| Submit 1 Copy To Appropriate District Office District J – (575) 393-6161 1625 N. French Dr., Hoops 1478-8245 District II – (575) 748-1283 | State of New Mex Energy, Minerals and Natur OIL CONSERVATION | al Resources | 30-023-42207 | | | | |
|--|--|--------------------|--|-------------|---------|--|--|
| 811 S. First St., Artesia, NM 88210 <u>District III</u> – (505) 334-6178 AN 1 7 2017 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> – (505) 476-3460 | 1220 South St. France Santa Fe. NM 87: | cis Dr. | 5. Indicate Type of Lease STATE FEE 6. State Oil & Gas Lease No. | | | | |
| 1220 S. St. Francis Dr., Santa F. M. E. V. E. 87505 | | | NM 0149956 | | | | |
| SUNDRY NOTICES A (DO NOT USE THIS FORM FOR PROPOSALS TO DIFFERENT RESERVOIR. USE "APPLICATION PROPOSALS.) | | | 7. Lease Name or U N/A | nit Agreeme | nt Name | | |
| 1. Type of Well: Oil Well Gas V | Well Other: Acid Gas Inje | ection | 8. Well Number D2 | | | | |
| Name of Operator DCP MIDSTREAM LP | | | 9. OGRID Number 025575 | | | | |
| 3. Address of Operator 370 17 TH STREET, SUITE 2500, DENV | ER, CO 80202 | | 10. Pool name or W DEVONIAN EX | | | | |
| 4. Well Location | | | | | | | |
| Unit Letter L : 1893 | feet from theSouth | | | West | line | | |
| Section 19 | Township 19S | Range 32 | E NMPM | County | LEA | | |
| | Elevation (Show whether DR, 3548 ft. Ground Level | RKB, RT, GR, etc.) | | | | | |
| | | | | | | | |

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

| PROVIDE S.R.T. RESULTS |
|------------------------|
| TO SANTA FE OCD FOR |
| APPROVAL |

proposed completion or recompletion.

| 1 | SUBSEQUENT REPORT OF: | |
|---|-----------------------------------|--|
| | REMEDIAL WORK ALTERING CASING | |
| | COMMENCE DRILLING OPNS. ☐ P AND A | |
| | CASING/CEMENT JOB | |
| | | |
| | | |
| 1 | OTHER. | |

THER:

OTHER:

OTHER:

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of

On December 29, 2016 a step rate test (SRT) was successfully completed at the DCP Zia AGI D #2 well. The BLM Carlsbad Hotline and Mr. Paul Swartz (BLM) were notified, and elected not to observe. The NMOCD Hobbs District Office was also notified and elected to not observe. The injection zone between 13,622 and 14,750 feet was tested. The BLM-provided SRT data forms (Attachment 1) have been provided for synchronized surface and formation pressure measurements recorded by Halliburton and Schlumberger. The bottom-hole pressure and surface pressures are overlain on a single graph included in Attachment 2.

The timing of the surface and bottom hole pressure sensors were synchronized, and all of the bottom hole data were recorded continuously at 5 minute intervals within each step. The injection rate for each step was increased instantaneously and held constant for 30 minutes at each step, as shown in the surface injection rates recorded by Halliburton and Geolex (Attachment 1). The synchronicity of the surface and downhole data were confirmed with the observation of the immediate rate and pressure drop at the surface and at the formation when a needle valve in the lubricator caused a 2.5 minute shutdown shortly after the initiation of step 8 (Attachment 4).

The surface pressure was 86 psig prior to pumping step 1 at 0.25 barrels per minute (bpm) using 8.35 lb/gal fresh water. Maximum surface pressures of 662 psig and 927 psig, respectively were observed in the 7th and 8th steps (4.0 and 5.0 bpm) bracketing the maximum permitted injection rate of 4.4 bpm. The temperature survey demonstrates the majority of fluids were in the upper portions (13,622 – 13,880 feet) of the injection zone. Three additional steps, of greater injection rate, were conducted following the maximum permitted injection rate of 4.3 bpm. These additional steps were used to help evaluate reservoir injection potential. The maximum surface pressures reached during the last two steps (steps 9 and 10) were 1,253 psig at 6.0 bpm and 1,613 psig at 7.0 bpm.

The SRT did not reach a break-over point, and the formation parting pressure was not reached during the test; even at the highest pumping rate above the maximum permitted injection rate. This is shown by the observed surface or formation pressures, and has a linear fit coefficient in excess of 0.98 (Attachment 3). The NMOCD-approved MAOP for treated acid

gas is 5,028 psig at the rate of 15 MMSCFD, which at bottom-hole P/T conditions is approximately 4.4 BPM of liquid treated acid gas (TAG). The anticipated pressure required to inject this volume is estimated to be between 1,400 and 1,800 psig. A preliminary warm-back analysis shows permeable zones between approximately 13,622 - 13,880 feet, 14,200 - 14,400 feet, and 14,530 - 14,630 feet (Attachment 5).

