KOLAR Document ID: 1520208

| Confiden | tiality Re | quested: |
|----------|------------|----------|
| 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 | · DESCRIPTIO | N OF WELL | & LEASE |
|------|---------|--------------|-----------|---------|

| OPERATOR: License # | API No.: |
|--|--|
| Name: | Spot Description: |
| Address 1: | |
| Address 2: | Feet from Dorth / South Line of Section |
| City: State: Zip:+ | Feet from East / West Line of Section |
| Contact Person: | Footages Calculated from Nearest Outside Section Corner: |
| Phone: () | |
| CONTRACTOR: License # | GPS Location: Lat:, Long: |
| Name: | (e.g. xx.xxxx) (e.gxxx.xxxxx) |
| Wellsite Geologist: | Datum: NAD27 NAD83 WGS84 |
| Purchaser: | County: |
| Designate Type of Completion: | Lease Name: Well #: |
| New Well Re-Entry Workover | Field Name: |
| | Producing Formation: |
| | Elevation: Ground: Kelly Bushing: |
| | Total Vertical Depth: Plug Back Total Depth: |
| CM (Coal Bed Methane) | Amount of Surface Pipe Set and Cemented at: Feet |
| Cathodic Other (Core, Expl., etc.): | Multiple Stage Cementing Collar Used? Yes No |
| If Workover/Re-entry: Old Well Info as follows: | If yes, show depth set: Feet |
| Operator: | If Alternate II completion, cement circulated from: |
| | feet depth to:w/sx cmt. |
| Original Comp. Date: Original Total Depth: | |
| Deepening Re-perf. Conv. to EOR Conv. to SWD | Drilling Fluid Management Plan |
| Plug Back Liner Conv. to GSW Conv. to Producer | (Data must be collected from the Reserve Pit) |
| | Chloride content: ppm Fluid volume: bbls |
| Commingled Permit #: | Dewatering method used: |
| Dual Completion Permit #: | |
| SwD Permit #: | Location of fluid disposal if hauled offsite: |
| | Operator Name: |
| | Lease Name: License #: |
| Sourd Data or Data Reached TD Completion Data or | Quarter Sec TwpS. R East _ West |
| Recompletion Date Recompletion Date | County: Permit #: |

AFFIDAVIT

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

Submitted Electronically

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

KOLAR Document ID: 1520208

| Operator Nam | ne: | | | Lease Name: | Well #: |
|--------------|-----|------|-----------|-------------|---------|
| Sec | Twp | S. R | East West | County: | |

Page Two

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

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

| Drill Stem Tests Taken (Attach Additional Sheets) | | Y | ′es 🗌 No | [| | og Formatio | n (Top), Depth a | and Datum | Sample |
|---|--|--|---|--------------------------------------|----------------|---------------------------|--|---|-------------------------------|
| Samples Sent to Geolo | aical Survey | | les No | 1 | Name | Э | | Тор | Datum |
| Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run: | Logs | □ Y □ Y □ Y | és ☐ No és ☐ No és ☐ No | | | | | | |
| | | Rep | CASING ort all strings set-c | RECORD |] Ne | w Used | on, etc. | | |
| Purpose of String | Size Hole Drilled | Siz | ze Casing et (In O.D.) | Weight Lbs. / Ft. | | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| | | | | | | | | | |
| | | | | | | | | | |
| [| 1 | | ADDITIONAL | CEMENTING / | SQU | EEZE RECORD | | | |
| Purpose: | Depth Top Bottom | Туре | e of Cement | # Sacks Use | d | | Type and | Percent Additives | |
| Protect Casing Plug Back TD Plug Off Zone | | | | | | | | | |
| Did you perform a hydra Does the volume of the Was the hydraulic fractu | aulic fracturing treatme total base fluid of the uring treatment informa | ent on this v hydraulic fr ation submi | vell? acturing treatment tted to the chemic | exceed 350,000 al disclosure regi | gallo stry? | Nes Yes | No (If No, s No (If No, s No (If No, f | kip questions 2 ar kip question 3) ill out Page Three | nd 3) of the ACO-1) |
| Date of first Production/Inj Injection: | jection or Resumed Pr | oduction/ | Producing Meth | iod: | | Gas Lift 🗌 O | ther <i>(Explain)</i> | | |
| Estimated Production Per 24 Hours | Oil | Bbls. | Gas | Mcf | Wate | er Bb | ls. | Gas-Oil Ratio | Gravity |
| DISPOSITION | N OF GAS: | | N | | MPLE | TION: | | PRODUCTIO | ON INTERVAL: |
| Vented Sold (If vented, Subn | Used on Lease | | Open Hole | _ Perf C <i>(S</i> | ually ubmit | Comp. Com ACO-5) (Subn | nit ACO-4) | | |
| Shots Per Per Foot | foration Perfor Top Botte | ation om | Bridge Plug Type | Bridge Plug Set At | | Acid, | Fracture, Shot, C (Amount and Ki | ementing Squeezend of Material Used) | Record |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| TUBING RECORD: | Size: | Set At: | | Packer At: | | | | | |

| Form | ACO1 - Well Completion |
|-----------|------------------------|
| Operator | Shelby Resources LLC |
| Well Name | PF UNIT 1-18 |
| Doc ID | 1520208 |

Casing

| Purpose Of String | Size Hole Drilled | Size Casing Set | Weight | Setting Depth | Type Of Cement | Number of Sacks Used | Type and Percent Additives |
|----------------------|----------------------|-----------------------|--------|------------------|-------------------|----------------------------|----------------------------------|
| Surface | 12.25 | 8.625 | 23 | 1092 | 60/40 Poz | 450 | 2% gel/3% cc |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Date 3 - 8-20 | 5. Twp. 8 21 | Range | County State On Location Finish Pawnee Kansas On Location 6:45 |
|------------------------|-----------------|--------------------|--|
| PC . | Г | | ocation V V I |
| Lease) CAN | | Well No. /~// | N To Quality Oilwell Cementing, Inc. |
| Contractor Discovery D | RLG. R | g# TERRY | You are hereby requested to rent cementing equipment and furnish |
| Type Job Cement Lon | g Surt | the last | Charge |
| Hole Size 124 | T.D. | 1042 | To SHELBY Kesources LLLS |
| Csg. 8 Yorw 23 | Depth | 1090 | Street |
| Tbg. Size | Depth | | City State |
| Tool | Depth | | The above was done to satisfaction and supervision of owner agent/of contracto |
| Cement Left in Csg. 40 | Shoe J | oint | Cement Amount Ordered 450 5x 146 45cc 2641 |
| Meas Line | Displac | e | |
| | IPINENI | DAI. 50 / | Common 10 |
| Pumptrk 9 Helper | | Tany | Poz. Mix/80 |
| Bulktrk 9 No Driver | | Alexa C | Gel. 8 |
| Bulktrk Driver | | GARNA G. | Calcium 20 |
| JOB SERVIC | ES & REMA | RKS | Hulls |
| Remarks: | | sei tom fisser i i | Salt |
| Rat Hole | NKS | | Flowseal 25 H |
| Mouse Hole | U. | | Kol-Seal |
| Centralizers | | | Mud CLR 48 |
| Baskets | | | CFL-117 or CD110 CAF 38 |
| D/V or Port Collar | | | Sand |
| Kan 26 New Join | IT'S OS | -23# 159 | Handling 478 |
| Set@ 1090 | | | Mileage |
| Keciever Cifeula- | tion | | FLOAT EQUIPMENT |
| Mixen 450 5x 69/ 4+2 | | +2 | Guide Shoe |
| Release Rubber Plug | | | H Centralizer |
| Dicplace as To | TAL | OF67 BB | Baskets |
| LAND Plug Har | 500 | HIGT 1 | GSSAFU Inserts |
| Elling in | D 500 | ff. | Float Shoe |
| 2711 18/ (| | | |

Pumptrk Charge Lowg Surface Mileage 28 and the states Mileage 28 Sare 집 같은 것 같이 좋 Tax . Discount des instan 2 20 30 30 30 30 30 30 Total Charge X Signature 5 - 1 - 2 ⁻ a a l'ingeneration de la casta , 1 1 °≈ _y . .

QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107 No. 1964 Phone 785-483-1071 Home Office P.O. Box 32 Russell, KS 67665 Cell 785-324-1041 Sec. Twp. Range County State On Location Finish Date 5 21 awnee Location Larned nes init Well No. Lease Owner To Quality Oilwell Cementing, Inc. $\# \geq$)iscovery Contractor-You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. Plva Type Job Botard Charge Shel 340 Hole Size T.D. Sources То Csg. Depth Street Tbg. Size Depth City State Tool Depth The above was done to satisfaction and supervision of owner agent, or contractor. #10 Cement Amount Ordered / 60 GEL 10 Cement Left in Csg. Shoe Joint Meas Line Displace EQUIPMENT Common / Cementer maia No. Poz. Mix 6 Pumptrk Helper Ony Driver No. Bulktrk Gel. Driver

| Bulktrk / No. Driver | Calcium |
|---|-------------------------|
| JOB SERVICES & REMARKS | Hulls |
| Remarks: | Salt |
| Rat Hole 305K | Flowseal 50# |
| Mouse Hole 205K | Kol-Seal |
| Centralizers | Mud CLR 48 |
| Baskets | CFL-117 or CD110 CAF 38 |
| D/V or Port Collar | Sand |
| 15t 1140 505K | Handling / 76 |
| 2~ 220 505K | Mileage |
| 35 Loi 2051 | FLOAT EQUIPMENT |
| | Guide Shoe |
| or conditions to submeric ment proliuser and inprovidence | Centralizer |
| 114 | Baskets |
| | AFU Inserts |
| Ano: | Float Shoe |
| A' P | Latch Down |
| | |
| | |



| | DRILL STEM TES | DRILL STEM TEST REPORT | | | | |
|---|--|---|---|---|--|--|
| | Shelby Resources LLC | | 18-21s-17w | | | |
| ESTING , INC | 13949 W. Colfax Ave BLDG 1 S | E 120 | P-F- Unit | | | |
| | Lakew ood CO 80401+3248 | | Job Ticket: 65756 | DST#:1 | | |
| NON . | ATTN: Jeremy Schwartz | | Test Start: 2020. | 03.10 @ 13:43:00 | | |
| GENERAL INFORMATION: | | | | | | |
| Formation:Herrington-KriterDeviated:NoWhipstock:Time Tool Opened:15:05:40Time Test Ended:19:23:09 | ft (KB) | | Test Type: Con Tester: Ben Unit No: 66 | ventional Bottom Hole (Initial) ny Mulligan | | |
| Interval:2011.00 ft (KB) To20Total Depth:2080.00 ft (KB) (The construction of the con | | Reference ⊟evati KB to G | ions: 2084.00 ft (KB) 2076.00 ft (CF) R/CF: 8.00 ft | | | |
| Serial #: 6772InsidePress@RunDepth:27.82 psigStart Date:2020.03.10Start Time:13:43:01TEST COMMENT:IF-15- Built to 5"ISI-45- no blow the FF-45- BOB 37mertFSI-60- no blow | 2012.00 ft (KB) End Date: End Time: back back | 2020.03.10 19:23:10 | Capacity: Last Calib.: Time On Btm: 2020 Time Off Btm: 2020 | 8000.00 psig 2020.03.10 0.03.10 @ 15:02:20 0.03.10 @ 17:51:30 | | |
| Pressure vs. T | īme | | PRESSURE | SUMMARY | | |
| 100 100 100 100 100 100 100 100 | BIZ Improve BIZ I | Time P (Min.) 0 1 4 18 63 63 109 168 170 1 | Temp A (psig) (deg F) 078.36 89.98 17.66 89.77 22.34 89.55 155.08 89.36 07.42 88.85 303.38 88.96 039.22 89.51 | Annotation tial Hydro-static pen To Flow (1) tut-In(1) d Shut-In(1) pen To Flow (2) tut-In(2) d Shut-In(2) nal Hydro-static | | |
| Recovery | | | Gas R | ates | | |
| Length (ft) Description 30.00 Mud 100%M 0.00 GIP 30' | Volume (bbl) 0.21 0.00 | | Choke (inches | s) Pressure (psig) Gas Rate (Mcf/d) | | |
| | · · · · · · · · · · · · · · · · · · · | | | | | |

| | DRILL STEM TES | T REPC | DRT | | |
|--|--|------------------------|--|---|-----------------------------------|
| | Shelby Resources LLC | | 18-21s-17\ | w | |
| ESTING , INC | 13949 W. Colfax Ave BLDG 1 ST | TE 120 | P-F- Unit | | |
| | | | Job Ticket: 6 | 65756 DST # | !:1 |
| | ATTN: Jeremy Schwartz | | Test Start: 2 | 2020.03.10 @ 13:43:00 | |
| GENERAL INFORMATION: | | | | | |
| Formation:Herrington-KriterDeviated:NoWhipstock:Time Tool Opened:15:05:40Time Test Ended:19:23:09 | ft (KB) | | Test Type: Tester: Unit No: | Conventional Bottom H Benny Mulligan 66 | lole (Initial) |
| Interval:2011.00 ft (KB) To20Total Depth:2080.00 ft (KB) (The construction of the con | 80.00 ft (KB) (TVD) /D) e Condition: Fair | | Reference E KB | Eevations: 2084.0 2076.0 2076.0 3 to GR/CF: 8.0 | 00 ft (KB) 00 ft (CF) 00 ft |
| Serial #: 9058OutsidePress@RunDepth:psigStart Date:2020.03.10Start Time:13:43:05TEST COMMENT:IF-15- Built to 5"ISI-45- no blow theFF-45- BOB 37mFSI-60- no blowFSI-60- no blow | 2012.00 ft (KB) End Date: End Time: back back | 2020.03.10 19:23:14 | Capacity: Last Calib.: Time On Btm: Time Off Btm: | 8000.0 2020.03.1 | 0 psig 10 |
| Pressure vs. T | ime | | PRESSU | IRE SUMMARY | |
| 1000 Presure 1000 Presure 10 | SUBS Impondue 500 Impondue 5 | Time (Min.) | Pressure Temp (psig) (deg F | Annotation) | |
| Recovery | | | G | as Rates | |
| Length (ft) Description | Volume (bbl) | | Choke | e (inches) Pressure (psig) | Gas Rate (Mcf/d) |
| 30.00 Mud 100%M 0.00 GIP 30' | 0.21 0.00 | | | | |
| | | | | | |

| 10 | | DRI | LL STE | M TEST R | EPORT | - | | FLUID S | UMMARY |
|---------------------------|-----------------------------|---------|--------------|----------------------------|-----------|---------------|----------------|----------|---------|
| | RILUBITE | Shelby | Resources L | LC | | 18-21s-17w | 1 | | |
| | ESTING , INC. | 13949 | W. Colfax Av | e BLDG 1 STE 120 | | P-F- Unit | | | |
| | | Lakew | ood CO 8040 | 1+3248 | | Job Ticket: 6 | 5756 | DST#: 1 | |
| KSY . | | ATTN: | Jeremy Sch | w artz | | Test Start: 2 | 020.03.10 @ | 13:43:00 | |
| Mud and C | ushion Information | | | | | | | | |
| Mud Type: G | Gel Chem | | Cush | nion Type: | | | Oil API: | | deg API |
| Mud Weight: | 10.00 lb/gal | | Cush | nion Length: | | ft | Water Salinity | : | ppm |
| Viscosity: | 52.00 sec/qt | | Cush | nion Volume: | | bbl | | | |
| Water Loss: | 13.19 in ³ | | Gas | Cushion Type: | | | | | |
| Resistivity: | ohm.m | | Gas | Cushion Pressure: | | psig | | | |
| Salinity: Filter Cake: | 83000.00 ppm 1.00 inches | | | | | | | | |
| Recovery II | nformation | | | | | | | | |
| | | | Rec | overy Table | | | | | |
| | Leng | th | D | Description | | Volume |] | | |
| | | 30.00 | Mud 100%N | 1 | | 0.212 | - | | |
| | | 0.00 | GIP 30' | | | 0.000 | - | | |
| | Total Length: | 30 | .00 ft To | otal Volume: | 0.212 bbl | | • | | |
| | Num Fluid Sam | oles: 0 | N | lum Gas Bombs [.] | 0 | Serial # | | | |
| | Laboratory Nan | ne: | La | aboratory Location | : | | | | |
| | Recovery Com | ments: | | 5 | | | | | |
| | | | | | | | | | |
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Printed: 2020.03.10 @ 21:22:36

