |



Uploading recovery &

pressures

Company: Ritchie Exploration, Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE June 20

2019

DST #3 Formation: Lans J Test Interval: 4212 -Total Depth: 4237.60'

4238'

Time On: 10:50 06/20 Time Off: 19:00 06/20

Time On Bottom: 13:09 06/20 Time Off Bottom: 16:09 06/20

Electronic Volume Estimate: 205'

1st Open Minutes: 30 **Current Reading:** 4" at 30 min

Current Reading: 0" at 45 min Max Reading: 0"

1st Close

Minutes: 45

2nd Open Minutes: 45 **Current Reading:** 3.5" at 45 min

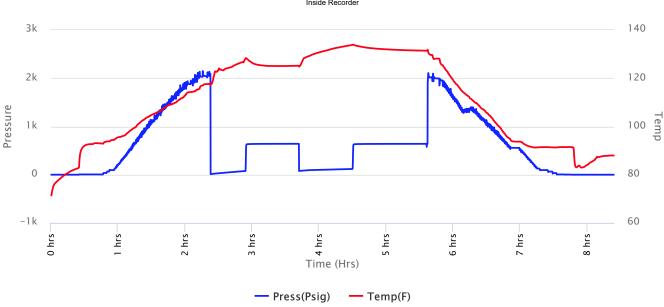
2nd Close Minutes: 60 Current Reading: 0" at 60 min

Max Reading: 4"

Max Reading: 3.5"

Max Reading: 0"

Inside Recorder





Uploading recovery &

pressures

Company: Ritchie Exploration, Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DST #3 Formation: Lans J

Test Interval: 4212 - 4238'

Total Depth: 4237.60'

June

20 2019

Time On Bottom: 13:09 06/20 Time Off Bottom: 16:09 06/20

Recovered

| <u>Foot</u> | <u>BBLS</u> | Description of Fluid |
|-------------|-------------|----------------------|
| 53 | 0.75419 | SLOCHMCW |
| 189 | 0.956879 | SLOCSLMCW |

| Gas % | <u>Oil %</u> | Water % | Mud % |
|-------|--------------|---------|-------|
| 0 | 2 | 63 | 35 |
| 0 | 1 | 83 | 16 |

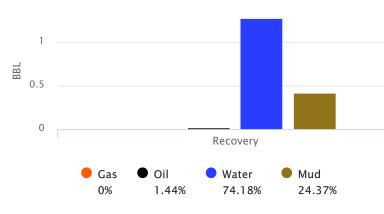
Total Recovered: 242 ft

Total Barrels Recovered: 1.711069

| Reversed | Out |
|----------|-----|
| NO | |

| Initial Hydrostatic Pressure | 2041 | PSI |
|------------------------------|-----------|-----|
| Initial Flow | 12 to 77 | PSI |
| Initial Closed in Pressure | 640 | PSI |
| Final Flow Pressure | 76 to 119 | PSI |
| Final Closed in Pressure | 639 | PSI |
| Final Hydrostatic Pressure | 2043 | PSI |
| Temperature | 134 | °F |
| | | |
| Pressure Change Initial | 0.1 | % |
| Close / Final Close | | |

Recovery at a glance



GIP cubic foot volume: 0



Uploading recovery &

pressures

Company: Ritchie Exploration, Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE

June

20 2019

DST #3 Formation: Lans J

Test Interval: 4212 -

Total Depth: 4237.60'

4238'

Time On: 10:50 06/20 Time Off: 19:00 06/20

Time On Bottom: 13:09 06/20 Time Off Bottom: 16:09 06/20

BUCKET MEASUREMENT:

1st Open: 1/4" Blow. Built 4 inches in 30 mins

1st Close: NOBB

2nd Open: WSB. Built to 3 1/2 inches in 45 mins

2nd Close: NOBB

REMARKS:

Tool Sample: 0% Gas 10% Oil 60% Water 30% Mud

Ph: 7

Measured RW: .33 @ 80 degrees °F

RW at Formation Temp: 0.203 @ 134 °F

Chlorides: 22,000 ppm



Uploading recovery &

pressures

Company: Ritchie Exploration, SEC: 15 TWN: 1 County: SCOTT

Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE

June

20 2019 **DST #3** Formation: Lans J

Test Interval: 4212 -

Total Depth: 4237.60'

4238'

Time On: 10:50 06/20 Time Off: 19:00 06/20

Time On Bottom: 13:09 06/20 Time Off Bottom: 16:09 06/20

Down Hole Makeup

Heads Up: 20.52 FT Packer 1: 4207 FT

Drill Pipe: 4013.85 FT Packer 2: 4212 FT

ID-3 1/2

Top Recorder: 4196.42 FT

Weight Pipe: FT **Bottom Recorder:** 4214.6 FT

ID-2 7/8 Well Bore Size: 7 7/8

Collars: 186.1 FT 1" **Surface Choke:** ID-2 1/4

Bottom Choke: 5/8" **Test Tool:** 33.57 FT

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 25

Anchor Makeup

Packer Sub: 1 FT

FT Perforations: (top):

4 1/2-FH

Change Over:

Drill Pipe: (in anchor): FT

ID-3 1/2

Change Over: FT

24 FT

4 1/2-FH

Perforations: (below):



Uploading recovery &

pressures

Company: Ritchie Exploration, SEC: 15 TWN: 19S RNG: 31W County: SCOTT

Inc.

Lease: Ramsey Trust 15B #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE

June 20 2019

DST #3 Formation: Lans J Test Interval: 4212 -

Total Depth: 4237.60'

4238'

Time On: 10:50 06/20 Time Off: 19:00 06/20

Time On Bottom: 13:09 06/20 Time Off Bottom: 16:09 06/20

Mud Properties

Mud Type: Chem Weight: 9.2 Viscosity: 53 Filtrate: 7.2 Chlorides: 2500 ppm



Uploading recovery &

pressures

Company: Ritchie Exploration,

Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W County: SCOTT

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE June 20 2019

DST #3 Formation: Lans J

Test Interval: 4212 -Total Depth: 4237.60'

4238'

Time On: 10:50 06/20 Time Off: 19:00 06/20

Time On Bottom: 13:09 06/20 Time Off Bottom: 16:09 06/20

Gas Volume Report

1st Open 2nd Open

| Time | Orifice | PSI | MCF/D | Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|------|---------|-----|-------|
| | | | | | | | |



Company: Ritchie Exploration, Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

2nd Close

Minutes: 60

Current Reading:

0" at 60 min

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

Uploading recovery & pressures

June

21

2019

DATE

DST #4 Formation: Lans K+L

Time On: 07:49 06/21

Test Interval: 4240 -

Total Depth: 4326'

4326'

Time Off: 15:59 06/21

Time On Bottom: 10:16 06/21 Time Off Bottom: 13:16 06/21

Electronic Volume Estimate: 1039'

1st Open Minutes: 30 **Current Reading:** 47.9" at 30 min

Max Reading: 47.9"

0" at 45 min Max Reading: 0"

1st Close

Minutes: 45

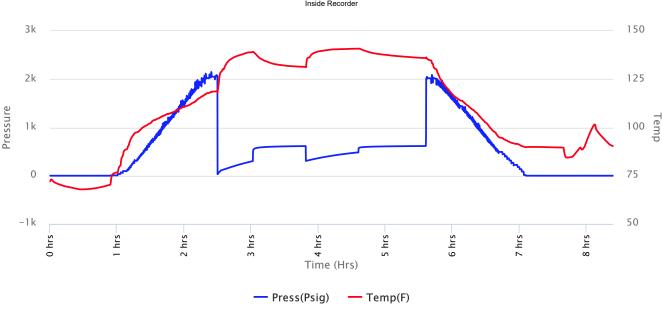
Current Reading:

2nd Open Minutes: 45 **Current Reading:**

38.7" at 45 min

Max Reading: 38.7" Max Reading: 0"

Inside Recorder





Company: Ritchie Exploration, Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

Uploading recovery & pressures

Operation:

| DATE | |
|-------------|--|
| June | |
| 21 | |
| 2019 | |

DST #4 Formation: Lans Test Interval: 4240 -Total Depth: 4326' K+L 4326'

> Time On: 07:49 06/21 Time Off: 15:59 06/21

Time On Bottom: 10:16 06/21 Time Off Bottom: 13:16 06/21

Recovered

| <u>Foot</u> | <u>BBLS</u> | Description of Fluid | <u>Gas %</u> | <u>Oil %</u> | Water % | <u>Mud %</u> |
|-------------|-------------|----------------------|--------------|--------------|---------|--------------|
| 174 | 2.47602 | SLOCHWCM | 0 | 2 | 48 | 50 |
| 882 | 10.818269 | SLMCW | 0 | 0 | 98 | 2 |

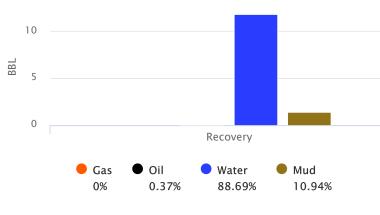
Total Recovered: 1056 ft

Total Barrels Recovered: 13,294289

| Reversed (| Out |
|------------|-----|
| NO | |

| Initial Hydrostatic Pressure | 2018 | PSI |
|------------------------------|------------|-----|
| Initial Flow | 30 to 302 | PSI |
| Initial Closed in Pressure | 614 | PSI |
| Final Flow Pressure | 306 to 483 | PSI |
| Final Closed in Pressure | 615 | PSI |
| Final Hydrostatic Pressure | 2018 | PSI |
| Temperature | 141 | °F |
| | | |
| Pressure Change Initial | 0.0 | % |
| Close / Final Close | | |

Recovery at a glance



GIP cubic foot volume: 0



Uploading recovery &

pressures

Company: Ritchie Exploration, Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

<u>DATE</u> June 21

DST #4 **Formation: Lans** K+L

Test Interval: 4240 -4326'

Total Depth: 4326'

Time On: 07:49 06/21

Time Off: 15:59 06/21

Time On Bottom: 10:16 06/21 Time Off Bottom: 13:16 06/21

BUCKET MEASUREMENT:

2019

1st Open: 1/2" Blow. BOB in 6 mins

1st Close: NOBB

2nd Open: 1/4" Blow. BOB in 11 mins

2nd Close: NOBB

REMARKS:

Tool Sample: 0% Gas 0% Oil 100% Water 0% Mud

Ph: 7

Measured RW: .33 @ 80 degrees °F

RW at Formation Temp: 0.194 @ 141 °F

Chlorides: 27,000 ppm



Uploading recovery &

pressures

Company: Ritchie Exploration, SEC: 15 TWN: 1 County: SCOTT

Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE

June

21 2019 **DST #4** Formation: Lans K+L

Test Interval: 4240 -4326'

Total Depth: 4326'

Time On: 07:49 06/21

Time Off: 15:59 06/21

Time On Bottom: 10:16 06/21 Time Off Bottom: 13:16 06/21

Down Hole Makeup

Heads Up: 22.36 FT Packer 1: 4235.09 FT

Drill Pipe: 4043.78 FT Packer 2: 4240.09 FT

ID-3 1/2

Top Recorder: 4224.51 FT

Weight Pipe: FT

ID-2 7/8

Bottom Recorder: 4310 FT

Collars: 186.1 FT Well Bore Size: 7 7/8

ID-2 1/4

1" **Surface Choke:**

Test Tool: 33.57 FT **Bottom Choke:** 5/8"

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 85.91

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 3 FT

4 1/2-FH

Change Over: .5 FT

Drill Pipe: (in anchor): 63.41 FT

ID-3 1/2

Change Over: 1 FT

Perforations: (below): 17 FT

4 1/2-FH



Uploading recovery &

pressures

Company: Ritchie Exploration, SEC: 15 TWN: 19S RNG: 31W County: SCOTT

Inc.

Lease: Ramsey Trust 15B #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE

June 21 2019

DST #4 Formation: Lans K+L

Test Interval: 4240 -

Total Depth: 4326'

4326'

Time On: 07:49 06/21 Time Off: 15:59 06/21

Time On Bottom: 10:16 06/21 Time Off Bottom: 13:16 06/21

Mud Properties

Chlorides: 2000 ppm Mud Type: Chem Weight: 9.3 Viscosity: 51 Filtrate: 6.4



Uploading recovery &

pressures

Company: Ritchie Exploration,

Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATEJune **21**2019

DST #4 Formation: Lans K+L

Test Interval: 4240 -

Total Depth: 4326'

4326'

Time On: 07:49 06/21 Time Off: 15:59 06/21

Time On Bottom: 10:16 06/21 Time Off Bottom: 13:16 06/21

Gas Volume Report

1st Open 2nd Open

| Time | Orifice | PSI | MCF/D | | Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|--|------|---------|-----|-------|
|------|---------|-----|-------|--|------|---------|-----|-------|



Uploading recovery &

pressures

Company: Ritchie Exploration, Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE

June

22

2019

DST #5 Formation: Altamont Test Interval: 4394 - Total Depth: 4412'

Time On Bottom: 11:35 06/22 Time Off Bottom: 14:35 06/22

Electronic Volume Estimate:

64'

1st Open Minutes: 30 Current Reading:

1.2" at 30 min

Max Reading: 1.2"

1st Close Minutes: 45 Current Reading: 0" at 45 min

Max Reading: 0"

<u>2nd Open</u> Minutes: 45 Current Reading:

.7" at 45 min

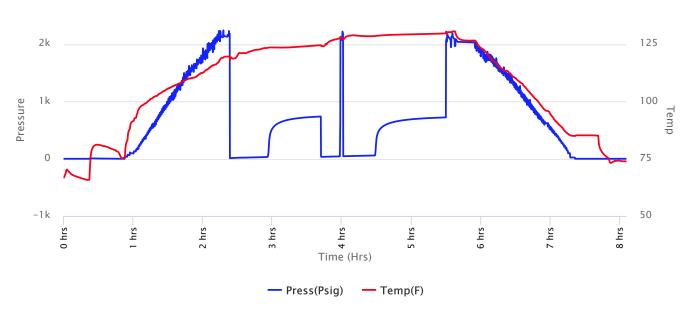
Max Reading: .7"

2nd Close Minutes: 60 Current Reading:

0" at 60 min

Max Reading: 0"

Inside Recorder





Company: Ritchie Exploration, Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

Operation:

Uploading recovery & pressures

DATEJune **22**2019

DST #5 Formation: Altamont Test Interval: 4394 - Total Depth: 4412'

Time On: 09:15 06/22 Time Off: 17:07 06/22

Time On Bottom: 11:35 06/22 Time Off Bottom: 14:35 06/22

Recovered

| <u>Foot</u> | <u>BBLS</u> | Description of Fluid | <u>Gas %</u> | <u>Oil %</u> | Water % | <u>Mud %</u> |
|-------------|-------------|----------------------|--------------|--------------|---------|--------------|
| 65 | N 3108 | HWCM | Λ | Ω | 35 | 65 |

Reversed Out

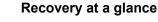
NO

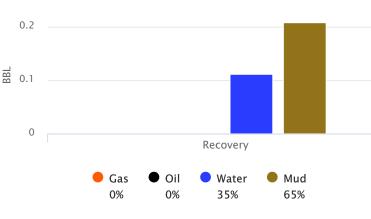
Total Recovered: 65 ft
Total Barrels Recovered: 0.3198

| Initial Hydrostatic Pressure | 2131 | PSI |
|------------------------------|----------|-----|
| Initial Flow | 9 to 33 | PSI |
| Initial Closed in Pressure | 738 | PSI |
| Final Flow Proceuro | 33 to 50 | DGI |

| 738 | PSI |
|----------|--------------------------------|
| 33 to 59 | PSI |
| 723 | PSI |
| 2132 | PSI |
| 130 | °F |
| | 33 to 59 723 2132 |

Pressure Change Initial 2.1 %
Close / Final Close





GIP cubic foot volume: 0



Uploading recovery &

pressures

Company: Ritchie Exploration, Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATEJune **22**2019

DST #5 Formation: Altamont Test Interval: 4394 - Total Depth: 4412'

Time On: 09:15 06/22 Time Off: 17:07 06/22

Time On Bottom: 11:35 06/22 Time Off Bottom: 14:35 06/22

BUCKET MEASUREMENT:

1st Open: WSB. Built to 1 inch in 30 mins.