This SRT fulfills the requirement of the BLM Conditions of Approval for DCP Zia AGI D #2 dated September 7, 2016 and NMOCC Order R-14207, and demonstrates the Zia AGI D #2 well can be safely operated at pressures well below the approved MAOP. DCP is not requesting an MAOP increase at this time for this well. NMOCC required continuous surface and bottom-hole pressure monitoring will assure fracture pressure is never exceeded for this well.

| Spud Date: | November 2, 2016 | Rig Release Date: | |
|--------------------------------------|--|-------------------------|--|
| I hereby certi | ify that the information above is true and o | complete to the best of | f my knowledge and belief. |
| SIGNATURI Type or print For State Us | t name JARED R. SMITH | | TANT TO DCP MIDSTREM LP DATE 01/11/2017 JSMITH@GEOLEX.COM PHONE: 505-842-8000 |
| APPROVED | BY: | TITLE | DATE |
| Conditions of | f Approval (if any): | pted for Record | Only |
| | M | afey & Bro | 1/2017 |



STEP RATE TEST DATA for BLM

Operator: DCP Midstream (Halliburton Surface Press) Well: Zia AGI D#2 open hole injection interval

API#: 30-025-42207

Lease: NM0149956

Date collected: 12/29/2016 Sfc Loc: T-19-S, R-32-E, Sec 19 1893FSL 950FWL

Tbg OD

3.5" Tbg Wt. 9.2

Grade L-80

Packer set at: 10000

Inj Pipe I.D.: 2.992

X 0.20psig/ft = Expected Surface Fracture psig: 2724.4

Top Injection Depth: 13622 With Mud Wt Scale: 8.35

lbs/gal

Beginning Formation psig: 6474

at Depth: 14662

Injection fluid lbs/gal: 8.35

Hydrostatic Pressure of fluid at top depth of injection: 5909

Target Maximum Rate - bpd(barrels per day): 7200 Beginning Wellhead psig: 86 1. Take a charted record of shut in psig for no less than 48 hours. If the shut in psig is above the expected fracture pressure, the wellhead pressure will need to be bled off before beginning the Step Rate Test.

2. Preform a minimum of seven steps, recording rate to ±0.1bpm and surface pressures to ±10psig in five minute intervals. The first two step rate pressures must be below 0.2psig/ft x depth at top of injection.

4. The last two five minute surface pressure readings of each (minimum 30 minute) step are to be within 15psig of each other. If not, hold that step injection rate past the 30 minute step until two consecutive pressure readings are within 15psig. Record the average of those two readings as the Data Point for that Step #.

| Step 1 | | | bpm pmp'd for Step 1 | | | | | |
|-------------------|-------------|-----------|----------------------|---------|------------|-------------|----------------|---------|
| Target Test F | Rate (5% of | maximum l | pd/1440 = | 0.2500 | bpm (barre | ls per minu | te) for Step 1 | |
| Time: | 5 min | 10 min | 15 min | 20 min | 25 min | 30 min | Start Time: | 14:11 |
| Surface (psig): | 86.00 | 86.00 | 85.00 | 86.00 | 85.00 | 86.00 | End Time: | 14:41 |
| Formation (psig) | 6481.50 | 6482.60 | 6483.40 | 6483.90 | 6484.20 | 6484.60 | Graph | Data |
| gpm: | 10.50 | 10.50 | 10.50 | 10.50 | 10.50 | 10.50 | for | |
| Time: | 35 min | 40 min | 45 min | 50 min | 25 min | 60 min | Point | #1 |
| Surface (psig): | | | | | | | Sfc psig: | 85.67 |
| Formation (psig): | | | | | | | F psig: | 6483.37 |
| gpm: | 13/10 | | | | | | gpm: | 10.50 |

| Step 2 | | | | 0.50 bpm pmp'd for Step 2 | | | | |
|-------------------|-------------|-----------|------------|---------------------------|------------|---------|-------------|---------|
| Target Test Ra | ate (10% of | maximum l | opd/1440 = | 0.5000 | bpm for St | ep 2 | | |
| Time: | 5 min | 10 min | 15 min | 20 min | 25 min | 30 min | Start Time: | 14:41 |
| Surface (psig): | 97.00 | 99.00 | 100.00 | 101.00 | 100.00 | 100.00 | End Time: | 15:11 |
| Formation (psig): | 6492.70 | 6495.70 | 6497.40 | 6498.50 | 6499.30 | 6499.80 | Graph | Data |
| gpm: | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | for | |
| Time: | 35 min | 40 min | 45 min | 50 min | 25 min | 60 min | Point | #2 |
| Surface (psig): | | | | Park Transfer | | | Sfc psig: | 99.50 |
| Formation (psig): | | 4-11-12 | | | | | F psig: | 6497.23 |
| apm: | | | | | | | gpm: | 21.00 |

| | | | | | Step 2 | has a targe | t bpd rate of: | 720 |
|--------------------|-----------|------------|---------|---------|------------|-------------|----------------|---------|
| Step 3 | | | | 1.00 | 3 | | | |
| Target Test Rate (| 20% of ma | ximum bpd/ | 1440 = | 1.0000 | bpm for St | ep 3 | | |
| Time: | 5 min | 10 min | 15 min | 20 min | 25 min | 30 min | Start Time: | 15:11 |
| Surface (psig): | 134.00 | 138.00 | 142.00 | 141.00 | 142.00 | 152.00 | End Time: | 15:41 |
| Formation (psig): | 6517.10 | 6524.30 | 6528.10 | 6530.70 | 6532.50 | 6534.20 | Graph | Data |
| gpm: | 42.00 | 42.00 | 42.00 | 42.00 | 42.00 | 42.00 | for | |
| Time: | 35 min | 40 min | 45 min | 50 min | 25 min | 60 min | Point | #3 |
| Surface (psig): | | | | | | | Sfc psig: | 141.50 |
| Formation (psig) | | | | | | | F psig: | 6527.82 |
| gpm: | | | | | | | gpm: | 42.00 |

Step 3 has a target bpd rate of: 1440

STEP RATE TEST DATA for BLM

Operator: DCP Midstream (Halliburton Surface Press)

Well: Zia AGI D#2 open hole injection interval

Step 7 has a target bpd rate of::

