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Plant, July 2016

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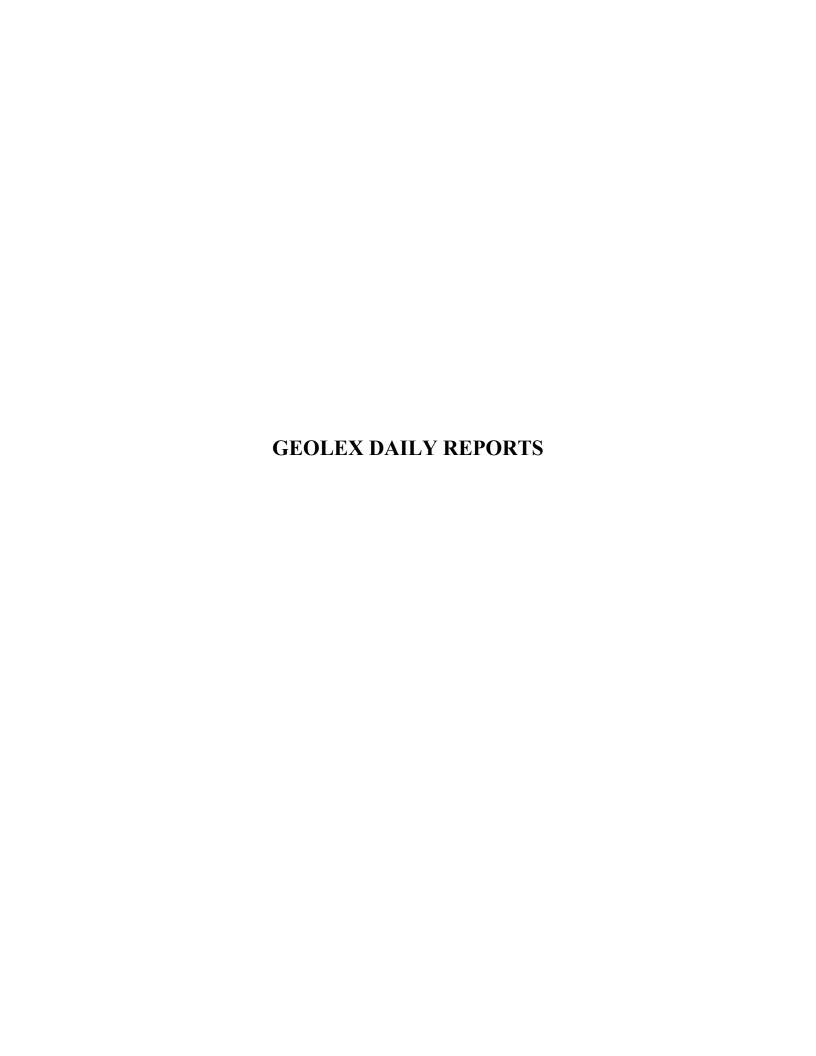
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APPENDIX A DAILY DRILLING AND COMPLETION RECORDS







DAILY REPORT OF OPERATIONS

Date: 10/31/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrilling, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

Geolex attended the pre-spud meet at the Zia Gas Plant on Monday, October 31, 2016 from approximately 08:00 to 10:00 and presented a briefing on the Geolex Team along with roles and responsibilities. The rig is anticipated to ready to spud around 12:00 on Tuesday, November 1, 2016 (Figures 1 and 2).

Geology Oversight

At the pre-spud meeting Geolex made note that the COA contradicts somewhat, requiring the surface casing seat at approximately 800 feet while also stating it must be below the Magenta Dolomite (approximately 780 to 820 feet in Zia AGI #1) and well above the salt beds below. Concho is prepared to TD (total depth) surface casing at 840 feet if required (Figure 3).

Regulatory Oversight

Prior to the pre-spud meeting Geolex made numerous notifications and sundry submittals to both NMOCD and BLM. On Monday, October 31, 2016 Geolex made several notifications to the Carlsbad BLM office and the Hobbs BLM hot line (including the required 24 hr. advance-notice required to spud Zia AGI #D2). There will be one sundry for each casing string unless there is a deviation from the Conditions of Approval (COA). The final well name is now Zia AGI #D2 and this name change from Zia AGI #2 must be included in the surface casing 3160-5 subsequent sundry.

Other Support Activities

The Geolex team has fully mobilized and is set up on site.





DAILY REPORT OF OPERATIONS

Date: 11/01/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrilling, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

Zia AGI #D2 was spud at approximately 03:00 on Wednesday November 2, 2016 (Figure 1) and reached a depth of 226 feet at approximately 06:00 (Figure 2). Total depth of the surface-hole is anticipated to occur at approximately 15:00 on Wednesday, November 2, 2016. It is anticipated the surface casing will be set at 825 feet. Upon completion of the surface casing hole, and subsequent fluid volume caliper, the 20-inch surface casing will be installed. BLM will be notified 4 hours in advanced prior to putting casing in hole.

Geology Oversight

Concho is prepared to TD (total depth) surface casing at 825 feet which is just below the lower Magenta Dolomite but well above salt beds based on the Zia AGI #1 mud and drilling logs (Figure 3). A review of all available data (Zia AGI #1 data, gamma ray, drill rate, etc.) will be utilized to ensure a competent bedrock at 825 feet depth.

Regulatory Oversight

A phone conference was held between the BLM, Geolex and Concho for approval to change the 9 5/8-inch production hole 10M BOP system. The change is from the 3 choke manifold 10M BOP system to a 2 choke manifold 5M BOP system. The rig is not currently configured to attach a 3 choke manifold system. This change saves on costs and finding/delivering a new 3 choke manifold system. Once the BLM's Well Information System is up-and-running, this sundry will be submitted. Four hour advance notification were made to BLM and updated with an addition notification of delay (Figure 4).

Other Support Activities

Geolex began work on the Zia AGI #D2 End of Well Report.





DAILY REPORT OF OPERATIONS

Date: 11/02/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrilling, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

The BLM was updated by phone on the drilling status of the surface casing hole at approximately 412 feet depth at 12:35 on November 2, 2016. During this conversation, the BLM verbally approved the surface casing to be set at 825 total depth (TD), as long as the casing seat is in a competent unit above or below the Magenta Dolomite base (i.e. it must be within a competent unit of the Magenta Dolomite). A thunderstorm caused a temporary halt to drilling from approximately 22:30 to 23:20 on November 2, 2016. Total depth (826.3 feet) on the 26-inch surface casing hole was reached on 04:23 on November 3, 2016 (Figure 1).

Geology Oversight

Geolex geologist conducted a phone conference to discuss the casing seating depth at 825 feet. Upon further review of the gamma ray log and drill rate (compared to the Zia AGI #1 well logs) it was noted that the Magenta Dolomite top occurs at 824.2 feet. In order to ensure a good seat in competent bedrock, Geolex had Concho drill one more foot to approximately 826.3 feet, where the surface casing will be set in competent lithology (Figure 2).

Regulatory Oversight

Submitted the Sundry (Form 3160-5) to change the 9 5/8-inch production hole 10M BOP system to the BLMs Well Information Systems (WIS) website on November 2, 2016. This Sundry is to change the three choke manifold 10M BOP system to a two choke manifold 5M BOP system. Teungku Muchlis (a.k.a. Seven) with the BLM emailed Geolex and Concho requesting another Sundry be submitted to include three rams to the 5M BOP system instead of two rams. This Sundry was submitted to the BLM's WIS website on November 2, 2016. All information included in the above Sundries was sent to the NMOCD as a courtesy (utilizing form C-103). Geolex remained in contact with the BLM Carlsbad Office project engineer and the BLM Hobbs Field Inspect with notifications and status updates to keep them apprised of delays (Figure 3).

Other Support Activities

Reviewed all gamma ray logs





Date: 11/03/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrilling, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

Geology Oversight activities were limited on Thursday, November 3, 2016. Geologic and geophysical analysis on previous days to determine the total depth of Zia AGI #D2 so Geolex focused on preparing for the installation of the surface casing followed by cementing (Figure 1). Regulatory Oversight consisted of notifications and updates to BLM related to installation and cementing of the Zia AGI #D2 surface casing (Figure 2).

Geology Oversight

The borehole is at its total depth (TD) of 826 feet. Therefore no drilling occurred during the 24-hour period ending 06:00 Friday, November 4, 2016. A fluid caliper log was run to determine the volume of cement needed to provide a good annular seal and adequate surface returns. Geolex prepared for running casing and cementing the surface casing and prepared for an onsite inspection. The installation of the surface casing began at approximately 21:20 on Thursday, November 3, 2016 and was completed at approximately 03:50. The float collar was set at approximately 779.15 feet. The BLM received the pipe tally and Halliburton cement lab results.

Regulatory Oversight

Geolex made notifications related to the completion of the DCP Zia AGI #D2 surface casing to both the Carlsbad BLM and the Hobbs BLM. The BLM received the pipe tally and Halliburton cement lab results. Geolex provided briefings on Geology Oversight and Regulatory Oversight at the regularly scheduled Thursday group meeting hosted by Tony Canfield (Figure 3).

Other Support Activities

Geolex continued developing the End of Well Report. Geolex also attended the Thursday telemeeting hosted by Tony Canfield to discuss progress and issues on the DCP Zia AGI #D2.





Date: 11/04/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrilling, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

Geology Oversight activities on Friday, November 4, 2016 were observing the surface casing installation and cementing of Zia AGI #D2 (Figures 1 and 2). In addition, Geolex observed the cement bond logging (CBL) of the well and completed an analysis of the results. Regulatory Oversight consisted of notifications and updates to BLM related to installation and cementing of the Zia AGI #D2 surface casing.

Geology Oversight

The borehole is at its total depth (TD) of 826 feet (Figure 3) and the surface casing was installed to the full depth and seated in the Magenta. The installation of the surface casing began at approximately 21:20 on Thursday, November 3, 2016 and was first returns were observed at approximately 08:00. Geolex also observed the cementing and cement bond logging (CBL) of Zia AGI #D2. The CBL was completed at 02:54 on Saturday, November 05, 2016.

Regulatory Oversight

Geolex made notifications related to the completion of the DCP Zia AGI #D2 surface casing to both the Carlsbad BLM and the Hobbs BLM (Figure 4). Geolex notified Teungku Chucklis of the Carlsbad BLM of the successful completion of the cementing of Zia AGI #D2 and notified them that the CBL will be completed in the morning and would call for formal review and approval. Teungku Chucklis stated that if there were good cement returns and no significant concerns with the CBL that BLM would not be available to review until Monday. He also stated that if those conditions were met we authorized to proceed with pressure testing and drilling the upper intermediate casing borehole. Geolex completed an analysis of the CBL and determined that the CBL indicated very good bonding of the casing to the formation and informed Concho they could proceed with the next phases of the project.

Other Support Activities

Geolex continued developing the End of Well Report.





Date: 11/05/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrilling, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

Geology Oversight activities on Friday, November 5, 2016 were observing the blow out preventer and blow out preventer equipment (BOP/BOPE) pressure tests for the 1st intermediate casing 17 ½-inch borehole, which was performed by Battle Energy Services, LLC (Figures 1). Regulatory Oversight consisted of notification to the BLM to witness the BOP/BOPE pressure test and authorization to proceed in the absence of a BLM inspector. Geolex met with Battle Energy Services throughout the entire BOP/BOPE testing process during the night. Geolex also met with Concho to discuss up-coming activities throughout the night.

Geology Oversight

No drilling occurred during the 24-hour period ending Sunday, November 6, 2016 at 06:00.

The borehole is at its total depth (TD) of 826 feet (Figure 2) and the surface casing was installed to the full depth and seated in the Magenta. The installation of the surface casing began at approximately 21:20 on Thursday, November 3, 2016 and first returns were observed at approximately 08:00 on Friday, November 4,2016. Geolex observed the successful BOP/BOPE tests beginning on November 5, 2016 at 23:05 and ending at approximately 07:00 on Sunday, November 6, 2016.

Regulatory Oversight

Geolex made the 4-hour notification to the Hobbs BLM Hotline to conduct BOP/BOPE test as well as the casing integrity test (CIT) and the Hotline inspector was not reachable. Therefore, Geolex contacted the Carlsbad BLM Hotline and contacted BLM's on-call engineer Charles Nimmer on November 5, 2016 at 14:20 to witness the BOP/BOPE pressure test and the CIT for the upcoming 17 ½-inch borehole (Figure 3). Charles gave approval to proceed with the BOP/BOPE and CIT testing without a BLM witness present.

Regulatory documents, BLM 3160-5 and NMOCD C-103 forms, for the surface casing installation, cementing, CBL, and BOP/BOPE test and casing pressure test (CIT) will be filed with the BLM and NMOCD, respectively, when the CIT is complete. Included on this Sundry, as required by the NMOCD, and requested by the BLM, will be the name change from Zia AGI





#2D to Zia AGI #D2. The BLM surface casing Sundry (3160-5 form) is currently being composed.

Other Support Activities

In addition, Geolex continued developing the End of Well Report.



Figure 1 – Battle Testing Unit and Zia AGI #D2





Date: 11/06/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrilling, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

Geology Oversight activities on Sunday, November 6, 2016 were observing the successful completion of the blow out preventer and blow out preventer equipment (BOP/BOPE) pressure tests for the upper intermediate casing 17 ½-inch borehole, which was performed by Battle Energy Services, LLC (Figure 1). In addition, the casing integrity test (CIT) was successfully completed. Drilling resumed on the upper intermediate casing borehole that is planned to TD at 2600 feet. Regulatory Oversight consisted of observing the BOP/BOPE pressure test and CIT, and collecting the test results for both and provide to BLM. Geolex met with Battle Energy Services throughout the entire BOP/BOPE testing and CIT process during the night. Geolex also met with Concho to discuss up-coming activities throughout the night.

Geology Oversight

Drilling resumed at 826 feet on Sunday, November 6, 2016 at 19:04. The borehole was advanced to a depth of 1014 feet (Figure 2) and within the Salado Formation (Salt Top). Geolex observed the successful BOP/BOPE tests beginning on November 5, 2016 at 23:05 and ending at approximately 07:00 on Sunday, November 6, 2016. The CIT was held at 1000 psi for 30 minutes and conducted from approximately 06:30 to 07:00 on Sunday, November 6, 2016. After the CIT was completed, drilling continued through the remaining Magenta/Rustler Formation interval and into the Salado Formation. Depth of the upper intermediate casing borehole at 06:00 Monday, November 7, 2016 is 1014 feet (Figure 2).

Regulatory Oversight

Geolex observed the completion of the BOP/BOPE testing and the CIT, and reviewed and prepared the results for submission to BLM and inclusion in the surface casing subsequent 3160-5 sundry. Geolex received a call from John Staton, Hobbs BLM Inspector, and provided current status of the testing. At the time of the call the BOP/BOPE testing was complete and the CIT was expected to be complete by late afternoon/early evening (Figure 3). Regulatory documents, BLM 3160-5 and NMOCD C-103 forms, for the surface casing installation, cementing, CBL,





BOP/BOPE test and CIT will continue to develop and will be filed with the BLM and NMOCD, respectively, the week of November 7, 2016. Included on this Sundry, as required by the NMOCD, and requested by the BLM, will be the name change from Zia AGI #2D to Zia AGI #D2.

Other Support Activities

Received and reviewed gamma ray logs from 167 to 858 feet.

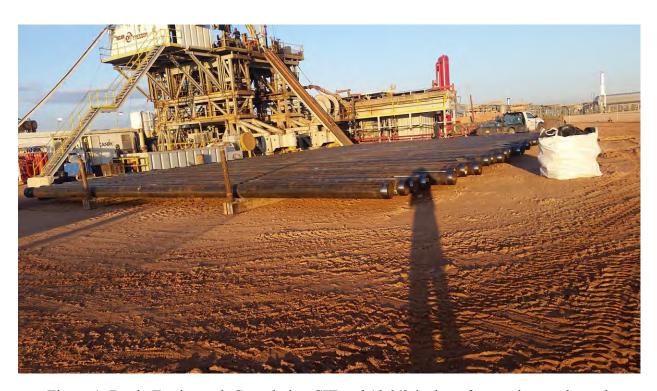


Figure 1: Battle Testing unit Completing CIT and 13 3/8-inch surface casing on the rack





Date: 11/07/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrilling, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

Geology Oversight activities on Monday, November 7, 2016 were observing drilling of the 17 ½-inch borehole to its current depth of 2441 feet (Figure 1). Regulatory Oversight consisted of notifications to BLM related to the blow out preventer/blow out preventer equipment (BOP/BOPE) testing and the casing integrity test (CIT). In addition, Geolex made notifications to the Hobbs BLM On-Call Inspector that the 17 ½-inch borehole was being drilled, and when they want to be noticed for setting and cementing of the 1st intermediate casing. Geolex also met with Concho to discuss up-coming activities throughout the night.

Geology Oversight

Drilling continued at a depth of 1,014 feet at 06:00 Monday, November 7, 2016. The borehole was advanced to a depth of 1,796 feet, within the salt, at 18:00 Monday, November 7, 2016. Depth of the 1st intermediate casing borehole at 06:00 Tuesday, November 8, 2016 is 2,441 feet (Figure 2). Formations and Formation Tops that were encountered are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Salt Top	882 feet	Halite, shale and dolomite
•	Salado Formation	1,836 feet	Halite, anhydrite and dolomite
•	Tansil	2,343 feet	Carbonates
•	Yates	2,493 feet (predicted)	Siliclastics

Figure 3 shows the most recent correlation between Zia AGI #1 and Zia AGI #D2.

Regulatory Oversight

Geolex observed the completion of the BOP/BOPE testing and the CIT on Sunday, November 6, 2016. One test, Hydraulic IBOP, had to be retested because the initial test was stable but below the required 250 psi, so that component was successfully retested at the required pressure the morning of Monday, November 7, 2016. Both Hobbs BLM and Carlsbad BLM were notified





and satisfied with the result. The new On-Call Inspector, Stephen Bailey, will pick up the retest chart when he is onsite to witness the cementing. The Carlsbad BLM Project Engineer, Teungko Muchlis Krueng just wants the test results included in the 3160-5 sundry for the surface casing. Stephen Bailey also requested first notification on casing setting and cementing when the first intermediate borehole is complete (Figure 4). Work continued on the surface casing sundry which is planned for submission this week.

Other Support Activities

No other support activities occurred on this day.



Figure 1 – Making Connections for the 17 ½-inch borehole





Date: 11/08/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrilling, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

Geology Oversight activities on Tuesday, November 8, 2016 were observing drilling of the 17 ½-inch borehole to its final total depth (TD) of 2555.5 feet. Regulatory Oversight consisted of notifications to the Hobbs BLM On-Call Inspector that the 17 ½-inch borehole was at TD. In addition, Geolex witnessed the mechanical caliper logging of the 17 ½-inch borehole on Wednesday, November 9, 2016 (Figure 1). The 13 3/8-inch casing is ready for installation, and is scheduled to be completed later in the day on Wednesday, November 9, 2016. Geolex also met with Concho to discuss up-coming activities throughout the night.

Geology Oversight

Drilling continued at a depth of 2,441 feet at 06:00 on Tuesday, November 8, 2016 (Figure 2). The borehole TD is within the Yates Formation at a depth of 2,555.5 feet, which was reached at approximately 16:30 on Tuesday, November 8, 2016. Formations and Formation Tops that were encountered are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Salt Top	882 feet	Halite, shale and dolomite
•	Salado Formation	1,836 feet	Halite, anhydrite and dolomite
•	Tansil	2,343 feet	Carbonates
•	Yates	2,482 feet	Siliclastics

Figure 3 shows the most recent correlation between Zia AGI #1 and Zia AGI #D2.

Regulatory Oversight

Geolex provided advance notice at 16:17, Tuesday, November 08, 2016 when the borehole reach TD, as requested by Stephen Bailey, the Hobbs BLM On-Call Inspector. The TD was changed from 2,600 feet (original plan) to 2,555.5 feet to allow for a better casing seat and verbal approval was obtained from Teungku Muchlis Krueng, Carlsbad BLM. Teungku Muchlis





requested that this change be included in the 3160-5 subsequent sundry for the Zia AGI #D2 1st intermediate casing (Figure 4). The next notification will occur when there are five casing joints left to be run in the 17 ½-inch borehole.

Geolex witnessed, and received, the mechanical caliper log conducted by Schlumberger (also referred to as the Borehole Profile Log). This log was completed on Wednesday, November 9, 2016 at approximately 03:27. The Borehole Profile Log indicates a good borehole-diameter, compared to the 17 ½-inch drill bit, with negligible washouts.

Other Support Activities

No other support activities occurred on this day.



Figure 1 – Schlumberger Running Mechanical Caliper Log





Date: 11/09/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrilling, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

Geology Oversight activities on Wednesday, November 9, 2016 were observing the 1st intermediate casing installation and cementing of Zia AGI #D2 (Figures 1 and 2). Regulatory Oversight consisted of notifications and updates to the BLM related to installation, cementing, and BOP testing for the Zia AGI #D2 1st intermediate casing.

Geology Oversight

No Drilling occurred during the 24-hour period ending Thursday, November 10, 2016 at 06:00.

The borehole is at its total depth (TD) of 2,555.5 feet (Figure 3) and the 1st intermediate casing was installed to the full depth and seated in the Yates Formation. The installation of the 1st intermediate casing began at 07:00 and ended at 12:52 on Wednesday, November 9, 2016. First cement returns were observed at approximately 18:05.