1st Close: NOBB

2nd Open: No Blow. Flushed tool, Built to 3/4 inch blow in 45 mins

2nd Close: NOBB

REMARKS:

Flushed tool 20 mins into second opening.

Ended Open shutting hydro tool on the flush causing the middle hydro stat on final opening.

Tool Sample: 0% Gas 2% Oil 30% Water 68% Mud

Ph: 8

Measured RW: .5 @ 69 degrees °F

RW at Formation Temp: 0.277 @ 130 °F

Chlorides: 16,000 ppm



Uploading recovery &

pressures

Company: Ritchie Exploration,

Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE

June **22**

2019

DST #5 Formation: Altamont Test Interval: 4394 - Total Depth: 4412'

Time On Bottom: 11:35 06/22 Time Off Bottom: 14:35 06/22

Down Hole Makeup

Heads Up: 25.17 FT **Packer 1:** 4389 FT

Drill Pipe: 4200.5 FT **Packer 2:** 4394 FT

ID-3 1/2 Packer 3: 4412 FT

Weight Pipe: FT Top Recorder: 4378.42 FT

ID-2 7/8

Collars: 186.1 FT Bottom Recorder: 4396 FT

ID-2 1/4 Below Straddle Recorder: 4413 FT

Test Tool: 33.57 FT Well Bore Size: 7 7/8

ID-3 1/2-FH Surface Choke: 1'

Jars
Safety Joint Bottom Choke: 5/8"

Total Anchor: 18

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): FT

4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT

ID-3 1/2

Change Over: FT

Perforations: (below): 17 FT

4 1/2-FH

STRADDLE

Straddle Packer(s): FT

Change Over: FT

Drill Pipe: FT

ID-3 1/2"

Change Over: FT

Perforations (in tail pipe): FT

4 1/2-FH



Uploading recovery &

pressures

Company: Ritchie Exploration, SEC: 15 TWN: 19S RNG: 31W County: SCOTT

Inc.

DST #5

Lease: Ramsey Trust 15B #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

<u>DATE</u> June

22 2019 **Formation: Altamont** Test Interval: 4394 -Total Depth: 4412' 4412' В

Time On: 09:15 06/22 Time Off: 17:07 06/22

Time On Bottom: 11:35 06/22 Time Off Bottom: 14:35 06/22

Mud Properties

Mud Type: Chem Weight: 9.3 Viscosity: 54 Filtrate: 6.8 Chlorides: 2500 ppm



Uploading recovery &

pressures

Company: Ritchie Exploration, Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATEJune **22**2019

DST #5 Formation: Altamont Test Interval: 4394 - Total Depth: 4412'

Time On: 09:15 06/22 Time Off: 17:07 06/22

Time On Bottom: 11:35 06/22 Time Off Bottom: 14:35 06/22

Gas Volume Report

1st Open 2nd Open

| Time | Orifice | PSI | MCF/D | Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|------|---------|-----|-------|
| | | | | I | | | |



Uploading recovery &

pressures

Company: Ritchie Exploration, Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE June 23

2019

DST #6 Formation: Test Interval: 4445 - Total Depth: 4512'
Pawnee/MyRick/Ft.Scott 4512'

Time On: 12:25 06/23 Time Off: 19:35 06/23

Time On Bottom: 14:41 06/23 Time Off Bottom: 17:11 06/23

Electronic Volume Estimate:

31'

1st Open Minutes: 30 Current Reading:

.8" at 30 min

Max Reading: .8"

1st Close Minutes: 45 Current Reading:

.1" at 45 min
Max Reading: .1"

2nd Open Minutes: 30 Current Reading:

0" at 30 min

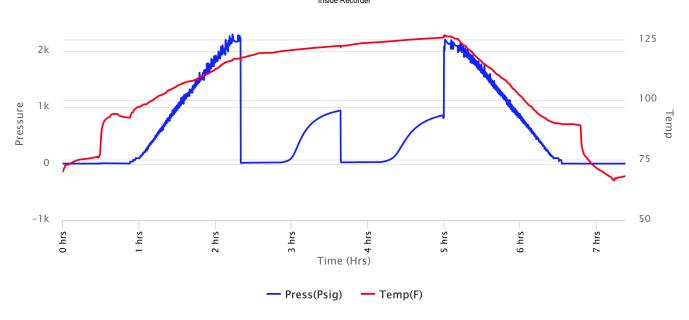
Max Reading: 0"

2nd Close Minutes: 45 Current Reading:

0" at 45 min

Max Reading: 0"

Inside Recorder





Uploading recovery &

pressures

Company: Ritchie Exploration, Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE

June

23

2019

DST#6

Formation: Pawnee/MyRick/Ft.Scott

Test Interval: 4445 -

Total Depth: 4512'

4512'

Time On: 12:25 06/23

Time Off: 19:35 06/23

Time On Bottom: 14:41 06/23 Time Off Bottom: 17:11 06/23

Recovered

BBLS Foot 8 0.03936 **Description of Fluid SLOCM**

Gas % 0

<u>Oil %</u> 2

Mud % Water % 0

98

Total Recovered: 8 ft

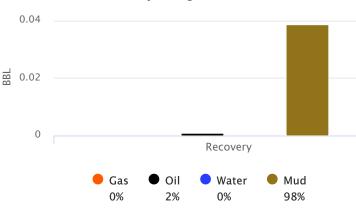
Total Barrels Recovered: 0.03936

Reversed Out NO

| Initial Hydrostatic Pressure | 2160 | PSI |
|------------------------------|----------|-----|
| Initial Flow | 12 to 20 | PSI |
| Initial Closed in Pressure | 941 | PSI |
| Final Flow Pressure | 22 to 26 | PSI |
| Final Closed in Pressure | 857 | PSI |
| Final Hydrostatic Pressure | 2157 | PSI |
| Temperature | 126 | °F |
| | | |
| Pressure Change Initial | 9.0 | % |

Close / Final Close





Recovery at a glance

GIP cubic foot volume: 0



Uploading recovery &

pressures

Company: Ritchie Exploration, Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE June

23 2019

DST #6 Formation: Test Interval: 4445 - Total Depth: 4512' Pawnee/MyRick/Ft.Scott 4512'

Time On: 12:25 06/23 Time Off: 19:35 06/23

Time On Bottom: 14:41 06/23 Time Off Bottom: 17:11 06/23

BUCKET MEASUREMENT:

1st Open: WSB. Built to 3/4 inch in 30 mins.

1st Close: NOBB 2nd Open: No Blow 2nd Close: NOBB

REMARKS:

Tool Sample: 0% Gas 2% Oil 0% Water 98% Mud



Uploading recovery &

pressures

Company: Ritchie Exploration, SEC: 15 TWN: 1 County: SCOTT

Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE

June 23 2019

DST#6 Formation: Test Interval: 4445 -

Total Depth: 4512'

Pawnee/MyRick/Ft.Scott 4512'

Time On: 12:25 06/23 Time Off: 19:35 06/23

Time On Bottom: 14:41 06/23 Time Off Bottom: 17:11 06/23

Down Hole Makeup

Heads Up: 5.13 FT Packer 1: 4439.96 FT

Drill Pipe: 4231.42 FT Packer 2: 4444.96 FT

ID-3 1/2

Top Recorder: 4429.38 FT

Weight Pipe: FT **Bottom Recorder:** 4482 FT

ID-2 7/8

Well Bore Size: 7 7/8 Collars: 186.1 FT

1" **Surface Choke:** ID-2 1/4

Bottom Choke: 5/8" **Test Tool:** 33.57 FT

ID-3 1/2-FH

Jars Safety Joint

Total Anchor: 67.04

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 2 FT

4 1/2-FH

Change Over: .5 FT

Drill Pipe: (in anchor): 31.54 FT

ID-3 1/2

Change Over: 1 FT

Perforations: (below): 31 FT

4 1/2-FH



Uploading recovery &

pressures

Company: Ritchie Exploration, SEC: 15 TWN: 19S RNG: 31W County: SCOTT

Inc.

Lease: Ramsey Trust 15B #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

<u>DATE</u> June

23 2019 **DST#6** Formation: Test Interval: 4445 -Total Depth: 4512' Pawnee/MyRick/Ft.Scott 4512'

Time On: 12:25 06/23 Time Off: 19:35 06/23

Time On Bottom: 14:41 06/23 Time Off Bottom: 17:11 06/23

Mud Properties

Mud Type: Chem Weight: 9.3 Viscosity: 62 Filtrate: 9.6 Chlorides: 3000 ppm



Uploading recovery &

pressures

Company: Ritchie Exploration,

Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATEJune **23**2019

DST #6 Formation: T Pawnee/MyRick/Ft.Scott

Test Interval: 4445 -

Total Depth: 4512'

4512'

Time On: 12:25 06/23 Time Off: 19:35 06/23

Time On Bottom: 14:41 06/23 Time Off Bottom: 17:11 06/23

Gas Volume Report

1st Open 2nd Open

| Time | Orifice | PSI | MCF/D | | Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|--|------|---------|-----|-------|
|------|---------|-----|-------|--|------|---------|-----|-------|



Company: Ritchie Exploration, Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

Operation:

Uploading recovery & pressures

DATE

June

24

2019

DST #7

Formation: Morrow+Miss

Test Interval: 4566 -

Total Depth: 4594'

4594'

Time On: 08:22 06/24

Time Off: 15:05 06/24

Time On Bottom: 10:48 06/24 Time Off Bottom: 12:48 06/24

Electronic Volume Estimate:

5'

1st Open Minutes: 30 Current Reading:

.1" at 30 min

Max Reading: .15"

1st Close Minutes: 30 Current Reading:

0" at 30 min Max Reading: 0" 2nd Open Minutes: 30 Current Reading:

0" at 30 min

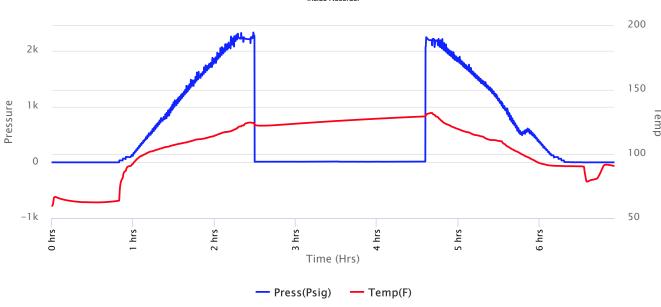
Max Reading: 0"

2nd Close Minutes: 30 Current Reading:

0" at 30 min

Max Reading: 0"

Inside Recorder





Uploading recovery &

pressures

Company: Ritchie Exploration,

Inc. Lease: Ramsey Trust 15B #1 SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE

June 24 2019 **DST #7** Formation: Morrow+Miss Test Interval: 4566 -

Total Depth: 4594'

0

4594'

Time On: 08:22 06/24 Time Off: 15:05 06/24

Time On Bottom: 10:48 06/24 Time Off Bottom: 12:48 06/24

0

Recovered

BBLS Foot 1 0.00492 **Description of Fluid** Μ

Gas %

0

<u>Oil %</u> Water %

Recovery at a glance

Mud % 100

Total Recovered: 1 ft

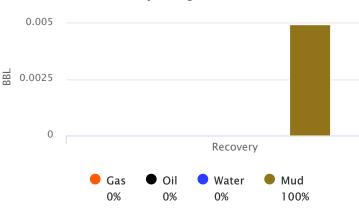
Total Barrels Recovered: 0.00492

Reversed Out NO

| Initial Hydrostatic Pressure | 2210 | PSI |
|------------------------------|----------|-----|
| Initial Flow | 10 to 12 | PSI |
| Initial Closed in Pressure | 15 | PSI |
| Final Flow Pressure | 12 to 13 | PSI |
| Final Closed in Pressure | 14 | PSI |
| Final Hydrostatic Pressure | 2208 | PSI |
| Temperature | 130 | °F |
| | | |
| Pressure Change Initial | 4.6 | % |

Close / Final Close





GIP cubic foot volume: 0



Uploading recovery &

pressures

Company: Ritchie Exploration,

Inc.

DST #7

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE June

24 2019

Formation: Morrow+Miss

Test Interval: 4566 -

Total Depth: 4594'

4594'

Time On: 08:22 06/24

Time Off: 15:05 06/24

Time On Bottom: 10:48 06/24 Time Off Bottom: 12:48 06/24

BUCKET MEASUREMENT:

1st Open: Surface Blow. Blow didnt build

1st Close: NOBB 2nd Open: NOBB 2nd Close: NOBB

REMARKS:

Tool Sample: 0% Gas 1% Oil 0% Water 99% Mud



Uploading recovery &

pressures

Company: Ritchie Exploration,

Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

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Field Name: Grigston SW Ext

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June **24** 2019

DST #7 Formation: Morrow+Miss Test Interval: 4566 -

Total Depth: 4594'

4594'

Time On: 08:22 06/24

Time Off: 15:05 06/24

Time On Bottom: 10:48 06/24 Time Off Bottom: 12:48 06/24

Down Hole Makeup

Heads Up: 9.98 FT

Packer 1: 4561 FT

Drill Pipe: 4357.31 FT

Packer 2: 4566 FT

ID-3 1/2

Top Recorder: 4550.42 FT

Weight Pipe: FT

_ .. _ . . .___

ID-2 7/8

Bottom Recorder: 4568 FT

Collars: 186.1 FT

Well Bore Size: 7 7/8

ID-2 1/4

Surface Choke: 1"

Test Tool: 33.57 FT

Bottom Choke: 5/8"

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 28

Anchor Makeup

27 FT

Packer Sub: 1 FT

Perforations: (top): FT

4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT

ID-3 1/2

Change Over: FT

4 1/2-FH

Perforations: (below):



Uploading recovery &

pressures

Company: Ritchie Exploration, SEC: 15 TWN: 19S RNG: 31W County: SCOTT

Inc.