API#: 30-025-42207

Lease: NM0149956

Date collected: 12/29/2016

Sfc Loc: T-19-S, R-32-E, Sec 19 1893FSL 950FWL

| Step 4 Target Test Ra | ate (30% of | maximum l | opd/1440 = | | bpm pmp'o | | | |
|--|--|---|--|---|---|---|---|--|
| Time: | 5 min | 10 min | 15 min | 20 min | 25 min | 30 min | Start Time: | 15:4 |
| Surface (psig): | 190.00 | 195.00 | 197.00 | 199.00 | 203.00 | 211.00 | End Time: | 16:1 |
| Formation (psig): | 6554.40 | 6561.90 | 6566.50 | 6569.70 | 6572.10 | 6574.50 | Graph | |
| Rate gal/min: | 63.00 | 63.00 | 63.00 | 63.00 | 63.00 | 63.00 | for | |
| Time: | 35 min | 40 min | 45 min | 50 min | 25 min | 60 min | Point | #4 |
| Surface (psig): | | | | | | | Sfc psig: | 199.1 |
| Formation (psig): | | | | | | | F psig: | 6566. |
| gpm: | | | 100 | | | \$1825.00 in a line | gpm: | 63.0 |
| 95 | | | | - 100 CO | Step 4 | has a targe | t bpd rate of: | 216 |
| Step 5 Target Test Ra | ate (40% of | maximum l | opd/1440 = | | bpm pmp'o | d for Step 5 | | |
| Time: | 5 min | 10 min | 15 min | 20 min | 25 min | 30 min | Start Time: | 16:1 |
| Surface (psig): | 267.00 | 270.00 | 272.00 | 275.00 | 275.00 | 279.00 | End Time: | All the second second |
| Formation (psig) | A STATE OF THE STA | 6603.50 | 6608.50 | 6612.10 | 6614.90 | 6617.00 | Graph | |
| gpm: | 84.00 | 84.00 | 84.00 | 84.00 | 84.00 | 84.00 | for | |
| Time: | 35 min | 40 min | 45 min | 50 min | 25 min | 60 min | Point | |
| Surface (psig): | 33 111111 | 40 111111 | 40 111111 | 30 111111 | 25 111111 | 00 111111 | Sfc psig: | |
| Formation (psig): | | | | | | | F psig: | 6608 |
| gpm: | | | | | | | gpm: | 84.0 |
| 95 | | | | | Step 5 | has a targe | t bpd rate of: | 288 |
| Step 6 | | | | 3.00 | | | | |
| Target Test Ra | ate (60% of | maximum l | opd/1440 = | | | for Step 6 | | |
| Target Test Ra | ate (60% of 5 min | | | | bpm for St | | Start Time: | 16:4 |
| | | maximum to 10 min 428.00 | opd/1440 = 15 min 449.00 | 3.0000 | bpm for St 25 min | ep 6 | Start Time: End Time: | A STATE OF THE STA |
| Time: | 5 min | 10 min | 15 min | 3.0000 20 min | 25 min 453.00 | 90 min 452.00 | End Time: | 17:1 |
| Time: Surface (psig): | 5 min 412.00 | 10 min 428.00 6678.10 | 15 min 449.00 6688.20 | 3.0000 20 min 442.00 6695.20 | 25 min 453.00 6700.50 | 30 min 452.00 6704.50 | | 17:1 Data |
| Time: Surface (psig): Formation (psig) | 5 min 412.00 6660.70 | 10 min 428.00 | 15 min 449.00 | 3.0000 20 min 442.00 6695.20 126.00 | bpm for St 25 min 453.00 6700.50 126.00 | 30 min 452.00 6704.50 126.00 | End Time: Graph | 17:1 Data |
| Time: Surface (psig): Formation (psig) Rate gal/min: | 5 min 412.00 6660.70 126.00 | 10 min 428.00 6678.10 126.00 | 15 min 449.00 6688.20 126.00 | 3.0000 20 min 442.00 6695.20 | 25 min 453.00 6700.50 | 30 min 452.00 6704.50 | End Time: Graph for Point | 17:1 Data : : #6 |
| Time: Surface (psig): Formation (psig) Rate gal/min: Time: | 5 min 412.00 6660.70 126.00 | 10 min 428.00 6678.10 126.00 | 15 min 449.00 6688.20 126.00 | 3.0000 20 min 442.00 6695.20 126.00 | bpm for St 25 min 453.00 6700.50 126.00 | 30 min 452.00 6704.50 126.00 | End Time: Graph for | 17:1 Data : : #6 439. |
| Time: Surface (psig): Formation (psig) Rate gal/min: Time: Surface (psig): | 5 min 412.00 6660.70 126.00 | 10 min 428.00 6678.10 126.00 | 15 min 449.00 6688.20 126.00 | 3.0000 20 min 442.00 6695.20 126.00 | bpm for St 25 min 453.00 6700.50 126.00 | 30 min 452.00 6704.50 126.00 | End Time: Graph for Point Sfc psig: | 17:1 Data : #6 439.: |
| Time: Surface (psig): Formation (psig) Rate gal/min: Time: Surface (psig): Formation (psig): gpm: | 5 min 412.00 6660.70 126.00 | 10 min 428.00 6678.10 126.00 | 15 min 449.00 6688.20 126.00 | 3.0000 20 min 442.00 6695.20 126.00 50 min | bpm for St 25 min 453.00 6700.50 126.00 25 min | 90 6 30 min 452.00 6704.50 126.00 60 min 452 a targe | End Time: Graph for Point Sfc psig: F psig: gpm: t bpd rate of: | 17:1 Data #6 439. 6687 126. |
| Time: Surface (psig): Formation (psig) Rate gal/min: Time: Surface (psig): Formation (psig): | 5 min 412.00 6660.70 126.00 35 min | 10 min 428.00 6678.10 126.00 40 min | 15 min 449.00 6688.20 126.00 45 min | 3.0000 20 min 442.00 6695.20 126.00 50 min | bpm for St 25 min 453.00 6700.50 126.00 25 min | 90 6 30 min 452.00 6704.50 126.00 60 min 452 d for Step 7 | End Time: Graph for Point Sfc psig: F psig: gpm: t bpd rate of: | 17:1 Data #6 439. 6687 126. |
| Time: Surface (psig): Formation (psig) Rate gal/min: Time: Surface (psig): Formation (psig): gpm: | 5 min 412.00 6660.70 126.00 35 min | 10 min 428.00 6678.10 126.00 40 min | 15 min 449.00 6688.20 126.00 45 min | 3.0000 20 min 442.00 6695.20 126.00 50 min | bpm for St 25 min 453.00 6700.50 126.00 25 min Step 6 bpm pmp's | 90 6 30 min 452.00 6704.50 126.00 60 min 452 d for Step 7 | End Time: Graph for Point Sfc psig: F psig: gpm: t bpd rate of: | 17:1 Data #6 439. 6687 126. |