Formations and Formation Tops that were encountered are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Salt Top	882 feet	Halite, shale and dolomite
•	Salado Formation	1,836 feet	Halite, anhydrite and dolomite
•	Tansil	2,343 feet	Carbonates
•	Yates	2,482 feet	Siliclastics





Regulatory Oversight

Geolex made notifications related to the completion of the DCP Zia AGI #D2 1st intermediate (13 3/8-inch) casing to the BLM On-Call hotline (Stephen Bailey – Figure 4). Stephen Bailey witnessed cement returns on the 1st intermediate casing, and was satisfied with the results. The Halliburton Cement Report was submitted to him upon his request. There was 428 sacks (130 barrels) circulated to the surface. Furthermore, Stephen Bailey gave approval to proceed with the BOP/BOPE testing without a BLM representative. The BOP/BOPE testing will occur on Thursday, November 10, 2016, along with the cement bond log. Geolex will call Teungku Muchlis for a formal review and approval upon the completion of the cement bond log.

Other Support Activities

No other support activities occurred on this day.



Figure 1 – Installing 1st intermediatee casing





Date: 11/10/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrilling, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

Geology Oversight activities on Thursday, November 10, 2016 included the running of the cement bond log (CBL) (Figure 1), evaluating and reporting the quality of the cement bond, and pressure testing of the BOP/BOPE. The integrity of the 1st intermediate casing was evaluated on early Friday morning, following the testing of the surface equipment. Regulatory Oversight consisted of notifications and updates to the BLM related to the installation and cementing of the 1st intermediate casing, and the subsequent pressure testing. The surface casing completion report was submitted to the BLM (Figure 2).

Geology Oversight

No Drilling occurred during the 24-hour period ending Thursday, November 10, 2016 at 06:00 (Figure 3). Formations and Formation Tops that were encountered during this drilling segment are as follows:

	Formation	Depth (kb)	<u>Primary Lithology</u>
•	Salt Top	882 feet	Halite, shale and dolomite
•	Salado Formation	1,836 feet	Halite, anhydrite and dolomite
•	Tansil	2,343 feet	Carbonates
•	Yates	2,482 feet	Siliclastics

Regulatory Oversight

The surface casing sundry report was submitted to the BLM, and Teungku Muchlis (Carlsbad BLM engineer), including results for the: fluid caliper log, gamma ray and rate of penetration log, geology correlation logs, schematic of the Zia AGI #D2 as-built well design, surface casing tally, photographs of cement returns, Halliburton cement and lab reports, Schlumberger cement bond log, BOP/BOPE and casing integrity tests, and notifications made to the BLM. Additionally, this report included a name change from Zia AGI #2D to Zia AGI #D2 in





compliance with a request form the NMOCD. This report was submitted Thursday, November 10, 2016 (Figure 2). A courtesy C-103 form was sent to the NMOCD with all the above information.

Geolex made notifications related to the completion of Zia AGI #D2 1st intermediate (13 3/8-inch) casing to the BLM On-Call hotline (Stephen Bailey) as shown on Figure 4. The CBL was witnessed and completed on Thursday November 10, 2016. Geolex's review of the CBL confirmed a good seal of the 13 3/8-inch 1st intermediate casing. Teungku Muchlis, of the Carlsbad BLM, was notified of the cementing and CBL results. He gave verbal approval to proceed with drilling of the 2nd intermediate casing upon completion of the BOP/BOPE and casing integrity pressure tests.

Other Support Activities

No other support activities occurred on this day.



Figure 1 – Schlumberger Running the CBL and USIT Log





Date: 11/11/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrilling, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Friday, November 11, 2016, Geolex observed the completion of the BOP/BOPE and Cement Integrity pressure testing and provided geology oversight associated with the drilling of the 12 1/4-inch borehole. Drilling of the 12 1/4-inch borehole, 2nd intermediate, started on Friday, November 11, 2016 at 17:42 (Figure 1). Regulatory oversight consisted of notifications to the BLM related to the blow out preventer/blow out preventer equipment (BOP/BOPE) testing and the casing integrity test (CIT). In addition, Geolex made notifications to the Hobbs BLM On-Call Inspector (Stephen Bailey) concerning the pressure tests and drilling of the 12 1/4-inch borehole subsequent casing installation. Geolex also met with Concho personnel to discuss upcoming activities throughout the night.

Geology Oversight

On Friday evening at 17:42, drilling of the 12 ½-inch borehole was initiated from below the 13 3/8-inch casing at 2,555 feet (Figure 2). The borehole was advanced through the Yates and Seven Rivers Formations and into the Capitan Reef at a penetration rate of 100 to 150 feet per hour. A 40 to 50-bbl loss of drilling fluid was observed during a connection made at 2,700 feet, but it was minimized to approximately 100 bbls per hour with loss circulation material (LCM). By 06:00 on Saturday morning, the borehole had been extended to a depth of 3,666 feet. Formations and Formation Tops that were encountered during this drilling segment are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Salt Top	882 feet	Halite, shale and dolomite
•	Salado Formation	1,836 feet	Halite, anhydrite and dolomite
•	Tansil	2,343 feet	Carbonates
•	Yates	2,482 feet	Siliclastics
•	7 Rivers	2,652 feet (predicted)	Carbonates and evaporates
•	Capitan Reef	2,760 feet (predicted)	Carbonate reef





Regulatory Oversight

Both the BLM Hobbs and Carlsbad offices were informed of the successful BOP/BOPE and CIT pressure test results (Figure 3). The BLM On-Call Inspector, Stephen Bailey, indicated that he would pick up the pressure test charts when he is onsite to witness the 2nd Intermediate Casing cement job, and asked to be notified immediately following the completion of the first stage. The Carlsbad BLM Project Engineer, Teungko Muchlis Krueng, was notified of the pressure test results with a phone call, and a message was left. The call was not returned from him, so the test results will be included as an attachment to the 3160-5 sundry for the 1st intermediate casing, which should be ready for submission early next week.

Other Support Activities

Geolex continued work on the End of Well Report.



Figure 1 – Preparing to drill 12 ¹/₄-inch borehole. Zia AGI #1 is in the foreground.





Date: 11/12/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrilling, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Saturday, November 12, 2016, Geolex observed the completion of the 12 ½-inch, 2nd intermediate casing borehole to its total depth of 4,696 feet (Figure 1). Geology Oversight consisted of selecting the appropriate casing seat in the Goat Seep-Queen Formation. Regulatory Oversight consisted of a text update to the BLM inspector related to completion of the 2nd intermediate casing borehole and subsequent operations of specific interest to the BLM. Geolex also maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

On Saturday evening at 18:45, drilling of the 12 ½-inch borehole was completed at a total depth of 4,696 feet in the Goat Seep-Queen formation in preparation for the installation of 9 5/8-inch casing (Figure 2). The borehole was advanced through the Yates, Seven Rivers, and Capitan Reef to its current depth in the Goat Seep-Queen. Formations and formation tops that were encountered during this drilling segment are as follows:

	Formation	Depth (kb)	<u>Primary Lithology</u>
•	Yates	2,483 feet	Siliclastics
•	7 Rivers	2,663 feet	Carbonates and evaporates
•	Capitan Reef	2,760 feet	Carbonate reef
•	Goat Seep-Queen	4,439 feet	Carbonates (dolomite and limestone)

Regulatory Oversight

The BLM on-call inspector (Stephen Bailey) was notified by text on Saturday, November 12, 2016 at 19:00 following the completion of the 2nd intermediate casing borehole. The text also verified his request to be notified upon the completion of the 9 5/8-inch casing first stage cement job so that he could witness circulation of the final stage cement. Mr. Bailey responded his





acknowledgment to the text message. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observation to date.

The Form 3160-5 Subsequent Report Sundry concerning activities associated with the installation of 1st intermediate casing was completed and will be submitted to the BLM upon review by the Geolex staff.

Other Support Activities

Geolex continued work on the End of Well Report.

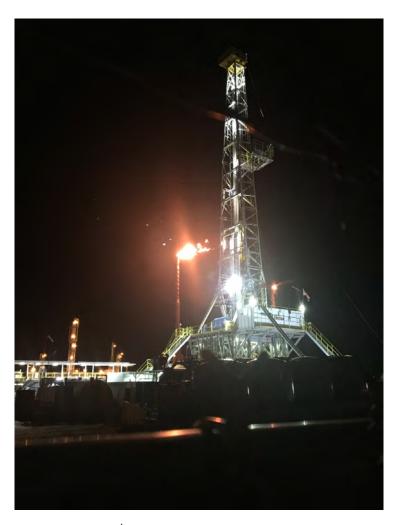


Figure 1 – Drilling the 12 ¹/₄-inch 2nd intermediate casing borehole. Plant flare is in the background.





Date: 11/13/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Sunday, November 13, 2016, Geolex observed the installation and cementing of the 9 5/8-inch, 2nd intermediate casing (Figures 1 and 2). Specific Geology Oversight was not required during these operations as the casing point was determined prior to reaching the total depth (4,696 feet). Regulatory Oversight consisted of several updates to the BLM inspector and formal notification associated with the circulation of the 2nd stage cement. In addition, the Subsequent Report Sundry (Form 3160-5) concerning the 1st intermediated casing, installed last week, was submitted to the BLM WIS web site. Geolex also maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

Formations and formation tops that were encountered during the drilling of the 2^{nd} intermediate casing borehole are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Yates	2,483 feet	Siliclastics
•	7 Rivers	2,663 feet	Carbonates and evaporates
•	Capitan Reef	2,760 feet	Carbonate reef
•	Goat Seep-Queen	4,439 feet	Carbonates (dolomite and limestone)

Regulatory Oversight

The BLM on-call inspector (Stephen Bailey) was updated several times by text and phone calls on Sunday, November 13, 2016. Formal notification was given at 18:44 following the completion of the first stage of the 2nd intermediate casing cement job. Mr. Bailey arrived on site at 21:00 to witness the circulation of second stage cement to the surface. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.





The Form 3160-5 Subsequent Report Sundry concerning activities associated with the installation of the 1st intermediate casing was submitted to the BLM website, followed by an email to Teungku Muchlis Krueng of the BLM Carlsbad office.

Other Support Activities

Geolex continued work on the End of Well Report.



Figure 1A – Circulation of First Stage Cement of the 2nd intermediate casing (144 sacks to surface). Photograph taken immediately after cement was first observed at the surface.





Date: 11/14/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Monday, November 14, 2016, Geolex observed the testing of the BOP/BOPE attached to but isolated from the 9 5/8-inch, 2nd intermediate casing. Rig personnel worked on the installation of a flow line valve and prepared to drill out the DV tool, clean the hole to TD, and run the CBL (Figures 1). At 20:30 on Monday night, rig personnel began tripping into the hole to drill out the DV tool. Specific Geology Oversight was not required during these operations as the casing point was determined prior to reaching the total depth (4,696 feet) and no additional drilling has been performed (Figure 2). Mud loggers (Selman and Associates, Inc.) moved trailer onto location in preparation to begin drilling the 8 ¾-inch borehole. Regulatory Oversight consisted of a telephone call to the BLM to prepare them for an early morning review CBL if necessary. Geolex also maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

Formations and formation tops that were encountered during the drilling of the 2nd intermediate casing borehole are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Yates	2,483 feet	Siliclastics
•	7 Rivers	2,663 feet	Carbonates and evaporates
•	Capitan Reef	2,760 feet	Carbonate reef
•	Goat Seep-Queen	4,439 feet	Carbonates (dolomite and limestone)

Regulatory Oversight

The BLM on-call inspector (Stephen Bailey) was contacted by text 04:00 and later by phone concerning the upcoming pressure tests of the BOP/BOPE. Mr. Bailey indicated that he would not be present for the tests. Additionally, a phone call was made at 15:42 to Teungku Muchlis





Krueng (BLM Carlsbad Coordinator for this project) in order to inform him of the upcoming CBL and determine his preference for an after-hours review of the completed log. He indicated that since cement was circulated to the surface during the 2nd intermediate casing cement job and witnessed by the BLM inspector, he would allow Geolex to verify the quality of the cement bond and determine if continued drilling was appropriate. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

Geolex continued work on the End of Well Report.



Figure 1 – Rig personnel working to prepare flow line valve. Near moon in backbround.





Date: 11/15/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Tuesday, November 15, 2016, Geolex observed Schlumberger's running of the cement bond log (CBL) within the 9 5/8-inch 2nd intermediate casing, under no casing pressure (Figure 1). The CBL was reviewed and evaluated by representatives of Geolex, Concho, and Schlumberger. While there was some evidence of a micro-annulus in the section above the 13 3/8-inch casing shoe and near the 9 5/8-inch DV tool, all parties concurred that the CBL indicated good cement bond such that re-running the log under casing pressure was unnecessary, and drilling should continue in accordance with the guidance provided by the BLM coordinator (see Regulatory Oversight section of the Geolex Dailey Report from 11/14/16).

Upon completion of the CBL, a successful casing integrity test (CIT) of the 9 5/8-inch casing was performed at 1,500 psi for 30 minutes. The bottom hole assembly was prepared for the 8 ³/4-inch borehole and lowered into the well to condition the mud, drill into the formation below the 9 5/8-inch casing and perform a mud equivalency (formation integrity) test (FIT). The formation was successfully tested at 513 psi for 10 minutes, then 631 psi for 10 minutes. At 1:19 on Wednesday, November 16, 2016 drilling of the 8 ³/₄-inch borehole was initiated (Figure 2). Geologic Oversight was also continued at that time utilizing Selman (mud logger) for the remainder of the borehole, the most recent mud log and reports are attached at the end of this update.

No specific Regulatory Oversight was required or performed during these operations. Geolex also maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

Formations and formation tops that were encountered during the drilling of the 2^{nd} intermediate casing borehole are as follows:





	Formation	Depth (kb)	Primary Lithology
•	Yates	2,483 feet	Siliclastics
•	7 Rivers	2,663 feet	Carbonates and evaporates
•	Capitan Reef	2,760 feet	Carbonate reef
•	Goat Seep-Queen	4,439 feet	Carbonates (dolomite and limestone)

Regulatory Oversight

Specific Regulatory Oversight was not performed during the operations described above as guidance for the evaluation of cement bond was provided via a phone call to Teungku Muchlis Krueng (BLM Carlsbad Coordinator for this project) on Monday November 14, 2016. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

Geolex continued work on the End of Well Report.



Figure 1 – CBL Operations at Dawn on November 15, 2016





Date: 11/16/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Wednesday, November 16, 2016, Geolex Geologic Oversight continued with Selman (mud logger) to a borehole depth of 6788 feet. The most recent mud log and reports are attached at the end of this update. Of particular interest was logging of the Zia AGI #1 injection interval from 5,585 feet (top) to 6,153 feet (bottom). According to the tracer survey from Zia AGI #1 the greatest volume of injection was expected from 5,875 to 5,940 feet (TVD). Both CO₂ and H₂S were continuously monitored to determine if the injection plume from Zia AGI #1 was encountered. Based on the gas and pressure monitoring, the Zia AGI #1 injection plume was not encountered during the drilling of Zia AGI D #2.

No specific Regulatory Oversight was required or performed during these operations. However, the BLM 3160-5 sundry for the lower intermediate casing and borehole is nearly complete and will be submitted this week. Also, courtesy C-103 sundries are being prepared for NMOCD. Geolex also maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

Formations and formation tops (Figures 1 and 2) that were encountered during the drilling of the production casing borehole are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Bell Canyon	4,779 feet	Sandstone w/thin bedded limestone
•	Cherry Canyon	4,963 feet	Fine grained sandstones and siltstones
•	Brushy Canyon	5,632 feet	Medium grained sandstones
•	Bone Springs	7,046 feet (est.)	Limestone





Regulatory Oversight

Specific Regulatory Oversight notifications were not performed during the operations described above. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

Geolex continued work on the End of Well Report.

<u>Reported by:</u> Alberto A. Gutierrez, RG, Michael W. Selke, RG, Jared Smith, and Dale Littlejohn, Geolex, Inc.

Figure 1 – Correllation with Zia AGI #1 Mud Log (subsequent page)





Date: 11/17/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Thursday, November 17, 2016, Geolex Geologic Oversight continued with Selman (mud logger) to a borehole depth of 7,512 feet. The most recent mud log and reports are attached at the end of this update. Both CO_2 and H_2S were continuously monitored to determine if the injection plume from Zia AGI #1 was encountered. Based on the gas and pressure monitoring, the Zia AGI #1 injection plume was not encountered during the drilling of Zia AGI D #2 and there continues to be no CO_2 or H_2S .

No specific Regulatory Oversight notifications were required or performed during these operations. However, the BLM 3160-5 sundry for the lower intermediate casing and borehole is nearly complete and will be submitted this week. Also, courtesy C-103 sundries are being prepared for NMOCD. Geolex also maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

The correlation was switched to a Morrow well just southeast of the Zia AGI D #2 (the COG Lusk Deep Unit A #21) until drilling proceeds through the Morrow. After that the correlation will switch to the Lusk Deep Unit #2 to reach the Siluro-Devonian. The top of Bone Spring was encountered at 7,060 feet, so the correlation remains flat. Formations and formation tops (Figures 1 and 2) that were encountered during the drilling of the production casing borehole are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Bell Canyon	4,779 feet	Sandstone w/thin bedded limestone
•	Cherry Canyon	4,963 feet	Fine grained sandstones and siltstones
•	Brushy Canyon	5,632 feet	Medium grained sandstones
•	Bone Springs	7,060 feet	Limestone





Regulatory Oversight

Specific Regulatory Oversight notifications were not performed during the operations described above. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

Geolex continued work on the End of Well Report.

Reported by: Alberto A. Gutierrez, RG, Michael W. Selke, RG, Jared Smith, and Dale Littlejohn, Geolex, Inc.

Figure 1 – Correllation with Zia AGI #1 Mud Log (subsequent page)





Date: 11/18/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Friday, November 18, 2016, Geolex Geologic Oversight continued with Selman (mud logger) to a borehole depth of 8737 feet at 06:00, Saturday, November 19, 2016. The most recent mud log and reports are attached at the end of this update. Both CO₂ and H₂S were continuously monitored to determine if the injection plume from Zia AGI #1 was encountered. Based on the gas and pressure monitoring, the Zia AGI #1 injection plume was not encountered during the drilling of Zia AGI D #2. Much of Thursday (late shift) and Friday (day shift) was spent tripping for a new bit with directional tool. Drilling resumed at approximately 15:30.

No specific Regulatory Oversight notifications were required or performed during these operations. However, a visit to the Carlsbad BLM Office to discuss the lower intermediate casing CBL did occur. The BLM 3160-5 sundry for the lower intermediate casing and borehole was submitted on Friday night. Also, courtesy C-103 sundries for both upper and lower intermediate casings are ready for delivery to NMOCD next week. Geolex also maintained communications with the Concho drilling personnel with respect to current conditions and upcoming operations.

Geology Oversight

The geologic correlation was switched to a Morrow well just southeast of the Zia AGI D #2 (the COG Lusk Deep Unit A #21) until drilling proceeds through the Morrow. After that the correlation will switch to the Lusk Deep Unit #2 to reach the Siluro-Devonian. The top of Bone Spring was encountered at 7,060 feet and the correlation remains flat. Formations and formation tops (Figures 1 and 2) that were encountered during the drilling of the production casing borehole are as follows:

<u>Formation</u>	Depth (kb)	<u>Primary Lithology</u>
Bell Canyon	4,779 feet	Sandstone w/thin bedded limestone
Cherry Canyon	4,963 feet	Fine grained sandstones, siltstones





• Brushy Canyon 5,632 feet Medium grained sandstones

• Bone Springs 7,060 feet Limestone

• Bone Springs 1st Sand 8,308 feet (projected) Fine sand and carbonates

Regulatory Oversight

Specific Regulatory Oversight notifications were not performed during the operations described above. Mike Selke, Geolex, visited the Carlsbad BLM Office and briefed their project engineer, Teungku Muchlis Krueng (Seven), on the CBL for the lower intermediate casing cement job. Mr. Krueng agreed that the bonding inside the intervals of the surface casing and the upper intermediate casing was not particularly good. However, because there were good cement return for all three casing cement jobs and good CITs, along with multiple layers of casing and cement he was not concerned. He further agreed that the cement bonding in the lower intermediate casing below the bottom of the upper intermediate casing was mostly excellent. He will approve the CBL which will be included in the 3160-5 sundry which was submitted later that evening. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

Geolex continued work on the End of Well Report.

Figure 1 – Correllation with Zia AGI #1 Mud Log (subsequent page)





Date: 11/19/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Saturday, November 19, 2016, Geolex Geologic Oversight continued with Selman (mud logger) to a borehole depth of 9,239 feet at 06:00, Sunday, November 20, 2016. The most recent mud log and reports are attached at the end of this update. Both CO₂ and H₂S were continuously monitored. Much of Saturday was spent tripping for a new bit. Drilling resumed at approximately 20:00.

No specific Regulatory Oversight notifications were required or performed during these operations. Courtesy C-103 sundries for both upper and lower intermediate casings are ready for delivery to NMOCD next week. Geolex also maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

The geologic correlation was switched to a Morrow well just southeast of the Zia AGI D #2 (the COG Lusk Deep Unit A #21) until drilling proceeds through the Morrow. After that the correlation will switch to the Lusk Deep Unit #2 to reach the Siluro-Devonian. The top of Bone Spring was encountered at 7,060 feet and the correlation remains flat. Formations and formation tops (Figures 1 and 2) that were encountered during the drilling of the production casing borehole are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Bell Canyon	4,779 feet	Sandstone w/thin bedded limestone
•	Cherry Canyon	4,963 feet	Fine grained sandstones, siltstones
•	Brushy Canyon	5,632 feet	Medium grained sandstones
	Bone Springs	7,060 feet	Limestone
	Bone Springs 1 st Sand	8,310 feet	Fine sand and carbonates
•	Bone Springs 2 nd Sand	9,034 feet	Fine sand and carbonates





Specific Regulatory Oversight notifications were not performed during the operations described above. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

Geolex continued work on the End of Well Report.

<u>Reported by:</u> Alberto A. Gutierrez, RG, Michael W. Selke, RG, Jared Smith, and Dale Littlejohn, Geolex, Inc.