Lease: Ramsey Trust 15B #1

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

<u>DATE</u>

June 24

2019

DST #7 Formation: Morrow+Miss Test Interval: 4566 -

Total Depth: 4594'

4594'

Time On: 08:22 06/24 Time Off: 15:05 06/24

Time On Bottom: 10:48 06/24 Time Off Bottom: 12:48 06/24

Mud Properties

Chlorides: 3000 ppm Mud Type: Chem Weight: 9.3 Viscosity: 62 Filtrate: 9.6



Uploading recovery &

pressures

Company: Ritchie Exploration,

Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATEJune

24 2019

DST #7 Formation: Morrow+Miss

Test Interval: 4566 -

Total Depth: 4594'

4594'

Time On: 08:22 06/24 Time Off: 15:05 06/24

Time On Bottom: 10:48 06/24 Time Off Bottom: 12:48 06/24

Gas Volume Report

1st Open

2nd Open

| | | | | _ | | | | |
|------|---------|-----|-------|---|------|---------|-----|-------|
| Time | Orifice | PSI | MCF/D | | Time | Orifice | PSI | MCF/D |



Company: Ritchie Exploration, Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

Operation:
Uploading recovery &

pressures

DATE
June
25
2019

DST #8 Formation: Spergen Test Interval: 4596 - Total Depth: 4620'

Time On: 05:57 06/25 Time Off: 14:30 06/25

Time On Bottom: 08:43 06/25 Time Off Bottom: 11:43 06/25

Electronic Volume Estimate:

247'

1st Open Minutes: 30 Current Reading: 5" at 30 min

Max Reading: 5"

1st Close Minutes: 45 Current Reading: 0" at 45 min

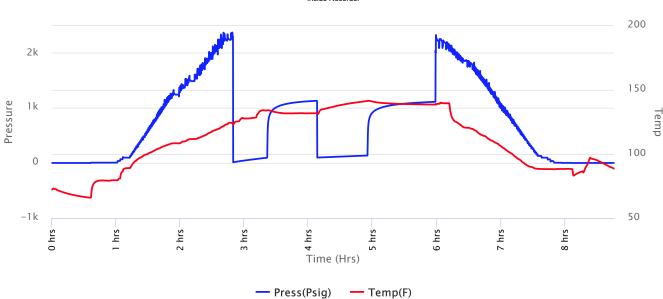
Max Reading: 0"

<u>2nd Open</u> Minutes: 45 Current Reading:

5.3" at 45 min Max Reading: 5.3" 2nd Close Minutes: 60 Current Reading:

0" at 60 min Max Reading: 0"

Inside Recorder





Uploading recovery &

pressures

Company: Ritchie Exploration, Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE June

25

2019

Total Depth: 4620' **DST #8** Formation: Spergen Test Interval: 4596 -

4620'

Time On: 05:57 06/25 Time Off: 14:30 06/25

Time On Bottom: 08:43 06/25 Time Off Bottom: 11:43 06/25

Recovered

| <u>Foot</u> | <u>BBLS</u> | Description of Fluid | Gas % | Oil % | Water % | Mud % |
|-------------|-------------|----------------------|-------|-------|---------|-------|
| 1 | 0.01423 | 0 | 0 | 100 | 0 | 0 |
| 88 | 1.25224 | SLWCM | 0 | 0 | 5 | 95 |
| 189 | 0.956879 | SLMCW | 0 | 0 | 90 | 10 |

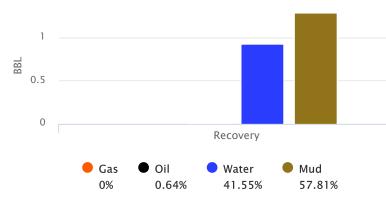
Total Recovered: 278 ft

Total Barrels Recovered: 2.223349

| Reversed Out |
|--------------|
| NO |

| Initial Hydrostatic Pressure | 2221 | PSI |
|------------------------------|-----------|-----|
| Initial Flow | 12 to 95 | PSI |
| Initial Closed in Pressure | 1129 | PSI |
| Final Flow Pressure | 98 to 135 | PSI |
| Final Closed in Pressure | 1110 | PSI |
| Final Hydrostatic Pressure | 2222 | PSI |
| Temperature | 142 | °F |
| | | |
| Pressure Change Initial | 1.7 | % |
| Close / Final Close | | |

Recovery at a glance



GIP cubic foot volume: 0



Uploading recovery &

pressures

Company: Ritchie Exploration, Inc.

Lease: Ramsey Trust 15B #1

Formation: Spergen

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE June

25 2019

DST #8

Test Interval: 4596 -

Total Depth: 4620'

4620'

Time On: 05:57 06/25 Time Off: 14:30 06/25

Time On Bottom: 08:43 06/25 Time Off Bottom: 11:43 06/25

BUCKET MEASUREMENT:

1st Open: 1/4" Blow. Built to 5 inches in 30 mins.

1st Close: NOBB

2nd Open: Weak Blow. Built to 5 1/4 inch in 45 mins

2nd Close: NOBB

REMARKS:

Tool Sample: 0% Gas 1% Oil 49% Water 50% Mud

Gravity: 31.8 @ 60 °F

Ph: 7

Measured RW: .44 @ 88 degrees °F

RW at Formation Temp: 0.28 @ 142 °F

Chlorides: 16000 ppm



Uploading recovery &

pressures

Company: Ritchie Exploration,

Inc.

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

DATE

June

25 2019 **DST #8** Formation: Spergen Test Interval: 4596 -

Total Depth: 4620'

4620'

Time On: 05:57 06/25 Time Off: 14:30 06/25

Time On Bottom: 08:43 06/25 Time Off Bottom: 11:43 06/25

Down Hole Makeup

Heads Up: 11.42 FT Packer 1: 4591 FT

Drill Pipe: 4388.75 FT Packer 2: 4596 FT

ID-3 1/2 Top Recorder: 4580.42 FT

Weight Pipe: FT

Bottom Recorder: 4598 FT ID-2 7/8

Well Bore Size: 7 7/8 Collars: 186.1 FT

1" **Surface Choke:** ID-2 1/4

Bottom Choke: 5/8" **Test Tool:** 33.57 FT

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 24

Anchor Makeup

1 FT

Packer Sub:

FT Perforations: (top):

4 1/2-FH

Change Over:

Drill Pipe: (in anchor): FT

ID-3 1/2

Change Over: FT

Perforations: (below): 23 FT

4 1/2-FH



Uploading recovery &

pressures

Company: Ritchie Exploration,

Inc.

DST #8

Lease: Ramsey Trust 15B #1

SEC: 15 TWN: 19S RNG: 31W County: SCOTT

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

Field Name: Grigston SW Ext

Pool: Infield Job Number: 358 API #: 15-171-21251

<u>DATE</u> June

25 2019 Formation: Spergen

Test Interval: 4596 -

Total Depth: 4620'

4620'

Time On: 05:57 06/25 Time Off: 14:30 06/25

Time On Bottom: 08:43 06/25 Time Off Bottom: 11:43 06/25

Mud Properties

Mud Type: Chem Weight: 9.3 Viscosity: 67 Filtrate: 8 Chlorides: 3300 ppm



Company: Ritchie Exploration,

Inc. Lease: Ramsey Trust 15B #1 State: Kansas Drilling Contractor: WW Drilling, LLC -

Rig 12

Elevation: 2952 EGL

County: SCOTT

Field Name: Grigston SW Ext

SEC: 15 TWN: 19S RNG: 31W

Pool: Infield Job Number: 358 API #: 15-171-21251

Operation:

Uploading recovery & pressures

DATE

June

25

2019

DST #8

Formation: Spergen

Test Interval: 4596 -

Total Depth: 4620'

4620'

Time On: 05:57 06/25

Time Off: 14:30 06/25

Time On Bottom: 08:43 06/25 Time Off Bottom: 11:43 06/25

Gas Volume Report

1st Open

2nd Open

| Time | Orifice | PSI | MCF/D | | Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|--|------|---------|-----|-------|
|------|---------|-----|-------|--|------|---------|-----|-------|

Max R. Lovely GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG COMPANY Ritchie Exploration **ELEVATIONS** LEASE #1 Ramsey Trust 15B **KB** 2960 FIELD Unknown DF_ LOCATION 1258'FNL.1735'FWL GL 2952 TWSP_19 RGE 31W SEC_15 Measurements Are All From KB COUNTY Scott STATE KS CASING SURFACE 8 A C 251 CONTRACTOR WW #12 SPUD 6-13-19 COMP 6-26-19 PRODUCTION_ ELECTRICAL SURVEYS RTD 4690 LTD 4691 MUD UP 3420 TYPE MUD Chem COMP NID SONIC FORMATION TOPS AND STRUCTURAL POSITION STRUCTURAL POSITION ELECTRIC SAMPLE SUB-SEA **FORMATION** LOG TOP DATUM TOP 683 688 693 2272 2268 692 **Anhydrite** 2286 674 671 675 665 2290 Base Anhydrite -564 -577 3530 3529 -569 572 Stotler -963 -952 -9653918 -958 3920 Heebner -1005 -995 -1007 Lansing 3961 3958 -998 -1169 -1191 -1180-1188 4140 4142 Muncie -1367 -1354 -1372 4321 4323 -1363BKC -1422 |-140<u>5 |-1422</u> -1417 4371 4377 Altamont -1490-1492 |-1484 |-1497 4448 4450 Pawnee

-1539

-1560

-1600

-1630

4610 -1650

4499

4520

4560

4590

REFERENCE WELLS FOR STRUCTURE

4493

4514

4557

4584

4610

B FIML #1A Deardon 330'FNL.330'FEL 16-19-31W c Chief #1 Popp 990'FSL.990'FWL 10-19-31W

A Dreiling #1 Houloose 1650'FSL,1650'FWL 15-1931W

Ft. Scott

Cherokee

Johnson

Spergen

Miss

<u>-1537 |-1528 |-1543</u>

-1558 |-1548 |-1563

-1600 -1589 -1604

-1638 |-1616 |-1639

-1651 -1634 -1653

| r Dolomite | SMOHS 'IIO | | | @ 3123, LOST CIRC - (100 BHIS) | |
|--|---|-----------|---------------------|-----------------------------------|------|
| LEGEND Sandstone Shale Carb sh Limestone Ool.Lime Chert | DEPTH SAMPLE DESCRIPTIONS | ANHYDRITE | AMHYDRITE 2290 +670 | | 3500 |
| Anhydrite Salt S | DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases State of Penetration 15" 20" 25" | | | | |

OLLL SOT

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| | | 4 | | LS.WHT, CRM, F XTIN, M HRb. CHLKY, VP-TITE F, NS | | , 60 | |
| | 4/ | | | LS. WHT, VF KTLW, M. HRB, Pes Sus, NO VISFINS | | . i. | Τ |
| | W | | | S, BRN, GRY, FXTLM, HRD, FOSS, | | | _ |
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| | | J | | S.CRP, VF XTLN, V DNS, V HRB, | | | 100 m |
| | | | | LS,GRY, SOFT, V SHLY, NS | | * | T |
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| | | | | LS. LT GRY, TAM. FXTLM, St. DWS. | | | Т |
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| a | 4 | | | LS, WAT, FXTW, MHRb, SL DNS, NO VIS 6, NS | innini — | | T |
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| | | | | CHT . WAT, SHARP, FOSS , MS | | | |
| | | | | LS. GRY JUNT , VF ETTU, HAD, | | | |
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|---|--|--|--|--|---|---|---|--|---|---|--|
| DST#1 @ 4180 NUD CHECK | 2 5 kg | | FF: 3% FSI: NO B. REC: 53' SLOCMCW 189' SLOCMCW 189' SLOCMCW 17W, 83 FP: 12-77, 76-119 SIP: 6410-639 HP: 2041-2043 | DST#4 4240-43 30.45.45.6 [F: ½+ 808 6 m10 , A FF: 808 11m14 , A 0 B REC: 174 5 LOCULOM 270.487. 862 5 LMCW-9 FP: 30-302, 306-4 SIP: 614-615 | ZOI8-ZOI8 M 6-ZI-19 ST#4@4326 MUD CHECK SI WT:9 OR: 2,000 LCM T:6.4 | in local | 151. 151. 39.73. 39.73. 39.73. | 7:4m 6-22-19 DST#9@ 4412 mud check VIS:54 WT: CHLOR:2500 LEM: FILT:6.8 DST#5 3 HORT TA | DST#(4445.4572 30-45-30-45 1F: 34" 151:40 BB FF: DBAD FS1:40 BB REC: 8" SLOCM-2% OIL FP:12-20, 22-26 SIP: 941-857 HP: 2160-2157 | | 7:AM 6-23-19 DRLG@ 4505" |
| F. C. O DOK FONCYP | 5.5.0 5.00°R 85.7.1 85.7.1 85.7.1 | A STATE OF THE PROPERTY OF CORPORATE TO STATE OF CORPORATE THE PROPERTY OF CORPORATE THE PROPERT | GODOR FSFE FLUOR | The second secon | 84 o A B A C A C A C A C A C A C A C A C A C A C | TARRY MORPOR | LIOPOR FSF0 RAUBOU | | 2 pcs FLUOR GSFO LTODOR | V LT OBDOX 3 DES 3 DES | LTODOR FLUOR FSFG |
| LS, BRW, F XTLW, M HRB, GSTM, GXTLNØ, GSFO, ND FLUOR | LS, BRN, F-M XTLW, VHRD- M HRD, BRTL, BRN OIL, SST BLK TARRY OIL, Pcs DEAD & VG FO ON BRK, VSL SHOGAS BBLS, NO VISENERGY, NO FLUOR | LS. WHT, FXTLM, STM HRD, GINT XILMG, GSAT FLUORSIN GSFOON BRK, STFO, GODOR, LS. WHT/CRM, FXTLM, M HRD, GOOM G, GSFO, V LTOIL, STR OILTODOR, GFLUOR LS. CRM, FXTLM, U HRD, TITE, SCT FOSS, VP G, PCS W G, PLUOR STWG, V FEW SML FOON BRK, GODOR, | LS.WHT, MXTLW, MHRB,CHAUG G. FLUOR, G. ODOR, FS.FO. NOT ALL CHALK HAD STWG+FO LS.CRW, VFXTLW, PCS DNS. HRB, TITE, NS A.A. | V 7 - 100 1 | LS, WHT, MSCRS XTL, FSC INT XTLLOG, GS BLK TARRYOLL, G ODOR LS, TAU, FXTLUIV HRD, SCT WHT CHT PCS WIN, NO UISG, NS SH, GRY, BLK LS, V BR, UF XTLU, DAS, V HRD, TITE, NS V HRD, TITE, NS LS, GRY, FSM, XTLU, M HRD, | SH, GRY, GRN SS, GRY CMT, F GRNS, W CWT. WSORT, SAMHRD, FAGDINS LS, TAN, BRN, VF XTLW, HRD, SCT FAS, XTLW, HRD, SCT FAS, XTLW, HRD, SCT FAS, XTLW, HRD, SCT | SINGNO POINTO POOR SINGNO POINTO POOR SHT, DRVG, SLODAQ, FRESH, SHT, F. W. XT. W., SLBRT, VP XT. W. G. N.S. LS. WHT, F. XT. W., BRIT, SIHRD, FOSS, POINT SCT BLK & DK BRN STU, SOME G FOON BRK, WET | LS 1744, CRM, LS. CRM, EXTL X 14 45 45 45 45 45 45 45 45 45 45 45 45 45 | LS. BRW. F XTLW. D. TITE! NS SH. BLK. CARB LS. WHT. V F XTLW. TITE! NS LS. CRM. F XTLW. V HR SCT POOL Ø, FSFO. I LS. RUFF. F XTLW. M. | 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | F - 7 |
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| <u> </u> | | | | | | | | | | | |
| HHH % | 4200 | 74.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4. | WSHPUCKARY | 4300 | BKC 4321 -1361 | 1357 - 1397 ALTAMOUT | 4 6 1 | | YAWNEE HYBR | MYRICK 1482 - 1522 | 4500 =================================== |
| HHH % % | 4200 | 74.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4. | WSHPUCKARY | 4300 | BKC 4321 -1361 | 1357 - 1397 ALTAMOUT | 4 6 1 | | YAWNEE HYBR | MYRICK 1482 - 1522 | 4500 |
| \$ 100 % | 4200 | \$ 774 RK | A A A SH PUCK NEW | 4280 -1321 | 1321 -1361 | 1148mareu 4357 -1397 ALTAMOUT | 4400 | | JAMNEE JABRE | MYRICK H482-1522 | 4500 |