Ref. No: 65756





Printed: 2020.03.10 @ 21:22:37

Ref. No: 65756





| | DRILL STEM TES | T REP | ORT | | | | |
|---|--|---|---|---|--|--|--|
| | Shelby Resources LLC | | 18-21s | -17w | | | |
| ESTING , INC | 13949 W. Colfax Ave BLDG 1 ST | TE 120 | P-F- U | nit | | | |
| | Lakew ood CO 80401+3248 | | Job Ticł | tet: 65758 DST#: 3 | | | |
| NOV. | ATTN: Jeremy Schwartz | | Test Sta | art: 2020.03.11 @ 17:31:00 | | | |
| GENERAL INFORMATION: | | | | | | | |
| Formation:Ft. Rile yDeviated:NoWhipstock:Time Tool Opened:18:53:20Time Test Ended:01:24:20 | ft (KB) | | Test Ty Tester: Unit No: | be: Conventional Bottom Hole (Initial) Benny Mulligan 66 | | | |
| Interval: 2194.00 ft (KB) To 22 | 32.00 ft (KB) (TVD) | Reference Elevations: 2084.00 ft (| | | | | |
| Hole Diameter: 7.88 inchesHole | 7D) e Condition: Fair | | | 2076.00 ft (CF) KB to GR/CF: 8.00 ft | | | |
| Serial #: 6772 Inside Press@RunDepth: 55.64 psig Start Date: 2020.03.11 Start Time: 17:31:01 TEST COMMENT: IF-15- BOB 9min ISI-45- no blow b FF-120- BOB 26 FSI-120- no blow FSI-120- no blow | 2195.00 ft (KB) End Date: End Time: s 30secs total build of 16" back mins total build of 34" back | 2020.03.12 01:24:20 | Capacity: Last Calib.: Time On Btm Time Off Btm | 8000.00 psig 2020.03.12 2020.03.11 @ 18:52:20 2020.03.11 @ 23:57:00 | | | |
| Pressure vs. T | ime | | PRES | SSURE SUMMARY | | | |
| C20 F20 F20 F20 F20 F20 F20 F20 F | UZ Importer 072 Importer 072 Importer 070 | Time (Min.) 0 1 17 62 62 181 302 305 | Pressure T (psig) (d 1202.75 26.01 28.58 457.51 29.39 55.64 579.17 1158.60 | empAnnotationeg F)90.95Initial Hydro-static90.05Initial Hydro-static90.01Open To Flow (1)90.28Shut-In(1)90.37End Shut-In(1)90.24Open To Flow (2)39.44Shut-In(2)39.48End Shut-In(2)39.62Final Hydro-static | | | |
| Recovery | | | | Gas Rates | | | |
| Length (ft) Description 90.00 W/M. 10%W/90%M | Volume (bbl) | | | Choke (inches) Pressure (psig) Gas Rate (Mct/d) | | | |
| | 0.04 | | | | | | |
| | | | | | | | |
| | | | | | | | |
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| | DRILL STEM TES | T REPO | ORT | |
|--|--|------------------------|--|--|
| | Shelby Resources LLC | | 18-21s-1 | 7w |
| ESTING , INC | 13949 W. Colfax Ave BLDG 1 ST | E 120 | P-F- Uni | t |
| | Lakew ood CO 80401+3248 | | Job Ticket: | 65758 DST#: 3 |
| NOK. | ATTN: Jeremy Schwartz | | Test Start: | 2020.03.11 @ 17:31:00 |
| GENERAL INFORMATION: | | | | |
| Formation:Ft. Rile yDeviated:NoWhipstock:Time Tool Opened:18:53:20Time Test Ended:01:24:20 | ft (KB) | | Test Type: Tester: Unit No: | Conventional Bottom Hole (Initial) Benny Mulligan 66 |
| Interval: 2194.00 ft (KB) To 22 | 32.00 ft (KB) (TVD) | | Reference | Elevations: 2084.00 ft (KB) |
| Hole Diameter: 7.88 inchesHole | /D) e Condition: Fair | | k | 2076.00 ft (CF) B to GR/CF: 8.00 ft |
| Serial #: 6769OutsidePress@RunDepth:psigStart Date:2020.03.11Start Time:17:31:01TEST COMMENT:IF-15- BOB 9min: ISI-45- no blow b FF-120- BOB 260 FSI-120- no blow | 2195.00 ft (KB) End Date: End Time: s 30secs total build of 16" back mins total build of 34" back | 2020.03.12 01:24:20 | Capacity: Last Calib.: Time On Btm: Time Off Btm: | 8000.00 psig 2020.03.12 |
| Pressure vs. T | ime | | PRESS | URE SUMMARY |
| C709 Presure C009 Presure C0 | 673) Tempente 673 Tempente 773 Tempente 7 | Time (Min.) | Pressure Tem (psig) (deg | Annotation F) |
| Recovery | | | (| Gas Rates |
| Length (ft) Description | Volume (bbl) | | Cho | ke (inches) Pressure (psig) Gas Rate (Mcf/d) |
| 90.00 VV.M. 10%VV 90%M | | | | |