Figure 1 – Correllation with Zia AGI #1 Mud Log (subsequent page)





Date: 11/20/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Sunday, November 20, 2016, Geolex Geologic Oversight continued with Selman (mud logger) to a borehole depth of 10,328 feet at 06:00, Monday, November 21, 2016. The most recent mud log and reports are attached at the end of this update. Both CO₂ and H₂S were continuously monitored. Drilling has been proceeding according to plan.

No specific Regulatory Oversight notifications were required or performed during these operations. Courtesy C-103 sundries for both upper and lower intermediate casings are ready for delivery to NMOCD next week. Geolex also maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

The geologic correlation was switched to a Morrow well just southeast of the Zia AGI D #2 (the COG Lusk Deep Unit A #21) until drilling proceeds through the Morrow. After that the correlation will switch to the Lusk Deep Unit #2 to reach the Siluro-Devonian. The top of Bone Spring was encountered at 7,060 feet and the correlation remains flat. Formations and formation tops (Figures 1 and 2) that were encountered during the drilling of the production casing borehole are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Bell Canyon	4,779 feet	Sandstone w/thin bedded limestone
•	Cherry Canyon	4,963 feet	Fine grained sandstones, siltstones
•	Brushy Canyon	5,632 feet	Medium grained sandstones
•	Bone Springs	7,060 feet	Limestone
•	Bone Springs 1 st Sand	8,324 feet	Fine sand and carbonates
	Bone Springs 2 nd Sand	9,044 feet	Fine sand and carbonates
•	Bone Springs 3 rd Sand	9,879 feet (projected)	Fine sand and carbonates





Specific Regulatory Oversight notifications were not performed during the operations described above. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

Geolex continued work on the End of Well Report.

<u>Reported by:</u> Alberto A. Gutierrez, RG, Michael W. Selke, RG, Jared Smith, and Dale Littlejohn, Geolex, Inc.

Figure 1 – Correllation with Zia AGI #1 Mud Log (subsequent page)





Date: 11/21/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Monday, November 21, 2016, Geolex Geologic Oversight continued with Selman (mud logger) to a borehole depth of 11,133 feet at 06:00, Tuesday, November 22, 2016. The most recent mud log and reports are attached at the end of this update. Both CO₂ and H₂S were continuously monitored. Drilling has been proceeding according to plan but the borehole is drifting to the east and northeast. The directional drillers are making adjustments to keep the inclination within 1.5 degrees. The bottom hole location is 64.48 feet east and 49.79 feet north with an inclination of 0.9 degrees.

No specific Regulatory Oversight notifications were required or performed during these operations. Courtesy C-103 sundries for both upper and lower intermediate casings are ready for delivery to NMOCD next week. Geolex also maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

The geologic correlation was switched to a Morrow well just southeast of the Zia AGI D #2 (the COG Lusk Deep Unit A #21) until drilling proceeds through the Morrow. After that the correlation will switch to the Lusk Deep Unit #2 to reach the Siluro-Devonian. The top of Wolfcamp was encountered at 10,422 feet and the correlation remains flat. Formations and formation tops (Figures 1 and 2) that were encountered during the drilling of the production casing borehole are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Bell Canyon	4,779 feet	Sandstone w/thin bedded limestone
•	Cherry Canyon	4,963 feet	Fine grained sandstones, siltstones
•	Brushy Canyon	5,632 feet	Medium grained sandstones





•	Bone Spring	7,060 feet	Limestone
	Bone Spring 1 st Sand	8,324 feet	Fine sand and carbonates
	Bone Spring 2 nd Sand	9,044 feet	Fine sand and carbonates
•	Bone Spring 3 rd Sand	9,877 feet	Fine sand and carbonates
•	Wolfcamp	10,422 feet	Shale, siltstone and limestone
•	Strawn	11,170 feet (est.)	Limestone

Specific Regulatory Oversight notifications were not performed during the operations described above. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

Geolex attended the briefing on the installation of the seven-inch casing that included a briefing from Halliburton on the Welllock resin and the subsequent bond logging. Geolex continued work on the End of Well Report.

Figure 1 – Correllation with Zia AGI #1 Mud Log (subsequent page)





Date: 11/22/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Tuesday, November 23, 2016, Geolex Geologic Oversight continued with Selman (mud logger) to a borehole depth of 11,303 feet at 06:00 after spending most of the day tripping for a new bit. The most recent mud log and reports are attached at the end of this update. Both CO_2 and H_2S were continuously monitored.

No specific Regulatory Oversight notifications were required or performed during these operations. Courtesy C-103 sundries for both upper and lower intermediate casings were hand delivered to NMOCD Hobbs District Office. Geolex also maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

The geologic correlation was switched to a Morrow well just southeast of the Zia AGI D #2 (the COG Lusk Deep Unit A #21) until drilling proceeds through the Morrow. After that the correlation will switch to the Lusk Deep Unit #2 to reach the Siluro-Devonian. The top of Wolfcamp was encountered at 10,422 feet and the correlation remains flat. Drilling continued to a depth of 11,303 feet on Wednesday, November 23, 2016 at 06:00. Formations and formation tops (Figures 1 and 2) that were encountered during the drilling of the production casing borehole are as follows:

Formation	Depth (kb)	Primary Lithology
Bell Canyon	4,779 feet	Sandstone w/thin bedded limestone
 Cherry Canyon 	4,963 feet	Fine grained sandstones, siltstones
 Brushy Canyon 	5,632 feet	Medium grained sandstones
 Bone Spring 	7,060 feet	Limestone
 Bone Spring 1st Sand 	8,324 feet	Fine sand and carbonates





•	Bone Spring 2 nd Sand	9,044 feet	Fine sand and carbonates
•	Bone Spring 3 rd Sand	9,877 feet	Fine sand and carbonates
•	Wolfcamp	10,422 feet	Shale, siltstone and limestone
•	Strawn	11,163 feet	Limestone

Specific Regulatory Oversight notifications were not performed during the operations described above. Courtesy C-103 sundries for both upper and lower intermediate casings were hand delivered to NMOCD Hobbs District Office. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

Geolex, Concho, DCP and Integrity met to discuss the drift in Zia AGI D #2 8 ½: borehole. The consensus agreement was that additional drift to the east/northeast would be kept to no more than 30 feet. After that more aggressive directional drilling would be implemented to maintain that limit and/or induce drift to the west. Concho and Geolex will continue monitoring the deviation, and if it dramatically changes action will be taken to compensate.

Figure 1 – Correllation with Zia AGI #1 Mud Log (subsequent page)





Date: 11/23/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Wednesday, November 23, 2016, Geolex Geologic Oversight continued with Selman (mud logger) to a borehole depth of 11,960 feet at 06:00 drilling in the Atoka. The most recent mud log and reports are attached at the end of this update. Both CO₂ and H₂S were continuously monitored.

No specific Regulatory Oversight notifications were required or performed during these operations. Geolex also maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

The geologic correlation was switched to a Morrow well just southeast of the Zia AGI D #2 (the COG Lusk Deep Unit A #21) until drilling proceeds through the Morrow. After that the correlation will switch to the Lusk Deep Unit #2 to reach the Siluro-Devonian. The top of Atoka was encountered at 11,595 feet. Drilling continued to a depth of 11,960 feet on Thursday, November 24, 2016 at 06:00. Formations and formation tops (Figures 1 and 2) that were encountered during the drilling of the production casing borehole are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Bell Canyon	4,779 feet	Sandstone w/thin bedded limestone
•	Cherry Canyon	4,963 feet	Fine grained sandstones, siltstones
•	Brushy Canyon	5,632 feet	Medium grained sandstones
•	Bone Spring	7,060 feet	Limestone
	Bone Spring 1 st Sand	8,324 feet	Fine sand and carbonates
•	Bone Spring 2 nd Sand	9,044 feet	Fine sand and carbonates
•	Bone Spring 3 rd Sand	9,877 feet	Fine sand and carbonates





•	Wolfcamp	10,422 feet	Shale, siltstone and limestone
•	Strawn	11,163 feet	Limestone
•	Atoka	11,595 feet	Limestone, shale and siltstone

Specific Regulatory Oversight notifications were not performed during the operations described above. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

Geolex continued to develop the end of well report.

<u>Reported by:</u> Alberto A. Gutierrez, RG, Michael W. Selke, RG, Jared Smith, and Dale Littlejohn, Geolex, Inc.

Figure 1 – Correllation with Zia AGI #1 Mud Log (subsequent page)





Date: 11/24/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Thursday, November 24, 2016, Geolex Geologic Oversight continued with Selman (mud logger) to a borehole depth of 12,383 feet at 06:00 drilling in the Morrow. The most recent mud log and reports are attached at the end of this update. Both CO₂ and H₂S were continuously monitored.

No specific Regulatory Oversight notifications were required or performed during these operations. Geolex also maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

The geologic correlation was switched Lusk Deep Unit #2 to reach the Siluro-Devonian. The top of Morrow was encountered at 11,973 feet. Drilling continued to a depth of 12,382 feet on Friday, November 25, 2016 at 06:00. Formations and formation tops (Figures 1 and 2) that were encountered during the drilling of the production casing borehole are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Bell Canyon	4,779 feet	Sandstone w/thin bedded limestone
•	Cherry Canyon	4,963 feet	Fine grained sandstones, siltstones
•	Brushy Canyon	5,632 feet	Medium grained sandstones
•	Bone Spring	7,060 feet	Limestone
•	Bone Spring 1 st Sand	8,324 feet	Fine sand and carbonates
•	Bone Spring 2 nd Sand	9,044 feet	Fine sand and carbonates
•	Bone Spring 3 rd Sand	9,877 feet	Fine sand and carbonates
•	Wolfcamp	10,422 feet	Shale, siltstone and limestone
•	Strawn	11,163 feet	Limestone





Atoka
 Morrow
 11,595 feet
 Limestone, shale and siltstone sandstone and shale

Regulatory Oversight

Specific Regulatory Oversight notifications were not performed during the operations described above. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

Geolex continued to develop the end of well report.

<u>Reported by:</u> Alberto A. Gutierrez, RG, Michael W. Selke, RG, Jared Smith, and Dale Littlejohn, Geolex, Inc.

Figure 1 – Correllation with Zia AGI #1 Mud Log (subsequent page)





Date: 11/25/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Friday, November 25, 2016, Geolex Geologic Oversight continued with Selman (mud logger) to a borehole depth of 12,721 feet at 06:00 drilling in the Mississippian. The most recent mud log and reports are attached at the end of this update. Both CO₂ and H ₂S were continuously monitored.

No specific Regulatory Oversight notifications were required or performed during these operations. Geolex also maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

The geologic correlation was switched Lusk Deep Unit #2 to reach the Siluro-Devonian. The top of Morrow was encountered at 11,973 feet. Drilling continued to a depth of 12,382 feet on Friday, November 25, 2016 at 06:00. Formations and formation tops (Figures 1 and 2) that were encountered during the drilling of the production casing borehole are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Bell Canyon	4,779 feet	Sandstone w/thin bedded limestone
•	Cherry Canyon	4,963 feet	Fine grained sandstones, siltstones
•	Brushy Canyon	5,632 feet	Medium grained sandstones
•	Bone Spring	7,060 feet	Limestone
•	Bone Spring 1 st Sand	8,324 feet	Fine sand and carbonates
•	Bone Spring 2 nd Sand	9,044 feet	Fine sand and carbonates
•	Bone Spring 3 rd Sand	9,877 feet	Fine sand and carbonates
•	Wolfcamp	10,422 feet	Shale, siltstone and limestone
•	Strawn	11,163 feet	Limestone





•	Atoka	11,595 feet	Limestone, shale and siltstone
•	Morrow	11,973 feet	Sandstone and shale
•	Mississippian	12,715 feet (est.)	Shale and limestone

Specific Regulatory Oversight notifications were not performed during the operations described above. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

Geolex continued to develop the end of well report.

<u>Reported by:</u> Alberto A. Gutierrez, RG, Michael W. Selke, RG, Jared Smith, and Dale Littlejohn, Geolex, Inc.

Figure 1 – Correllation with Zia AGI #1 Mud Log (subsequent page)





Date: 11/26/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Saturday, November 26, 2016, Geolex Geologic Oversight continued with Selman (mud logger) to a borehole depth of 13,197 feet at 06:00 drilling in the Mississippian Lime (Osage Formation). Formation tops are appearing shallower than expected, and it is anticipated that the Woodford shale top will come in at approximately 13,484 feet (opposed to the current prediction of 13,615 feet) and the Devonian top will come in at approximately 13,605 feet (opposed to the current estimate of 13,740 feet). The most recent mud log and reports are attached at the end of this update. Both CO₂ and H₂S were continuously monitored.

No specific Regulatory Oversight notifications were required or performed during these operations. Geolex also maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

The geologic correlation was switched to the Lusk Deep Unit #2 to reach the Siluro-Devonian. The top of the Mississippian (Chester Formation) was encountered at 12,544 feet, the top of the Barnett shale at 12,765 feet, and the top of the Mississippian Lime (Osage Formation) at 12,923. Drilling continued to a depth of 13,197 feet on Sunday, November 27, 2016 at 06:00. Formations and formation tops (Figures 1 and 2) that were encountered during the drilling of the production casing borehole are as follows:

	Formation	Depth (kb)	<u>Primary Lithology</u>
•	Bell Canyon	4,779 feet	Sandstone w/thin bedded limestone
•	Cherry Canyon	4,963 feet	Fine grained sandstones, siltstones
•	Brushy Canyon	5,632 feet	Medium grained sandstones
•	Bone Spring	7,060 feet	Limestone





•	Bone Spring 1 st Sand	8,324 feet	Fine sand and carbonates
•	Bone Spring 2 nd Sand	9,044 feet	Fine sand and carbonates
•	Bone Spring 3 rd Sand	9,877 feet	Fine sand and carbonates
•	Wolfcamp	10,422 feet	Shale, siltstone and limestone
•	Strawn	11,163 feet	Limestone
•	Atoka	11,595 feet	Limestone, shale and siltstone
•	Morrow	11,973 feet	Sandstone and shale
•	Mississippian (Chester)	12,544 feet	Shale and limestone
•	Barnett	12,765 feet	Shale
•	Mississippian Lime (Osage)	12,923 feet	Limestone with chert
•	Woodford	13,484 feet (est.)	Shale
•	Devonian	13,605 feet (est.)	Dolomite
•	Silurian (Wristen)	13,755 feet (est.)	Dolomite and limestone

Specific Regulatory Oversight notifications were not performed during the operations described above. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

Geolex continued to develop the end of well report.

Figure 1 – Correllation with Zia AGI #1 Mud Log (subsequent page)





Date: 11/27/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Sunday, November 27, 2016, Geolex Geologic Oversight continued with Selman (mud logger) to a borehole depth of 13,530 feet at 21:38 drilling in the Woodford. Scandrill is currently tripping out of the hole to replace the drill bit and bring the gamma tool closer to the bit. The most recent mud log and reports are attached at the end of this update. Both CO_2 and H_2S were continuously monitored.

No specific Regulatory Oversight notifications were required or performed during these operations. Geolex also maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

The geologic correlation was switched to the Lusk Deep Unit #2 to reach the Siluro-Devonian. The top of the Woodford was encountered at 13,474 feet. Drilling continued to a depth of 13,530 feet on Sunday, November 27, 2016 at 21:38. At this point, the top of the Woodford was determined and Scandrill pulled out of the hole to replace the bit and bring the gamma tool closer to the next bit. This provides Geolex with the capability to determine the Devonian top sooner while continuing to drill. It is estimated that the production casing will land 15 feet into the Devonian. If fracture porosity is identified at the top of the Devonian, the casing point may be changed to the base of the Woodford, also a competent lithology and an acceptable casing seat. Formations and formation tops (Figures 1 and 2) that were encountered during the drilling of the production casing borehole are as follows:

Formation	Depth (kb)	Primary Lithology
 Bell Canyon 	4,779 feet	Sandstone w/thin bedded limestone
 Cherry Canyon 	4,963 feet	Fine grained sandstones, siltstones





•	Brushy Canyon	5,632 feet	Medium grained sandstones
•	Bone Spring	7,060 feet	Limestone
•	Bone Spring 1st Sand	8,324 feet	Fine sand and carbonates
•	Bone Spring 2 nd Sand	9,044 feet	Fine sand and carbonates
•	Bone Spring 3 rd Sand	9,877 feet	Fine sand and carbonates
•	Wolfcamp	10,422 feet	Shale, siltstone and limestone
•	Strawn	11,163 feet	Limestone
•	Atoka	11,595 feet	Limestone, shale and siltstone
•	Morrow	11,973 feet	Sandstone and shale
•	Mississippian (Chester)	12,544 feet	Shale and limestone
•	Barnett	12,765 feet	Shale
•	Mississippian Lime (Osage)	12,923 feet	Limestone with chert
•	Woodford	13,474 feet	Shale
•	Devonian	13,605 feet (est.)	Dolomite
•	Silurian (Wristen)	13,755 feet (est.)	Dolomite and limestone

Specific Regulatory Oversight notifications were not performed during the operations described above. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

Geolex continued to develop the end of well report.

Figure 1 – Correllation with Zia AGI #1 Mud Log (subsequent page)





Date: 11/28/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Monday, November 28, 2016, Geolex Geologic Oversight continued with Selman (mud logger) to the production boreholes final depth of 13,622 feet at 22:56, 15 feet into the Devonian. The Devonian top appeared shallower than expected at 13,607 feet. Scandrill conditioned the hole and is currently tripping out to prepare for geophysical logging of the open-hole. The most recent mud log and reports are attached at the end of this update. Both CO₂ and H₂S were continuously monitored.

The BLM has been notified that TD on the production hole has been reached at 13,622 feet. Geolex also maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

The geologic correlation was switched to the Lusk Deep Unit #2 to reach the Siluro-Devonian. The top of the Woodford was encountered at 13,474 feet. The top of the Devonian was encountered at 13,607 feet. Drilling continued in the production hole to its total depth (TD) of 13,622 feet on Monday, November 28, 2016 at 22:56. This final TD is 15 feet into the Devonian, which was the original approved plan in the permit. Furthermore, no fracture porosity was encountered at the top of the Devonian, and the casing seat is in a competent lithologic unit. Formations and formation tops (Figures 1 and 2) that were encountered during the drilling of the production casing borehole are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Bell Canyon	4,779 feet	Sandstone w/thin bedded limestone
•	Cherry Canyon	4,963 feet	Fine grained sandstones, siltstones
•	Brushy Canyon	5,632 feet	Medium grained sandstones





•	Bone Spring	7,060 feet	Limestone
•	Bone Spring 1 st Sand	8,324 feet	Fine sand and carbonates
•	Bone Spring 2 nd Sand	9,044 feet	Fine sand and carbonates
•	Bone Spring 3 rd Sand	9,877 feet	Fine sand and carbonates
•	Wolfcamp	10,422 feet	Shale, siltstone and limestone
•	Strawn	11,163 feet	Limestone
•	Atoka	11,595 feet	Limestone, shale and siltstone
•	Morrow	11,973 feet	Sandstone and shale
•	Mississippian (Chester)	12,544 feet	Shale and limestone
•	Barnett	12,765 feet	Shale
•	Mississippian Lime (Osage)	12,923 feet	Limestone with chert
•	Woodford	13,474 feet	Shale
•	Devonian	13,607 feet	Dolomite
•	Silurian (Wristen)	13,768 feet (est.)	Dolomite and limestone

The BLM has been notified that TD on the production hole has been reached at 13,622 feet. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

No other Support Activities occurred during this time.

Figure 1 – Correllation with Zia AGI #1 Mud Log (subsequent page)





Date: 11/29/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Tuesday, November 29, 2016, Geolex Geologic Oversight consisted of selecting the appropriate production casing seat. It has been determined that the Devonian at 13,622 feet is an appropriate and competent rock to set the production casing in. In addition, all open-hole geophysical logs, including the mechanical caliper log, have been completed for the production borehole. All logs have been sent via e-mail from Schlumberger, and hard copies will be delivered to DCP with the End of Well Report. The most recent mud log is attached at the end of this update.

Regulatory Oversite consisted of an update to the BLM notifying them that TD on the production hole has been reached at 13,622 feet. Geolex also maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

The top of the Devonian was encountered at 13,607 feet. Drilling continued in the production hole to its total depth (TD) of 13,622 feet on Monday, November 28, 2016. Geophysical logging of the production borehole commenced on Tuesday, November 29, 2016 and ended on Wednesday, November 30, 2016. This included the mechanical caliper log, which showed little to no washouts between 4,696 and 13,622 feet. Further analysis of the geophysical logs will continue, and be discussed on the following daily report. Formations and formation tops (Figures 1) that were encountered during the drilling of the production casing borehole are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Bell Canyon	4,779 feet	Sandstone w/thin bedded limestone
•	Cherry Canyon	4,963 feet	Fine grained sandstones, siltstones





•	Brushy Canyon	5,632 feet	Medium grained sandstones
•	Bone Spring	7,060 feet	Limestone
•	Bone Spring 1st Sand	8,324 feet	Fine sand and carbonates
•	Bone Spring 2 nd Sand	9,044 feet	Fine sand and carbonates
•	Bone Spring 3 rd Sand	9,877 feet	Fine sand and carbonates
•	Wolfcamp	10,422 feet	Shale, siltstone and limestone
•	Strawn	11,163 feet	Limestone
•	Atoka	11,595 feet	Limestone, shale and siltstone
•	Morrow	11,973 feet	Sandstone and shale
•	Mississippian (Chester)	12,544 feet	Shale and limestone
•	Barnett	12,765 feet	Shale
•	Mississippian Lime (Osage)	12,923 feet	Limestone with chert
•	Woodford	13,474 feet	Shale
•	Devonian	13,607 feet	Dolomite
•	Silurian (Wristen)	13,768 feet (est.)	Dolomite and limestone

The BLM has been notified that TD on the production hole has been reached at 13,622 feet. Figure 2 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

No other Support Activities occurred during this time.