| | | 3 3 | LS,TAW, UFXTLM, DWS, V HRS, I | | DRLG @ 4505' |
|---|-------------------------------|---------------------------------------|---|-------------------|-----------------------------------|
| | 3 | KEE T | 54,84k | > 0 | MUD C. 15: 62 |
| | | | LS, LT THW, VF XTLM, DWS, V HRD, |) N. V | 127: 9.6 |
| | ## | | CHT, GRY, OPAG, FRESH, SHARD | l | 9 |
| | |] | P d. NS | | |
| | ### | 11 | | Services | |
| | | <u> </u> | M HRD, NO VIS GLAS | | |
| | | | | | |
| | | 770 | | | 4566-4594 |
| | |), <u>f.</u> | HRD, TITE, NS | == | SURF BLO ISI: No BB |
| | | 9 | LS.TAW, BRW, FXTLW, HPD, NO VISØ, SCTCHLK | <u> </u> | REC: 1' MUD FSI: NOBB |
| | | | LKY, SOFT, GXTLNO | Cober F | 13 |
| | | | | FOR | 11: 2210 - 2208 |
| | ncan ncan | SS 41771- | FEW FO SPTS, GODOR | FLUOR Fo | ŕ |
| | | 14 | OILSTMC CTLM, SOFT, ABON | STVK | |
| | | | TO DO TARRY STAK, | PLUBR 7. | NAM 6-24-19 DST#7 @4594' |
| 1 | | 3 | M XTLW, HRD, | FOPOR V SCT PO | VIS. 67 WT.93 |
| | | EN | 25 - 26 - 27 - 27 - 27 - 27 - 27 - 27 - 27 | - | 0 |
| | \$ | 1650 | ", WHT, SUCK, M. HRB, NO VISK | | |
| | | | FSFO ON BEK, | SET STRV | Am 6-25-19 |
| | | | SOLO, A.A. SOFT, LESS SHO RKS | | DST#8@4620' |
| | | 1 | V FØSS, V | 20 | 15 |
| | | - - - - - - - - - - - - - - - - - - - | LS, M XTLW, V HRB, GRY+WHT. | , <u>u</u> | FILT: 9.6 |
| | jo |)) | DOLO, GRY+TAN, M XTLU, HB. | Δ | 30-45-45-60 - |
| | | | AND TAKES (SET INT KTUNE) | <u> </u> | F: 51" 151! NR F: 514" FS!! NR |
| | ### | | DOLO, DK BRN, F XTLI W/ Set MED GRNS W/M, V HRD, NO US W | <u>«</u> | EC: 1'01L 88'5LWCM-5%W |
| | | 1 | Set Oce St. Law , F & M & TLW, HRb. | <u>u</u> | 189' SL MCW - 90''W |
| | | | DOLO, CRY, FXTW, HRb, SL | SIS | IP: 1124 - 1110 |
| | | 77 | LMY, NU APP 6.WS | Ē | * 2221 - 4.4.4. |
| | | <u> </u> | DOLO, WHT, VEXTLY & SUCR, MHRD, NO VIS 6. NS | | 382 |
| | | | DOLO, BRN, VF > F XTLN, HRb, | | , |
| | Į. | %0% | G XTLN + VUG Ø, N | . <u>v</u> | HORY TRIP S SAME |
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| | | | | | * |
| | 5" 10" 15" 20" 25" | LITI | • | OIL | |
| | TIME Minutes/Foot DE | E HOLO | SAMPLE DESCRIPTIONS | SHO | REMARKS |
| | Rate of Penetration Decreases | GY | e e |)WS | |
| | | | | | |



10244 NE Hwy. 61 P.O. Box 8613 Pratt, Kansas 67124 Pho

FIELD SERVICE TICKET 1718 **17875** A

| one 620-672-1201 | | |
|------------------|------|-----------|
| 5-19-31 | DATE | TICKET NO |

| The state of the s | PRESSURE PUMPI | NG & WIRELINE | 3 - 18 | 1-31 | i | | DATE | TICKET NO | | |
|--|--------------------------------|-------------------|---------------------------------------|----------|---|------------|------------|---------------------------------|------------------------|------------|
| DATE OF | 26/2019 DIS | STRICT Proxi | | | | OLD F | PROD INJ | □ WDW □ | CUSTOMER ORDER NO.: | |
| | -D Drill | | | | LEASE R | msv | r Trus. | + | WELL NO. | 152 |
| ADDRESS | | | | | COUNTY 5 | | | STATE K | 5 | |
| CITY | | STATE | | | SERVICE C | REW D 5 | Prin Bre | 134, Digz | | |
| AUTHORIZED E | βY | | | | JOB TYPE: | 24 | | Longstr | 15 c | |
| EQUIPMEN" | r# HRS | EQUIPMENT# | HRS | EQU | JIPMENT# | HRS | TRUCK CAL | ED PA | TE AM TIP | ме 30 |
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| ITEM/PRICE REF. NO. | MA | TERIAL, EQUIPMENT | AND SER | /ICES US | ED | UNIT | (WELL OWNE | ER, OPERATOR, CON UNIT PRICE | S AMOUN | |
| BC 145 | | Mena Premi | | | | SK | 150 | | 2,850 | 00 |
| BC132 | 60/40 P | 02 | | | | SK | 30 | | 810 | 00 |
| cc102 | Cellofis | | | | | 26 | 38 | | 152 | Oc |
| 00/05 | C-41P | | | | | 26 | 71 | | 284 | C |
| ec iii | 5914 | | · · · · · · · · · · · · · · · · · · · | | | 46 | 8/5 | | 407 | So |
| CC 113 | Gypsom | | | | ······································ | 125 | 705 | | 218 | ઇ ર |
| CC 187 CO 201 | C-)7 | | | | | <i>LB</i> | 92 | : | 2208 901 | Cz |
| co/33 | Gilsonive KCL | | | | | GI | 5 | | 365 | 00 CC |
| CE 151 | MUZ Flus | · k | | ···· | | CSI | 1,000 | | 1,500 | a |
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| ME102 | | supment mi | | | | MI | 200 | | 1,600 | a |
| ce5 | Depon C. | herse, 4,00 | 1'-5,0 | in en | | HR | | | 2,500 | |
| SE240 | Blendingd | mucing Servi | er Cha | erse | | SK | 180 | | 252 | |
| CF851 | 52 Flog | + Shoe CBlu | (ج | | | Eg | ļ <i>į</i> | | 425 | CE |
| CF607 | Loson Do. | un Plus & B. | stle, | 512C | Blue) | Es | 1 | | 400 | |
| 2F1901 | 51/2 Best | | | | | ES | 2 | | 580 | 00 |
| CP1651 | 10 rhol, 201 | s, 5/2 (Blue) |) | | | <u>E</u> 9 | 12 | | 1,320 | (D) |
| CP481 3E143 | 51/2 Por | - Coller | | | | EG EA | | , | 3500 | 00 00 |
| 312 144 | Supervisor EMICAL ACID DATA | norse | Ī oʻ | | *************************************** | ED | | SUB TOTAL | | 00 |
| | LIMONE, NOID DAIR | - | 1 | SEI | RVICE & EQUI | F | %TΔ\ | SUB TOKE (ON\$ | 10,950 | 10 |
| | | | | - | TERIALS | | | CON\$ | - | +- |

SERVICE REPRESENTATIVE Paris Fuents:

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

DISCOURE & TOTAL 14, 7



TREATMENT REPORT

| Customer | D Dan | ine | | Lease No. | | | | Date | 1 - 1 | 1 | |
|-----------------------|-----------------|--------------|--------------|--------------|---------------|-----------------|-------------|---------------------------------------|-----------|-----------------|-------------------|
| Lease RS | nsy Tru | -ر. حر. ق | | Well # 13 | 5B-1 | | | | • | 12019 | |
| Field Order # | Station | | +1 KS | | Casing | 51/2 Depth | 4681 | County S | COFF | Si | tate/CS |
| | 2421 | | | rine | | Formation | 170-1 | 1690 | Legal D | escription/5 | -19-3 |
| | E DATA | i i | FORATIN | | FLUID | USED | | TRE | ATMENT | RESUME | |
| aging Size | Tubing Si | ze Shots/ | 'Ft | | Acid | | | RATE PF | ESS | ISIP | , in the state of |
| epth 168 | Depth | From | Т | ō | Pre Pad | | Max | | | 5 Min. | |
| olume 4 | Volume | From | Т | ō | Pad | | Min | | | 10 Min. | |
| ax Press | Max Pres | From | т | ·o | Frac | | Avg | | | 15 Min. | |
| ell Connecti | | From | | ·o | | | HHP Used | | | Annulus Pres | sure |
| ug Depth - | Packer Do | ' l From | | ·o | Flush KCL | Weter | Gas Volur | 1 | 7 | Total Load | |
| ustomer He | presentative | PICK F | <u> 2080</u> | Station | Manager Ju | Shn Wes | Seemen I | rreater | Derin | Franici | 172 |
| ervice Units river | | 78982 | | 19860 | | | | | | | |
| ames | Derin Casing | Brera | Brein | D142 | D182 | - | | | | | |
| Time | Pressure | Pressure | Bbls. F | umped | Rate | | | | rvice Log | | |
| 1.130pm | | | | | | On Le | 1091.00 | <u> </u> | by Me | tring no 10% | <i></i> |
| | | | | | | 10%.0 | C BBA | Premin | · Ceme | =5% Flo | 391A |
| | | | | | | | | | | | 18 605. |
| | | | | | | 25% De | • | | _ | | |
| | | | | | | 1 7, 3 47 | 13710 | S C V 82,11 C | ·/ ······ | - •() | |
| 3130pm | 300 | | 5 | | 5 | Pump. | 5 bb/s | h) Gder | | | |
| | 300 | | 21 | 1 | 5 5 | Pump 2 | | | Flush | | |
| | 300 | | 5 | | 5 | Pump 3 | 5 6675 | Wister | , | | |
| | <i>3</i> 00 | | 4 | 1 | 6 | mix | 50 Sic | 10102 | | | |
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| - 41- | 400 | | | 5 | 4 3 | Lift 1 | | ~ | | | |
| (h.a. | 500 1500 | | 10 | | <u></u> | Slow s | | · · · · · · · · · · · · · · · · · · · | | | |
| 1.24pm | 1300 | | 110 | 2 | | Bump | - | | | | |
| | 0 | | V- | , | 3 | Floge Pluc R | | | SIC LO | Juo Poz | is % 6.00 |
| | | | 1 | | | 1103 1 | -15-1101 | - 00 | -/ 60 | 1010 | 1 10 00 |
| 11.30pm | | | | | | | ت | Toh Co | mpler. | /Perin Le | rec |
| | | | | | | | | Than | | | |