| Time: Surface (psig): Formation (psig) Rate gal/min: Time: Surface (psig): Formation (psig): gpm: Step 7 Target Test Ra | 5 min 412.00 6660.70 126.00 35 min | 10 min 428.00 6678.10 126.00 40 min | 15 min 449.00 6688.20 126.00 45 min | 3.0000 20 min 442.00 6695.20 126.00 50 min 4.00 4.0000 | bpm for St 25 min 453.00 6700.50 126.00 25 min Step 6 bpm pmp's bpm for St | 90 6 30 min 452.00 6704.50 126.00 60 min has a targed for Step 7 | End Time: Graph for Point Sfc psig: F psig: gpm: t bpd rate of: | 17:1 Data #6 439. 6687 126. 432 |
| Time: Surface (psig): Formation (psig) Rate gal/min: Time: Surface (psig): Formation (psig): gpm: Step 7 Target Test Ra Time: | 5 min 412.00 6660.70 126.00 35 min ate (80% of 5 min | 10 min 428.00 6678.10 126.00 40 min maximum to maximum to min | 15 min 449.00 6688.20 126.00 45 min | 3.0000 20 min 442.00 6695.20 126.00 50 min 4.00 4.0000 20 min | bpm for St 25 min 453.00 6700.50 126.00 25 min Step 6 bpm pmp'd bpm for St 25 min | 9 6 30 min 452.00 6704.50 126.00 60 min has a targed for Step 7 9 30 min | End Time: Graph for Point Sfc psig: F psig: gpm: t bpd rate of: Start Time: | 17:1 Data : #6 439. 6687 126. 432 |
| Time: Surface (psig): Formation (psig) Rate gal/min: Time: Surface (psig): Formation (psig): gpm: Step 7 Target Test Ra Time: Surface (psig): | 5 min 412.00 6660.70 126.00 35 min ate (80% of 5 min 614.00 | 10 min 428.00 6678.10 126.00 40 min maximum to min 629.00 | 15 min 449.00 6688.20 126.00 45 min opd/1440 = 15 min 644.00 | 3.0000 20 min 442.00 6695.20 126.00 50 min 4.00 4.0000 20 min 655.00 | 5tep 6 bpm for Str. 25 min 453.00 6700.50 126.00 25 min 5tep 6 bpm pmp'r 5tep for Str. 25 min 658.00 | 9 6 30 min 452.00 6704.50 126.00 60 min 452 d for Step 7 30 min 662.00 | End Time: Graph for Point Sfc psig: F psig: gpm: t bpd rate of: Start Time: End Time: | 17:1 Data #6 439. 6687 126. 432 17:1 17:4 Data |
| Time: Surface (psig): Formation (psig) Rate gal/min: Time: Surface (psig): Formation (psig): gpm: Step 7 Target Test Ra Time: Surface (psig): Formation (psig): Formation (psig): | 5 min 412.00 6660.70 126.00 35 min ate (80% of 5 min 614.00 6747.60 | 10 min 428.00 6678.10 126.00 40 min maximum to min 629.00 6766.40 | 15 min 449.00 6688.20 126.00 45 min opd/1440 = 15 min 644.00 6778.10 | 3.0000 20 min 442.00 6695.20 126.00 50 min 4.00 4.0000 20 min 655.00 6786.30 | 5tep 6 5bpm for Str 25 min 453.00 6700.50 126.00 25 min Step 6 bpm pmp' bpm for Str 25 min 658.00 6792.70 168.00 | 9 6 30 min 452.00 6704.50 126.00 60 min 452.00 60 min 662.00 6798.10 | End Time: Graph for Point Sfc psig: F psig: gpm: t bpd rate of: Start Time: End Time: Graph | 17:1 Data : #6 439. 6687 126. 432 17:1 17:4 Data |
| Time: Surface (psig): Formation (psig) Rate gal/min: Time: Surface (psig): Formation (psig): gpm: Step 7 Target Test Ra Time: Surface (psig): Formation (psig): gpm: | 5 min 412.00 6660.70 126.00 35 min ate (80% of 5 min 614.00 6747.60 168.00 | 10 min 428.00 6678.10 126.00 40 min maximum l 10 min 629.00 6766.40 168.00 | 15 min 449.00 6688.20 126.00 45 min opd/1440 = 15 min 644.00 6778.10 168.00 | 3.0000 20 min 442.00 6695.20 126.00 50 min 4.000 4.0000 20 min 655.00 6786.30 168.00 | 5tep 6 bpm for St 25 min 453.00 6700.50 126.00 25 min Step 6 bpm pmp'd bpm for St 25 min 658.00 6792.70 | ep 6 30 min 452.00 6704.50 126.00 60 min has a targed for Step 7 ep 7 30 min 662.00 6798.10 168.00 | End Time: Graph for Point Sfc psig: F psig: gpm: t bpd rate of: Start Time: End Time: Graph for | 17:1 Data : #6 439. 6687 126. 432 17:1 Data |
| Time: Surface (psig): Formation (psig) Rate gal/min: Time: Surface (psig): Formation (psig): gpm: Step 7 Target Test Ra Time: Surface (psig): Formation (psig): gpm: Time: Time: | 5 min 412.00 6660.70 126.00 35 min ate (80% of 5 min 614.00 6747.60 168.00 | 10 min 428.00 6678.10 126.00 40 min maximum l 10 min 629.00 6766.40 168.00 | 15 min 449.00 6688.20 126.00 45 min opd/1440 = 15 min 644.00 6778.10 168.00 | 3.0000 20 min 442.00 6695.20 126.00 50 min 4.000 4.0000 20 min 655.00 6786.30 168.00 | 5tep 6 5bpm for Str 25 min 453.00 6700.50 126.00 25 min Step 6 bpm pmp' bpm for Str 25 min 658.00 6792.70 168.00 | ep 6 30 min 452.00 6704.50 126.00 60 min has a targed for Step 7 ep 7 30 min 662.00 6798.10 168.00 | End Time: Graph for Point Sfc psig: F psig: gpm: t bpd rate of: Start Time: End Time: Graph for Point | 1#6 439.: 6687 126.: 432 17:1 17:4 Data |