Date: 11/30/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Wednesday, November 30, 2016, Geolex conducted normal operations at the Zia AGI D #2 well site. After completing the geophysical logging, Scandrill performed a wiper trip to TD and is strapping out of the hole (confirmed TD at 16,322 feet). The production casing is scheduled to be run in the afternoon on Thursday, December 1, 2016.

There was no regulatory oversite conducted during this 24-hour period. Geolex maintained communications with the Concho drilling personnel with respect to current conditions and upcoming operations.

Geology Oversight

Drilling of the production casing hole was completed 15 feet into the Devonian at a total depth of 13,622 feet by 23:00 on November 28, 2016. No additional drilling has been performed. Formations and formation tops (Figures 1) that were encountered during the drilling of the production casing borehole are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Bell Canyon	4,779 feet	Sandstone w/thin bedded limestone
•	Cherry Canyon	4,963 feet	Fine grained sandstones, siltstones
•	Brushy Canyon	5,632 feet	Medium grained sandstones
•	Bone Spring	7,060 feet	Limestone
•	Bone Spring 1 st Sand	8,324 feet	Fine sand and carbonates
•	Bone Spring 2 nd Sand	9,044 feet	Fine sand and carbonates
•	Bone Spring 3 rd Sand	9,877 feet	Fine sand and carbonates
•	Wolfcamp	10,422 feet	Shale, siltstone and limestone
•	Strawn	11,163 feet	Limestone





•	Atoka	11,595 feet	Limestone, shale and siltstone
•	Morrow	11,973 feet	Sandstone and shale
•	Mississippian (Chester)	12,544 feet	Shale and limestone
•	Barnett	12,765 feet	Shale
•	Mississippian Lime (Osage)	12,923 feet	Limestone with chert
•	Woodford	13,474 feet	Shale
•	Devonian	13,607 feet	Dolomite
•	Silurian (Wristen)	13,768 feet (est.)	Dolomite and limestone

The BLM has been notified that TD on the production hole has been reached at 13,622 feet and their engineer (Teungku Krueng) has found this to be acceptable. Figure 2 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

No other Support Activities occurred during this time.





Date: 12/01/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Thursday, December 1, 2016, Geolex conducted normal operations at the Zia AGI D #2 well site. Upon completion of conditioning the production borehole, the 7-inch casing was run beginning at approximately 14:00. As of 06:00 on Friday, December 2 the casing depth was 7,331. Once casing reaches total depth (13,622 feet), the "well lock" polymer cement will begin the 15-hour mixing process.

Regulatory Oversite consisted of two phone calls to the BLM; one to the BLM Engineer (Teungku Krueng) and one to the BLM hotline giving them both status updates on the production casing. Geolex also attended the Thursday meeting, which included strategies for setting and cementing the production casing, final TD of the open-hole section and well completion plan. Geolex maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

Drilling of the production casing hole was completed 15 feet into the Devonian at a total depth of 13,622 feet by 23:00 on November 28, 2016. No additional drilling has been performed. Formations and formation tops (Figures 4) that were encountered during the drilling of the production casing borehole are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Bell Canyon	4,779 feet	Sandstone w/thin bedded limestone
•	Cherry Canyon	4,963 feet	Fine grained sandstones, siltstones
•	Brushy Canyon	5,632 feet	Medium grained sandstones
	Bone Spring	7,060 feet	Limestone
•	Bone Spring 1 st Sand	8,324 feet	Fine sand and carbonates





•	Bone Spring 2 nd Sand	9,044 feet	Fine sand and carbonates
•	Bone Spring 3 rd Sand	9,877 feet	Fine sand and carbonates
•	Wolfcamp	10,422 feet	Shale, siltstone and limestone
•	Strawn	11,163 feet	Limestone
•	Atoka	11,595 feet	Limestone, shale and siltstone
•	Morrow	11,973 feet	Sandstone and shale
•	Mississippian (Chester)	12,544 feet	Shale and limestone
•	Barnett	12,765 feet	Shale
•	Mississippian Lime (Osage)	12,923 feet	Limestone with chert
•	Woodford	13,474 feet	Shale
•	Devonian	13,607 feet	Dolomite
•	Silurian (Wristen)	13,768 feet (est.)	Dolomite and limestone

Regulatory Oversite consisted of two phone calls to the BLM; one to the BLM Engineer (Teungku Krueng) and one to the BLM hotline giving them both status updates on the production casing. Teungku Krueng indicated he would be the on-call engineer next week for cementing the casing. The BLM hotline notified Geolex that John Staton may be the on-call inspector to witness the cementing of the production casing. Figure 5 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

Geolex continued to develop the end of well report.





Date: 12/02/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Friday, December 2, 2016, Geolex Oversite consisted of witnessing the setting of the 7-inch production casing at approximately 06:00 (Saturday Morning). The "Well-Lock" resin cement mixing has not begun by at the writing of this report (approximately 08:00 on Saturday) and may not require the full 15 hours as first thought.

The operations planned for today include rigging down Franks Casing Service and rigging up Schlumberger to run a gamma ray/CCL to verify the casing components depth relative to the Devonian top. Mixing of the resin will begin during or just after the logging is complete.

No Regulatory Oversite was performed on Friday. The BLM hotline will be notified on Saturday to determine what operations, if any, are to be witnessed by the field inspector. Geolex maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

Drilling of the production casing hole was completed 15 feet into the Devonian at a total depth of 13,622 feet by 23:00 on November 28, 2016. No additional drilling has been performed. Formations and formation tops (Figures 2) that were encountered during the drilling of the production casing borehole are as follows:

<u>Formation</u>	Depth (kb)	Primary Lithology
Bell Canyon	4,779 feet	Sandstone w/thin bedded limestone
 Cherry Canyon 	4,963 feet	Fine grained sandstones, siltstones
 Brushy Canyon 	5,632 feet	Medium grained sandstones
 Bone Spring 	7,060 feet	Limestone





•	Bone Spring 1 st Sand	8,324 feet	Fine sand and carbonates
•	Bone Spring 2 nd Sand	9,044 feet	Fine sand and carbonates
•	Bone Spring 3 rd Sand	9,877 feet	Fine sand and carbonates
•	Wolfcamp	10,422 feet	Shale, siltstone and limestone
•	Strawn	11,163 feet	Limestone
•	Atoka	11,595 feet	Limestone, shale and siltstone
•	Morrow	11,973 feet	Sandstone and shale
•	Mississippian (Chester)	12,544 feet	Shale and limestone
•	Barnett	12,765 feet	Shale
•	Mississippian Lime (Osage)	12,923 feet	Limestone with chert
•	Woodford	13,474 feet	Shale
•	Devonian	13,607 feet	Dolomite
•	Silurian (Wristen)	13,768 feet (est.)	Dolomite and limestone

No Regulatory Oversite was performed on Friday, December 2, 2016. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date. Communication and notification will begin on Saturday to insure the BLM field inspector is present to witness critical operations.

Other Support Activities

Geolex continued to develop the end of well report.





Date: 12/03/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Saturday, December 3, 2016, Geolex Oversite consisted of witnessing the correlation of the Schlumberger gamma ray/CCL log with the open-hole logs to verify that the 7-inch casing shoe is located 15 to 17 feet into the Devonian Formation, prior to pumping the polymer WellLock cement. The first stage, consisting of H Blend (770 sacks) and WellLock (20 barrels) polymer cements, was completed at approximately 22:00 (Figure 1). Returns of the first stage cement were witnessed at approximately 23:39; after the bomb was dropped, diverter tool (DVT) engaged, and circulation commenced. There were 128 sacks returned to surface (Figure 2). Mixing of the second stage cement began at approximately 01:00 hours on Sunday, December 4, 2016, and will require approximately 8-10 hours before pumping in.

The operations planned for today will include the continued mixing of the second stage resin pumping the second stage cement. Regulatory Oversite on Saturday included a call to the BLM hotline to determine what operations, if any, are to be witnessed by the field inspector. Geolex maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

Drilling of the production casing hole was completed 15 feet into the Devonian at a total depth of 13,622 feet by 23:00 on November 28, 2016. No additional drilling has been performed. Formations and formation tops (Figures 3) that were encountered during the drilling of the production casing borehole are as follows:

	Formation	Depth (kb)	Primary Lithology
	Bell Canyon	4,779 feet	Sandstone w/thin bedded limestone
•	Cherry Canyon	4,963 feet	Fine grained sandstones, siltstones





•	Brushy Canyon	5,632 feet	Medium grained sandstones
•	Bone Spring	7,060 feet	Limestone
•	Bone Spring 1 st Sand	8,324 feet	Fine sand and carbonates
•	Bone Spring 2 nd Sand	9,044 feet	Fine sand and carbonates
•	Bone Spring 3 rd Sand	9,877 feet	Fine sand and carbonates
•	Wolfcamp	10,422 feet	Shale, siltstone and limestone
•	Strawn	11,163 feet	Limestone
•	Atoka	11,595 feet	Limestone, shale and siltstone
•	Morrow	11,973 feet	Sandstone and shale
•	Mississippian (Chester)	12,544 feet	Shale and limestone
•	Barnett	12,765 feet	Shale
•	Mississippian Lime (Osage)	12,923 feet	Limestone with chert
•	Woodford	13,474 feet	Shale
•	Devonian	13,607 feet	Dolomite
•	Silurian (Wristen)	13,768 feet (est.)	Dolomite and limestone

The BLM-Hobbs Hotline field inspector was called to determine when notification should be made to insure they were able to witness operations of their concern. The inspector (John Staton) indicated that witnessing the production casing cement was a lower priority than the surface and intermediate casing and would not be attended by the BLM; therefore no further notification was required. Figure 4 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

No other support activities occurred during this time.





Date: 12/04/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Sunday, December 4, 2016, Geolex Oversite consisted of witnessing the cementing of the second stage of the 7-inch production casing (surface to DV tool at 6,345 feet). "Tuned Light" cement (420 sacks/158 bbls) was used for the lead and "Well-Lock" resin (80 barrels) was used for the tail. The operation began at 8:55 and the final plug was landed at 10:45. Ninety-three sacks (35 bbls) of lead cement was circulated to the surface as witnessed by Concho and Geolex (Figure 1). Waiting on cement (WOC) time is expected to be between 36 and 48 hours, based on Halliburton's evaluation of the resin samples.

The operations planned for today will include the preparation of the BLM sundry covering the installation of the production casing. Regulatory Oversite on Sunday included update emails to (Teungku Muchlis Krueng) the BLM engineer over this project. Geolex maintained communications with the Concho drilling personnel with respect to current conditions and upcoming operations.

Geology Oversight

Drilling of the production casing hole was completed 15 feet into the Devonian at a total depth of 13,622 feet by 23:00 on November 28, 2016. No additional drilling has been performed. Formations and formation tops (Figures 2) that were encountered during the drilling of the production casing borehole are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Bell Canyon	4,779 feet	Sandstone w/thin bedded limestone
•	Cherry Canyon	4,963 feet	Fine grained sandstones, siltstones
•	Brushy Canyon	5,632 feet	Medium grained sandstones
	Bone Spring	7,060 feet	Limestone
	Bone Spring 1 st Sand	8,324 feet	Fine sand and carbonates
•	Bone Spring 2 nd Sand	9,044 feet	Fine sand and carbonates





•	Bone Spring 3 rd Sand	0.977 foot	Eine and and combonates
•	bone spring 3 Sand	9,877 feet	Fine sand and carbonates
•	Wolfcamp	10,422 feet	Shale, siltstone and limestone
•	Strawn	11,163 feet	Limestone
•	Atoka	11,595 feet	Limestone, shale and siltstone
•	Morrow	11,973 feet	Sandstone and shale
•	Mississippian (Chester)	12,544 feet	Shale and limestone
•	Barnett	12,765 feet	Shale
•	Mississippian Lime (Osage)	12,923 feet	Limestone with chert
•	Woodford	13,474 feet	Shale
•	Devonian	13,607 feet	Dolomite
•	Silurian (Wristen)	13,768 feet (est.)	Dolomite and limestone

Regulatory Oversight for the project on Sunday included only a couple of update emails to our BLM coordinating engineer. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

Geolex intends to utilize the extended WOC time to work on the end of well report.





Date: 12/05/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Monday, December 5, 2016, Geolex Oversite consisted of monitoring the WOC time with respect to Halliburton's testing of the resin "Well-Lock" cement. At approximately 18:00 approval was given to TIH, test the casing above the DV tool, drill through the tool, TIH to baffle plate (90 feet above casing shoe) and test the full casing. Halliburton had not approved running the CBL at that time. As of 06:00 on Tuesday morning the upper casing pressure test had been performed (Figure 1) and the 4-inch drill pipe had been lowered to 6,359 feet.

The operations planned for today will include continued TIH, drill cement to 30 feet above casing shoe, TOH, and running CBL. No specific Regulatory Oversite was conducted on Monday. Geolex maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

Drilling of the production casing hole was completed 15 feet into the Devonian at a total depth of 13,622 feet by 23:00 on November 28, 2016. No additional drilling has been performed. Formations and formation tops (Figures 2) that were encountered during the drilling of the production casing borehole are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Bell Canyon	4,779 feet	Sandstone w/thin bedded limestone
•	Cherry Canyon	4,963 feet	Fine grained sandstones, siltstones
•	Brushy Canyon	5,632 feet	Medium grained sandstones
•	Bone Spring	7,060 feet	Limestone
	Bone Spring 1 st Sand	8,324 feet	Fine sand and carbonates
	Bone Spring 2 nd Sand	9,044 feet	Fine sand and carbonates
•	Bone Spring 3 rd Sand	9,877 feet	Fine sand and carbonates
•	Wolfcamp	10,422 feet	Shale, siltstone and limestone
•	Wolfcamp	10,422 feet	Shale, siltstone and limestone





•	Strawn	11,163 feet	Limestone
•	Atoka	11,595 feet	Limestone, shale and siltstone
•	Morrow	11,973 feet	Sandstone and shale
•	Mississippian (Chester)	12,544 feet	Shale and limestone
•	Barnett	12,765 feet	Shale
•	Mississippian Lime (Osage)	12,923 feet	Limestone with chert
•	Woodford	13,474 feet	Shale
•	Devonian	13,607 feet	Dolomite
•	Silurian (Wristen)	13,768 feet (est.)	Dolomite and limestone

Regulatory Oversight was not performed on Monday. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

Geolex intends to utilize the extended WOC time to work on the end of well report.





Date: 12/06/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Tuesday, December 6, 2016, Geolex Oversite consisted of monitoring the TIH with bit, drilling out resin below the DV tool, and washing/drilling to a depth of 13,592 feet. It was determined that to drill any closer to the casing shoe at this point was an unnecessary risk due to the potential of the hanging stretch of the casing to have relaxed in the resin cement and shifted the bottom of the pipe up the hole. It was also determined that the final casing integrity test would be performed following the running of the production casing CBL.

The operations planned for today will include continued TOOH and running CBL. No specific Regulatory Oversite was conducted on Tuesday, but an email update was sent to the BLM coordinating engineer early Wednesday. Geolex maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

Drilling of the production casing hole was completed 15 feet into the Devonian at a total depth of 13,622 feet by 23:00 on November 28, 2016. No additional drilling has been performed. Formations and formation tops (Figures 2) that were encountered during the drilling of the production casing borehole are as follows:

 Bell Canyon Cherry Canyon Brushy Canyon Bone Spring Bone Spring 2nd Sand Bone Spring 3rd Sand Bone Spring 3rd Sand Wolfcamp Sandstone w/thin bedded limestone Fine grained sandstones, siltstones Medium grained sandstones Limestone Fine sand and carbonates Fine sand and carbonates Fine sand and carbonates Fine sand and carbonates Shale, siltstone and limestone 		Formation	Depth (kb)	Primary Lithology
 Brushy Canyon Bone Spring Bone Spring Bone Spring 1st Sand Bone Spring 2nd Sand Bone Spring 3rd Sand Bone Spring Sand<!--</th--><th>•</th><th>Bell Canyon</th><th>4,779 feet</th><th>Sandstone w/thin bedded limestone</th>	•	Bell Canyon	4,779 feet	Sandstone w/thin bedded limestone
 Bone Spring Bone Spring 1st Sand Bone Spring 2nd Sand Bone Spring 3rd Sand 	•	Cherry Canyon	4,963 feet	Fine grained sandstones, siltstones
 Bone Spring 1st Sand Bone Spring 2nd Sand Bone Spring 3rd Sand Bone Spring 3rd Sand Bone Spring 3rd Sand Bone Spring 3rd Sand 	•	Brushy Canyon	5,632 feet	Medium grained sandstones
 Bone Spring 2nd Sand Bone Spring 3rd Sand 9,044 feet Fine sand and carbonates Fine sand and carbonates 	•	Bone Spring	7,060 feet	Limestone
• Bone Spring 3 rd Sand 9,877 feet Fine sand and carbonates			8,324 feet	Fine sand and carbonates
			9,044 feet	Fine sand and carbonates
• Wolfcamp 10,422 feet Shale, siltstone and limestone	•	Bone Spring 3 rd Sand	9,877 feet	Fine sand and carbonates
	•	Wolfcamp	10,422 feet	Shale, siltstone and limestone





•	Strawn	11,163 feet	Limestone
•	Atoka	11,595 feet	Limestone, shale and siltstone
•	Morrow	11,973 feet	Sandstone and shale
•	Mississippian (Chester)	12,544 feet	Shale and limestone
•	Barnett	12,765 feet	Shale
•	Mississippian Lime (Osage)	12,923 feet	Limestone with chert
•	Woodford	13,474 feet	Shale
•	Devonian	13,607 feet	Dolomite
•	Silurian (Wristen)	13,768 feet (est.)	Dolomite and limestone

Regulatory Oversight

Regulatory Oversight was not performed on Tuesday, except for a brief update email sent to the BLM coordinating engineer. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

Geolex is also working to prepare the BLM sundry covering the open-hole logging, production casing, cement, CBL, and final drill-out. The end of well report is also being reviewed and updated.

Reported by: Alberto A. Gutierrez, RG, Michael W. Selke, RG, Jared Smith, and Dale Littlejohn, Geolex, Inc.

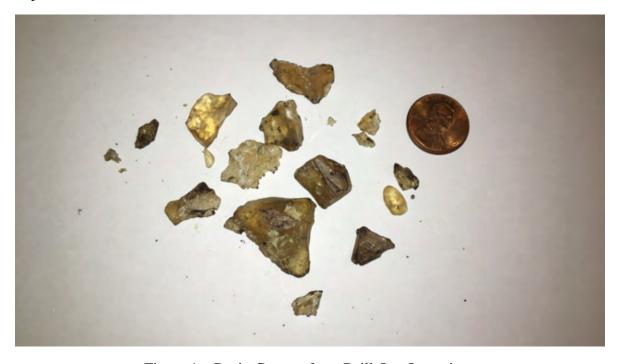


Figure 1 – Resin Cement from Drill Out Operations





Date: 12/07/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Wednesday, December 7, 2016, once the drill pipe had been removed from the 7-inch casing, Geolex Oversite consisted of monitoring the Halliburton cement bond log run in the production casing, which include CRA pipe set with "Well-Lock" resin cement. The CBL was successfully completed on the morning of Thursday, December 08, 2016 and approval was received from BLM. Geolex maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

Drilling of the production casing hole was completed 15 feet into the Devonian at a total depth of 13,622 feet by 23:00 on November 28, 2016. No additional drilling has been performed. Formations and formation tops (Figures 2) that were encountered during the drilling of the production casing borehole are as follows:

Formation	Depth (kb)	Primary Lithology
Bell Canyon	4,779 feet	Sandstone w/thin bedded limestone
Cherry Canyon	4,963 feet	Fine grained sandstones, siltstones
Brushy Canyon	5,632 feet	Medium grained sandstones
Bone Spring	7,060 feet	Limestone
Bone Spring 1 st Sand	8,324 feet	Fine sand and carbonates
Bone Spring 2 nd Sand	9,044 feet	Fine sand and carbonates
Bone Spring 3 rd Sand	9,877 feet	Fine sand and carbonates
Wolfcamp	10,422 feet	Shale, siltstone and limestone
Strawn	11,163 feet	Limestone
Atoka	11,595 feet	Limestone, shale and siltstone
Morrow	11,973 feet	Sandstone and shale
Mississippian (Chester)	12,544 feet	Shale and limestone
	Bell Canyon Cherry Canyon Brushy Canyon Bone Spring Bone Spring 1 st Sand Bone Spring 2 nd Sand Bone Spring 3 rd Sand Wolfcamp Strawn Atoka Morrow	Bell Canyon 4,779 feet Cherry Canyon 4,963 feet Brushy Canyon 5,632 feet Bone Spring 7,060 feet Bone Spring 1 st Sand 8,324 feet Bone Spring 2 nd Sand 9,044 feet Bone Spring 3 rd Sand 9,877 feet Wolfcamp 10,422 feet Strawn 11,163 feet Atoka 11,595 feet Morrow 11,973 feet





•	Barnett	12,765 feet	Shale
•	Mississippian Lime (Osage)	12,923 feet	Limestone with chert
•	Woodford	13,474 feet	Shale
•	Devonian	13,607 feet	Dolomite
•	Silurian (Wristen)	13,768 feet (est.)	Dolomite and limestone

Regulatory Oversight

M. Selke called Teungku Muchlis Krueng to discuss the results of the cement bond logging of the production casing. He emailed the RCBL and then called to brief the results. Teungku approved the cement job with the requirement that a successful CIT be conducted before drilling out. Teungku summarized this in an email to M. Selke, Geolex. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

Geolex is also working to prepare the BLM sundry covering the open-hole logging, production casing, cement, CBL, and final drill-out. The end of well report is also being reviewed and updated.