1700 S. Country Estates Raod Liberal, KS 67901 PH (620)-624-2277FAX (620) 624-2280

SERVICE ORDER - 1718 19584 L

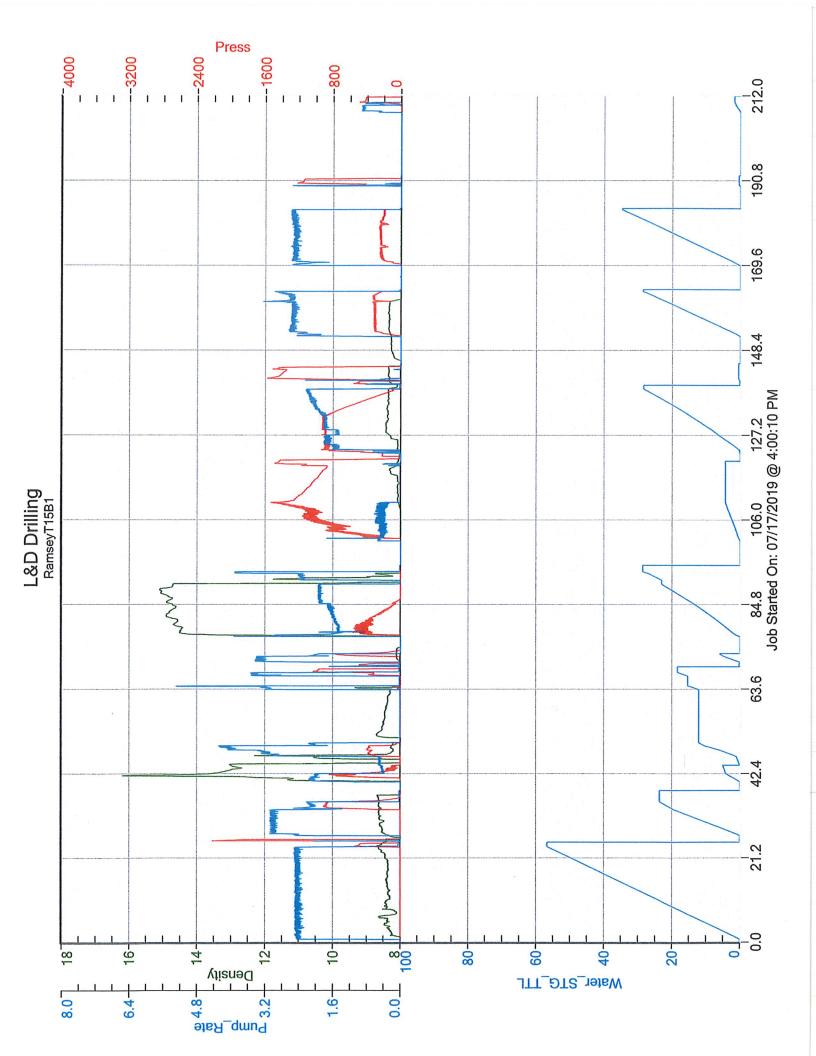
| | NERGY SI | | PH (620)-624-2277FAX (620) 624-2280 TTL MHR 39 | Date: | 9/17/2019 |
|---|---|--|---|--|-------------|
| Well Name: Ramsey Trust | 15D 1 | | | Location: | |
| county - State: | 100-1 | | | 15,19,31 | • |
| Scott, Ks | | | | RRC#: 19919 | |
| ype Of Service: | | | | Customer's Order #: | 5,3 |
| 41 - Squeeze | | | 1007333-2002064 | Gustomer's Order #. | |
| -TT Oquoozo | | LD Drilling | Inc | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | Address: | 756 | 7 76th Ave 1 Bend K5 67530 | | |
| | | Grea | 1 Bend KS 67530 | | |
| Basic Energy Services., PARTICULAR PURPOS contract, tort, product lia | attorney fees. The warrants only title SE OR OTHERWS atility, breach of wa | se terms and con- to the products, a SE WHICH EXTEN arranty or otherwis | ny Basic Energy Services In accord with the rates and terms stated in Basic Energy Services current price lists. Invoices are payably omer agrees to pay interest thereon after default at 16% per annum. In the event it becomes necessary to emptoy an attorning to early also as hall be governed by the laws of the state where services are performed or equipment or materials are furnished. upplies and materials and that the same are free from defects in workmanship. THERE ARE NO WARRANTIES, EXPRESS OR IM ID BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Basic Energy Services, liability and customer's o a parling out of the sale or use of any products, supplies, or materials upon their return to Basic Energy Services, is expressly limit Customer of credit for the cost of such items. In no event shall Basic Energy Services be liable for special, indirect, puritive or cons | PLIED, MERCHANTABILITY, FITNESS exclusive remedy in any cause of action and to the replacement of such products. | FOR A |
| CODE | QTY | UOM | DESCRIPTION | PRICE | TOTAL |
| IC103 | 140 | SK | Class H Cement | 39.00 | 5460.0 |
| 0100 | 140 | - OIC | Olds 11 Collicit | 35.00 | 3400.0 |
| | | | | | |
| | | | | | |
| 1E102 | 200 | MI | Heavy Equipment Mileage | 8.00 | 1600.0 |
| E240 | 140 | SK | Blending & Mixing Service Charge | 1.40 | 196.0 |
| M | 1410 | MI | Ton Mileage | 3.00 | 4230.0 |
| C5 | 1 | HR | Depth Charge, 4001'-5000' | 2500.00 | 2500.0 |
| 1E101 | 100 | MI | Light Vehicle Mileage | 5.00 | 500.0 |
| E143 | 1 | Ea | Supervisor | 75.00 | 75.0 |
| E144 | 2 | Ea | Driver | 35.00 | 70.0 |
| E500 | 1 | EA | Cement Squeeze Manifold | 500.00 | 500.0 |
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| | | | | Book Total: | \$15,131.0 |
| | | | | Taxes: | |
| | | | | Disc. Price: | \$7,938.0 |
| | IDER | 70007 1 | | YES | NO |
| UMP TRUCK NUM | MBER: | 70897, 19919 | THIS JOB WAS SATISFACTORILY COMPLETED OPERATION OF EQUIPMENT WAS SATISFACTORY | | H |
| RIVER: Jesse | o Paul | - 1/1- | by Harper Performance of Personel Was satisfactory | | П |
| ~ UE330 | - / HXYO | 4,1316 | TEN CHIMING OF PURSONEL WAS CATIONAL | / - > | |
| Dan | real | 6500 | h & Kutha tu | no | |
| RA | SIC ENERGY | SERVICES | CUSTOMER OR | ISAGENT | |
| DA. | J. J E. ILINO I | CLITTIOLO | , COSTONIER ORF | III TOLINI | 1) 20 |
| Customer | r Comments o | or Concerns: | | | · UV |
| | | | | | |
| | | | | | |
| | | | | | |



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING Job Log

| The second of th | | | | | | | | | | |
|--|--------------|-----------------|------|----------------------|-----------------|-----------------|-------------|--------------------|-----------------------|---|
| Customer | ı | _D Drilling Inc | | | Cement Pump No. | 70897, 19 | 919 5.5Hrs. | Operator TRK No.: | 968 | 16 |
| Address | | | | | Ticket # | 1718 1 | 19584 L | Bulk TRK No.: | 33021, 14284 Kirby | |
| City, State, Zip: | | | | | Job Type | : | Z41 | - Squeeze Pe | * | |
| Service District: | 17 | 18 - Liberal, K | s. | | Well Type | | | OIL | | |
| Vell Name and No.: | Ran | nsey Trust 15 | B-1 | | Well Location | 15,19,31 | County | Scott | State: | Ks |
| Туре | of Cmt | Sacks | | | Additives | | | Truck Loa | aded On | |
| Premium / | / Common | 150 | | in the second second | Neat | | 33021, 14 | 4284 Kirby | Front | Back |
| Premium / | Common | 150 | | | Neat | | | | Front | Back |
| | | | | | | | | | Front | Back |
| Lead | /Tail: | Weight #1 Gal. | Cu/l | Ft/sk | Water Re | quirements | CU. FT. | Man | Hours / Persor | nnel |
| Lea | ad: | 16.4 | 1. | 06 | 4. | 31 | 159 | TT Man Hours: | 39 | |
| Ta | il: | | | | | | 150 | # of Men on Job: | 3 | |
| Time | | Volume | Pu | mps | Pres | sure(PSI) | D | escription of Oper | ation and Materia | s |
| (am/pm) | (BPM) | (BBLS) | Т | С | Tubing | Casing | | | | |
| 15:00 | | | | | | | ON L | OCATION & S | AFETY MEET | ING |
| 15:15 | | | | | | | | RIG | UP | *************************************** |
| 4:00 PM | / | 56.5 | | | | 500 | PF | RESSURE UP | BS TO 500PS | l |
| 4:26 PM | | | | | | | PF | RESSURE TES | ST TO 2200PS | 1 |
| 4:27 PM | 2 | 23 | | | 880 | | GET AN INJ | ECTION RATI | E / LOADED V | V/19.5BBL |
| 16:41 | | | | | | | PUMP 105 | X PLUGGED | OFF / REVER | SE OUT |
| 17:10 | | | | | | 500 | | LOAD BS T | O 500PSI | |
| 5:17 PM | 1.9 | 26.4 slurry | | | 440 | * - | | PUMP 140S | X @ 16.4# | |
| 17:30 | | | | | | | | SHUTDOV | VN / WP | |
| 17:35 | | 1 THRU 8 | | | | | DISP | LACE / ON VA | ACUUM 1.25B | PM |
| 17:41 | 0.4 | 8 | | | 350 | | | | | |
| | 0.4 | 9 | | | 950 | | | | | |
| 17:51 | | 12 | | | 1400 | | | SHUTDOWN | N / STAGE | |
| 18:04 | | | | | | | | REVERSE OU | T W/ 25BBL | |
| 18:21 | | 0.25 | | | 1 | 520 | | LOAD BS T | | |
| 18:22 | | 0.5 | | | 1550 | | | | TB TO 1550PS | |
| 18:24 | | | | | | | RL | | VASH CASING | i |
| 19:06 | | ^ | | | A 12 100 | | | PULL | | |
| 19:29 | | | | | 490 | 490 | PRESS | | 190PSI / CLOS | E IN |
| | | ~ . | | | | | | JOB COM | IPLETE | |
| | | | | | | | | | | |
| | | | | - | | | | | | |
| Size Hole | , | Depth | | | | | TYPE | | Swage | |
| Size & Wt. Csg. | 5 1/2" 15.5# | Depth | | | New / Used | | Packer | 4087' | Depth | · |
| tbg. | 2 7/8" 6.7# | Depth | | | * | | Retainer | | Depth | |
| Top Plugs | | Туре | | | | | Perfs | 4194' -4200' | CIBP | |
| | | Dr. n | ,/ | \bigcirc | | Basic Represe | ntative: | | Daniel Beck | |
| Customer Sigi | nature: 🧹 🎾 | Luly | 10 | 12 | D | Basic Signatur | e: | Daniel | Beck | |
| | 7 | 1 | | // | | Date of Service | | 7/17/2019 | | |





TICKET NUMBER_ LOCATION Oaklay

PRESSURE PUMPING LLC

51337

FIFI D TICKET & TREATMENT REPORT

| DATE CUSTOMER# WELL NAME & NUMBER 6-13-19 7173 Ramsex Toust 15-B#1 15 192 31 Scott Scott 15-B#1 15-DRIVER ALICA I SCOTT TRUCK® DRIVER TRUCK® DRIVER TRUCK® DRIVER TRUCK® DRIVER TRUCK® DRIVER TRUCK® DRIVER TRUCK | | Chanute, KS 667: 10 or 800-467-867 | | LD HOILE | CEMENT | r | nv | HUNK | 100957 |
|--|---------------|---|--------------|------------|-----------------|--|-----------------|--------------------|-------------|
| SCANNED STATE DESCRIPTION OF SERVICES OF PRODUCT ACCOUNT CODE CONTROL OF SINGE STREET OF STATE OF STREET OF STREET OF STATE OF STREET OF STATE O | | | | NAME & NUI | | | TOWNSHIP | RANGE | COUNTY |
| DUSTONE PITCHIA CYPLOCATION SCOTT TRUCK# DRIVER TRUCK# DRIVER MANUSCADORESS DUSTON 783188 TO 160 Calola Causton Sont 566 Alex Heks some Trauncelle 100 Type Super Hole size 100 Type Super Hole size 100 Type Tubing Description To 3 Car Dayla 100 Type Super Hole size 101 Tubing Description Tubing OTHER Substance Tubing Tubing OTHER Substance Tubing OTHER Substance Tubing Tubing Tubing OTHER Substance Tubing Tubin | 6-13-19 | 7173 | Ranson | Trust | 15-B#1 | 15 | 193 | 310 | Scott |
| TABLE ADDRESS WILLIAM STATE PROCESS VENIOR TO THE SUPERIOR TO S. S. S. S. S. S. S. A. S. A. L. A. L. H. L. S. | CUSTOMER 1 | 8.4.1. | 7.1 | 1. | Scotteit | TDUCK # | I DRIVER | TOLICK# | DRIVER |
| STATE SPECIOL STATE SPECIOL S. S.M. J. G. A. Lex Hilk some, transcell 1978 Just 1978 J | MAJLING ADDRE | | CXDIE | 16.110. | west to | 0.0 | | | DRIVER |
| SCANNED STATE ST | | | | | | | | | Stanta Call |
| Control Cont | CITY | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | STATE | ZIP CODE | 1 1 1 | | 2 2 | is some | Named |
| DISTYPE SUFFACE HOLE SIZE 12 14" HOLE DEPTH 251' CASING SIZE & WEIGHT 85 24# JASING DEPTH 251' DRILL PIPE TUBING OTHER JURRY WEIGHT 15:22 SURRY VOL. WATER gallsk CEMENT LEFT IN CASING 15-20' DISPLACEMENT 14' JUDISPLACEMENT PSI MIX PSI RATE 4 BPM JEMARKS: SACAT, Meathway Riguid and Juli #12, Civit Casing an battom MIX 180 SKS CAM, 34644-266 601, Displace 14'44' DBC 110' Sheter ACCOUNT QUANITY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL CODE QUANITY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL COCO 10 8 146 Tan Whilesza Dalway 175 32125 CCS 110 8 146 Surface Bleval IT 24.00 4,320.00 SCANNED 180 SKX Surface Bleval IT 24.00 4,320.00 SCANNED 180 SKX Surface Bleval IT 24.00 4,320.00 SCANNED 180 SKX Surface Bleval IT 24.00 4,320.00 SALES TAX 178.40 SALES TAX 178.40 ESTIMATED 180 SKX SURFACE TO SALES TAX 178.40 SALES TAX 178.40 | WIMIT? | N . | KS | 01218 | -3138 | | Walt Dis | To 1 | |
| SCANNED SEURRY WEIGHT 15.2 SLURRY VOL WATER gallok CEMENT LEFT IN CASING 15-20 MIX PSI RATE 4 BPM RATE 4 BPM RATE 4 BPM REMARKS: So Fety Meetings, Riq up on IV ut #12; Curc Cosing on battory. MIX 180 SVS COM, 3/644-2/6/62], DIS place 144/BBC #20. Shetur ACCOUNT CODE QUANITY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL Casco 2 45 MILEAGE COSTID S.46 Tan Wilesse Delivery CC5871 180 SIK SurFace Bleval II 2400 4320 SCANNED Last 2400 4320 SALES TAX 7.15.40 SALES TAX SALES TAX 7.15.40 SALES TAX SALES TAX 7.15.40 SALES TAX 7.15.40 SALES TAX 7.15.40 SALES TAX 7.15.40 SINDRED | JOB TYPE \$ | orFace | HOLE SIZE | 12 14" | HOLE DEPTH_ | ^ | CASING SIZE & W | /EIGHT | 5/ 24# |
| ACCOUNT QUANITY OF UNITS COOPED 2 45 MILEAGE COOP | CASING DEPTH | 251' | DRILL PIPE | | TUBING | | | OTHER | |
| REMARKS: Safety Meethus, Rigup on Wul #12, Cure Casing on batton. May 180 Sts Com. 3% Cu. 26 (20), Displace 14 HBBL HDD. Shatin. Light Crew. Light Crew. | SLURRY WEIGH | T_15.2 | SLURRY VOL_ | | WATER gal/sk | | | | 5-20' |
| MAY 180 SVS COM, 340CC-266 (so), DIS PIACE 144BBC H20. Shetin. Light + Crowled | DISPLACEMENT | 143/4 | DISPLACEMENT | T PSI | MIX PSI | | RATE 4 | BPM | - |
| ACCOUNT CODE QUANITY or UNITS DESCRIPTION of SERVICES or PRODUCT UNIT PRICE TOTAL Ceo 411 PUMP CHARGE 1150.00 150.00 150.00 Ceo 110 8.46 Tan Wileszo Delivery 175 666.45 CC5871 180 slk Surface Blench II 2400 4,320 SCANNED 250.00 4,458.20 SCANNED 250.00 SCANNED 250.00 SCANNED 250.00 SALESTAX 75.40 ESTIMATED 250.00 SALESTAX 75.40 ESTIMATED 250.00 SCANNED 250.00 SALESTAX 75.40 ESTIMATED 250.00 SCANNED 250.00 SALESTAX 75.40 ESTIMATED 250.00 SCANNED 250.00 SALESTAX 75.40 ESTIMATED 250.00 SALESTAX 75.40 ESTIMATED 250.00 SCANNED 250.00 SALESTAX 75.40 ESTIMATED 250.00 SCANNED 250.00 SALESTAX 75.40 ESTIMATED 250.00 SCANNED 250.00 SALESTAX 75.40 ESTIMATED 250.00 SALESTAX 75.40 ESTIMATED 250.00 SCANNED 250.00 SALESTAX 75.40 ESTIMATED 250.00 SALESTAX 75.40 SALESTAX 75.40 ESTIMATED 250.00 SALESTAX 75.40 SALESTAX 75. | REMARKS: | SaFoty Me | etune, F | Rigup | on WWt | 12 , CW | & Casing | on botto | m. |
| ACCOUNT CODE QUANITY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL CO 471 PUMP CHARGE | my 18 | 30 SKS C | om, 3% CC | -206 las | el, Disp | 1000 14. | MBBL Hol | 3. Shute | 4 |
| ACCOUNT CODE QUANITY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL CO 471 PUMP CHARGE | • | | | | | | | | |
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| ACCOUNT OODE QUANITY OF UNITS DESCRIPTION OF SERVICES OF PRODUCT UNIT PRICE TOTAL PUMP CHARGE 1 157.00 1 150. | | | | | hau | Andrew Control of the last of | 1 | | |
| CODE CODE CODE CONTROL OF THE SERVICES AND SERVICES AN | ACCOUNT | | | | La la l | | J | | |
| Caron 2 45 MILEAGE 7.5 321.25 Caron 2 45 MILEAGE 7.5 321.25 Caron 10 8.46 Ton Mileago Delivery 1.73 666.45 CC5871 180 SIK SURFACE Blanch T 24.00 4,320.00 SCANNED 185 25 6.458.20 4,843.55 SALES TAX 275.40 ESTIMATED SITIMATED | | QUANITY | or UNITS | D | ESCRIPTION of S | SERVICES or PR | ODUCT | | |
| Ceo 710 8.46 Ton Wiles, o Delivery 175 666 45 CC 5871 180 SIK Surface Blanch II 240 4,320 60 SCANNED 6,4582 4,843 60 SALES TAX 275.40 ESTIMATED SILES TAX 275.40 | Ceo 471 | 1_ | | PUMP CHAR | RGE | | | 1, 150 | 1,150-00 |
| CC5871 180 SIK SURFACE BLEVEL II 24-00 4,320-00 SCANNED 165 25 % - 1,614 55 4,843 65 WANT 3737 SALES TAX 275,40 ESTIMATED 1873737 | | 45 | _ | MILEAGE | | | | / | 32175 |
| SCANNED SO SIK SURFACE BLEVEL IT 24-00 4,320-00 4,320-00 5,458-20 1,614-55 4,843-55 4,843-55 ESTIMATED ESTI | Ce0710 | 8,4 | 46 | Ton | Milego" | Delivery | | 175 | 666 75 |
| SCANNED 6,45820 | | | | | - | | | . 00 | |
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| SALES TAX 278.40 ESTIMATED ESTIMATED | | | | | | | | | |
| SALES TAX 278.40 ESTIMATED ESTIMATED | | | | • | CAN | NED | | | 6,45820 |
| SALES TAX 778.40 ESTIMATED ESTIMATED | | | | • | JUNIT | S. At seven even. | 1055 | 25% - | 1,614 55 |
| ESTIMATED ESTIMATED | | | | | | Manifestor, Annual and | 10- | | 4,84300 |
| ESTIMATED ESTIMATED | | | | | | | | | |
| ESTIMATED ESTIMATED | | | | | 12/1/ | -0 | | | |
| | | | | U | rues | 30 | | | 275.40 |
| (| Ravin 3737 | //6 1. | | | | | | ESTIMATED TOTAL | 5119.08 |