STEP RATE TEST DATA for BLM

Operator: DCP Midstream (Halliburton Surface Press)

Well: Zia AGI D#2 open hole injection interval

API#: 30-025-42207

Lease: NM0149956

Date collected: 12/29/2016

Sfc Loc: T-19-S, R-32-E, Sec 19 1893FSL 950FWL

| Step 8 | | | | 00 bpm pmp'd for Step 8 | | | | |
|-------------------|------------|-----------|------------|-------------------------|------------|-------------|---------------|---------|
| Target Test Rat | e (100% of | maximum l | opd/1440 = | 5.0000 | bpm for St | ep 8 | | |
| Time: | 5 min | 10 min | 15 min | 20 min | 25 min | 30 min | Start Time: | 17:41 |
| Surface (psig): | 795.00 | 860.00 | 891.00 | 912.00 | 923.00 | 927.00 | End Time: | 18:11 |
| Formation (psig): | 6746.40 | 6827.30 | 6858.30 | 6877.00 | 6890.10 | 6900.40 | Graph Data | |
| Rate gal/min: | | 210.00 | 210.00 | 210.00 | 210.00 | 210.00 | for | |
| Time: | 35 min | 40 min | 45 min | 50 min | 25 min | 60 min | Point | #8 |
| Surface (psig): | | | | | | 14 7 15 | Sfc psig: | 884.67 |
| Formation (psig): | | | | | | | F psig: | 6849.92 |
| gpm: | | | | | | | gpm: | 210.00 |
| | | | | | Stop 8 | has a targe | t had rate of | 7200 |

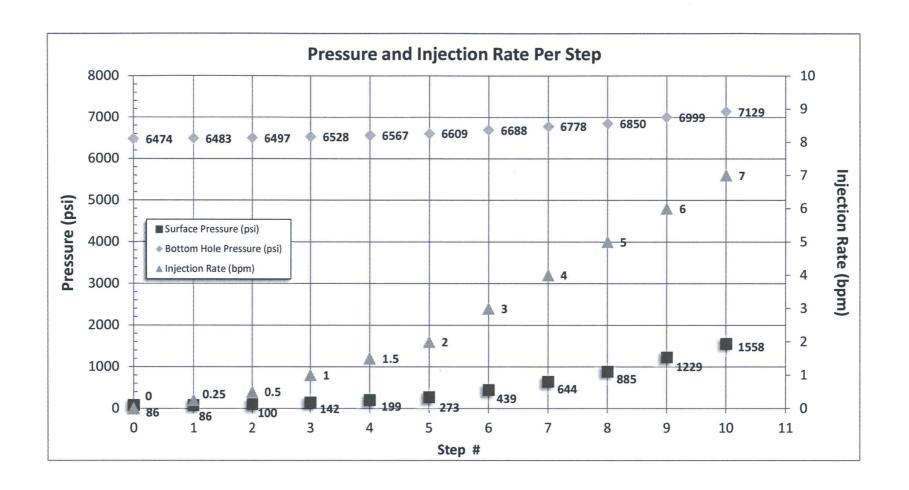
Step 8 has a target bpd rate of: 7200 Step 9 6.00 bpm pmp'd for Step 9 Target Test Rate (120% of maximum bpd/1440 = 6.0000 bpm for Step 9 Time: 5 min 10 min 15 min 2.00 25 min 30 min Start Time: 18:13 End Time: Surface (psig): 1196.00 1218.00 1229.00 1229.00 1251.00 1253.00 18:43 6951.90 6978.60 6996.80 7010.70 7022.00 **Graph Data** Formation (psig) 7031.50 252.00 252.00 252.00 252.00 gpm: 252.00 252.00 for Time: 35 min 40 min Point #9 45 min 50 min 25 min 60 min Surface (psig): Sfc psig: 1229.33 Formation (psig): 6998.58 F psig: gpm: gpm:

| Step 10 | Ta | rget gpm = | 294.00 | 7.00 bpm pmp'd for Step 10 | | | | | |
|-------------------|------------|------------|-----------|----------------------------|------------|---------|-------------|--------|--|
| Target Test Rate | e (140% of | maximum b | pd/1440 = | 7.0000 | bpm for St | ep 10 | | | |
| Time: | 5 min | 10 min | 15 min | 20 min | 25 min | 30 min | Start Time: | 18:43 | |
| Surface (psig): | 1526.00 | 1547.00 | 1544.00 | 1531.00 | 1587.00 | 1613.00 | End Time: | 19:13 | |
| Formation (psig) | 7079.90 | 7107.90 | 7127.20 | 7141.90 | 7154.00 | 7163.90 | Graph Data | | |
| Rate gal/min: | 294.00 | 294.00 | 294.00 | 294.00 | 294.00 | 294.00 | for | | |
| Time: | 35 min | 40 min | 45 min | 50 min | 25 min | 60 min | Point | #10 | |
| Surface (psig): | | | | 6226 | | | Sfc psig: | 1558.0 | |
| Formation (psig): | A. Volt | | | | | | F psig: | 7129.1 | |
| gpm: | | | | u Berger allegar | | | gpm: | 294.00 | |

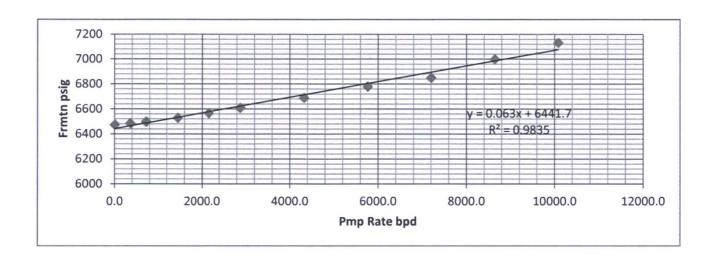
Step 10 has a target bpd rate of: 10080

Instant Shut In Pressure: 1608
5 minute Shut In Pressure: 449
7 minute Shut In Pressure: 394
19 minute Shut In Pressure: 229