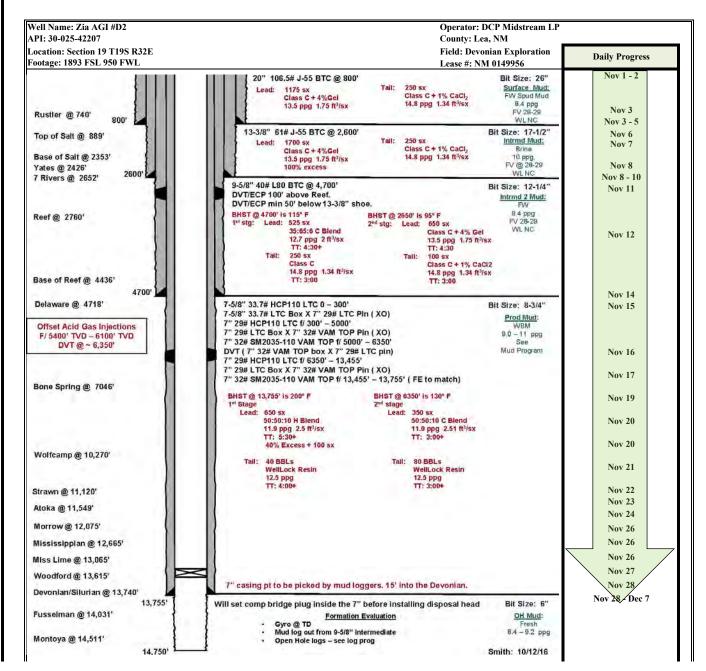


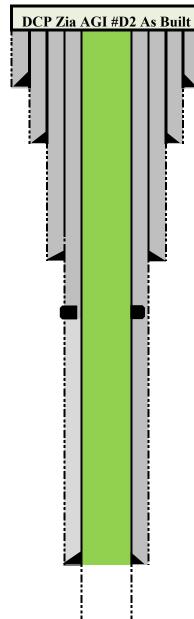
Figure 1 – Resin Cement from Drill Out Operations



Figure 2 - DCP Zia AGI #D2 Wellbore Status







Comment	Lithology
Spud on 11/2/16 starting at 120 feet	
226 feet on 11/2/16	Quaternary Deposits/Triassic
270 feet on 11/2/16	Top of Dockum Group
743 feet on 11/3/16	Top of Rustler
824 feet on 11/3/16	Top of Magenta Dolomite
Drilling 17 1/2-inch borehole on 11/6/16	Magenta Dolomite
882 feet on 11/7/16	Top of Salt
1836 feet on 11/7/16	Top of Salado
2343 feet on 11/8/16	Top of Tansill
2483 on 11/8/16 2652 on 11/11/16	Top of Yates Top of 7 Rivers
2652 On 11/11/16	Top of / Rivers
2760 on 11/11/16	Top of Capitan Reef
2700 011 11/11/10	Top of Capitali Reel
3666 on 11/12/16	In the Capitan Reef
3000 On 11/12/10	in the Capitan Reef
4438 on 11/12/16	Top of Goat Seep-Queen
	- of a sour seek Kasen
4,696 on 11/12/16	In the Goat Seep-Queen
4,779 on 11/16/16	Top of Delawere (Bell Canyon)
4,963 on 11/16/16	Top of Cherry Canyon
5,632 on 11/16/16	Top of Brushy Canyon
7,060 on 11/17/16	Top of Bone Spring
8,310 on 11/19/16	Top of Bone Spring 1st Sand
0.024 11/00/16	T CD C : 2 1C 1
9,034 on 11/20/16	Top of Bone Spring 2nd Sand
9,877 on 11/20/16	Ton of Dono Spring 2nd Soud
9,877 00 11/20/10	Top of Bone Spring 3rd Sand
10,422 on 11/21/16	Top of Wolfcamp
10,422 011 11/21/10	Top of woncamp
11,170 on 11/22/16	Top of Strawn
11,595 on 11/23/16	Top of Atoka
11,973 on 11/24/16	Top of Morrow
12,544 on 11/26/16	Top of Mississippian (Chester Fm.)
•	
12,765 on 11/26/16	Top of Barnett
12,923 on 11/26/16	Top of Mississippian Lime (Osage F
13,474 on 11/27/16	Top of Woodford
13,607 on 11/28/16	Top of Devonian
13,622 on 11/28/16	In the Devonian





Date: 12/08/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Thursday, December 8, 2016, Geolex Oversite consisted of monitoring the Halliburton cement bond log run in the production casing. The RCBL (with no processing) was completed late Wednesday night and provided to Geolex at 03:30 on Thursday morning and approval was received from BLM at 11:30 pending a successful casing integrity test (CIT). A successful CIT was performed at 02:30 and a successful formation integrity test (FIT) was performed at 08:00 on Friday morning. Geolex maintained communications with the Concho drilling personnel with respect to current conditions and up-coming operations.

Geology Oversight

Drilling of the production casing hole was completed 15 feet into the Devonian at a total depth of 13,622 feet by 23:00 on November 28, 2016. Drilling of the Devonian was resumed at 06:30 on Friday morning prior to the FIT. Formations and formation tops (Figures 1) that were encountered during the drilling of the production casing borehole are as follows:

	<u>Formation</u>	Depth (kb)	Primary Lithology
•	Bell Canyon	4,779 feet	Sandstone w/thin bedded limestone
•	Cherry Canyon	4,963 feet	Fine grained sandstones, siltstones
•	Brushy Canyon	5,632 feet	Medium grained sandstones
•	Bone Spring	7,060 feet	Limestone
•	Bone Spring 1 st Sand	8,324 feet	Fine sand and carbonates
•	Bone Spring 2 nd Sand	9,044 feet	Fine sand and carbonates
•	Bone Spring 3 rd Sand	9,877 feet	Fine sand and carbonates
•	Wolfcamp	10,422 feet	Shale, siltstone and limestone
•	Strawn	11,163 feet	Limestone
•	Atoka	11,595 feet	Limestone, shale and siltstone
•	Morrow	11,973 feet	Sandstone and shale





•	Mississippian (Chester)	12,544 feet	Shale and limestone
•	Barnett	12,765 feet	Shale
•	Mississippian Lime (Osage)	12,923 feet	Limestone with chert
•	Woodford	13,474 feet	Shale
•	Devonian	13,607 feet	Dolomite
•	Silurian (Wristen)	13,768 feet (est.)	Dolomite and limestone

The plan to guide the decision making process as we drill out the open hole below the 7-inch casing can be summarized as follows:

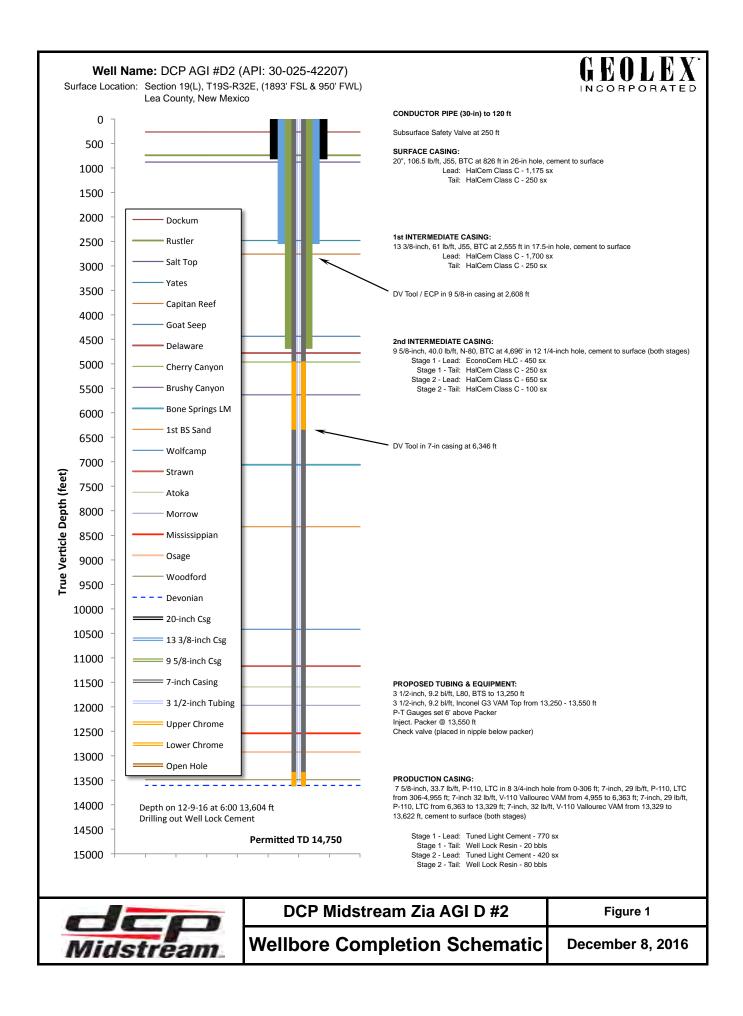
- 1. We are permitted from the top of the Devonian to no deeper than the Montoya (Ordovician)
- 2. In the application, based on the best available pre-drilling information, we believed that the porosity zones in the Devonian would be about 300' lower making the approved injection zone APPROXIMATELY 13,950-14,750 presuming a Devonian top around 13,950. We specifically used the approximate language to give OCD and us the flexibility to deal with the geology we actually encounter
- 3. It appears that the fault didn't have as much displacement on it as we originally believed on the seismic and a few of the overlying formations were thinner than expected.
- 4. Since the Devonian top in our well is about 13,606 we anticipate losing porosity somewhere below the Devonian, Wristen and Fusselman Formations, in the Montoya.
- 5. Given this situation, we have the flexibility to continue drilling as long as we are seeing porosity (based on ROP) as long as we don't drill through the Montoya. This will likely take us to around 14,450 but if we still have porosity in the Montoya, my recommendation is to continue into it, of course staying above the maximum permit depth of 14,750 or the base of the Montoya, whichever comes first.

Regulatory Oversight

M. Selke called Teungku Muchlis Krueng on Thursday morning to discuss the results of the cement bond logging of the production casing. He emailed the field print, and generally unprocessed RCBL and then called to discuss the results. Although there were a few areas of concern, they were relatively easy to explain based on pipe and cement type transitions. Teungku approved the cement job with the requirement that a successful CIT be conducted before drilling out. Teungku summarized this in an email to M. Selke, Geolex. Figure 2 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

Geolex is also working to prepare the BLM sundry covering the open-hole logging, production casing, cement, CBL, and final drill-out. The end of well report is also being reviewed and updated.







Date: 12/09/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Friday, December 9, 2016, Geolex Oversite primarily consisted of monitoring the drilling of the open-hole portion of the well in order to determine the total depth with respect to the maximum benefit for injection and compliance with regulatory requirements. Figure 1 is a schematic showing the well construction to date.

Geology Oversight

Drilling of the open-hole portion of the well began at a depth of 13,622 feet, approximately 15-17 feet into the Devonian, at 6:30 on December 9, 2016. Formations and formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Devonian	13,607 feet	Limestone
•	Silurian (Wristen)	13,787 feet	Limestone
•	Silurian (Fusselman)	13,950 feet	Limestone
•	Ordovician (Montoya)	14,386 feet (est.)	Dolomite

At 06:00 on Saturday, December 10, 2016 the rig was circulating to recover a sample at 14,570 feet. The drilling rate had slowed from 90 to 100 ft/hour to 60 to 70 ft/hour at approximately 14,550 feet as a result of an increase in chert within the primarily dolomite lithology. It was determined by Geolex that, although zones of apparent porosity were identified at approximately 13,850 feet and from 14,225 to 14, 350 feet, the continuing presence of free calcite in the cuttings indicated that additional zones of fracture porosity were likely. Based on this it was decided that the open-hole portion of the well should be extended to the full permitted depth of 14,750, unless extremely difficult drilling or a degradation of the bit occurred. Attached are the most recent section of the mud log and the associated Geolex correlation with nearby off-set wells.





Regulatory Oversight

No specific Regulatory Oversight was performed on Friday, December 9, 2016. Figure 2 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

Geolex is also working to prepare the BLM sundry covering the open-hole logging, production casing, cement, CBL, and final drill-out. The end of well report is also being reviewed and updated.





Date: 12/10/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Saturday, December 10, 2016, Geolex Oversite consisted of monitoring the drilling of the open-hole portion of the well in order to determine the total depth with respect to the maximum benefit for injection and compliance with regulatory requirements. The total depth of 14,750 feet was reached at 09:31 on Saturday morning. Figure 2 is a schematic showing the well construction to date.

Geology Oversight

Drilling of the open-hole portion of the well began at a depth of 13,622 feet, approximately 15-17 feet into the Devonian, at 6:30 on December 9, 2016. Formations and formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

	<u>Formation</u>	Depth (kb)	Primary Lithology
•	Devonian	13,607 feet	Limestone
•	Silurian (Wristen)	13,787 feet	Limestone
•	Silurian (Fusselman)	13,950 feet	Limestone
•	Ordovician (Montoya)	14,362 feet	Dolomite and Chert

The open-hole (injection zone) of the mud log is provided as an attachment. Following the running of geophysical logs in the injection zone, Geolex will select locations for sidewall coring.

Regulatory Oversight

Regulatory Oversight on Saturday, December 10, 2016 included the formal notification of total depth and the release of the drilling rig. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.





Geolex is also working to prepare the BLM sundry covering the open-hole logging, production casing, cement, CBL, and final drill-out. The end of well report is also being reviewed and updated.

Reported by: Alberto A. Gutierrez, RG, Michael W. Selke, RG, Jared Smith, and Dale Littlejohn, Geolex, Inc.



Figure 1 – Open Hole Logging in Injection Zone





Date: 12/11/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Sunday, December 11, 2016, Geolex Oversite consisted of monitoring geophysical logging open-hole (injection) portion of the well in order to determine the depths for sidewall coring, and overseeing the sidewall coring. The geophysical logging was completed at 19:30 on Sunday December 11, 2016. As of 06:00 on December 12, 2016 the side wall coring was progressing. Remaining activities include setting the bridge plug and preparing the hole for rig mobilization. Figure 1 is a schematic showing the well construction to date.

Geology Oversight

Drilling of the open-hole portion of the well began at a depth of 13,622 feet, approximately 15-17 feet into the Devonian, at 6:30 on December 9, 2016. Total depth of 14,750 feet was achieved at 09:48 on December 10, 2016. Formations and formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

Formation	Depth (kb)	<u>Primary Lithology</u>
 Devonian 	13,625 feet	Limestone
• Silurian (Wristen)	13,797 feet	Limestone
 Silurian (Fusselman) 	13,972 feet	Limestone
 Ordovician (Montoya) 	14,371 feet	Dolomite and Chert

Regulatory Oversight

No specific Regulatory Oversight on was conducted on Sunday, December 11, 2016. Figure 2 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.





Geolex is also working to prepare the BLM sundry covering the open-hole logging, production casing, cement, CBL, and final drill-out. The end of well report is also being reviewed and updated.

Reported by: Alberto A. Gutierrez, RG, Michael W. Selke, RG, Jared Smith, and Dale Littlejohn, Geolex, Inc.



Figure 1 – Open Hole Logging in Injection Zone





Date: 12/12/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Monday, December 12, 2016, Geolex Oversite consisted of overseeing the sidewall coring. The core results were photographed and handed over to Schlumberger for delivery to Weatherford Laboratories in Midland, Texas. Schlumberger was released from the site. The bridge plug was set in place, and the rig began demobilization procedures. Figure 1 is a schematic showing the well construction to date.

Geology Oversight

Total depth of 14,750 feet was achieved at 09:48 on December 10, 2016. Sidewall cores were collected in the injection zone. These cores are being sent to Weatherford Laboratories to test for reservoir parameters (e.g. porosity, permeability, water saturation etc.). Formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

Formation	Depth (kb)	Primary Lithology
 Devonian 	13,625 feet	Limestone
• Silurian (Wristen)	13,797 feet	Limestone
 Silurian (Fusselman) 	13,972 feet	Limestone
 Ordovician (Montoya) 	14,371 feet	Dolomite and Chert

Regulatory Oversight

No specific Regulatory Oversight on was conducted on Monday, December 12, 2016. Figure 2 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.





No other support activities occurred during this time.





Date: 12/13/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Tuesday, December 13, 2016, Geolex Oversite consisted of overseeing the demobilization of the Scandrill Freedom rig (Figure 2) and preparing for completion procedures. Regulatory oversight consisted of a visit to the New Mexico Oil and Gas Conservation Division (NMOCD) headquarters in Hobbs, New Mexico to visit with Maxey Brown about the completion process.

Geology Oversight

Total depth of 14,750 feet was achieved at 09:48 on December 10, 2016. Formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

Formation	Depth (kb)	<u>Primary Lithology</u>
 Devonian 	13,625 feet	Limestone
• Silurian (Wristen)	13,797 feet	Limestone
 Silurian (Fusselman) 	13,972 feet	Limestone
 Ordovician (Montoya) 	14,371 feet	Dolomite and Chert

Regulatory Oversight

On Tuesday, December 13, 2016 Jared Smith visited with Maxey Brown at the NMOCD to discuss upcoming completion activities for Zia AGI D #2. Maxey had no questions or concerns moving forward. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.





No other support activities occurred during this time.

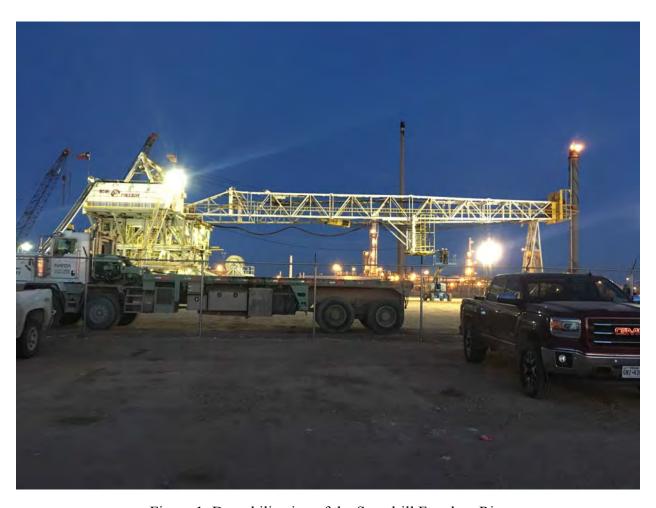


Figure 1: Demobilization of the Scandrill Freedom Rig.





Date: 12/14/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Wednesday, December 14, 2016, Geolex Oversite consisted of overseeing the demobilization of the final drilling equipment from the site (Figure 1), and mobilization of the workover rig in the early morning on Thursday, December 15, 2016. Regulatory oversight consisted of discussions with the Bureau of Land Management (BLM) petroleum engineer Paul Swartz about completion procedures.

Geology Oversight

Total depth of 14,750 feet was achieved at 09:48 on December 10, 2016. See Figure 2 for the final well design and formation tops that were encountered. Formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

Formation	Depth (kb)	Primary Lithology
 Devonian 	13,625 feet	Limestone
• Silurian (Wristen)	13,797 feet	Limestone
 Silurian (Fusselman) 	13,972 feet	Limestone
 Ordovician (Montoya) 	14,371 feet	Dolomite and Chert

Regulatory Oversight

On Wednesday, December 14, 2016 Geolex discussed upcoming completion activities with Paul Swartz (BLM). Geolex has reviewed the preliminary Conditions of Approval (COA), made corrections, and awaiting final approval of the Completion Sundry NOI. Paul Swartz advised Geolex that the approved Completion Sundry will be made available today. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.





The end of well report is being reviewed and updated.



Figure 1: Demobilization of the Scandrill Freedom Rig. Zia AGI D #2 is in the foreground.





Date: 12/15/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Thursday, December 15, 2016, Geolex Oversite consisted of witnessing the mobilization of the workover rig, initiation of the completion procedures, and tagging bottom (Figure 1). Regulatory oversight consisted of discussions with Paul Swartz, Bureau of Land Management (BLM), addressing his concerns about the completion procedures. Geolex was able to provide Mr. Swartz with the appropriate information to clear up his concerns, and get his final approval for the completion Sundry Notice of Intent (NOI – Attachment 1). Geolex also received the approved Sundry NOI for the production casing (Attachment 2).

Geology Oversight

Total depth of 14,750 feet was achieved at 09:48 on December 10, 2016. See Figure 2 for the final well design and formation tops that were encountered. Formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

Formation	Depth (kb)	<u>Primary Lithology</u>
 Devonian 	13,625 feet	Limestone
• Silurian (Wristen)	13,797 feet	Limestone
 Silurian (Fusselman) 	13,972 feet	Limestone
 Ordovician (Montoya) 	14,371 feet	Dolomite and Chert

Regulatory Oversight

On Thursday, December 15, 2016 Geolex discussed upcoming completion activities with Paul Swartz (BLM). Geolex has reviewed the preliminary Conditions of Approval (COA), made corrections, and received the final approval of the Completion Sundry NOI from the BLM (Attachment 1). Geolex also received the final approval for the production casing Sundry NOI (Attachment 2). Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.





The end of well report is being reviewed and updated. Compilation of the no recoverable hydrocarbons Sundry NOI is being reviewed and compiled.



Figure 1: Workover rig in place and ready to begin completion procedures.





Date: 12/16/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Friday, December 16, 2016, Geolex Oversite consisted of witnessing tripping-in-the-hole (TIH) to drill out the composite plug (Figure 1). At approximately 15:30 the workover rig shut down due to unsafe high winds. No regulatory oversight was conducted during this time period. Geolex continued to work with the Company Man (Gary Henrich - EPI) to discuss upcoming events and activities.