AUTHORIZTION TITLE and flusted DATE 6-3-19

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.

TERMS AND CONDITIONS

ATTENTION: THESE TERMS AND CONDITIONS CONTAIN INDEMNITY PROVISIONS FOR DAMAGE TO PERSONS AND PROPERTY.

All Services or Products provided by QES Pressure Pumping LLC (III/a Consolidated Oil Well Services LLC) are subject to these Terms and Conditions unless superseded by a Master Service Agreement signed by the parties in the ovent Customer does not accept these Terms and Conditions as written, Customer must request a Master Service Agreement from QES. Contracts Administration Department

The operations, services, supplies, materials, personnel or goods to be provided to Services, or "Froducts" as applicately by OES Pressure Permand LLC ("QES") will be provided to you as customer ("Currigmer") in accordance with the tollowing terrini and conditions ("Agreement"). QES and Customer may be refurred to as "Party" or "Farties".

- 1 Price and Jazes: Customer will pay QES for the Services or Products in accordance with QES quoted price which exclude applicable taxes or process (conserters. Customer shall pay all applicable taxes and process (conserters healted to the Services and/or Products. QES) prices are subject to change.
- 2. Terms of Payment. Customer will pay CES cash in advance for Services and Products select CES has approved cried tiprior to the performance of the Services and/or delivery of the Products. Criedit terms for approved accounts require full payment of the invoiced amount within 30 days prior the data of histoice. All invisices not paid within 30 days will be charged an interest rate of 13% per month; or the maximum state allowed under applicable state tax, whichever to higher. Customer will be responsible for any free recurred by QES or the traffection of any amounts owed to QES including but not territial is afterney's fees to the contract of the
- 3 Proof of Services of Delivery of Products. QES will furnish ventication of proof of Services performed and Product delivery. Customer agrees to sign and return such ventication indicating Customer agrees to sign and return such ventication indicating Customer's exceptions of the Services of Products.
- 4. <u>Delivory or Completion</u>. All intofiny and responsibility of OES average which (1) Products and delivered to the Customer by QES and no longer in the care, custody and central of OES as (2) when the career receives the Products anxion shapment. QES will not be responsible to been or damage to Products an transit of the delays of careira in delivering poods in case of shorter period, non-conformance or apparent damage, it is the Customer as responsibility to secure written acknowledge/unit from the carrier before Customer accepts delivery. Additionally, OES will not be liable for any damage for delays to delayer or completion due to a Force Majeure (as defined below), acts or chessacian of the Customer, that party material or manufacturing delays, impossibility or improclateability of performance or any other cause or completion date will be extended for a period equal to any such delay, and the purchasis or service will not be varied for wheating an essential to the order or service will not be varied to an a result before the control. not be void or voidable as a result thereof
- 5 Well or Service Sta Conditions. Customer, having custody and control of the well and for service side and having superior knowledge of the name and the conditions suprepring than, warrant that the well and/or service side will be in proper condition to receive and accommission service shall be request. Upon OES' request. Customer will provide documentation to verify that the well or service side is adequate to support the Services and the delivery of Products. Cristomer also warrants that OES personnel and expension at least the article service service service expension for recard comprovements required for such access will be the responsibility of Customer, unless otherwise agreed to be the most service.
- 5 Chamical Handling and Hazardous Materials, Customer agrees that for any weath created as part of the Services. Customer will be considered the "penember for purposes of any applicable lews or regulations portioning to the transportation, storage and transling of themcalls and hazardous materials.
- 7. <u>Data Data Transmission and Storage</u>, QES does not warrant or guarantee the accuracy of research analysis, survey, or other data generated for the Services. QES is not responsible for accidental or intentional interception of such data by third patters and it is the restorability of Cushman to safeguard such data against loss including any need to secure digital or paper copies.

- If WARANTIES LIMITATION OF LIMBILITY

 If OES warrants that the Services and Products will (i) be free from defects in materials level warkmanutho, (ii) be performed in a good and workmanuthe manner, in accordance with good celleid surviving practices, and (iii) conform to the plans, specifications and forchined information provided in writing by Cristomer until the Services or Products are accepted by Cristomer and the Services or Products are accepted by Cristomer and solves Castromer with order OES continuation that the Services or Products are defective, OES's labelity and Cristomer's sectionary in any cause the Services or Products are defective, OES's labelity and Cristomer's sectionary in any cause of action (whether in text contract, breach of winnering or otherwise) arising out of the sale or use of any Services of Products are expressly limited to, at OES' replace, the (ii) include the sale or use of any Services of Products upon those return to OES or (ii) a credit to Coutomer for the full price paid by Customer for the defective significant or the full price paid by Customer for the defective significant or the material of OES in the case of products or parts under its hability to OES oeS will not be liable for any damages, claims, losses or expenses of Customer resulting from such defects or for damages ansuffing from delaying less of use, or other direct indirect, kincitentar, punitive or consequential damages of any kind. OES will not be respected by Castromer resulting from such defects or for damages of any kind. OES will not be respectable for (i) failures of Services that have been in any way tarpreprior will not affected by amone other than an extreorand representative of OES (ii) failures due to luck of complance with text.
- EXCEPT FOR THE WARRANTIES EXPRESSLY STATED ABOVE, THERE ARE NO OTHER WARRANTIES THE PARTIES EXPRESSLY EXCLUDE AND CUSTOMER WAIVES ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.
- c) IN NO EVENT WILL QES ENTIRE LIABILITY (IN TORT, CONTRACT, WARRANTY, INFRINGEMENT OR OTHERWISE) TO CUSTOMER EXCEED THE PURCHASE PRICE ACTUALLY PAID BY CUSTOMER FOR THE SERVICES OR PRODUCTS THAT GIVE RISE TO A DISPUTE THIS PROVISION WILL SURVIVE ANY TERMINATION OF THIS AGREEMENT

- 9 INDEMNIFICATION AND WAIVER OF CONSEQUENTIAL DAMAGES.
 9.1 For purpose of this Section 9, the following definitions will apply "QES_Group" means QES Pressure
 Frumming LLC. Its parent company, and affidiated companies and its and flew officers, decorars,
 employees, contractors, subcontractors and invities. "Customer Companies and consistence its parent of
 any) subsidiary and affidiated companies, co-owners, co-venturers, partners and any entity with whom
 Costomer has an economic interest with respect to the Services including. Customer is just internst
 owners, and partners and its and their officers, directors, employees, contractors (not lackuding QES).
- 9.7 <u>QES INDEMNITY.</u> QES AGREES TO PROTECT, DEFEND, INDEMNIFY AND HOLD HARMLESS CUSTOMER GROUP FROM AND AGAINST ALL CLAIMS, DEMANDS, AND CAUSES OF ACTION OF EVERY KIND AND CHARACTER, ARISING IN CONNECTION WITH THE SERVICES, ON ACCOUNT OF BÖDLIY INJURY, ILLINESS. OR DEATH OF ANY MEMBER OF QES GROUP OR, DAMAGE TO OR LOSS OF PROPERTY OF ANY MEMBER OF QES GROUP.
- 9.3 CUSTOMER INDEMNITY. CUSTOMER AGREES TO PROTECT, DEFEND, INDEMNIFY AND HOLD HARMLESS QES GROUP FROM AND AGAINST ALL CLAIMS, DEMANDS, AND CAUSES OF ACTION OF EVERY KIND AND CHARACTER, ARISING IN CONNECTION WITH THE SERVICES, ON ACCOUNT OF BOOLLY, INJURY ILLUSES, OR DEATH OF ANY MEMBER OF CUSTOMER GROUP OR DAMAGE TO OR LOSS OF PROPERTY OF ANY MEMBER OF CUSTOMER GROUP.
- 9.4 WELL, CUSTOMER WILL RELEASE, PROTECT, DEFEND, AND INDEMNIFY DES GROUP FROM AND AGAINST ALL CLAIMS, DEMANDS AND CAUSES OF ACTION OF EVERY KIND AND CHARACTER IN THE EVENTS OF: (I) LOSS OR DAMAGE TO ANY GEOLOGICAL FORMATION. STRATA OR OIL OR GAS RESERVOIR OR MINERAL OR WATER RESOURCE BENEATH THE SURFACE OF THE LAND OR WATER, (II) LOSS OR DAMAGE TO THE HOLE OR WELL, (III)

IMPAIRMENT OF PROPERTY RIGHTS OR OTHER INTERESTS IN OR TO OIL, GAS, MINERAL OR WATER RESOURCES, AND (IV) REGAINING CONTROL OF ANY WILD WELL OR OUT OF CONTROL WELL, UNDERGROUND OR ABOVE THE SURFACE, INCLUDING REMOVAL OF WRECK, OEBRIS. EQUIPMENT, AND HAZARDOUS MATERIALS AND REMEDIATING ENVIRONMENTAL DAMAGE.