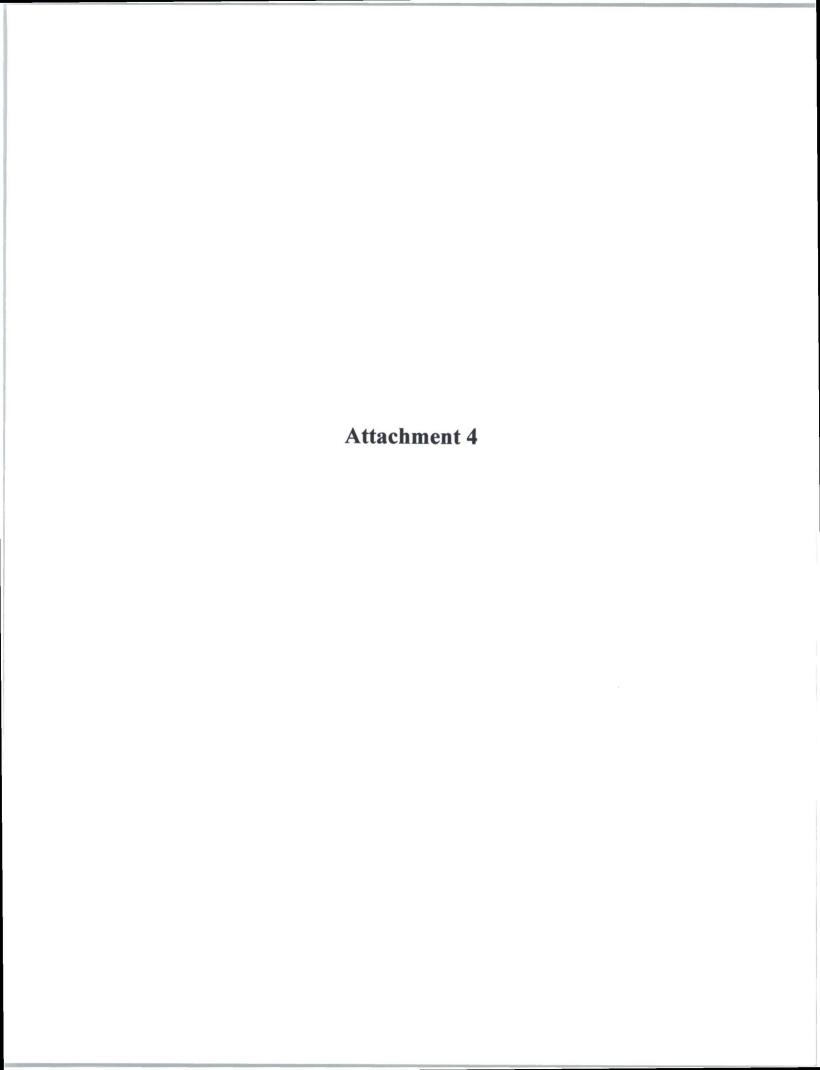


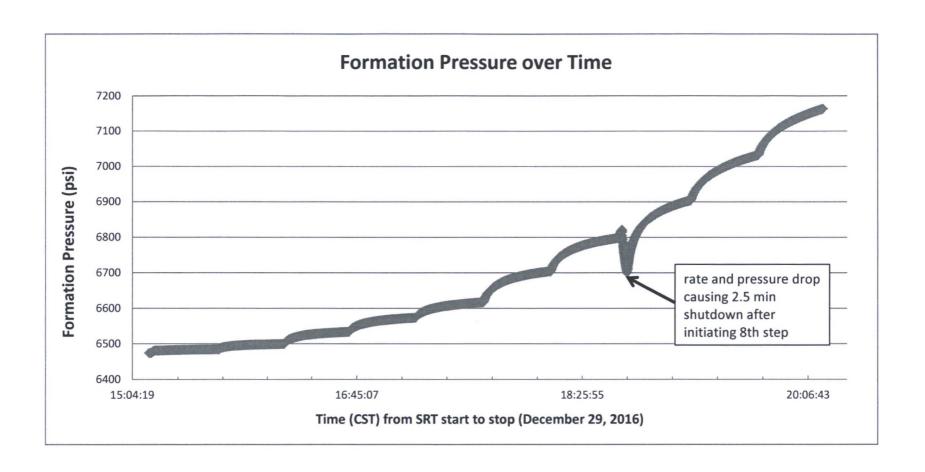


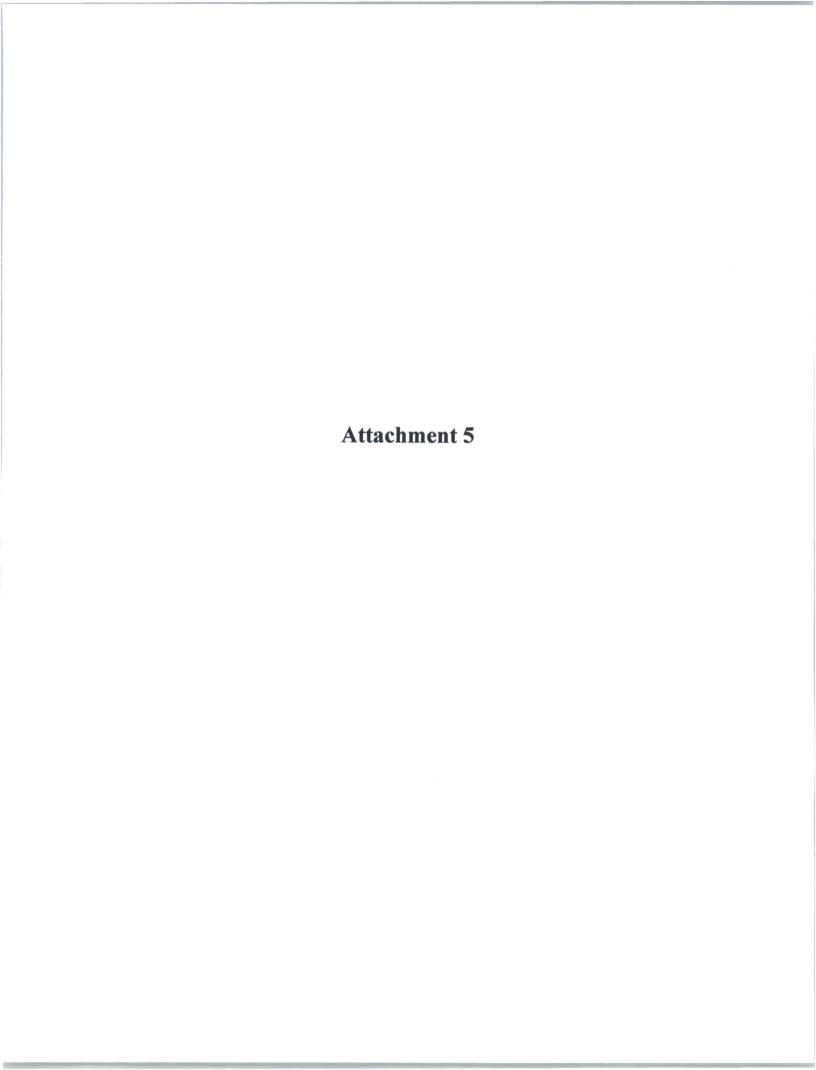


Attachment 4 Formation Pressure vs. Injection Rate Demonstrating Formation Parting Pressure Exceeds Maximum Observed Pressure of 7,164psig at the 7BPM Injection Rate

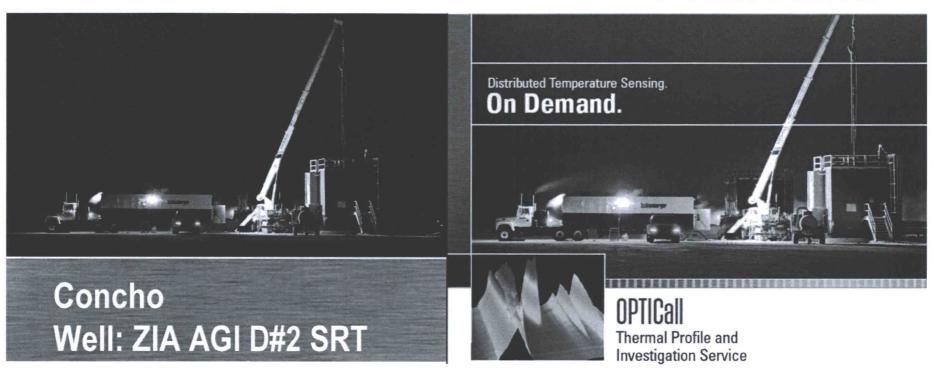
Note: No break in slope and regression coefficient of entire population exceeds 0.98