Geology Oversight

Total depth of 14,750 feet was achieved at 09:48 on December 10, 2016. See Figure 2 for the final well design and formation tops that were encountered. Formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

	<u>Formation</u>	Depth (kb)	Primary Lithology
•	Devonian	13,625 feet	Limestone
•	Silurian (Wristen)	13,797 feet	Limestone
•	Silurian (Fusselman)	13,972 feet	Limestone
•	Ordovician (Montoya)	14,371 feet	Dolomite and Chert

Regulatory Oversight

Geolex continued to discuss upcoming events with Gary Henrich concerning BLM regulatory procedures. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.





The end of well report is being reviewed and updated. Compilation of the no recoverable hydrocarbons Sundry NOI is being reviewed and compiled.



Figure 1: Preparing to trip in hole to drill out composite plug.





Date: 12/16/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Saturday, December 17, 2016, Geolex Oversite consisted of witnessing tagging bottom with the drill bit at approximately 14,737 feet (Figure 1). The workover rig shut down for several hours due to unsafe high winds. After tagging bottom the workover rig began pulling out of the hole (POOH) and standing the work string pipe. By the end of day there was 2,900 feet of pipe to be pulled out. No regulatory oversight was conducted during this time period. Geolex continued to work with the Company Man (Gary Henrich - EPI) to discuss upcoming events and activities.

Geology Oversight

Total depth of 14,750 feet was achieved at 09:48 on December 10, 2016. See Figure 2 for the final well design and formation tops that were encountered. Formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

Formation	Depth (kb)	Primary Lithology
 Devonian 	13,625 feet	Limestone
• Silurian (Wristen)	13,797 feet	Limestone
• Silurian (Fusselman)	13,972 feet	Limestone
 Ordovician (Montoya) 	14,371 feet	Dolomite and Chert

Regulatory Oversight

Geolex continued to discuss upcoming events with Gary Henrich concerning BLM regulatory procedures. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.





The end of well report is being reviewed and updated. Compilation of the no recoverable hydrocarbons Sundry NOI is being reviewed and compiled.



Figure 1: Standing Pipe at Workover Rig. Ready to TIH with Packer.





Date: 12/18/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Sunday, December 18, 2016, Geolex Oversite consisted of witnessing the remaining workstring being pulled out of the hole, connecting the packer, and setting the top of the packer at 10,015 feet (Figure 1). The workover rig shut down intermittently due to freezing temperatures and ice forming around the BOP stack. By the end of the day, the BOP had been tested and the well was shut-in. Schlumberger pressure-temperature (P/T) gauges will be run on Monday, December 18, 2016. The OPTICall continues slickline will not be run for the P/T measurements. Instead, a regular slickline will be run that stops at determined points to collect gradient P/T data. Geolex has determined these points for Schlumberger based on porosity and sidewall core points.

No regulatory oversight was conducted during this time period. Geolex continued to work with the Company Man (Gary Henrich - Concho) to discuss upcoming events and activities.

Geology Oversight

Total depth of 14,750 feet was achieved at 09:48 on December 10, 2016. See Figure 2 for the final well design and formation tops that were encountered. Formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

	<u>Formation</u>	Depth (kb)	<u>Primary Lithology</u>
•	Devonian	13,625 feet	Limestone
•	Silurian (Wristen)	13,797 feet	Limestone
•	Silurian (Fusselman)	13,972 feet	Limestone
•	Ordovician (Montoya)	14,371 feet	Dolomite and Chert





Regulatory Oversight

Geolex continued to discuss upcoming events with Gary Henrich concerning BLM regulatory procedures. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

The end of well report is being reviewed and updated. Compilation of the no recoverable hydrocarbons Sundry NOI is being reviewed and compiled.



Figure 1: Ready to TIH with Packer.





Date: 12/20/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Monday, December 19, 2016, Geolex Oversite consisted of selecting depth segmented points for the gradient pressure-temperature (P/T) survey conducted by Schlumberger. The P/T survey consisted of a regular slickline, and took the majority of the day to complete (figure 1). Further activities consisted of a meeting with Halliburton to review and discuss their P/T injection gauge that will be placed above the permanent packer. Swabbing will start on Tuesday, December 20, 2016. No regulatory oversight was conducted during this time period. Geolex continued to work with the Company Man (Gary Henrich - Concho) to discuss upcoming events and activities.

Geology Oversight

Total depth of 14,750 feet was achieved at 09:48 on December 10, 2016. See Figure 2 for the final well design and formation tops that were encountered. Formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Devonian	13,625 feet	Limestone
•	Silurian (Wristen)	13,797 feet	Limestone
•	Silurian (Fusselman)	13,972 feet	Limestone
•	Ordovician (Montoya)	14,371 feet	Dolomite and Chert

Regulatory Oversight

Geolex continued to discuss upcoming events with Gary Henrich concerning BLM regulatory procedures. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.





The end of well report is being reviewed and updated. Compilation of the no recoverable hydrocarbons Sundry NOI is being reviewed and compiled.



Figure 1: Schlumberger running P-T slickline.





Date: 12/20/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Tuesday, December 20, 2016, Geolex Oversite consisted of witnessing swabbing procedures and collecting preliminary samples (Figure 1). There were approximately 300 bbls. collected by the end of the day. Regulatory oversite consisted of giving 24 hour notice to Paul Swartz (BLM) for collecting swab samples. Geolex continued to work with the Company Man (Gary Henrich - Concho) to discuss upcoming events and activities.

Geology Oversight

Total depth of 14,750 feet was achieved at 09:48 on December 10, 2016. See Figure 2 for the final well design and formation tops that were encountered. Formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

	<u>Formation</u>	Depth (kb)	Primary Lithology
•	Devonian	13,625 feet	Limestone
•	Silurian (Wristen)	13,797 feet	Limestone
•	Silurian (Fusselman)	13,972 feet	Limestone
•	Ordovician (Montoya)	14,371 feet	Dolomite and Chert

Regulatory Oversight

On Tuesday, December 20, 2016 Geolex called Paul Swartz at 08:25 to give him 24 hour notice of collecting swab samples. Paul will be onsite at 10:00 on December 21, 2016 to witness the procedure and to observe the site and workover process. Paul informed Jared Smith that if he is not onsite for the last 100 bbls. to go ahead and collect samples.





Geolex continued to discuss upcoming events with Gary Henrich concerning BLM regulatory procedures. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

Compilation of the no recoverable hydrocarbons Sundry NOI is being reviewed and compiled.



Figure 1: Swab sample collected at approximately 16:00 on December 20, 2016. Sample is dirty with a methane-type odor and a very thin milky-sheen on the surface.





Date: 12/21/16 to 12/26/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Wednesday, December 21, 2016, Geolex Oversite consisted of witnessing the final swabbing procedures and collecting laboratory sample to support the "No Recoverable Hydrocarbons" assessment for the BLM. Figure 1A is from sample No.6 at 470 bbls and Figure 1B is from sample No. 10 at 515 bbls. Following the sampling procedure the workover crew was released until December 26, 2016.

The mud log, evaluation of the open hole geophysical logs, and the laboratory analysis of total petroleum hydrocarbons were all supportive of the "No Recoverable Hydrocarbons" determination and a BLM Sundry to that effect was submitted to WIS web site on December 22, 2016. The water chemistry laboratory analyses are still pending as of 06:00 on December 27, 2016.

On Monday, December 26, 2016, and attempt was made to acidize the open-hole portion of the well. While pumping acid at a rate of 10 barrels per minute with a treatment pressure of approximately 2,700 psi, an apparent failure of the tubing or packer occurred and the injection fluid was switched back to water. The pressures were maintained to force the remaining acid into the open hole in order to protect the casing. Brine was used to keep the acid from reentering the casing and the packer and work string tubing were pulled to evaluate and test.

Geolex continued to work with the Company Man (Gary Henrich – Consultant to Concho) to discuss and prepare for upcoming events and activities.

Geology Oversight

Total depth of 14,750 feet was achieved at 09:48 on December 10, 2016. See Figure 2 for the final well design and formation tops that were encountered. Formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:





Formation	Depth (kb)	Primary Lithology
 Devonian 	13,625 feet	Limestone
Silurian (Wristen)	13,797 feet	Limestone
 Silurian (Fusselman) 	13,972 feet	Limestone
 Ordovician (Montoya) 	14,371 feet	Dolomite and Chert

Regulatory Oversight

On Wednesday, December 21, 2016, at approximately 08:30, Paul Swartz with the BLM Carlsbad office arrived on site to witness the collection of swab samples. He stayed for approximately 2 hours and was satisfied that no visible oil was present. Paul insisted, however that all 10 water sampled be analyzed separately rather than having composite samples prepared by the laboratory to extradite the results.

At 08:20 on Monday, December 26, 2016, Paul Swartz (BLM), Maxey Brown (NMOCD), and the BLM Hobbs Hotline were given a 24-hour notice of the Step-Rate Test planned for Tuesday morning, however once the acid job was aborted all of the regulators were informed via email of the delay.

Geolex continued to discuss upcoming events with Gary Henrich concerning BLM regulatory procedures. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

Compilation of the no recoverable hydrocarbons Sundry NOI is being reviewed and compiled.





Date: 12/28/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Wednesday, December 28, 2016, Geolex Oversite consisted of witnessing the acidizing of the open-hole injection zone. 87 bbls (tubing volume) of fresh water were pumped downhole prior to the acid. At approximately 10:43 Halliburton began pumping acid at 10.1 bbls/min while pressure increased. Pressure stabilized at approximately 2,300 psi, and acid entered the open-hole injection zone at approximately 2,350 psi. Salt was dropped into the hole at a rate of 5 bbls/min followed by water and the remaining salt (40 bags total). More acid was pumped downhole at a rate of 5 bbls/min at 253 psi; which was increased to 10 bbls/min at approximately 1,500 psi. The treating pressure increased as acid displaced salt water (357 bbls of acid) with no significant change in pressure. An additional 40 bags of salt were injected at 5 bbls/min, followed by acid at 10 bbls/min with no significant increase in pressure. The well was flushed with freshwater for 100 minutes at 10 bbls/min.

Regulator Oversite consisted of 24-hour notices to the BLM and NMOCD for the step rate test to be conducted on Thursday, December 29, 2016.

Geology Oversight

Total depth of 14,750 feet was achieved at 09:48 on December 10, 2016. See Figure 2 for the final well design and formation tops that were encountered. Formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Devonian	13,625 feet	Limestone
•	Silurian (Wristen)	13,797 feet	Limestone
•	Silurian (Fusselman)	13,972 feet	Limestone
•	Ordovician (Montoya)	14,371 feet	Dolomite and Chert





Regulatory Oversight

On Wednesday, December 28, 2016, the BLM and NMOCD were notified via e-mail. Paul Swartz (BLM) was notified vie phone call, and informed Geolex that he would not be on location to witness the SRT. However, Mr. Swartz wants Geolex to contact Stephen Bailey (BLM On-Call Inspector) on the following day to notify him of the step rate test.

Figure 2 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

No Other Support activities occurred during this time.





Date: 12/29/16

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On Thursday, December 29, 2016, Geolex Oversite consisted of witnessing and analyzing the successful step rate test (SRT – Figure 1). Following the SRT the Zia AGI D #2 was shut-in for the ten day fall-off test. The SRT was completed in ten steps with rates of 0.25 to 7.0 bbls/min. Each step lasted thirty minutes and the surface pressure was recorded every five minutes. Surface pressures ranged from 85 psi at 0.25 bbls/min to 1613 psi at 7.0 bbls/min. Following the ten day fall-off test regulatory forms will be submitted to the BLM and NMOCD for approval.

Regulator Oversite consisted of a notice to the BLM of the upcoming SRT on Thursday, December 29, 2016.

Geology Oversight

Total depth of 14,750 feet was achieved at 09:48 on December 10, 2016. See Figure 2 for the final well design and formation tops that were encountered. Formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

<u>Formation</u>	Depth (kb)	<u>Primary Lithology</u>
 Devonian 	13,625 feet	Limestone
• Silurian (Wristen)	13,797 feet	Limestone
 Silurian (Fusselman) 	13,972 feet	Limestone
 Ordovician (Montoya) 	14,371 feet	Dolomite and Chert

Regulatory Oversight

Regulator Oversite consisted of a notice to the Stephen Bailey (BLM-Hobbs Inspector) of the upcoming SRT on Thursday, December 29, 2016. Stephen Bailey indicated he may be on





location, but he never came to witness the SRT. Figure 3 is a summary of the regulatory notifications, major drilling events, and geologic observations to date.

Other Support Activities

No Other Support activities occurred during this time.





Date: 12/30/16 – 01/08/17

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

From December 29, 2016 to January 8, 2017 the Zia AGI D #2 well was shut-in for the ten day fall-off test. On January 8, 2017 Geolex witnessed the removal of the bottom-hole pressure gauge beginning at 07:30 (MST – Figure 1). The well was left with approximately 89 psi surface pressure in the 3 ½-inch tubing. Schlumberger will process and transmit the bottom-hole pressure data to DCP, Geolex and Concho by Monday, January 9, 2017. The SRT form 3160-5 will be submitted to the BLM this week when the down-hole pressure data has been evaluated by Geolex.

Geology Oversight

Total depth of 14,750 feet was achieved at 09:48 on December 10, 2016. See Figure 2 for the final well design and formation tops that were encountered. Formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

	<u>Formation</u>	Depth (kb)	<u>Primary Lithology</u>
•	Devonian	13,625 feet	Limestone
•	Silurian (Wristen)	13,797 feet	Limestone
•	Silurian (Fusselman)	13,972 feet	Limestone
•	Ordovician (Montoya)	14,371 feet	Dolomite and Chert

Regulatory Oversight

No other regulatory oversite occurred during this time. Figure 3 shows a summary of all major activities and regulatory oversight.





Other Support Activities

Other support activities consisted of work on the end of well Report and SRT sundry.





Figure 1: **Top**) Pulling out the bottom-hole pressure gauge. **Bottom**) Bottom-hole pressure gauge.





Date: 01/09/17

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On January 9, 2017 the completion rig finished setting up for upcoming completion procedures for the Zia AGI D #2 well. The completion finished pulling out of the hole with the work string and retrievable packer. A pre-completion meeting was held to discuss upcoming activities and procedures for installing the final injection tubing, permanent packer, subsurface safety valve, and surface facilities for Zia AGI D #2. Geolex has received all data (bottom-hole pressure and surface pressure) required to complete the step rate test (SRT) sundry, and is continuing to evaluate the results. The SRT form 3160-5 will be submitted to the BLM this week once all the data has been analyzed and interpreted.

Geology Oversight

Total depth of 14,750 feet was achieved at 09:48 on December 10, 2016. See Figure 1 for the final well design and formation tops that were encountered. Formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Devonian	13,625 feet	Limestone
•	Silurian (Wristen)	13,797 feet	Limestone
•	Silurian (Fusselman)	13,972 feet	Limestone
•	Ordovician (Montoya)	14,371 feet	Dolomite and Chert

Regulatory Oversight

Regulatory oversight consisted of analyzing the bottom-hole pressure, surface pressure and temperature surveys conducted across the injection zone for Zia AGI D #2. The final SRT 3160-5 form will be submitted to the BLM and a C-103 form will be submitted to the NMOCD once





the final SRT interpretations are made. Figure 2 shows a summary of all major activities and regulatory oversight.

Other Support Activities

No other support activites occurred during this time.





Date: 01/10/17

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Scandrill, Schlumberger, Halliburton, Selman, Nova Mud

Description of Activities

On January 10, 2017 the completion rig completed scrapping the 7-inch production casing for Zia AGI D #2 well. Geolex analyzed all step rate test (SRT) data and submitted the SRT 3160-5 form to the BLM. The results of the SRT test show good correlation between injection pressure/rate and formation pressure (Figure 1). Furthermore, there was no break-over point, which indicates formation parting pressures were not achieved during this SRT; even at the highest injection rate of 7.0 barrels per minute (Figure 2).

Geology Oversight

Total depth of 14,750 feet was achieved at 09:48 on December 10, 2016. See Figure 3 for the final well design and formation tops that were encountered. Formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

	Formation	Depth (kb)	Primary Lithology
•	Devonian	13,625 feet	Limestone
•	Silurian (Wristen)	13,797 feet	Limestone
•	Silurian (Fusselman)	13,972 feet	Limestone
•	Ordovician (Montoya)	14,371 feet	Dolomite and Chert

Regulatory Oversight

Regulatory oversight consisted of submitting the SRT 3160-5 form to the BLM. Mr. Paul Swartz (BLM) has been notified of the Sundry submittal. Figure 2 shows a summary of all major activities and regulatory oversight. Figure 4 shows a summary of all regulatory activities.

Other Support Activities





No other support activites occurred during this time.





Date: 01/14/17

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

Primary Contractors: Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Aries, Halliburton

Description of Activities

On January 11, 2017 the Aries rig completed the scrapping of the 7-inch production casing of Zia AGI D #2 well. A Halliburton wire line truck was used to run a gauging ring with gamma ray and casing collar locator on Thursday, January 12, 2017. The gauge ring became stuck in the 7-inch casing just below the proposed permanent packer setting depth and was pulled loose from the wire line approximately 1 foot above the tool. On January 13, 2017 rental tubing was delivered to the location and strapped to trip into the hole with fishing tools and subs. The fish was recovered on Saturday January 14th intact (Figure 1).

Following the recovery of the gauging ring tool, a bit and scraper tool was run into the hole to prepare the 7-inch casing for the permanent packer. Figure 2 is a schematic that depicts the current condition of the well.

Geology Oversight

Total depth of 14,750 feet was achieved on December 10, 2016. Formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

Formation		Depth (kb)	Primary Lithology	
•	Devonian	13,625 feet	Limestone	
•	Silurian (Wristen)	13,797 feet	Limestone	
•	Silurian (Fusselman)	13,972 feet	Limestone	
•	Ordovician (Montoya)	14,371 feet	Dolomite and Chert	

Regulatory Oversight

No regulatory oversight has been performed since the submittal of the Step-Rate Test 3160-5 form to the BLM. Several attempts to contact Mr. Paul Swartz (BLM) have been made to





expedite his approval of the outstanding sundries. Figure 3 shows a summary of all major activities and regulatory oversight.

Other Support Activities

No other support activities occurred during this time.



Figure 2 Recovered Halliburton Gauge Ring / CCL Tool





Date: 01/16/17 – 01/17/17

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Aries, Halliburton

Description of Activities

On Monday, January 16, 2017 the permanent packer was run and placed at 13,535 feet, 100 feet above the casing shoe (log depth-Figure 1). On January 17, 2017 the Aries rig and Franks Casing crew completed setting up to run the Halliburton Pressure/Temperature (P/T) sub unit and injection tubing. The P/T sub and injection tubing will begin to be installed on January 18, 2017.

Mr. Paul Swartz (with the BLM) was notified again on January 17, 2016 of the outstanding 3160-5 sundries that have been submitted. These include the step rate test (SRT) and no recoverable hydrocarbons sundries.

Geology Oversight

Total depth of 14,750 feet was achieved on December 10, 2016. Figure 2 shows the as-built well design and formations encountered during drilling. Formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

]	<u>Formation</u>	Depth (kb)	<u>Primary Lithology</u>
•]	Devonian	13,625 feet	Limestone
• (Silurian (Wristen)	13,797 feet	Limestone
• (Silurian (Fusselman)	13,972 feet	Limestone
• (Ordovician (Montoya)	14,371 feet	Dolomite and Chert

Regulatory Oversight

No regulatory oversight has been performed since the submittal of the SRT 3160-5 form to the BLM. Further attempts to contact Mr. Paul Swartz (BLM) have been made to expedite his approval of the outstanding sundries (SRT and No Recoverable Hydrocarbons). Mr. Swartz





informed Geolex he will review the outstanding sundries on January 18, 2017. Figure 3 shows a summary of all major activities and regulatory oversight.

Other Support Activities

No other support activities occurred during this time.



Figure 1: Halliburton Permanent Packer, which was placed at 13,535 feet.





Date: 01/18/17

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Aries, Halliburton

Description of Activities

On Wednesday, January 18, 2017 Halliburton, Aries Rig and Franks Casing crew installed the injection pressure/temperature (P/T) gauge and began installing the injection tubing (Figure 1). All of the corrosion resistant alloy (CRA) tubing, which rests above the packer and P/T gauge, has been installed. Furthermore, the steel tubing started being installed. Each tubing connection was externally hydro-tested (Gatorhawk) to 5,000 psig. The P/T gauge data line was clamped to the outside of each tubing string by Halliburton. The rest of the tubing is anticipated to be completed on Friday, January 19, 2017.

Geology Oversight

Total depth of 14,750 feet was achieved on December 10, 2016. Figure 2 shows the as-built well design and formations encountered during drilling. Formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

Formation	Depth (kb)	Primary Lithology
 Devonian 	13,625 feet	Limestone
• Silurian (Wristen)	13,797 feet	Limestone
 Silurian (Fusselman) 	13,972 feet	Limestone
 Ordovician (Montoya) 	14,371 feet	Dolomite and Chert

Regulatory Oversight

No regulatory oversight was conducted during this time. Figure 3 shows a summary of all major activities and regulatory oversight.





Other Support Activities

Other support activities consisted of work on the training and maintenance presentation/manual for the AGI system and end of well report.



Figure 1: P/T gauge being installed.





Date: 01/19/17

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Aries, Halliburton

Description of Activities

On Thursday, January 19, 2017 Halliburton, Aries Rig and Franks Casing crew continued installing the carbon steel injection tubing. Each tubing connection was externally hydro-tested (Gatorhawk) to 5,000 psig. The P/T gauge data line was clamped to the outside of each tubing string by Halliburton. The rest of the tubing is anticipated to be completed on the evening of Friday, January 19, 2017 or morning of Saturday January 20, 2017.