- 9.5 POLLUTION RESPONSIBILITY. Subject to paragraphs 9.2 and 9.3, it is understood and agreed between Customer and QES that the responsibility for pollution shall be as follows:

 (a) QES WILL ASSUME RESPONSIBILITY FOR CONTROL AND REMOVAL OF AND WILL PROTECT, DEFEND AND INDEMNIFY CUSTOMER GROUP FROM AND ASJINST ALL CLAIMS, DEMANDS AND CAUSES OF ACTION OF EVERY KIND OF CHARÁCTER ARISING FROM POLLUTION OR CONTAMINATION WHICH ORIGINATES ABOVE THE SURFACE OF THE LAND OR WATER FROM THE EQUIPMENT OF ANY MEMBER OF CES GROUP MAINTAINED IN QES GROUPS' CARE, CUSTODY AND CONTROL, AND APISING FROM THE PERFORMANCE OF THE SERVICES.
 - SERVICES,

 (b) CUSTOMER WILL ASSUME RESPONSIBILITY FOR CONTROL AND REMOVAL OF AND WILL PROTECT, DEFEND AND INDEMNIFY GES GROUP FROM AND AGAINST ALL CLIMS, DEMANDS AND CAUSES OF ACTION OF EVERY KIND AND CHARACTER ARISING FROM POLLUTION OTHER THAN THAT DESCRIBED IN SECTION 9 5(A) ABOVE WHICH MAY OCCUR DURING THE CONDUCT OF OPERATIONS HERELINDER INCLUDING, BUT NOT LIMITED 10. POLLUTION RESULTING FROM FIRE BLOWOUT, CRATERING, SEEPAGE OR OTHER UNCONTROLLED FLOW OF OIL, GAS OR OTHER SUBSTANCE.
- 9.6 WAIVER OF CONSEQUENTIAL DAMAGES. NOTWITHSTANDING ANY PROVISION TO THE CONTRARY, CUSTOMER AND DES FURTHER AGREE THAT NEITHER PARTY WILL BE LIABLE TO THE OTHER OR EACH OTHER'S RESPECTIVE GROUP FOR ANY CONSEQUENTIAL, INCIDENTAL OR INDIRECT DAMAGES, INCLUDING BUT HOT LIMITED TO, LOSS OF PROFIT LOSS OF PRODUCTION, REVENUE, OR ANTICIPATED BUSINESS ("LOSSES") CUSTOMER AGREES TO INDEMNIFY AND HOLD DES GROUP HARMLESS FROM AND AGAINST ANY AND ALL CLAIMS FOR SUCH LOSSES ASSERTED BY MEMBERS OF CUSTOMER GROUP. CES AGREES TO INDEMNIFY AND HOLD CUSTOMER GROUP HARMLESS FROM AND AGAINST ANY AND ALL CLAIMS FOR SUCH LOSSES ASSERTED BY MEMBERS OF DES GROUP. SUCH LOSSES ASSERTED BY MEMBERS OF QES GROUP.
- 9.7 EXCEPT AS OTHERWISE EXPRESSLY LIMITED BY THIS AGREEMENT OR BY LAW ALL RELEASES, INDEMNITY OBLIGATIONS AND OTHER LIABILITIES ASSUMED UNDER THIS AGREEMENT WILL BE WITHOUT LIMIT AND WITHOUT REGARD TO THE CAUSE OR CAUSES INCLUDING, WITHOUT LIMITATION, PREEXISTING CONDITIONS, UNSEAWORTHINESS, STRICT LIABILITY, WILLPUL MISCONDUCT, AND THE SOLE, JOINT, GROSS, OR CONCURRENT NEGLIGENCE OF ANY PARTY.
- 9.8. Each Party hereunder agrees to support its indemnity obligations with flability insurance coverage with limits of liability not less than ten million dotters (\$10,000,000). It is the express intention of the Parties that the indemnities contained berein apply to the fullest extent permitted by applicable law, and in no event will a Party's indemnity obligation be limited to the amount of insurance carried by each Party.

THIS SECTION 9 WILL SURVIVE THE TERMINATION OR EXPIRATION OF THIS AGREEMENT

- 10. lustance: All neurance policies of either Party, is any way related to the Services, whether or not required by this Agricancer, shall to the extent of the risks and Untertion assumed by such party. At more the other party group as additional insured (except for workers compensation, OEEECOW, is professional librability policion); (ii) waves subrogation as faither other party group, and (a) be atmost and non-contribute; to any injurance of the other party group.
- 11. Force Majeurs. Except the obligation to make payments when due mether CES nor Customer will be liable nor deemed to be in breach of this Agreement for any deay or failure in performance insolving from the acts of Ged, cive or military authority, material change of tax, any governmental action, acts of public enemy, we accolents. Direc explained, earthqualves, Rody, Indice of transportation maltimal surfaces acute or unusual face; material or equipment structages or any sends to dissertate national surface acts or promptly notify the other Party or expected will as soon as turn a cause or event occurs promptly notify the other Party or writing concerning the cause and the estimated effect and take reasonable measurest with proper deplatch to remark the condition in the event Customer doctares a force impose occurrence OES will be compensated at the standard day into for the materials and personnel that are standary did not accurred. OES will be compensated at the standard day into for the materials and personnel that are standary did not come.
- 12. <u>Approximation</u>. Dies Agreement will be governed by the laws of the State of Texas, without regard to its conflicts of taw provisions. The Parties agree to submit to the exclusive jurisdiction of the federal or state courts located in Houston. Harms Courty, Texas with respect to any and an exputes that arise out of or an egitated in any way to the subject matter of this Agreement. This Section 12 will survive the termination of explanation of this Agreement.
- 13 Independent Contractor: QES will be an independent contractor with respect to the Services performed and perfect QES not snyony employed by QES will be deemed for any purpose to be the employee lagrant servant, borrowed resignat or representative of Customer.
- 14 Severability, In the event any provision of this Agreement is incurrently with or contrary to any applicable tax, rule or regulation the provision will be degreed modified to the extent required to comply and the remaining terms, as modified, will remain in full force and effect.
- 15 Warver. A worver on the part of editor Party of any breach of any term provision or complice of this Agricument will not constitute a pracedent and not bind either Party harms to a warver of any succeeding or other breach of the same or any other term provision or condition of this Agricument.
- 16 Entire Agreement. The Agreement contains the entire agreement of the Parkes with regard to the subject matter hereof, and supersedes any prior not and written agreements, contacts, representations of warranty between the Parkes relating to the subject matter hereof. The amendment or modification of this Agreement will be effective unless it is in writing and signed by an authorized representative of each Party if the Parties enter into a Master Service Agreement, then any torin or condition herein which conflicts with the provisions of such Master Service Agreement will be deemed invalid.





PRESSURE PUMPING

Knox City #1711 P.O. Box 115 KNOX City Tx 79529 Office: 940.658.1366

| | Field Receipt | | | | 74 | | |
|--|---|-------------------------|---------------------------|------------------|--|------------------|----------------------|
| Customer: | | Pump No.: | | | Cementer: | Justin Truss | eli |
| Address: | LD Drilling Inc | Ticket # | | | Bulk TRK No.: | 83042 | |
| City, State, Zip: | | | 1711-09201 Port Collar | A | Dank (Ref. 140). | | |
| Service District: | | | T OIL OOMAT | Oil | Total Man Hrs | | |
| Lease Name.: | 1711 | Well Type: | | | | 24-4-1 | |
| Product | Ramsey Trust Description | Well Not | 15B-1 Quantity | County: | Scott | State: | Kansas Net Amount |
| Code | | Measure | | Price/Unit | Amount | Discount | Net Amount |
| BC118 | A-Con Blend | EA | 200 | \$18.00 | \$3,600.00 | 66.00% | \$1,224.00 |
| CC109 CC102 | Calcium Chloride Celloffake | LB | 564 50 | \$3.70 \$1.05 | \$2,086.80 \$52.50 | 66.00% 66.00% | \$709.51 \$17.85 |
| ME101 | Light Vehicle Mileage | Mi | 100 | \$4.50 | \$450.00 | 66.00% | \$153.00 |
| | Heavy Equipment Mileage | MI | 200 | \$7.50 | \$1,500.00 | 66.00% | \$510.00 |
| DC104 | Proppant and Bulk Delivery Charges | Tn/Mi | 940 | \$2.50 | \$2,350.00 | 66.00% | \$799.00 |
| CC3 | Depth Charge, 2001'-3000' | HR | 1 | \$1,800.00 | \$1,800.00 | 66.00% | \$612.00 |
| CE240 | Blending & Mixing Service Charge | SK | 200 | \$1.40 | \$280.00 | 66.00% | \$95.20 |
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| | | | | | | | |
| | | | | Gross | \$12,119.30 | Net | \$4,120.56 |
| ERMS: Cash in advance unless I | Sincir Energy Services has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice date of invoice. Past due accounts may pay interies on the balance past due at the rate of 1 XW, per month or the | Customer Repr | esentative: | | | Total | \$4,120.56 |
| pumum allowable by applicable state torney to affect the collection of said | or federal loss if such laws limit interest to a lumar arrount. In the event it is necessary to employ an agency and/or account, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that | Basic Repr | esentative: 、 | Justin Trussell | with how | \ | 1 |
| informer's account with BES becomes on revocation, the full invoice price | s definquent, BES has the right to revoke any and all discounts previously applied in arriving at net invoice price. Bythout discount will become immediately also and owing and adoject to collection. | . Date o | f Service: | | July 3, 201 | 19 | |
| x 7/- | why dopp | INDEMNIFICATION OBLIGAT | | | NS IN ACCORDANCE WITH THE RACT FORM AND REPRESENT | | |
| | CUSTOMER AUTHORIZED AGENT | ISIGN THIS ORDER. | | | | | |
| | Customer Comments or Concerns: | L | | | | | |
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Knox City Yard #1711 P.O. Box 115 Knox City, Texas 79529 Office: 940-658-1366

PRESSURE PUMPING

| Customer | LD Drilling | Inc | | | Cement Pump No. | Report | 2,110 | A | lundin T | II |
|-------------------|-------------|------------------|----------|------|-----------------|-----------------|-----------|--------------------|----------------|----------|
| Address: | | | | | | | | | Justin Trus | 5¢li |
| | | | _ | | | 1711-09201A | 1 | Bulk Truck: | 83042 | |
| City, State, Zip: | | | | | + | Port Collar | | | | |
| Service District: | | | | | Well Type: | | | | | |
| Lease Name.: | | | | | Well No: | 15B-1 | County | r: Scott | State: | Kansas |
| Size of Hole | | 7 7/8 | | | Hole Cap. | | Packe | • | Casing | |
| Size Casing | 5 1/2 | Casing Wt. | | 15.5 | Casing Cap. | 0.0238 | Retaine | ·r | TD | |
| Size Tubing | 2 7/8 | Tubing Wt. | | | Tubing Cap. | 0.00579 | Perf | s | Port Collar | 22 |
| | # of sacks | PPG | Yeil | ld | Water Req. | Class | Additive | S | | |
| Stage 1 Lead | 200 | 11.6 | 2 | 2.77 | 16.75 | A-CON | 3%CALCIUN | CHLORIDE, .25#CEL | LOFLAKE | |
| Tail | | | | | | | | | | |
| Stage 2 Lead | | | | | | | 19 | | | |
| Tail | | | | | | | | | * | |
| Time | Rate | Values | _ | | | (DOE) | | | | |
| rine | (BPM) | Volume (BBLS) | T | С | Pressur | | Descri | ption of Operation | n and Mate | rials |
| | (DI W) | (DDLS) | <u> </u> | 10 | Tubing | Casing | - | 24 | | |
| | | | \vdash | - | | | | SAFTEY | | |
| | | | | 1 | 500 | | | RIG TEST C | | |
| | | | | | - 555 | | | OPEN ' | - | |
| | 3 | 5 | | | 150 | | | BREAK CIR | | |
| | 3.8 | 98 | | _ | 200 | 100 | | PUMP CI | | |
| | 3.5 | 12.5 | | - | 320 | | | FLU | SH is | custed + |
| | | | | - | | | | SHUT | 002 | emen of |
| | | | | | 500 | | | TEST C | | W |
| | 4 | 30 | | | 350 | | | TIF | | |
| | | 9 | | | - 500 | | | CIRCULATI WASH | | |
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| | P | Ry | 4 | Py | <u>в</u> | asic Represen | tative: | Justin Trussell | | |
| stomer Signature: | 1+11 | 7 | 56.00 | // | C | ustomer Repre | | | 0 | |
| | | | | | | ate of Service: | | | 7/3/2019 | |



1700 S. Country Estates Read Liberal, KS 67901 PH (620)-624-2277FAX (620) 624-2280

SERVICE ORDER - 1718-19623 L

| | | | TTMN-26 | Da | te: 7/11/2019 |
|---|---|--|--|--|---|
| Well Name: Ramsey Trust 1 | 5R-1 | | | Location: | |
| County - State: | JD-1 | | | 15,19,31 RRC#: | |
| Scott, Ks | | | | 198 | 42-4, |
| Type Of Service: | | | | Customer's Order #: | |
| Z41 - Squeeze I | | | 1002333-2002064 | | |
| | Customer: L | | | | |
| | Address: 1 | الم الم | 26th Ave & Bund KS 67530 | | |
| As a consideration, the al- default in payment of Cus- the collection costs and a Basic Energy Services. , I PARTICULAT PURPOSE contract tort, product flab or, at Basic Energy Saryl | tomers account by Morney fees. These | mer agrees to pa such date, Custo terms and cond | y Barlo Energy Services in accord with the rates and terms stated in Barlo Energy Services current price hats. Invoices are payable over a grees to pay indirect thereon after default at 16% per annum. In the swent it becomes necessary to employ an attorney to endown the state of the state of the state where services are performed or equipment or materials are furnished. Objects and traveletals and that the same are free from defects in workmanning. THERE ARE HO WARRANTIES, EXPRESS OR IN DEFOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Barlo Energy Services, Instity and Coutomate is a sufficient of the state or use of any products, supplies, or materials upon their return to Baulo Energy Services, is expressly instity or confusion of credit for the cost of such items, in no event shall Gaide Energy Services be liable for special, indirect, purifies or con- | e NET 30 (SEE 10.2) after date of viorce collection of said account, C IPLIED, MERCHANTABILITY, FITI exclusive reimody in any cause of ad to the replacement of such pro- sequential dumings. | Invoice. Upon Customs Austomer agrees to pay o NESS FOR A action (whether in dacts, supplies or mater |
| | | | | 11002.50H | |
| CODE 9C103 | QTY 50 | UOM / | VCIASS H Cement | PRICE | TOTAL |
| BC103 | 150 | SK V | Class H Cement | 39. | |
| CC187 | 24 | LB V | C-17 | 39. | |
| C105 | 12 | LB 3 | C-41P | 24. | |
| ME102 | 200 | MI | Heavy Equipment Mileage | | |
| E240 | 200 | SK | Blending & Mixing Service Charge | | .00 1600 .40 280 |
| M | 940 | MI | Ton Mileage | | 00 2820 |
| C5 | 1 | HR | Depth Charge, 4001'-5000' | 2500. | |
| /E101 | 100 | MI | Light Vehicle Mileage | | 00 500 |
| E143 | 1 | Ea | Supervisor | 75. | |
| E144 | 2 | Ea | Driver | 35. | |
| E500 | 1 | EA | Cement Squeeze Manifold | 500. | |
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| Augal | CALVAI | ia, E | | 0 | ا ا ا |
| VER: ANGO | Echevaa | (ia, & | OPERATION OF EQUIPMENT WAS SATISFACTORY PERFORMANCE OF PERSONEL WAS SATISFACTORY | 0 | T-2 |