| | + | | | | | | | | | | |
|--|--------------|-------------|----------------|---------------|----------|-----------------------|-----------|----------------|----------------|----------|---------|
| Shelby Resources LLC 18-21s-17w 13449 W. Caffax Ave BLDG 1 STE 120 P-F- Unit Jakew oud CO 80401-3248 Jub Tecket: 65758 DST#:3 ATTN: Jareny Schwartz Test Start: 2020.03.11 @ 17.31.00 Mud Aud Cushion Information Mud Weight: 10.00 bigal Cushion Type: OI AP: deg AP! Wid Weight: 10.00 bigal Cushion Type: bbi Water Salinity: ppm Viscostry: 42.00 seclpt Cushion Type: bbi Bdatter Salinity: ppm Viscostry: 42.00 seclpt Cushion Pressure: psig psig Salinity: 81000.00 ppm Perecovery Table Ecovery Table Ecovery Table Length: 90.00 ft Total Volume: 0.637 Your Fotal Volume: 0.637 bbi Aum Fuid Samples: 0 Num Gas Borrbs: 0 Serial #: Laboratory Name: Laboratory Location: Recovery Comments: Recovery Comments: Batery Salinity: 90.00 ft Total Volume: 0.637 bbi Serial #: Laboratory Name: Laboratory Location: Serial #: Descr | 10D | | ITE | DRI | LL S | STEM TEST F | REPORT | - | | FLUID SI | JMMARY |
| View View View View View View View View | | | | Shelby | Resour | rces LLC | | 18-21s-17w | , | | |
| Lakew dool CD 8040143289 Job Tickket: 66758 DST#:3 ATTN: Jeremy Schwartz Test Start: 2020.03.11 @ 17.31.00 Mud And Cushion Information Mud Yreging Calchem Old APR Mud Wreight: 10.00 bloging Cushion Type: Old APR Mud Wreight: 10.00 bloging Cushion Type: Water Salinity: Pm Water Case: 8.79 inf Cushion Volume: Did Water Salinity: Pm Water Case: 8.79 inf Case Sushion Persure: Did Did Pm Did Water Case: 8.1000.00 ppm Essivity: ohnm.m Case Cushion Pressure: psig Water Case: 10.00 incheme 10.00 incheme Did Did <t< td=""><td></td><td>EST</td><td>NG , INC</td><td>13949</td><td>W. Colfa</td><td>ax Ave BLDG 1 STE 120</td><td>I</td><td>P-F- Unit</td><td></td><td></td><td></td></t<> | | EST | NG , INC | 13949 | W. Colfa | ax Ave BLDG 1 STE 120 | I | P-F- Unit | | | |
| ATTN: jeremy Schwartz Test Start: 2020.03.11 @ 17.31:00 Mud Waftype: Gel Chem Oushion Type: ft OI AP: deg AP Mud Weight: 10.00 lb/gal Cushion Upp: ft ft Water Salinky: pm Viscosity: 42.00 Sec/gt Cushion Volume: ft water Salinky: pm pm Viscosity: 42.00 Sec/gt Cushion Volume: ft water Salinky: pm pm Viscosity: 42.00 Sec/gt Cushion Volume: ft ps pm Viscosity: 63.00 Opp ft Cushion Volume: ft ps Viscosity: 1.00 inches ft Cushion Volume: ft ps Viscosity: 1.00 inches ft Salinty: ft ps ps Recovery Information 1.00 inches Salinty: ft ps ps ps ps Viscosity: 90.00 W.M. 10% W 90% M 0.637 ps | | | | Lakew | 000 CO | 80401+3248 | | Job Ticket: 6 | 5758 | DST#: 3 | |
| Mud and Cushion Information Mud Vrye: Gel Chem Cushion Type:: Oil AP: deg AP Mud Weight: 10.00 lb/gal Cushion Volume: bbl Viscosity: 42.00 sec/qt Cushion Volume: bbl Water Loss: 8.73 In ³ Gas Cushion Type: Besistivity: opm Resistivity: ohnm Gas Cushion Type: Besistivity: opm Resistivity: ohnm Gas Cushion Pressure: psig Salinity: 3100.00 pm Filter Cake: 1.00 inches Recovery Information Necovery Table Length Description Volume 00.00 WM 10%W 90%M 0.637 Total Length: 90.00 ft Total Volume: 0.837 bbl Num Fluid Samples: 0 Num Gas Borbs: 0 Serial #: Laboratory Name: Laboratory Location: Recovery Commentis: Recovery Commentis: Serial #: Serial #: | NOW. | | | ATTN: | Jerem | y Schwartz | | Test Start: 20 | 020.03.11 @ | 17:31:00 | |
| Mud Type: Gel Chem Oushion Type: OI AP: deg AP Mud Weight: 10.00 lb/gal Oushion Length: ft Water Salinity: pm Viscosity: 42.00 sec/qt Oushion Type: bbl Water Loss: 3.79 in ³ Gas Oushion Type: psi Resistivity: ohmm Gas Oushion Type: psi Salinity: ohmm Gas Oushion Pressure: psi Salinity: 31000.00 ppm Person Person Filter Cake: 1.00 inches Person Person Recovery Information Mud Weight: 0.00 ppm Filter Cake: 1.00 inches Person Person Preson Recovery Information 90.00 W.M. 10%W 90%M 0.637 90.00 W.M. 10%W 90%M 0.637 Yum Fluid Samples: 0 Num Gas Borbs: 0 Num Fluid Samples: 0 Num Gas Borbs: 0 Num Fluid Samples: 0 Num Gas Borbs: 0 Serial #: Laboratory Name: Laboratory Location: | Mud and C | ushion Info | ormation | | | | | | | | |
| Mud Weight 10.00 b/gal Cushion Length: ft Water Salinity: ppm Viscosity: 42.00 sec/qt Qushion Volume: bbl Water Loss: 8.79 in ¹ Gas Qushion Type: ResistVity: ohm.m Gas Qushion Pressure: psig Salinity: 1000.00 ppm Filter Cake: 100 Inches Recovery Information I Length Description Volume 90.00 W.M. 10%W 90%M 0.637 Total Length: 90.00 ft Total Volume: 0.637 bbl Num Fluid Samples: 0 Num Gas Borbs: 0 Serial #: Laboratory Name: Laboratory Location: Recovery Comments: | Mud Type: 0 | Gel Chem | | | | Cushion Type: | | | Oil API: | | deg API |
| Viscosity: 42.00 sec/qt Cushion Volume: bd Water Loss: 8.79 in ³ Gas Cushion Type: Resistivity: ohm.m Gas Cushion Pressure: psig Salinity: 81000.00 ppm Filter Cake: 1.00 inches Recovery Information Recovery Table Length Description Volume to 0.00 W.M. 10%W90%M 0.637 Total Length: 90.00 t Total Volume: 0.637 bdl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: Recovery Comments: | Mud Weight: | 10.00 lt | o/gal | | | Cushion Length: | | ft | Water Salinity | : | ppm |
| Water Loss: 8. 79 in ³ Gas Cushion Type: Resistivity: ohm Gas Cushion Pressure: psig Selinity: 81000.00 ppm Filter Cake: 1.00 inches Recovery Information Covery Information Length Description Volume 90.00 W.M. 10%W 90%M 0.637 Total Length: 90.00 ft Total Volume: 0.637 bbl Mum Fluid Samples: 0 Sum Gas Bontbs: 0 Serial #: Laboratory Name: Laboratory Location: Recovery Comments: | Viscosity: | 42.00 s | ec/qt | | | Cushion Volume: | | bbl | | | |
| Residivity: ohma Gas Cushion Pressure: psig Salinity: 81000.00 ppm Elter Cake: 1.00 inches Recovery Information Length Recovery Table Length Description Volume 90.00 MMI 10%W 90%M 90.00 Out Description Out Out Description Out Out | Water Loss: | 8.79 ir | 1 ³ | | | Gas Cushion Type: | | | | | |
| Salini :: 81000.0 pm Peter Cake : 1.00 inches Recovery Information <u>Length</u> <u>Description</u> <u>Volume</u> <u>bbl</u> <u>30.00</u> <u>W.M. 10%W90%M</u> <u>0.637</u> Total Length: 90.00 ft Total Volume: 0.637 bbl Mum Fluid Samples: 0 Serial #: Descript Name: Laboratory Location: Recovery Comments: | Resistivity: | C | hm.m | | | Gas Cushion Pressure | | psig | | | |
| Filter Cake: 1.00 inches Recovery Information Recovery Table | Salinity: | 81000.00 p | pm | | | | | | | | |
| Recovery Table Length Description Volume 90.00 W.M. 10%W 90%M 0.637 Total Length 90.00 ft Total Volume: 0.637 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: Recovery Comments: | Filter Cake: | 1.00 ir | nches | | | | | | | | |
| Recovery Table Length Description Volume 90.00 W.M. 10%W 90%M 0.637 Total Length: 90.00 ft Total Volume: 0.637 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: Recovery Comments: | Recovery I | nformation | I | | | | | | | | |
| Length Description Volume bbl 90.00 W.M. 10%W 90%M 0.637 Total Length: 90.00 ft Total Volume: 0.637 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: Recovery Comments: | | | | | | Recovery Table | | | | | |
| 90.00 W.M. 10%W 90%M 0.637 Total Length: 90.00 ft Total Volume: 0.637 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: Recovery Comments: | | | Leng ft | th | | Description | | Volume bbl | | | |
| Total Length: 90.00 ft Total Volume: 0.637 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: Recovery Comments: | | | | 90.00 | W.M. | 10%W 90%M | | 0.637 | | | |
| Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: Recovery Comments: | | Tot | al Length: | 90 | .00 ft | Total Volume: | 0.637 bbl | | | | |
| Laboratory Name: Laboratory Location: Recovery Comments: | | Nu | m Fluid Samp | oles: 0 | | Num Gas Bombs: | 0 | Serial #: | | | |
| | | Lat | poratory Nan | ne: monto: | | Laboratory Location | 1: | | | | |
| | | Red | Jovery Com | nems. | | | | | | | |
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Printed: 2020.03.12 @ 07:26:54