Geology Oversight

Total depth of 14,750 feet was achieved on December 10, 2016. Figure 1 shows the as-built well design and formations encountered during drilling. Formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

Formation	Depth (kb)	Primary Lithology
 Devonian 	13,625 feet	Limestone
• Silurian (Wristen)	13,797 feet	Limestone
 Silurian (Fusselman) 	13,972 feet	Limestone
 Ordovician (Montoya) 	14,371 feet	Dolomite and Chert

Regulatory Oversight

No regulatory oversight was conducted during this time. Figure 2 shows a summary of all major activities and regulatory oversight.

Other Support Activities

Other support activities consisted of work on the training and maintenance presentation/manual for the AGI system and end of well report.









Date: 01/20/17

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Aries, Halliburton

Description of Activities

On Friday, January 20, 2017 Halliburton, Aries Rig and Franks Casing crew continued installing the carbon steel injection tubing. Each tubing connection was externally hydro-tested (Gatorhawk) to 5,000 psig. The P/T gauge data line was clamped to the outside of each tubing string by Halliburton. There were approximately 84 strings of tubing left on the rack at days end (Figure 1). The rest of the tubing is anticipated to be completed on the morning of Saturday January 20, 2017.

Geology Oversight

Total depth of 14,750 feet was achieved on December 10, 2016. Figure 2 shows the as-built well design and formations encountered during drilling. Formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

Formation	Depth (kb)	Primary Lithology
 Devonian 	13,625 feet	Limestone
• Silurian (Wristen)	13,797 feet	Limestone
 Silurian (Fusselman) 	13,972 feet	Limestone
 Ordovician (Montoya) 	14,371 feet	Dolomite and Chert

Regulatory Oversight

Geolex contacted Mr. Paul Swartz about the outstanding sundries that were submitted. These include the step rate test (SRT) and no recoverable hydrocarbons sundries. Geolex answered all of Mr. Swartz's questions pertaining to the SRT, and Mr. Swartz indicated he would get through the review process today. Figure 3 shows a summary of all major activities and regulatory oversight.

Other Support Activities





Other support activities consisted of work on the end of well report and reviewing reservoir properties.

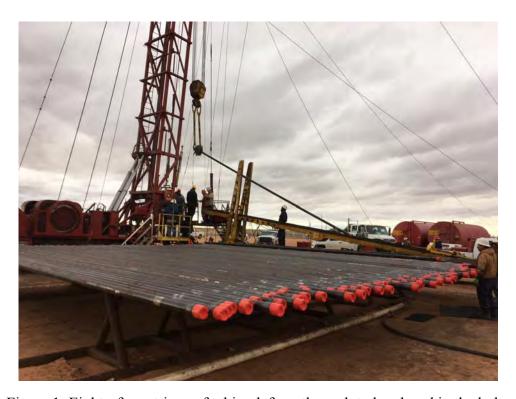


Figure 1: Eighty-four strings of tubing left on the rack to be placed in the hole.





Date: 01/21/17

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Aries, Halliburton

Description of Activities

On Saturday, January 21, 2017 Halliburton, Aries Rig and Franks Casing crew installed the subsurface safety valve (SSSV) to 277 feet and final joint of carbon steel injection tubing. Each tubing connection was externally hydro-tested (Gatorhawk) to 5,000 psig. The P/T gauge and SSSV data lines were clamped to the outsides of each tubing string by Halliburton. The tubing was successfully stabbed into the packer, and then released for pumping the corrosion-inhibiting diesel down the annulus. Approximately 206 bbls of diesel were pumped during this time before operations were halted due to a malfunction at the workover-tree. The remaining diesel will be pumped, the final tree will be installed and a preliminary mechanical integrity test will be conducted tomorrow (Sunday, January 22, 2017).

Geology Oversight

Total depth of 14,750 feet was achieved on December 10, 2016. Figure 1 shows the as-built well design and formations encountered during drilling. Formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

Formation	Depth (kb)	<u>Primary Lithology</u>
 Devonian 	13,625 feet	Limestone
• Silurian (Wristen)	13,797 feet	Limestone
 Silurian (Fusselman) 	13,972 feet	Limestone
 Ordovician (Montoya) 	14,371 feet	Dolomite and Chert

Regulatory Oversight

No Regulatory Oversight occurred during this time. Figure 2 shows a summary of all major activities and regulatory oversight.

Other Support Activities





No Other Support Activities Occurred during this time.





Date: 01/22/17

Well Information

Operator: DCP Midstream LP

Name: Zia AGI #D2 API #30-025-42207

Location: Section 19, T19S, R32E, Lea County, NM

<u>Primary Contractors:</u> Concho, Geolex, Inc. (Inspection, Geologic and Regulatory Supervision)

Primary Subcontractors: Aries, Halliburton

Description of Activities

On Sunday, January 22, 2017 Aries Rig and Halliburton filled up the annulus with the remaining corrosion and biocide inhibiting diesel. Following this, the tubing hanger was landed and the Christmas tree was installed (Figure 1). Temporary surface connections were made for the Halliburton P/T gauge data line. The subsurface safety valve (SSSV) was left closed, and needs pressured applied to tits hydraulic line in order to open it. A successful preliminary mechanical integrity test (MIT) was conducted. This test began with approximately 633 psig on the backside, and increased to 691 psig, where it then leveled off around 655 psig (all pressures are within 10 % +/- of starting pressure). The backside pressure was left at approximately 290 psig. The official MIT is scheduled for Wednesday, January 25, 2017. This should allow enough time for the diesel in the backside to equilibrate. A final as-built well schematic is located in Figure 2.

Geology Oversight

Total depth of 14,750 feet was achieved on December 10, 2016. Figure 2 shows the as-built well design and formations encountered during drilling. Formation tops that were encountered during the drilling of the open-hole portion of the well are as follows:

Formation	Depth (kb)	Primary Lithology
 Devonian 	13,625 feet	Limestone
• Silurian (Wristen)	13,797 feet	Limestone
• Silurian (Fusselman)	13,972 feet	Limestone
 Ordovician (Montoya) 	14,371 feet	Dolomite and Chert

Regulatory Oversight

No Regulatory Oversight occurred during this time. Figure 3 shows a summary of all major activities and regulatory oversight.





Other Support Activities

No Other Support Activities occurred during this time.



Figure 1: Christmas tree installed. Halliburton is making final adjustment to P/T gauge data line.

Figure 2: DCP Zia AGI D #2 As-Built Well Schematic

Zia AGI D #2 Well Name: 30-025-42207 API:

STR: Sec. 19(L), T19S-R32E

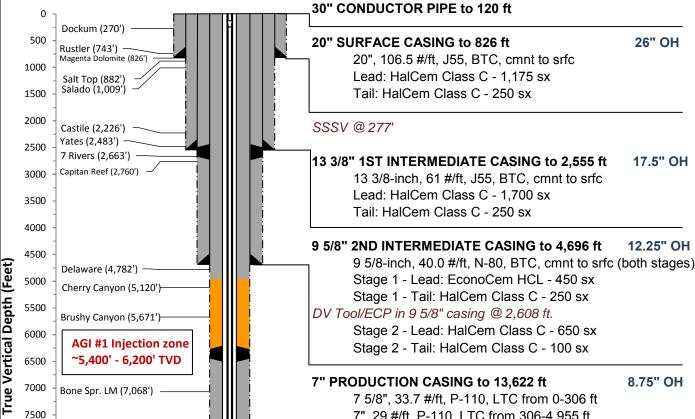
County, St.: Lea County, New Mexico

1893' FSL & 950' FWL Footage:

Well Type: Devonian AGI Expl.

3574'/3547' KB/GL:

32.643950, -103.777782 Lat, Long:



7", 29 #/ft, P-110, LTC from 306-4,955 ft

7" 32 #/ft, V-110 Vallourec VAM from 4,955 to 6,346 ft

7", 29 #/ft, P-110, LTC from 6,363 to 13,329 ft

7", 32#/ft, V-110 Vallourec VAM from 13,329 to 13,622 ft Cmnt to srfc on both stages

Stage 1 - Lead: Tuned Light Cement - 770 sx

Stage 1 - Tail: Well Lock Resin - 20 bbls

DV Tool in 7-in casing @ 6,346 ft (top)

Stage 2 - Lead: Tuned Light Cement - 420 sx

Stage 2 - Tail: Well Lock Resin - 80 bbls

TUBING & EQUIPMENT:

411 jts, 3.5", 9.3 #/ft, L80, BTS-8 from 0-13,197 ft Halliburton Retrievable SSSV set @ 277 ft

9 jts, 3.5", 9.2 #/ft, Inconel G3 VAM Top from 13,200 - 13,518

HAL ROC P/T Gauge set @ 13, 526 ft

Halliburton BWD Permanent Packer set @ 13,535 ft

Check valve (placed in nipple below packer)

Annulus filled with 500 bbls diesel mixed with 1% (5 bbls)

Baker CRO 381 corrosion inhibitor

Morrow (11,927') -12000 12500 Chester (12,548') -Barnett (12,765') Osage (12,929') 13000 Woodford (13.499') 13500 Devonian (13,625') Wristen (13,797') 14000 Fusselman (13,972') — Montoya (14,371') 14500 15000 TD at 14.750 feet Schematic is properly scaled

8000

8500

9000

9500

10000

10500

11000

11500

1st BS Sand (8,331')

Wolfcamp (10,425')

Cisco (10,931')

Strawn (11,178')

Atoka (11,608') -

TD Location: Sec. 19, T19S-R32E (1963' FSL & 1024' FWL)





	Fig	ure 3 - Ge	olex Cumulative Dail		nary Report
DCP Zia AGI #D2 API # 30-025-42207			DATE	1/22/2017	
Cumulative Daily Progress Report and S	cheduled Events				
Notifications	Date	Time (MST)	Persons Notified	Responsible Person(s)	Result
24 hour BLM Spud Notification	Monday, October 31, 2016	11:26	BLM Hotline, 575-393-3612, Christie Pruitt	Dale Littlejohn	Required notification accepted by BLM.
Incoming call from Teungku Muchlis Krueng BLM	Monday, October 31, 2016	14:07	Call received by Michael W. Selke	Michael W. Selke	Teungku Muchlis Krueng wanted know why we changed Zia AGI #2, to #2D and finally to #D2 and Michael W Selke explained that DCP wanted the #2D designation but NMOCD had problems with #2D so it had been decide that all could accept the #D2 designation. However the name change will have to be included in the 3160-5 subsequent sundry for the surface casing string.
4 hour BLM Spud Notification	Tuesday, November 1, 2016	8:59	Called Teungku Muchlis Krueng at Carlsbad BLM	Michael W. Selke	Mike Selke notified Teungku Muchlis Krueng at Carlsbad BLM 4 hour notice to spud Zia AGI #D2. Also discussed completing the surface casing in Magenta or below but being careful to not get near the salt beds below.
4 hour BLM Spud Notification	Tuesday, November 1, 2016	9:32	Called Hobs Hotline at Hobbs BLM	Michael W. Selke	Mike Selke notified Christie of hour notice to spud Zia AGI #D2.
4 hour BLM Spud Notification	Tuesday, November 1, 2016	9:39	Called John Staton at Hobbs BLM	Michael W. Selke	Mike Selke notified John Stanton of hour notice to spud Zia AGI #D2.
Phone conference with BLM, Geolex and Concho	Tuesday, November 1, 2016	11:42	Teungku Muchlis Krueng at the BLM, Tim Smith at Concho, and Geolex team	Jared R. Smith	Tim Smith discovered the Freedom rig is not setup to attach a 10M 3 choke manifold system. It was agreed upon (by the BLM, Geolex, and Concho) that a 5M 2 choke manifold system will be acceptable for the 9 5/8-inch hole.
Submitted sundry	Wednesday, November 2, 2016	9:39	WIS System	Jared R. Smith	Submitted sundry to BLM for change in 9 5/8" casing 10M BOP system to5M BOP System.
Call to Teungku Muchlis Krueng at Carlsbad BLM	Wednesday, November 2, 2016	9:25	Teungku Muchlis Krueng at the Carlsbad BLM	Michael W. Selke	M Selke called Teungku Muchlis Krueng at Carlsbad BLM to provide update on Zia AGI #2D which was approximately half way to 825. Teungku Muchlis Krueng was OK with 825' TD but wants to be sure the casing seat is in a competent unit.
Call from Teungku Muchlis Krueng at Carlsbad BLM	Wednesday, November 2, 2016	0:48	Call from Teungku Muchlis Krueng at Carlsbad BLM	Jared R. Smith	J Smith received call from Teungku Muchlis Krueng to revise sundry for Zia AGI #2D 5M BOP to include 3 rams instead of 2.
Notification to BLM of spud for Zia AGI #2D	Wednesday, November 2, 2016	12:43	Called John Staton at Hobbs BLM	Michael W. Selke	Notified John Staton at Hobbs BLM that Zia AGI #2D spudded and was at 405' and TD should be later today and will call when closer. Also gave directions to plant.
Sundry submittal for changing BOP	Wednesday, November 2, 2016	19:45	WIS System	Jared R. Smith	Submitted sundry to BLM for change in 9 5/8" casing 10M BOP system to 5M BOP System to include 3 rams instead of 2 rams.
Update to John Staton	Thursday, November 3, 2016	10:22	Texted John Staton Hobbs BLM	Michael W. Selke	Texted John Staton of the successful Zia AGI #2D TD last night but the rig was now down for repair.
4 hour notification to Hobbs BLM to run casing	Thursday, November 3, 2016	13:38	Called John Staton at Hobbs BLM	Michael W. Selke	M Selke called John Staton, Hobbs BLM, 4 hour advance notice to run surface casing in Zia AGI #D2 and he does plan to visit the site.
4 hour notification to Carlsbad BLM to run casing	Thursday, November 3, 2016	13:56	Called Teungku Muchlis Krueng at Carlsbad BLM	Michael W. Selke	M Selke called Teungku Muchlis Krueng, BLM, 4 hour advance notice to run surface casing in Zia AGI #D2 and he does plan to visit the site.
Update to BLM of delay in running casing	Thursday, November 3, 2016	16:58	Called John Stanton at Hobbs BLM	Michael W. Selke	M Selke called John Staton, Hobbs BLM, rig down for repair and not ready to run surface casing in Zia AGI #D2.
Update to BLM of delay in running casing	Thursday, November 3, 2016	18:39	Called John Staton at Hobbs BLM	Michael W. Selke	M Selke called John Staton, Hobbs BLM, rig down for repair again and not ready to run surface casing in Zia AGI #D2.
Call to BLM to witness surface casing setting and cement	Friday, November 4, 2016	2:38	Called John Staton at Hobbs BLM	Jared R. Smith	J Smith called John Staton, Hobbs BLM, to witness the surface casing setting and cement. John obtained the pipe tally and Halliburton Cement Report. He will return to watch the cement returns.
Received call from BLM on timing of cementing on Zia AGI #D2	Friday, November 4, 2016	7:47	John Staton, Hobbs BLM called to check status	Michael W. Selke	John Staton of the Hobbs BLM called M Selke checking status of the Zia AGI #D2 casing and cementing job - M Selke informed him that it would ready when he arrives or shortly after.
Notification to BLM for successful cementing of Zia AGI #D2	Friday, November 4, 2016	14:51	Teungku Muchlis Krueng	Michael W. Selke	M Selke notified Teungku Muchlis of the successful completion and cementing of the Zia AGI \$D2 surface casing and alerted him we will be calling in the early morning to review and obtain approval of the CBL. Teungku Muchlis. He stated that if there were good cement returns and no significant issues with the CBL that the BLM would not review it until Monday and we could proceed with the next planned steps including drilling out.
Call to BLM to omit choke manifold system on 2M BOP 17 1/2-inch borehole	Saturday, November 5, 2016	9:26	Carlsbad BLM Engineer Hotline	Jared R. Smith	J smith called the BLM Engineer Hotline (Charles Nimmer) to request not using a choke manifold on the 2M BOP system, and instead use a diverter line. Charles approved this request and asked for an e-mail with said request. E-mail was sent to Charles on Saturday, November 5, 2016 at 10:31.
4 hour advance notification to BLM for BOP/BOPE test and CIT	Saturday, November 5, 2016	13:29	Hobbs BLM Hotline	Michael W. Selke	M Selke called the Hobbs BLM Hotline multiple times and was unable to make contact and left messages with the Hotline representative.





4 hour advance notification to BLM for BOP/BOPE test and CIT	Saturday, November 5, 2016	14:38	Carlsbad BLM Engineer Hotline	Michael W. Selke	M Selke call the Carlsbad BLM Engineer Hotline and contacted Charles Nimmer who authorized proceeding to compete the testing and drill out of the shoe and proceed with the upper intermediate casing.
BLM called asking for status of testing	Sunday, November 6, 2016	13:45	John Staton, Hobbs BLM called to check status	Michael W. Selke	John Staton of the Hobbs BLM called M Selke checking status of the Zia AGI #D2 BOP/BOPE testing and the CIT. M Selke advised that the BOP/BOPE testing was complete and the CIT would be complete in the afternoon.
Called Carlsbad BLM re BOP test on surface casing	Monday, November 7, 2016	9:30	Teungku Muchlis Krueng	Michael W. Selke	M Selke called Teungku Muchlis, Carlsbad BLM to discuss results of surface casing BOP/BOPE testing and CIT. All tests good but there was one exception. On test #7 the Hydraulic IBOP the operator set the pressure below the 250 psi requirement. Battle was brought back out to the site and successfully retested #7. Teungku Muchlis was satisfied and stated he wanted us to submit him with the surface easing sundry. The next notification will be for setting casing and cementing.
Called Hobbs BLM to get name and number of the new on call inspector	Monday, November 7, 2016	10:45	Hobbs BLM	Michael W. Selke	M Selke called the Hobbs BLM Office to get contact information for this week's on call inspector: Stephen Baily 575-263-6452
Called Stephen Bailey, Hobbs BLM on call inspector	Monday, November 7, 2016	10:58	Stephen Bailey, Hobbs BLM on call inspector	Michael W. Selke	M Selke called Stephen Bailey, the new Hobbs BLM on call inspector, to discuss the retest of BOP test #7. All tests good but there was one exception. On test #7 the Hydraulic IBOP the operator set the pressure below the 250 psi requirement. Battle was brought back out to the site and successfully retested #7. Stephen was satisfied with the result and will pick up the chart on his next site visit. In addition, Stephen asked that we notify him when we reach TD in the upper intermediate casing and then he will tell us when he wants to come to the site to witness casing setting and cementing.
Stephen Baily, Hobbs BLM on call inspector	Tuesday, November 8, 2016	7:49	Stephen Bailey, Hobbs BLM on call inspector	Michael W. Selke	Stephen Bailey called M Selke asking for status of Zia AGI #D2. Currently tripping out the bit but should be drilling again after noon.
Called Teungku Muchlis Krueng	Tuesday, November 8, 2016	15:23	Teungku Muchlis Krueng	Michael W. Selke	M Selke called Teungku Muchlis, Carlsbad BLM, and notified him we plan to TD the upper intermediate casing at 2550' instead of 2600' because our correlation with AGI #1 shows
Called Stephen Baily, Hobbs BLM on call inspector	Tuesday, November 8, 2016	16:17	Stephen Bailey, Hobbs BLM on call inspector	Michael W. Selke	M Selke notified Stephen Bailey, Hobbs BLM On-Site Inspector, when the upper intermediate casing borehole reach TD at 2550°, as requested. He requested that the next notification be when there are 5 casing joints left to run.
Called Stephen Baily, Hobbs BLM on call inspector	Wednesday, November 9, 2016	7:17	Stephen Bailey, Hobbs BLM on call inspector	Jared R. Smith	J Smith updated Stephen Bailey on the status of the 1st intermediate casing. He would still like to be notified when there are 5 casing joints left to run.
Called Stephen Baily, Hobbs BLM on call inspector	Wednesday, November 9, 2016	12:09	Stephen Bailey, Hobbs BLM on call inspector	Jared R. Smith	J Smith notified Stephen Bailey that there were 5 casing joints left to run. He is in route to the site. Stephen Bailey arrived on site at 13:23 on 9 Nov 2016.
Called Stephen Baily, Hobbs BLM on call inspector	Wednesday, November 9, 2016	19:46	Stephen Bailey, Hobbs BLM on call inspector	Dale T. Littlejohn	D Littlejohn notified Stephen Bailey that the BOP would be pressure tested tomorrow morning around 8:00 am. He indicated that he would not be able to witness the pressure testing and to save a copy of the charts for him. He also indicated that no other notice was required for this event.
Correspondence with BLM	Thursday, November 10, 2016	9:55	Stephen Bailey, Hobbs BLM on call inspector	Jared R. Smith	Stephen Bailey requested a copy of the Halliburton Cement Report be emailed to him once we received it. This action has been completed.
Submitted Surface Casing Sundry	Thursday, November 10, 2016	13:07	Teungku Krueng, Muchlis	Jared R. Smith	Submitted the 3160-5 surface casing sundry report to the BLM WIS website, and a copy was emailed to Teungku Krueng, Muchlis.
Approval of 1st Intermediate Casing Cement Job and proceed with BOP Testing, CIT, and Drilling of 2nd Intermediate Borehole	Thursday, November 10, 2016	13:07	Teungku Krueng, Muchlis	Jared R. Smith	Teungku Muchlis Krueng was satisfied with the WOC Time (14:10+) and the volume of circulated cement (428 sx). Jared informed him that the Geolex staff believed the CBL indicated a good cement bond so he approved the continuation of drilling without inspecting the CBL.
Called Stephen Baily, Hobbs BLM on call inspector	Thursday, November 10, 2016	18:36	Stephen Bailey, Hobbs BLM on call inspector	Dale T. Littlejohn	D Littlejohn notified Stephen Bailey that the BOP pressure test was delayed until around 8:00 pm tonight. He indicated that he would not be able to witness the pressure testing and to save a copy of the charts for him.
Called Teungku Muchlis Krueng	Friday, November 11, 2016	9:00	Teungku Krueng, Muchlis	Jared R. Smith	J Smith called and left a message for Teungku Muchlis about the successful BOP/BOPE and CIT, and to inform him that we are proceeding to drill the 12 1/4-inch, 2nd intermediate borehole. No response was received.
Called Stephen Baily, Hobbs BLM on call inspector	Friday, November 11, 2016	11:45	Stephen Bailey, Hobbs BLM on call inspector	Jared R. Smith	J Smith called Stephen Bailey to discuss the results of the BOP/BOPE and CIT pressure tests, and to notify him that drilling is about to begin on the 12 1/4-inch borehole. Geolex's review of the BOP/BOPE and CIT pressure tests indicate good and successful tests. Stephen will pick up the results when he is onsite to witness the setting and cementing of the 2nd intermediate casing. In addition, Stephen asked that we notify him when we have completed the 1st stage cementing job so that he can witness 2nd stage cement returns
Sent text message to Stephen Baily, Hobbs BLM on call inspector	Saturday, November 12, 2016	17:00	Stephen Bailey, Hobbs BLM on call inspector	Dale T. Littlejohn	D Littlejohn texted Stephen Bailey to confirm TD of the 12 1/4-inch borehole and verify our planned notice following the 1st stage cementing job so that he can witness cement returns for the 2nd stage. Mr. Bailey affirmed to the text message.