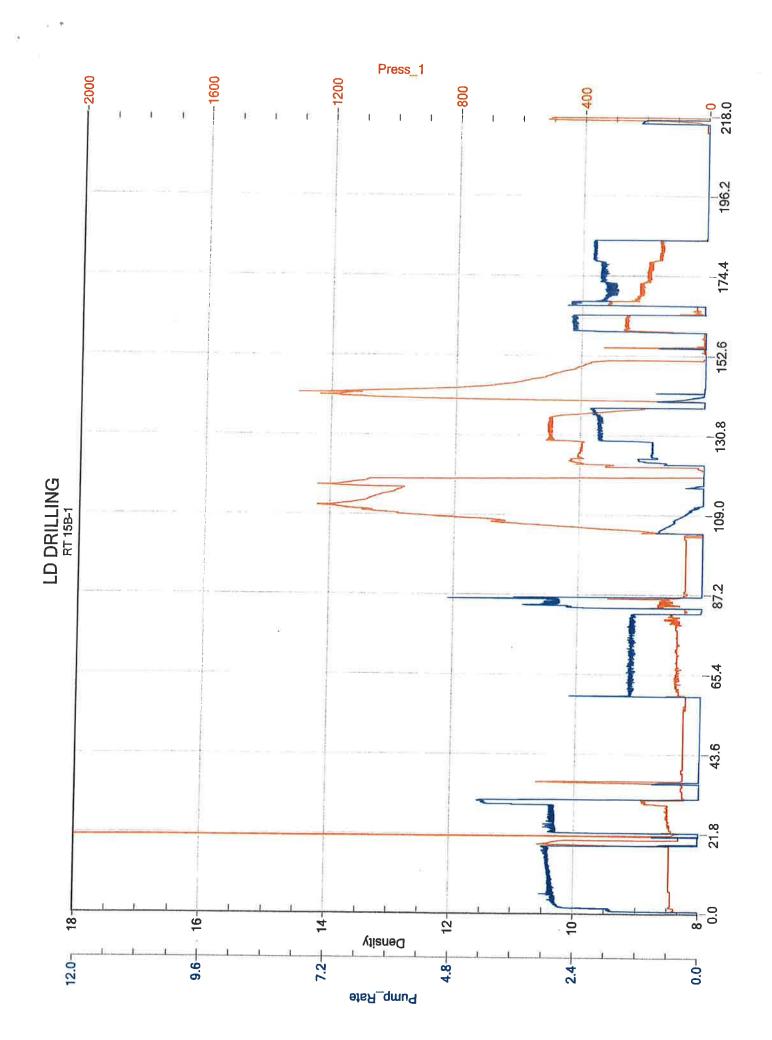


Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING

Job Log

| Gustome | n | LD Drilling Inc | ; | | Cement Pump No | 38750-19 | 842 4.5 HRS | Operator TRK No. | 968 | 15 |
|-------------------|--------|-----------------|-----|----------|------------------|-----------------|-------------|-----------------------------|--------------------|------|
| Address | | | | | Ticket | #1 1718- | -19623 L | Bulk TRK No. | 37712-19883 | |
| City, State, Zip | 4 | | | | Job Typ | et | Z41 | - Squeeze Pe | rfs | |
| Service District | | | | | Well Typ | 61 | | OIL | | |
| Vell Name and No. | Ra | msey Trust 15 | B-1 | | Well Location | 15,19,3 | 1 County | Scott | States | K |
| Туре | of Cmt | Sacks | | | Additives | 1. | | Truck Loa | aded On | |
| PRF | MIUM | 50 | | | .5%C-17, 1/4#C | -41P | 37712 | 2-19883 | Front | Back |
| , nc | | 30 | _ | | .0700-17, 174170 | | 07712 | -10000 | 11011 | Dack |
| PRE | MIUM | 150 | | | NEAT | | | | Front | Back |
| | | | | | | | | | Front | Back |
| Lead | /Tail: | Weight #1 Gal. | Cu/ | Ft/sk | Water Re | quirements | CU. FT. | Man I | lours / Persor | nnel |
| Le | ad: | 16.4 | 1. | .06 | 4 | .35 | 53 | Man Hours: | 26 | |
| Ta | il: | 16.4 | 1. | 06 | 4 | .35 | 159 | # of Men on Job; | 3 | |
| Tíme | | Volume | Pu | mps | Pres | ssure(PSI) | | escription of Oper | ation and Material | s |
| (am/pm) | (BPM) | (BBLS) | Т | С | Tubing | Casing | | | | |
| 8:00 | | | | | | | 0 | N LOC, SAFTI | | |
| 8:58 | 2 | 51 | | | | 500 | | LOAD | | |
| 9:19 AM | | | | | 2100 | | <u> </u> | TEST L | | |
| 9:20 AM | 4.2 | 28 | | | 180 | | | INJECTIO | | |
| 9:55 AM | 1.4 | | _ | | 80 | | STAR | T MIXING 50 SX W/FL @ 16.4# | | |
| 10:03 | 1.4 | 9.4 | | | 80 | | | ON NEAT @ 16.4# | | |
| 10:20 | 00411 | 28.3 | - | | | | | SHUT DOWN | | |
| 10:25 AM | GRAV | 40.5 | _ | \vdash | 000 | | | START DISPL | | |
| 10:42 | 0.9 | 16.5 | _ | | 200 | | | K.I.F | | |
| 10:50 | | 20.5 | _ | - | 1200 | | | K.O.P. V | | |
| 10:55 | | 20.5 | | | 990-1200 | | | BUMP | | |
| 10:57 11:01 | 2 | 28 | | - | | 500 | | RELEAS REVERS | | |
| 11:19 | | 20 | | | 1200 | 300 | | PSI UP T | | |
| 11:29 | | | - | | 1200 | | | RELEASE PS | | |
| 11:37 | 2 | 14 | | | | 220 | | REV OUT (| | |
| 11:40 | | | | | | | | TIH 1 | | |
| 11:44 | 2 | 30 | | | | 220 | | REV OUT C | | |
| 12:01 | | | | | | | | TOOH W | | |
| 12:32 | | | | | 500 | 500 | | PSI UP WELI | | |
| | | | | | | | | JOB COM | PLETE | |
| | | | | | | | THANK | YOU FOR YO | OUR BUSINES | SIII |
| | | | | | | | | | | |
| Size Hole | | Depth | | | | | TYPE | | | |
| Size & Wt. Csg. | | Depth | | | New / Used | | Packer | | Depth | |
| lbg. | | Depth | | \dashv | | | Retainer | | Depth | |
| Top Plugs | | Туре | | | | | Perfs | | CIBP | |
| | 16 | 00 | | | | Basic Represe | | DA S | HAD HINZ | |
| Sustomer Sign | nature | upy Tay | No | | | Basic Signatur | | CMY | | |
| | | | | | | Date of Service | ə:İ | 7/11/2019 | | |





1700 S. Country Estates Racd Liberal, KS 67901 PH (620)-624-2277FAX (620) 624-22

SERVICE ORDER - 1718 19584 L

| | ENEUGY SE | INVICES | PH (620)-624-2277FAX (620) 624-2280 | | |
|---|---|---|---|--|---|
| Well Name: | | | TTL MHR 39 | | 9/17/2019 |
| Ramsey Trust | 15B-1 | | | Location: 15,19,31 | 8 |
| County - State: | | | | RRC#: | |
| Scott, Ks | | | | 19919 | -5.5 |
| Type Of Service | | | | Customer's Order #: | |
| Z41 - Squeeze | Customer: | I D Drilling | 1002333-2002064 | | |
| | | | | | |
| | Address: | 7 5 k | 1 76th Ave 1 Bend Ks 67530 | | |
| As a consideration, the default in payment of C the collection costs and | above named Custo Sustamere account by | omer agrees to p | ay Baulo Energy Services In accord with the rates and terms stated in Baulo Energy Services current price that, invoices are payable norm agrees to pay interest thereon after default at 15% per annum. In the event it becomes necessary to employ an attorney to en 30 ons afail to governed by the laws of the attack where services are performed or equipment or materials are furnished. | NET 30 (SEE 10.2) after date of Invoidence collection of said account, Custon | ce, Upon Customer's ner agrees to pay all |
| Basic Energy Services PARTICULAR PURPO contract, tort, product li or, at Basic Energy Se | . Warrents only till SE OR OTHERWISI ability, breach of war rvices, option, to the | to the products, of the thick extends of the thick | rupplies and materials and that the same are free from defects in workmanship. THERE ARE NO WARRANTIES, EXPRESS OR IM ID BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Basic Energy Services, liebtily and customere is a plasting out of the sale or use of any products, supplies, or materials upon their return to Basic Energy Services, is expressly limits Customer of credit for the cost of such litems. In no event shall Basic Energy Services be liable for special, indirect, purative or cons | PLIED, MERCHANTABILITY, FITNESS exclusive remedy in any cause of action at to the replacement of such products equential damages. | FOR A n (whether in supplies or materials |
| CODE | QTY | UOM | DESCRIPTION | PRICE | TOTAL |
| 3C103 | 140 | SK | Class H Cement | 39.00 | 5460.00 |
| | | | | | |
| | | | 17 | | |
| | | | | | |
| /IE102 | 200 | Mi | Heavy Equipment Mileage | 8.00 | 1600.00 |
| E240 | 140 | SK | Blending & Mixing Service Charge | 1.40 | 196.00 |
| M | 1410 | MI | Ton Mileage | 3.00 | 4230.00 |
| CC5 ME101 | 100 | HR MI | Depth Charge, 4001'-5000' Light Vehicle Mileage | 2500,00 | 2500.00 |
| BE143 | 1 | Ea | Supervisor | 5.00 75.00 | 500.00 75.00 |
| E144 | 2 | Ea | Driver | 35.00 | 70.00 |
| E500 | 1 | EA | Cement Squeeze Manifold | 500.00 | 500.00 |
| | | | | | |
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| | +-+ | | | | |
| | | | | | |
| | | | | Book Total: | \$15,131.00 |
| | | | | Taxes: | |
| | | | | Disc. Price: | \$7,938.00 |
| | | | | YES | NO |
| JMP TRUCK NUM | BER: 70 | 897, 19919 | THIS JOB WAS SATISFACTORILY COMPLETED | | |
| | ~ | , | OPERATION OF EQUIPMENT WAS SATISFACTORY | H | |
| RIVER: Jesse | Paxtor | , Kic | by Harper PERFORMANCE OF PERSONEL WAS SATISFACTORY | | Ц |
| A | :00 | Ba | | non) | |
| asim | ell i | - July | X my 10 | 7 | |
| BAS | IC ENERGY S | ERVICES | CUSTOMER OR A | SAGENT | TO |
| Cuntama- | Comments or | Concerns | | | 100 |
| Customer | Jonanems of | Sonceills: | | | |
| | | | | | |
| | | | | | |



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING Job Log

| | | | | | OOD LOG | | | | | | |
|---------------------------------------|--------------|------------------|----------|-------|--------------|-----------------|--|--------------------|-----------------------|-------|--|
| Gustom | of: | LD Drilling Inc | | | | 70897, | 19919 5.5Hrs. | Operator TRK No. | 968 | 96816 | |
| Addres | 551 | | | | | #: 1718 | 1718 19584 L | | 33021, 14284 Kirby | | |
| City, State, Zi | p: | | | | | e: | Z41 | - Squeeze Perfs | | | |
| Service District: 1718 - Liberal, Ks. | | | Well Typ | et | | OIL | | | | | |
| ell Name and No.: Rai | | msey Trust 15B-1 | | | Well Locatio | nı 15,19, | 15,19,31 County | | State | К | |
| Type of Cmt | | Sacks | | | Additives | | | Truck Lo | aded On | | |
| Premium / Common | | 150 | (÷ | | Neat | | 33021, 1 | 33021, 14284 Kirby | | Back | |
| Premium / Common | | 150 | | | Neat | | | | Front | Back | |
| | | | | | | | | | Front | Back | |
| Lead | l/Tail: | Weight #1 Gal. | Cu/l | Ft/sk | Water Re | equirements | CU. FT. | Man | Hours / Perso | | |
| Lead: | | 16.4 | 1.06 | | 4.31 | | 159 | TT Man Hours: | 38 |) | |
| T | Tail: | | | | | | 150 # of Men on Job: 3 | | | | |
| Time | | Volume | Pu | ımps | Pres | ssure(PSI) | Description of Operation and Materials | | | | |
| (am/pm) | (BPM) | (BBLS) | Ţ | С | Tubing | Casing | | | | | |
| 15:00 | | | | | | | ON L | OCATION & S | SAFETY MEET | ING | |
| 15:15 | | | | | | | RIG UP | | | | |
| 4:00 PM | | 56.5 | | | | 500 | PRESSURE UP BS TO 500PSI | | | | |
| 4:26 PM | | | | | | | PRESSURE TEST TO 2200PSI | | | | |
| 4:27 PM | 2 | 23 | | | 880 | | GET AN INJECTION RATE / LOADED W/19.5BBL | | | | |
| 16:41 | | | | | | | PUMP 10SX PLUGGED OFF / REVERSE OUT | | | | |
| 17:10 | | | | | | 500 | LOAD BS TO 500PSI | | | | |
| 5:17 PM | 1.9 | 26.4 slurry | | | 440 | | | PUMP 140SX @ 16.4# | | | |
| 17:30 | | | | | | | | SHUTDOWN / WP | | | |
| 17:35 | | 1 THRU 8 | | | | | DISF | PLACE / ON VA | ACUUM 1.25B | PM | |
| 17:41 | 0.4 | 8 | | | 350 | | | | | | |
| | 0.4 | 9 | | | 950 | | | | | | |
| 17:51 | | 12 | | | 1400 | | | SHUTDOWI | N / STAGE | | |
| 18:04 | | | | 3 | | | REVERSE OUT W/ 25BBL | | | | |
| 18:21 | | 0.25 | | | | 520 | LOAD BS TO 520PSI | | | | |
| 18:22 | | 0.5 | | | 1550 | | PRESSURE UP TB TO 1550PSI | | | | |
| 18:24 | | | | | | | RUN IN W/TB WASH CASING | | | | |
| 19:06 | | 91 | | | | | PULL TB | | | | |
| 19:29 | | | | | 490 | 490 | PRESSURE UP TO 490PSI / CLOSE IN | | | | |
| | | | | | | | | JOB COMPLETE | | | |
| | | | _ | - | | | | ==== | | | |
| | | | | | | | | | | | |
| Size Hole | | Depth | | | | | TYPE | | Swage | | |
| Size & Wt. Csg. | 5 1/2" 15.5# | Depth | | | New / Used | | Packer | 4087' | Depth | | |
| tbg. | 2 7/8" 6.7# | Depth | | | | | Retainer | | Depth | | |
| Top Plugs | | Туре | | | | | Perfs | 4194' -4200' | CIBP | | |
| ustomer Signature: All Popp | | | | | | Basic Repres | ic Representative: | | Daniel Beck | | |
| | | | | | 2 | Basic Signatu | re: | Daniel Beck | | | |
| | | | | | | Date of Service | e: | 7/17/2019 | | | |