Ref. No: 65758





P-F- Unit

Printed: 2020.03.12 @ 07:26:54

Ref. No: 65758

Trilobite Testing, Inc



P-F- Unit

DST Test Number: 3

| | DRILL STEM TES | T REPO | ORT | |
|---|---|---|--|--|
| | Shelby Resources LLC | | 18-21s-1 | 7w |
| ESTING , INC | 13949 W. Colfax Ave BLDG 1 S | TE 120 | P-F- Un | it |
| | Lakew ood CO 80401+3248 | | Job Ticke | :: 65757 DST#:2 |
| New . | ATTN: Jeremy Schwartz | | Test Start | : 2020.03.11 @ 02:45:00 |
| GENERAL INFORMATION: | ļ | | | |
| Formation:WinfieldDeviated:NoWhipstock:Time Tool Opened:04:30:50Time Test Ended:09:42:09 | ft (KB) | | Test Type Tester: Unit No: | : Conventional Bottom Hole (Initial) Benny Mulligan 66 |
| Interval: 2076.00 ft (KB) To 2 | 151.00 ft (KB) (TVD) | | Reference | e Elevations: 2084.00 ft (KB) |
| Total Depth: 2151.00 ft (KB) (Hole Diameter: 7.88 inchesHo | VD) le Condition: Fair | | | 2076.00 ft (CF) KB to GR/CF: 8.00 ft |
| Serial #: 6772 Inside Press@RunDepth: 150.50 psig Start Date: 2020.03.11 Start Time: 02:45:01 TEST COMMENT: IF-15-BOB 1mir ISI-45- no blow FF-60- BOB 15 FSI-90- 2 1/2" to FSI-90- 2 1/2" to | 2077.00 ft (KB) End Date: End Time: total build of 80" back sec total build of 85" low back | 2020.03.11 09:42:10 | Capacity: Last Calib.: Time On Btm: Time Off Btm: | 8000.00 psig 2020.03.11 2020.03.11 @ 04:29:10 2020.03.11 @ 08:05:30 |
| Pressure vs. | Time | | PRESS | SURE SUMMARY |
| 572 Presure 1000 | B72 Proposed are 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Time (Min.) 0 2 16 61 62 121 215 217 | Pressure (psig) Ter (deg (deg 1128.37 87 47.62 87 62.06 87 476.51 87 150.50 87 479.67 87 1087.03 87 | npAnnotation(F).81Initial Hydro-static.52Open To Flow (1).58Shut-In(1).60Open To Flow (2).47Shut-In(2).42End Shut-In(2).59Final Hydro-static |
| Recovery | | | | Gas Rates |
| Length (ft) Description | Volume (bbl) | | CI | oke (inches) Pressure (psig) Gas Rate (Mcf/d) |
| 120.00 W M 30%W 70%M | 0.42 | | | |
| 120.00 M.W. 80%W 20%M | 0.85 | | | |
| | | | | |
| | | | | |
| | | | | |

| | DRILL STEM TES | T REP | ORT | | | | |
|---|---|-------------------------------------|-----------------------------------|--|--|--|--|
| | Shelby Resources LLC | | 18-21s-17 | w | | | |
| ESTING , INC | 13949 W. Colfax Ave BLDG 1 S | TE 120 | P-F- Unit | | | | |
| | Lakew ood CO 80401+3248 | | Job Ticket: | 65757 DST#:2 | | | |
| | ATTN: Jeremy Schwartz | | Test Start: | 2020.03.11 @ 02:45:00 | | | |
| GENERAL INFORMATION: | <u> </u> | | | | | | |
| Formation:WinfieldDeviated:NoWhipstock:Time Tool Opened:04:30:50Time Test Ended:09:42:09 | ft (KB) | | Test Type: Tester: Unit No: | Conventional Bottom Hole (Initial) Benny Mulligan 66 | | | |
| Interval: 2076.00 ft (KB) To 2 | 151.00 ft (KB) (TVD) | Reference Elevations: 2084.00 ft (K | | | | | |
| Hole Diameter: 7.88 inchesHol | e Condition: Fair | | K | 2076.00 ft (CF) B to GR/CF: 8.00 ft | | | |
| Serial #: 6769OutsidePress@RunDepth:psigStart Date:2020.03.11Start Time:02:45:01TEST COMMENT:IF-15-BOB 1min | @ 2077.00 ft (KB) End Date: End Time: total build of 80" | 2020.03.11 09:42:10 | 8000.00 psig 2020.03.11 | | | | |
| ISI-45- no blow FF-60- BOB 15s FSI-90- 2 1/2" bl | back ec total build of 85" ow back | | PRESSI | | | | |
| 6709 Pressue | 6709 Temperature | Time | Pressure Temp | Annotation | | | |
| 11 Wed Mar 2020 | | (Min.) | (psig) (deg F | | | | |
| Recovery | | | G | as Rates | | | |
| Length (ft) Description | Volume (bbl) | | Chok | e (inches) Pressure (psig) Gas Rate (Mcf/d) | | | |
| 60.00 Mud 100%M | 0.42 | | | | | | |
| 120.00 M.W. 80%W 20%M | 0.85 | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| 10 | | DR | LL STEM TEST REPOR | Т | | FLUID S | JMMAR |
|--------------------------|-----------------------|--------|------------------------------|---------------|-----------------|---------|---------|
| | | Shelby | Resources LLC | 18-21s-17 | N | | |
| | ESTING , INC. | 13949 | W. Colfax Ave BLDG 1 STE 120 | P-F- Unit | | | |
| | | Lakew | ood CO 80401+3248 | Job Ticket: 6 | 65757 | DST#:2 | |
| | | | leremy Schwartz | Test Start: (| 2020 03 11 @ 0' | 2:45:00 | |
| . 19 - 61, | | | | | 2020.00.11 @ 0/ | 2.40.00 | |
| Mud and Cu | ushion Information | | | | | | |
| Mud Type: G | Gel Chem | | Cushion Type: | | Oil API: | | deg API |
| Mud Weight: | 10.00 lb/gal | | Cushion Length: | ft | Water Salinity: | | ppm |
| Viscosity: | 52.00 sec/qt | | Cushion Volume: | bbl | | | |
| Water Loss: | 13.19 in ³ | | Gas Cushion Type: | | | | |
| Resistivity: | onm.m | | Gas Cushion Pressure: | psig | | | |
| Sannity. Filter Cake: | 1.00 inches | | | | | | |
| Recovery Ir | oformation | | | | | | |
| ite covery in | lionnation | | Recovery Table | | | | |
| | Leng | ıth | Description | Volume | 7 | | |
| | ft | | 2000 | bbl | | | |
| | | 60.00 | Mud 100%M | 0.42 | 5 | | |
| | | 120.00 | W.M. 30%W 70%M | 0.85 | <u>0</u> | | |
| | | 120.00 | M.W. 80%W 20%M | 0.85 | <u>0</u> | | |
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Printed: 2020.03.11 @ 11:20:50