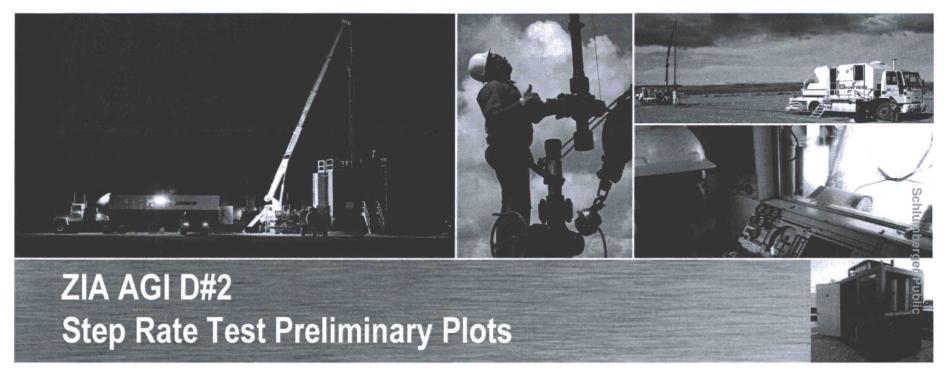
Slickline Services



Yosmar Gonzalez Reservoir Engineer

Schlumberger

Slickline Services

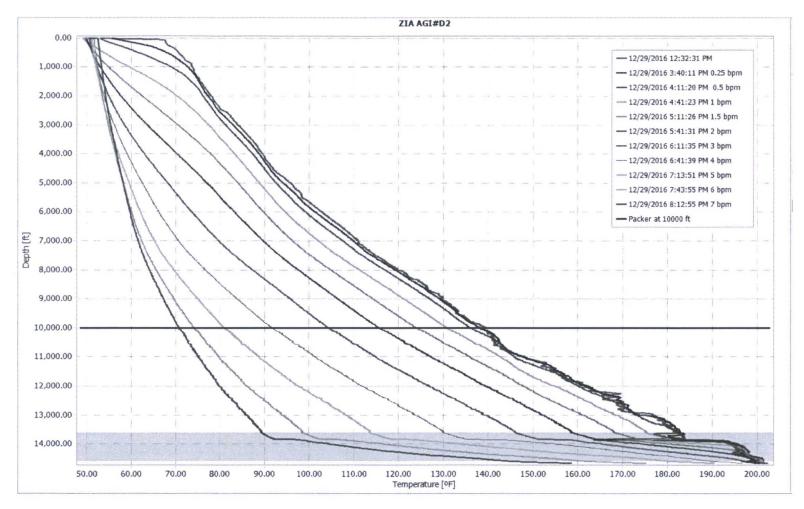


All interpretations are opinions based on inferences from fiber optic or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretation, and shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretations made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule

Schlumberger

SRT-DTS Profiles

DTS Cable at 14,665 ft.





Slickline Services



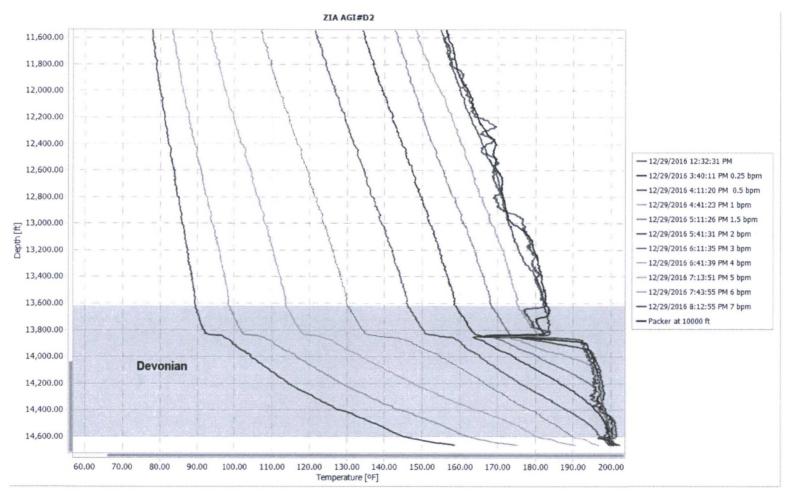
Schlumberger

Schlumberger Public

Schlumberger Public

SRT-DTS Profiles

DTS Cable at 14,665 ft.





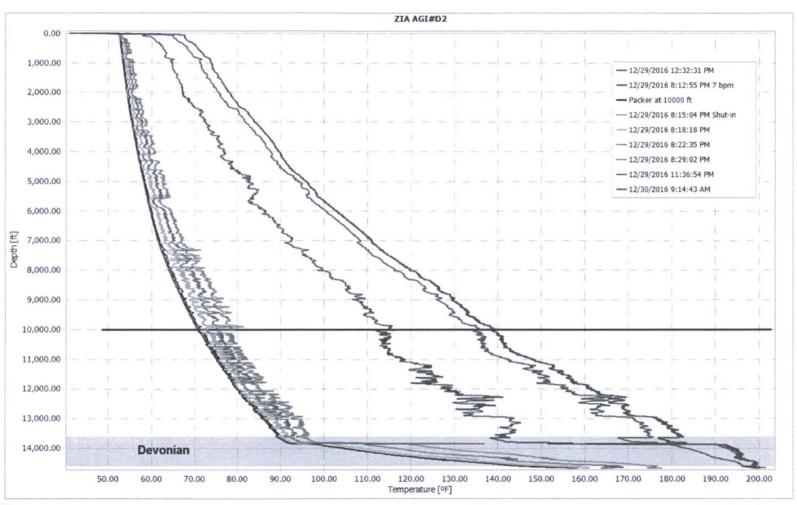
Slickline Services



Schlumberger Public

Post SRT- DTS profiles

DTS Cable at 14,665 ft.





Slickline Services



Schlumberger

Schlumberger Public

Post SRT- DTS profiles

DTS Cable at 14,665 ft.