Ref. No: 65757

Trilobite Testing, Inc



P-F- Unit

DST Test Number: 2

Printed: 2020.03.11 @ 11:20:50

Ref. No: 65757

Trilobite Testing, Inc



P-F- Unit

Serial #: 6769

Outside Shelby Resources LLC

DST Test Number: 2



| | Scale 1:240 Imp | perial | | |
|---|--|-------------------|-------------|--|
| Well Name: Surface Location: Bottom Location: | P-F Unit #1-18 2440' FSL _2085' FWL, Se | c. 18-T21s-R17w | | |
| API: | 15-165-21858-00-00 | | | |
| License Number: Spud Date: | 31725 3/7/2020 | Time [.] | 3:30 PM | |
| Region: | Pawnee | | 0.001 | |
| Drilling Completed: | 3/12/2020 | Time: | 9:00 AM | |
| Bottom Hole Coordinates: | | | | |
| Ground Elevation: | 2076.00ft | | | |
| K.B. Elevation: Logged Interval | 2084.00ft 1980.00ft | To | 2340 00ft | |
| Total Depth: | 2340.00ft | | | |
| Formation: Drilling Fluid Type: | Chase Group Chemical/Fresh Water Gel | I | | |
| Drining Flata Type. | Chemical/Fresh Water de | • | | |
| | OPERATOR | 2 | | |
| Company: | Shelby Resources, LLC | n 1 Sto 120 | | |
| Address. | Lakewood, CO 80401 | y 1, Ole 120 | | |
| Contact Geologist | .leff Zoller / Jeremy Schwa | urtz | | |
| Contact Phone Nbr: | 620-786-0807 / 203-671-60 | 034 | | |
| Well Name: | P-F Unit #1-18 | a 10 T01a D17w | | |
| API: | 15-165-21858-00-00 | U. 10-1215-R1/W | | |
| Pool: | | Field: | Fort Larned | |
| State: | Kansas | Country: | USA | |
| | | | | |

LOGGED BY



Mile High Exploration, LLC Company: Address: 14645 Sterling Road Colorado Springs, CO 80921

Phone Nbr: 203-671-6034 Logged By: Geologist Name: Jeremy Schwartz

NOTES

The Shelby Resources, LLC P-F Unit #1-18 was drilled to a total depth of 2340', bottoming below the base of the Florence formation. An iBall Instruments Bloodhound gas detector was employed in the drilling of said well.

3 DST's were conducted during the drilling of this well throughout the Chase Group. The DST reports can be found at the bottom of this log.

Due to negative DST results in the Chase, lack of sample shows, gas kicks, and subsequent log analysis it was determined by all parties involved to plug and abandon the well. The dry samples were saved and will be available for ty Mall Complet i - \\/: - h:+-

Turthur review at the Kansas Geological Society well Sample Library, located in withina, KS.

Respectfully Submitted, Jeremy Schwartz Geologist

| CONTRACTOR | | | | | | | | | | | | |
|---------------------|--------------------|-------|---------|--|--|--|--|--|--|--|--|--|
| Contractor: | Discovery Drilling | | | | | | | | | | | |
| Rig #: Big Type: | 2 mud rotary | | | | | | | | | | | |
| Spud Date: | 3/7/2020 | Time: | 3:30 PM | | | | | | | | | |
| TD Date: | 3/12/2020 | Time: | 9:00 AM | | | | | | | | | |
| Rig Release: | | Time: | | | | | | | | | | |

ELEVATIONS

K.B. Elevation: 2084.00ft K.B. to Ground: 8.00ft

Ground Elevation:

2076.00ft

| DATE | DEPTH | <u>ACTIVITY</u> | |
|---------------------------|-------|--|--|
| Tuesday, March 10, 2020 | 1940' | Geologsit Jeremy Schwartz on location @ ~0200hrs, 1940', drlg ahead, CFS @ 2060', | |
| | 2080' | resume drlg, CFS @ 2080', TOH to conduct DST #1 in the Herrington-Krider | |
| Wednesday, March 11, 2020 | 2151' | successful test, resume drlg, CFS @ 2151', drop survey, strap out of hole in order to | |
| | | conduct DST #2 in the Winfield, successful test, resume drlg, CFS @ 2232', gas kick in | |
| | 2232' | Ft. Riley warrants DST, TOH to conduct DST #3 in the Ft. Riley | |
| Thursday, March 12, 2020 | 2340' | successful test, resume drlg, TD of 2340' reached @ 0900hrs, CTCH 1hr, drop survey | |
| | | TOH to conduct logging operations, logging operations complete @ 1620hrs | |
| | | Geologist Jeremy Schwartz off location @ 1700hrs | |

| 2 | | | | | | | | | GAS - P&A | | | | | GAS - P&A | | | | | D&A | | | | |
|---------------|-------|--------|---------|---------|--------------------------|-------------------------|-----|-----|------------------|-----------------------|----------------------------|-------|----|-----------|--------------------------|-----------------|---------|-------|-----|-----|------|-----|--|
| | | | | | Internorth/Aspen Drig | | | | | | Northern Natural Gas Prod. | | | | Messman-Rinehart Oil Co. | | | | | | | | |
| | | | | | Froetschner 1 | | | | | | Prusa 1-18 | | | | | Froetschner A 1 | | | | | | | |
| | | P-F Un | it 1-18 | | NE-SW-NW Sec. 18-215-17W | | | | | C S/2 Sec. 18-215-17W | | | | | C-SW-NW Sec. 18-215-17W | | | | | | | | |
| | КВ | | 2084 | | КВ | KB 2102 | | | КВ 2080 | | | | КВ | | 20 | 2094 | | | | | | | |
| | LOG | TOP5 | SAMP | LE TOPS | COMP | COMP. CARD LOG SMPL. CO | | | | COMP | COMP. CARD LOG | | | SM | PL. | COMI | P. CARD | L | DG | SM | IPL. | | |
| FORMATION | DEPTH | DATUM | DEPTH | DATUM | DEPTH | DATUM | CO | RR. | CO | RR. | DEPTH | DATUM | CO | RR. | CO | RR. | DEPTH | DATUM | CO | RR. | CO | RR. | |
| ANHYDRITE TOP | 1086 | 998 | 1082 | 1002 | 1110 | 992 | + | 6 | + | 10 | 1079 | 1001 | - | 3 | + | 1 | 1105 | 989 | + | 9 | + | 13 | |
| BASE | 1110 | 974 | | | 1137 | 965 | + | 9 | | | 1104 | 976 | Ŀ, | 2 | | | 1130 | 964 | + | 10 | | | |
| PADDOCK LS | 1984 | 100 | 1981 | 103 | 1996 | 106 | -) | 6 | ŝ, | 3 | 1984 | 96 | + | 4 | + | 7 | 1994 | 100 | + | 0 | + | 3 | |
| HOLLENBERG LS | 2004 | 80 | 2001 | 83 | 2018 | 84 | - | 4 | Ŷ | 1 | 2006 | 74 | ÷ | 6 | + | 9 | 2016 | 78 | | 2 | + | 5 | |
| HERRINGTON | 2036 | 48 | 2034 | 50 | 2051 | 51 | - H | 3 | ų. | 1 | 2037 | 43 | + | 5 | + | 7 | 2048 | 46 | + | 2 | + | 4 | |
| KRIDER | 2058 | 26 | 2057 | 27 | 2073 | 29 | - | 3 | ÿ | 2 | 2058 | 22 | + | 4 | + | 5 | 2068 | 26 | + | 0 | + | 1 | |
| WINFIELD | 2086 | -2 | 2088 | -4 | 2104 | -2 | + | 0 | Ę. | 2 | 2088 | -8 | + | 6 | + | 4 | 2098 | -4 | + | 2 | + | 0 | |
| TOWANDA | 2153 | -69 | 2152 | -68 | 2174 | -72 | + | 3 | + | 4 | 1 | | | | | | 2167 | -73 | + | 4 | + | 5 | |
| FTRILEY | 2201 | -117 | 2200 | -116 | 2216 | -114 | - | 3 | y. | 2 | | | | | | | 2216 | -122 | + | 5 | + | 6 | |
| B/FLORENCE | 2282 | -198 | 2282 | -198 | 2306 | -204 | + | 6 | + | 6 | | | | | | | 2298 | -204 | + | 6 | + | 6 | |
| RTD | | | 2340 | -256 | 2335 | -233 | | | 8 . 8 | 23 | 2145 | -65 | | [] | in n ti | 191 | 3305 | -1211 | | | + | 955 | |
| LTD | 2341 | -257 | | - | 2333 | -231 | | 26 | | | 2141 | -61 | | 196 | _ | | 3304 | 1210 | + | 953 | | | |





| | | | | | Printed by GEOstrip VC Striplog | ver | rsion 4.0.8.15 (www.grsi.o | ca) |
|--|---------------|-----|------|-----|---------------------------------|-----------|----------------------------|-----|
| Curve Track #1 | | | | | | | TG, C1 - C5 | |
| ROP (min/ft) | | | | | | То | otal Gas (units) | - |
| Gamma (API) | /als | | | | | C1 | 1 (units) | |
| Cal (in) | ter | | | | | 02 | 2 (units) | _ |
| | | | gy | ≷ | | 02 | | |
| | ъ | | olo | Sho | | C3 | 3 (units) | _ |
| | Dep | DST | Lith | Ī | Geological Descriptions | C4 | 4 (units) | - |
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| | ored ST I | | | | | | | |
| 1:240 Imperial | ŏΰ | | | | | | 1:240 Imperial | |
| $\begin{array}{c c} & & & \\ \hline & & & \\ \hline \hline & & \\ \hline \hline & & \\ \hline \\ \hline$ | - | | | | Logged By Jeremy Schwartz | 0 | C1 (units) | |
| 6 Cal (in) 16 | - | | | | | 0 | C2 (units) | 00 |
| | - | | | | | 0 | C3 (units) | 00 |
| | - | | | | | | Mud-Co Mud chk | 00 |
| > | | | | | | | 1828' | |
| | - | | | | | | 3/9/20 | |
| | 1820 | | | | | | PV:10 YP:15 | |
| | - | | | 1 | | \square | WL: 22 | |
| | t I | | | | | | Cake:2/32 | |
| | 1830 | | | | | | Ca: 2,160ppm | _ |
| | t I | | | | | | CHL: 51,000ppm | |
| | - | | | | | \vdash | Sol:3.4 LCM:0 | _ |
| | 18/0 | | | | | | CMC: \$3,821.57 | |
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Paddock LS 1981 (+103)

LS, gray, micro-xln and dense with no visible porosity, also with abundant anhydrite and metal shavings from bit, very fine small crushed up sample, no show or odor

Hollenberg LS 2001 (+83)

LS, gray with some scattered brown, micro-xln and dense with no visible porosity, with anhydrite and metal shavings as above, also with some scattered green to gray and maroon to red shale, no show or odor

Herrington 2034 (+50)

Shelby P-F Unit dst 1.jpg

As above, with influx tan to cream and gray dolomite, micro-xIn and sucrosic with poor visible porosity, most fairly friable to friable, some dense, most appear barren, upon break few chips have SSG, few very scattered chips with good heavily saturated brown to black clingy, live free oil show, GSFO in tray, very fine sample with abundant small dolomite chips in bottom of tray along with metal shavings, no odor

Krider 2057 (+27)

С

 \rightarrow

2060' 30&60" Influx gray dolomite, micro-xln, some fairly friable to friable, some dense, occasional gas bubble upon break, NSFO in tray, no odor

~2060-2070' Dolomite as above, most chips appear barren with poor visible porosity, some scattered chips with scattered worm-like somewhat vuggy porosity, mostly poor overall visible porosity, few chips also with very scattered stain/clingy free oil, upon break some chips release rainbow to opaque sheen on water and slight gas show, NSFO in tray, no odor

2080' 60" Dolomite, light gray to gray with some very scattered tan, micro-xln, some friable to fairly friable, some dense, overall poor visible porosity, upon break some chips with slight show gas bubbles, NSFO in tray, no odor

Winfield 2088 (-4)

🔯 Shelby P-F Unit dst 2.jpg

Mostly gray LS to dolimitic LS, with some very scattered cream to white, microxln, most hard and dense with poor visible porosity, some scattered chips have few small vugs but overall poor porosity, some very scattered mostly poor pinpoint porosity in some chips as well, trace chert, NSFO in tray, no show or odor

As above, slight increase in chert, no show or odor

Dolimitic LS as above, mostly gray with some scattered cream, most chips fairly friable to very friable, some chips with fair pinpoint to slightly vuggy porosity, overall increase in visible porosity, increase in chert as well, NSFO in tray, no show or odor

Mostly same as above, with slight increase in cream chips with fair pinpoint to vuggy porosity, NSFO in tray, no show or odor

Gray to cream dolimitic LS as above, decrease in overall porosity, still some chips with fair pinpoint to slightly vuggy porosity, NSFO in tray, no show or odor

Poor sample with abundant red and gray clay and red shale, still carrying gray to cream dolimitic LS as above with overall poor visible porosity, with some very scattered chips with poor to fair pinpoint to slightly vuggy porosity, NSFO in tray, heavy red wash, no show or odor

2150' 30&60" Mostly same as above, poor samples with heavy red wash, scattered dolimitic LS and chert, no show or odor

Towanda 2152 (-68)

LS to dolimitic LS, gray to cream, micro-xln, some scattered poor to fair pinpoint porosity, overall poor visible porosity, some scattered soft and chalky in part, NSFO in tray, no show or odor

Mostly gray LS as described above, some scattered fair pp porosity, found one chip saturated with heavy, clingy live free oil, upon break chip had GSFO and SSG, no odor

LS, mostly gray with some very scattered cream, micro-xln, most dense with poor visible porosity, some scattered chips with scattered mostly poor pp porosity, no show or odor

~2190' poor very fine crushed sample, appears to be mostly same as above, very chalky, no show or odor





Shelby P-F Unit dst 1.jpg

| RILOBITE TESTING, INC | DRILL STEM TEST REPORT | | | | | | | | |
|--|---|--|----------------------------|--|---|-----------------------|--|--|--|
| | Shelby Resources LLC | | 18-21 | 18-21s-17w | | | | | |
| | 13949 W. Colfax Ave BLDG 1 S | TE 120 | P-F- | P-F- Unit | | | | | |
| | Lakew ood CO 80401+3248 | | Job Ti | cket: 6575 | :1 | | | | |
| NOX! | ATTN: Jeremy Schwartz | | Test S | Start: 2020 | 0.03.10 @ 13:43:00 | | | | |
| GENERAL INFORMATION: | L. | | | | | | | | |
| Formation:Herrington-KriterDeviated:NoWhipstock:ft (KB)Time Tool Opened:15:05:40Time Test Ended:19:23:09 | | | Test T Tester Unit N | Test Type: Con∨entional Bottom Hole (Initial) Tester: Benny Mulligan Unit No: 66 | | | | | |
| Interval: 2011.00 ft (KB) To 2080.00 ft (KB) (TVD) Total Depth: 2080.00 ft (KB) (TVD) | | | Refere | Reference Bevations: 2084.00 ft (KB) 2076.00 ft (CF) | | | | | |
| Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft | | | | | | 0 ft | | | |
| Serial #: 6772InsidePress@RunDepth:27.82 psigStart Date:2020.03.10Start Time:13:43:01 | 2012.00 ft (KB) End Date: End Time: | Capacity: 8000.00 2020.03.10 Last Calib.: 2020.03.10 19:23:10 Time On Btm: 2020.03.10 @ 15:02:20 Time Off Btm: 2020.03.10 @ 17:51:30 | | | | 0 psig 0 0 0 | | | |
| TEST COMMENT: IF-15- Built to 5" ISI-45- no blow back FF-45- BOB 37mins total build of 14" FSI-60- no blow back | | | | | | | | | |
| Pressure vs. Time | | | PRESSURE SUMMARY | | | | | | |
| | 7 Failtydo-add | (Min.) | (psig) (| (deg F) | 7 milliotation | | | | |
| 500 | | 0 | 1078.36 17.66 | 89.98 lr 89.77 C | nitial Hydro-static Open To Flow (1) | | | | |
| 300 | | 18 | 22.34 | 89.55 S | Shut-In(1) | | | | |
| | | | | nd Shut-In(1) Inen To Flow (2) | | | | | |
| | - 75 | 109 | 9 27.82 88.85 Shut-In(2) | | | | | | |
| | | 168 303.38 88.96 End Shut-Ir | | | End Shut-In(2) | (2) | | | |
| 300 | | 170 | 1039.22 | 89.51 F | -Inai Hydro-static | | | | |
| | | | | | | | | | |
| | artu | | | | | | | | |
| Recovery | | | Gas Rates | | | | | | |
| Length (ft) Description | Volume (bbl) | Choke (inches) Pressure (psig) Gas Rate (Mcf/d) | | | | | | | |
| 30.00 Mud 100%M | 0.21 | 8 | | | | | | | |
| 0.00 GIP 30' | 0.00 | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Shelby P-F Unit dst 2.jpg

| RILOBITE TESTING, INC | DRILL STEM TEST REPORT | | | | | | | |
|---|---|---|---|--|--|--|--|--|
| | Shelby Resources LLC | | 18- | 18-21s-17w | | | | |
| | 13949 W. Colfax Ave BLDG 1 STE 120 Lakew ood CO 80401+3248 | | P-F- Unit | | | | | |
| | | | Job | Job Ticket: 65757 DST#:2 | | | | |
| NOK | ATTN: Jeremy Schwartz | | Tes | Test Start: 2020.03.11 @ 02:45:00 | | | | |
| GENERAL INFORMATION: | 8 | | | | | | | |
| Formation:WinfieldDeviated:NoWhipstock:Time Tool Opened:04:30:50Time Test Ended:09:42:09 | ft (KB) | | Tes Tes Unit | Test Type: Conventional Bottom Hole (Initial) Tester: Benny Mulligan Unit No: 66 | | | | |
| Interval: 2076.00 ft (KB) To 2151.00 ft (KB) (TVD) | | | Ref | erence ⊟e | evations: 2084.00 ft (KB) | | | |
| Hole Diameter: 7.88 inches Hole Condition: Fair | | | | KB t | o GR/CF: 8.00 ft | | | |
| Serial #: 6772 Inside Press@RunDepth: 150.50 psig Start Date: 2020.03.11 Start Time: 02:45:01 | @ 2077.00 ft (KB) End Date: End Time: | 077.00 ft (KB) Capacity: ind Date: 2020.03.11 Last Calib. ind Time: 09:42:10 Time On Bi Time Off B | | | 8000.00 psig 2020.03.11 2020.03.11 @ 04:29:10 2020.03.11 @ 08:05:30 | | | |
| IEST COMMENT: IF-15-BOB 1min total build of 80" ISF45- no blow back FF-60- BOB 15sec total build of 85" FSF-90- 2 1/2" blow back | | | | | | | | |
| Pressure vs. Time | | | PRESSURE SUMMARY | | | | | |
| | | (Min.) | (psig) | (deg F) | Annotation | | | |
| | - 50 | 0 | 1128.37 47.62 | 87.81 87.52 | Initial Hydro-static Open To Flow (1) | | | |
| 700 | | 16 | 62.06 | 87.58 | Shut-In(1) | | | |
| | | 61 62 | 476.51 72.48 | 87.71 87.60 | Open To Flow (2) | | | |
| | | 121 | 150.50 | 87.47 | Shut-In(2) | | | |
| | | 215 217 | 479.67 1087.03 | 87.42 87.59 | End Shut-In(2) Final Hvdro-static | | | |
| | | | | | | | | |
| 344 0444 11 Wed Mar 2020 Time (Hours) | 544 | | | | | | | |
| Recovery | | 0 | Gas Rates | | | | | |
| Length (ft) Description | Volume (bbl) | | Choke (inches) Pressure (psig) Gas Rate (Mcf/d) | | | | | |
| 60.00 Mud 100%M | 0.42 | ~ | | | | | | |
| 120.00 VV.M. 30%VV 70%M | 0.85 | | | | | | | |
| | 0.00 | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Shelby P-F Unit dst 3.jpg

| | DRILL STEM TEST REPORT | | | | | | | |
|--|---|---|--|---|---------------------------|---------------|----------------|--|
| | Shelby Resources LLC | | 18-21s-17w | | | | | |
| ESTING , INC | 13949 W. Colfax Ave BLDG 1 STE 120 Lakew ood CO 80401+3248 | | P-F- Unit | | | | | |
| | | | Job Ticket: 65758 DST#: 3 | | | | | |
| | ATTN: Jeremy Schwartz | | | Test Start: 2020.03.11 @ 17:31:00 | | | | |
| GENERAL INFORMATION: | | | | | | | | |
| Formation:Ft. RileyDeviated:NoWhipstock:ft (KB)Time Tool Opened:18:53:20Time Test Ended:01:24:20 | | | Test Type: Con∨entional Bottom Hole (Initial) Tester: Benny Mulligan Unit No: 66 | | | | | |
| Interval: 2194.00 ft (KB) To 2232.00 ft (KB) (TVD) Total Depth: 2232.00 ft (KB) (TVD) | | | Refe | Reference Elevations:2084.00ft (KB)2076.00ft (CF) | | | | |
| Hole Diameter: 7.88 inches Hole | | | KB t | o GR/CF: | 8.00 | ft | | |
| Serial #: 6772 Inside Press@RunDepth: 55.64 psig Start Date: 2020.03.11 Start Time: 17:31:01 | 2195.00 ft (KB) End Date: End Time: | Capacity: 8000.00 psig Last Calib.: 2020.03.12 Time On Btm: 2020.03.11 @ 18:52:20 Time Off Btm: 2020.03.11 @ 23:57:00 | | | | | | |
| TEST COMMENT: IF-15- BOB 9mins 30secs total build of 16" ISI-45- no blow back FF-120- BOB 26mins total build of 34" FSI-120- no blow back | | | | | | | | |
| Pressure vs. Time | | | Time PRESSURE SUMMARY | | | | | |
| | - 50 | (Min.) | (psig) | (deg F) | In this I header | - statia | | |
| | | 1 | 26.01 | 90.95 | Open To Fl | ow (1) | | |
| | | 17 62 | 28.58 457.51 | 90.28 90.37 | Shut-In(1) | n(1) | | |
| 700 | | 62 | 29.39 | 90.24 | Open To Fl | ow (2) | | |
| 600 | | 181 302 | 55.64 579.17 | 89.44 89.48 | Shut-In(2) End Shut-Ir | n(2) | | |
| | | 305 | 1158.60 | 89.62 | Final Hydro | static | | |
| | | | | | | | | |
| | | | | | | | | |
| ana sina 11 Wed Mar 2020 Time (Hours) | | | | | | | 1 | |
| 11 Wed Mar 2020 Time (Hous) | | 2 | | Ga | s Patos | | | |
| 11 Wed Mar 2220 Time (Hours) Recovery Length (ft) Description | 12 Thu 65 | | | Gas Choke (ii | s Rates | re (psig) Gas | s Rate (Mcf/d) | |
| It Would a 223 It Would a 233 It Woul | Volume (bbl) | | | Gas Choke (ii | s Rates nches) Pressu | re (psig) Gas | s Rate (Mcf/d) | |
| It Weiller 200 It Weil | Volume (bbl) | | | Ga: Choke (i | s Rates nches) Pressu | re (psig) Ga | s Rate (Mcf/d) | |
| It Weiller 223 It Weiller 233 It Weil | Volume (bbl) | | | Ga: Choke (ii | s Rates nches) Pressu | re (psig) Gaa | s Rate (Mcf/d) | |
| It Weiller 223 State State Trace(Hous) Recovery Length (ft) Description 90.00 W.M. 10%W 90%M 90.00 | Volume (bbl) | | | Ga: Choke (i | s Rates nches) Pressu | re (psig) Gaa | Rate (Mcf/d) | |