Several phone calls and text messages to/from Stephen Baily, Hobbs BLM on call inspector, during the day to keep him aware of the activities. A final phone call was made to provide his requested notice	Sunday, November 13, 2016	18:44	Stephen Bailey, Hobbs BLM on call inspector	James Hunter and Dale T. Littlejohn	J Hunter exchanged text messages and phone calls with Stephen Bailey to keep him updated on the site operations. D Littlejohn provided a formal notification so that he could be present to witness cement returns for the 2nd stage. Mr. Bailey arrived on site at 21:00 and witnessed the circulation of 2nd stage cement to the surface.
Submitted 1st Intermediate Casing Sundry	Sunday, November 13, 2016	21:54	Teungku Krueng, Muchlis	Dale T. Littlejohn	Submitted the 3160-5 for 1st intermediate casing sundry report to the BLM WIS website, and a copy was emailed to Teungku Krueng, Muchlis once the initial processing was completed.
A text message was sent to Stephen Baily, Hobbs BLM on call inspector.	Monday, November 14, 2016	4:00	Stephen Bailey, Hobbs BLM on call inspector	Dale T. Littlejohn	D Littlejohn provided a notification concerning the pressure testing of the BOP/BOPE, which will be isolated from the casing. The CIT will be performed after the DV Tool has been drilled out for the CBL. When no response was made to the text message and phone call was made to Stephen Bailey who was rolling off of the hotline, but indicated the BLM would not likely be witnessing the tests.
Called Teungku Muchlis Krueng	Monday, November 14, 2016	15:42	Teungku Krueng, Muchlis	Dale T. Littlejohn	D Littlejohn called to determine Mr. Teungku Krueng's preference for a possible after-hours review of the 2nd intermdiate casing CBL. He indicated that because cement was circulated to the surface and witnessed by a BLM inspector that the quality of the cement bond could be determined by Geolex, relative to the continuation of drilling.
Meeting with BLM and Geolex in Carlssbad BLM Office	Friday, November 18, 2016	10:55	Teungku Muchlis Krueng	Michael W. Selke	Mike Selke, Geolex, visited the Carlsbad BLM Office and briefed their project engineer, Tuengku Muchlis Krueng (Seven), on the CBL for the lower intermediate casing cement job. Mr. Krueng agreed that the bonding inside the intervals of the surface casing and the upper intermediate casing was not particularly good. However, because there were good cement return for all three casing cement jobs and good CITs, along with multiple layers of casing and cement he was not concerned. He further agreed that the cement bonding in the lower intermediate casing below the bottom of the upper intermediate casing was mostly excellent. He will approve the CBL which will be included in the 3160-5 sundry to be submitted today or tomorrow.
Submitted 2nd Intermediate Casing Sundry	Friday, November 18, 2016	18:30	Teungku Krueng, Muchlis	Dale T. Littlejohn	Submitted the 3160-5 for 2nd intermediate casing sundry report to the BLM WIS website, and a copy was emailed to Teungku Krueng, Muchlis once the initial processing was completed.
Submited 1st Intermediate Casing Courtesy C- 103 to NMOCD	Tuesday, November 22, 2016	13:30	Maxey Brown	Michael W. Selke	Hand delivered courtesy C-103 for the 1st intermediate casing for the Zia AGI D #2 to the Hobbs OCD office.
Submited 2nd Intermediate Casing Courtesy C- 103 to NMOCD	Tuesday, November 22, 2016	13:30	Maxey Brown	Michael W. Selke	Hand delivered courtesy C-103 for the 2nd intermediate casing for the Zia AGI D #2 to the Hobbs OCD office.
Called Hobbs BLM Engineer Teungku Muchlis Krueng	Tuesday, November 29, 2016	13:15	Teungku Muchlis Krueng, Hobbs BLM Engineer	Michael W. Selke	M. Selke called Teungku Muchlis Krueng to discuss the seating depth of the production casing, and possibly completing in the Woodford. Muchlis said it would be acceptable to complete in the Woodford
Called Hobbs BLM Engineer Teungku Muchlis Krueng	Thursday, December 1, 2016	10:40	Teungku Muchlis Krueng, Hobbs BLM Engineer	Dale T. Littlejohn	D. Littlejohn called Teungku Muchlis Krueng to provide an update concerning the running of the 2-inch casing and cement timing.
Called the Hobbs BLM hotline phone operator	Thursday, December 1, 2016	10:50	Hobbs BLM on call operator	Dale T. Littlejohn	D Littlejohn provided update and was told that John Staton would likely be the inspector on call for the 7-inch cement job. Should call back when we know more precisely the time of cementing.
Submitted NOI Sundry for Completion Procedure	Friday, December 2, 2016	16:20	Teungku Krueng, Muchlis	Dale T. Littlejohn	D Littlejohn submitted the 3160-5 for the completion procedure/prognosis NOI sundry report to the BLM WIS website, and a copy was emailed to Teungku Muchlis Krueng.
Called the Hobbs BLM hotline phone operator	Saturday, December 3, 2016	8:30	Hobbs BLM on call operator	Dale T. Littlejohn	D Littlejohn provided update to BLM-Hobbs inspector (John Staton), and was told that witnessing the cement returns for the production casing was not as high a priority as the surface and intermediate casing. They would therefore not be present to witness this operations and we should give them a call later as an update.
Email sent to BLM Engineer Teungku Muchlis Krueng	Sunday, December 4, 2016	03:36 & 16:39	Teungku Krueng, Muchlis	Jared R. Smith, Dale T. Littlejohn	J. Smith notified BLM Engineer of status with respect to 1st Stage cement and earlier conversations with BLM-Hobbs Inspector. D. Littlejohn updated the BLM Engineer following the completion of the cement job.
Email sent to BLM Engineer Teungku Muchlis Krueng	Wednesday, December 7, 2016	9:57	Teungku Krueng, Muchlis	Dale T. Littlejohn	D. Littlejohn notified BLM Engineer of status with respect to production casing CBL to be run later in the day.





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Called BLM Engineer Teungku Muchlis Krueng	Thursday, December 8, 2016	11:00	Teungku Krueng, Muchlis	Michael W. Selke	M. Selke called Teungku Muchlis Krueng to discuss the results of the cement bond logging of the production casing. He emailed the RCBL and then called to brief the results. Teungku approved the cement job with the requirement that a successful CIT be conducted before drilling out. Teungku summarized this in an email to M. Selke, Geolex.
Called BLM On-Call Engineer	Saturday, December 10, 2016	16:09	Carlsbad BLM Engineer Hotline	Dale T. Littlejohn	Gave formal notice of well TD and intentions to release drilling rig on Sunday or Monday
Visited the NMOCD office in hobbs	Tuesday, December 13, 2016	15:36	Maxey Brown	Jared R. Smith	J. Smith visited with Maxey Brown (NMOCD) to discuss upcomoing activities for the completion of Zia AGI D #2. Maxey had no questions or concerns, and is content with moving forward.
Submitted NOI Sundry for Production Casing	Wednesday, December 14, 2016	14:00	Paul Swartz	Jared R. Smith and Dale T. Littlejohn	D Littlejohn and J. Smith submitted the 3160-5 for the production csing NOI sundry report to the BLM WIS website, and a copy was emailed to Teungku Muchlis Krueng.
Called BLM Paul Swartz (BLM)	Wednesday, December 14, 2016	All Day	Paul Swartz	Jared R. Smith	J. Smith called Paul Swartz (BLM-10:57) concerning the status of the Completion NOI Sundry. Paul said it would be ready later in the morning or early afternoon. J. Smith called Paul Swartz again (15:28) to get an update on the status of the approval for the Completion Sundry. Paul had issues with using the workover string for the SRT, however, he was mistaken in why we were doing the SRT in the first place. Alberto notified Paul that we were doing it for reservoir analysis, and not for an increase to the MAOP, as Paul thought. Geolex has reviewed the COA's that Paul generated, and has made the appropriate corrections to them, per Paul's request. Still waiting on the approval from Paul Swartz at this time (12/15/2016, 08:40).
Called BLM Paul Swartz (BLM)	Thursday, December 15, 2016	All Day	Paul Swartz	Alberto A. Gutierrez	A. Gutierrez called Paul Swartz to discuss his concerns about the SRT and what equipment to use. Paul conceded that there was no need to use the permanent packer and final production tubing to run the SRT. Geolex will continue to monitor activity on the completion procedure, and confirm that all conditions of approval cited in the approved Completion Sundry are being followed.
24 hr. Notice to Paul Swartz (BLM) for Swabbing	Tuesday, December 20, 2016	8:25	Paul Swartz	Jared R. Smith	J. Smith called Paul Swartz (BLM) to give 24-hr. notice for collecting swab samples from the last 100 bbls. Paul said he will be on-site at 10:00 on 12/21/16. If we reach 400 bbls collected before Paul arrives, he said to go ahead and collect the 10 samples.
24 hr. Notice for Step Rate Testing	Monday, December 26, 2016	8:20	Paul Swartz (BLM-Carlsbad)	Dale T. Littlejohn	D Littlejohn called Paul Swartz (BLM) to give 24-hr notice of Step-Rate Test. Paul said he would not likely be present for the test.
24 hr. Notice for Step Rate Testing	Monday, December 26, 2016	8:27	Stephen Bailey (BLM-Hobbs)	Dale T. Littlejohn	D Littlejohn called Stephen Bailey (BLM) to give 24-hr notice of Step-Rate Test. Stephen said he would call me if he was in the area but would not likely be present for the test.
24 hr. Notice for Step Rate Testing	Monday, December 26, 2016	8:38	Maxey Brown (NMOCD)	Dale T. Littlejohn	D Littlejohn left message and Maxey Brown (NMOCD) returned the call to give 24-hr notice of Step-Rate Test.
Notice for Step Rate Testing Postponement	Monday, December 26, 2016	11:14	Maxey Brown (NMOCD) & Paul Swartz (BLM-Carlsbad)	Dale T. Littlejohn	D Littlejohn sent an email to both regulatorys concerning the postponement of the planned Step-Rate Test.
24 hr. Notice for Step Rate Testing	Wednesday, December 28, 2016	11:27	Maxey Brown (NMOCD) & Paul Swartz (BLM-Carlsbad)	Dale T. Littlejohn	D Littlejohn sent an email to both regulatory agencies for the step rate test. Paul Swartz was notified via phone call. Mr. Swartz informed Dale that he would not be on location to witness the SRT, but to call Stephen Bailey in the morning on Thursday, December 29, 2016 to update him on the status of the SRT.
Notice for Step Rate Testing	Thursday, December 29, 2016	7:40	Stephen Bailey (BLM-Hobbs Inspector)	Jared R. Smith	J. Smith called Stephen Bailey to inform him of the upcoming SRT. Mr. Bailey said he will be on location if he can make it.
Submitted SRT BLM Form 3160-5	Tuesday, January 10, 2017	3:25	Paul Swartz	Jared R. Smith	J Smith submitted the SRT 3160-5 to the BLM WIS website and email to Paul Swartz.
Notice of outstanding 3160-5 Sundries	Tuesday, January 17, 2017	10:18	Paul Swartz	Dale T. Littlejohn	D. Littlejohn notified Mr. Paul Swartz (BLM) of the outstanding 3160-5 Sundries, including the no recoverable hydrocarbons and SRT. Mr. Swartz informed D. Littlejohn he is very busy, and will review them on January 18, 2017, but would not guarantee this review date.
Notice of outstanding 3160-5 Sundries	Friday, January 20, 2017	9:54	Paul Swartz	Jared R. Smith	J. Smith called notified Mr. Paul Swartz (BLM) of the outstanding 3160-5 Sundries, including the no recoverable hydrocarbons and SRT. J. Smith answered Mr. Swart's questions about the SRT to his satisfaction, and Mr. Swartz indicated he will work on the SRT this morning. The NRH sundry looked good to Mr. Swartz.
Scheduled Events	Date	Time (MST)	Persons Notified	Responsible Person(s)	Result
SPUD	Tuesday, November 1, 2016	03:00	BLM and OCD have been notified	Geolex	Spudded well 2 Nov 16 at 03:00 - 3160-5 (BLM) and courtesy C-103 (NMOCD) forms will be submitted with the surface casing subsequent sundries.
Surface Hole TD	Wednesday, November 2, 2016	04:23	BLM has been notified	Geolex	TD was reached on 3 Nov 16 - 3160-5 (BLM) and courtesy C-103 (NMOCD) forms will be submitted with the surface casing subsequent sundries.
Cement Surface Casing	Friday, November 4, 2016	09:18	BLM and OCD	Geolex	Cementing complete 487 sacks returned to surface 3160-5 (BLM) and courtesy C-103



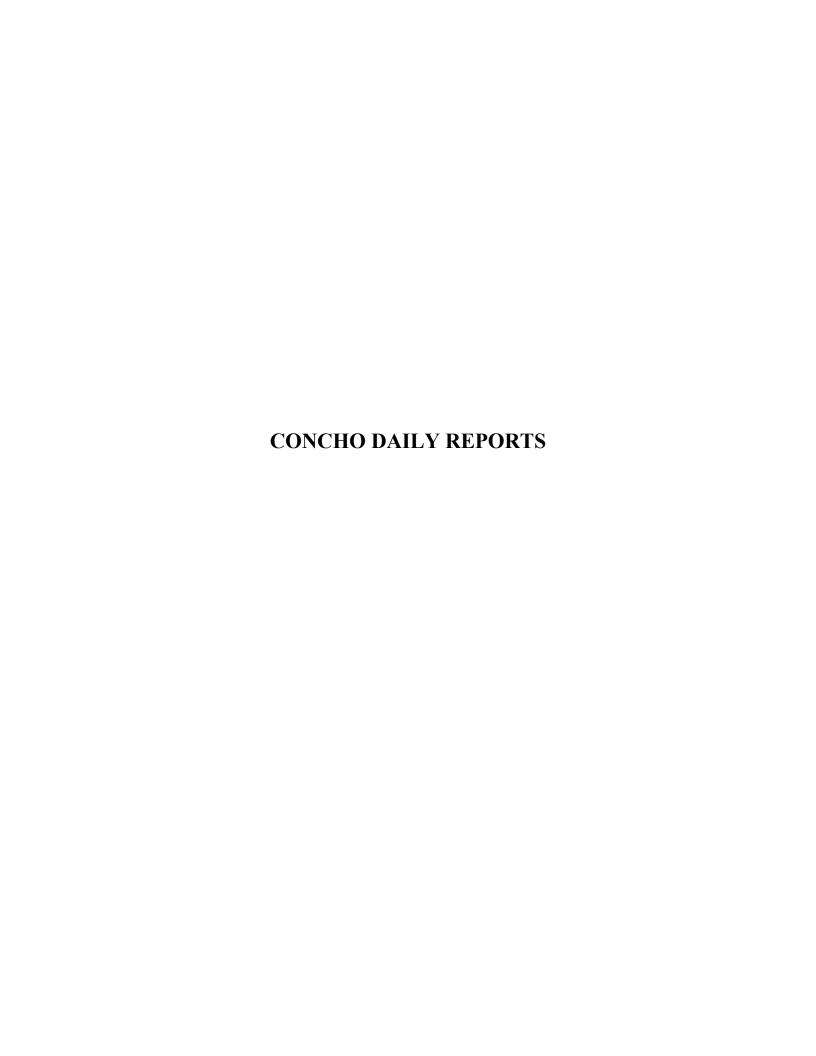


INCORPORATED					
Pressure tests - BOP/BOPE and CIT	Saturday, November 5, 2016	22:08	BLM has been notified	Geolex	The Carlsbad BLM Engineer (Charles Nimmer) was notified, due to the unanswered phone calls to the BLM hotline, 4 hrs. in advance of the BOP test. Charles gave the go ahead to test BOP/BOPE and CIT without BLM witness present. The BOP/BOPE pressure test and CIT were completed on Sunday, November 6, 2016.
Begin drilling 1st Intermediate hole	Sunday, November 6, 2016	19:04	BLM has been notified	Geolex	Drilling of the 17 1/2-inch 1st intermediate borehole began at 19:04 on 6 Nov 2016.
1st Intermediate Hole TD	Tuesday, November 8, 2016	16:28	BLM has been notified	Geolex	The 1st intermediate borehole was completed on 8 Nov 2016 at its final TD of 2,555.5 ft. at 16:28. The mechanical caliper log was run on 9 Nov 2016, and casing will be installed on 9 Nov 2016. 3160-5 (BLM) and courtesy C-103 (NMOCD) forms will be submitted with the 1st intermediate casing subsequent sundries.
Cement 1st Intermediate Casing	Wednesday, November 9, 2016	All Day	BLM has been notified	Geolex	Cementing complete 428 sacks returned to surface 3160-5 (BLM) and courtesy C-103 (NMOCD) forms will be submitted with the 1st Intermediate casing subsequent sundries. Casing touched bottom
Run CBL in 1st Intermediate Casing	Thursday, November 10, 2016	All Day	BLM has been notified	Geolex	Run CBL in 1st Intermediate Casing, Stack, NU, and begin testing BOP
Begin drilling 2nd intermediate hole	Friday, November 11, 2016	17:42	BLM has been notified	Geolex	Drilling of the 12 1/4-inch 2nd intermediate borehole began at 17:42 on 11 Nov 2016.
Completed drilling 2nd intermediate hole	Saturday, November 12, 2016	18:45	BLM has been notified	Geolex	Completed drilling of the 12 1/4-inch 2nd intermediate borehole. Experienced loss of returns from 2,701 to 4,696 at 60 to 130 BPH.
Installed and cemented 9 5/8-inch casing into the 12 1/4-inch 2nd intermediate borehole	Sunday, November 13, 2016	All Day	BLM has been notified	Geolex	Installed and cemented 9 5/8-inch casing into the 12 1/4-inch 2nd intermediate borehole. Circulated 144 sacks (51 bbls) to the surface during the first stage and 107 sacks (33 bbls) to the surface during the second stage. Checked the float at 21:28.
Pressure tested BOP/BOPE	Monday, November 14, 2016	All Day	BLM will not be notified until CIT and FIT completed	Geolex	Successfully tested the BOP/BOPE (250 and 5,000 psi) and provided charts. Will perform CIT after drilling out DV tool and running CBL.
Begin drilling production hole	Wednesday, November 16, 2016	All Day	BLM has been notified	Geolex	Drilling of the 8 3/4-inch production borehole began at 01:19 on 11 Nov 2016.
Production Hole TD	Monday, November 28, 2016	22:56	BLM has been notified	Geolex	The production borehole was completed on 28 Nov 2016 at its final TD of 13,622 ft. at 22:56. 3160-5 (BLM) and courtesy C-103 (NMOCD) forms will be submitted with the production casing subsequent sundries.
Begin Running Geophysical Logs	Tuesday, November 29, 2016	All Day	BLM will not be notified until Casing is run	Geolex	Schlumberger arrived onsite on Tuesday, November 29, 2016 to run geophysical logs on the production casing borehole. Geophysical logging was completed early morning on Wednesday, November 30, 2016. It is anticipated that the production casing will be run later in the afternoon on December 1, 2016.
Trip into hole with DP for sweep and begin running 7-inch production casing	Wednesday, November 30, 2016	All Day	BLM will not be notified until Casing is run	Geolex	Following clean out of hole the drill pipe was removed and lais down. The running of the 7-inch casing began at approximately 14:00 on Thursday December 1, 2016 by Franks Casing Crew.
Completed running 7-inch Casing	Friday, December 2, 2016	All Day	BLM was notified that the casing was run	Geolex	The 7-inch casing tagged bottom at approximately 06:00 on Saturday December 3, 2016.
Completed 1st Stage cement of 7-inch Casing	Sunday, December 4, 2016	00:05	BLM was notified that the 1st Stage was completed	Geolex	First stage cement returns (128 sacks) was witnessed by Geolex at approximately 00:05 on Sunday December 4, 2016.
Completed 2nd Stage cement of 7-inch Casing	Sunday, December 4, 2016	11:00	BLM was notified that the cement job	Geolex	Second stage cement returns (93 sacks) was witnessed by Geolex at approximately 10:45 on Sunday December 4, 2016.
Began TIH with 4-inch drill pipe	Monday, December 5, 2016	18:00	NA	Geolex	Performed casing pressure test above DV tool. Presure dropped 9% in 30 minutes.
Began drilling resin cement with 4-inch drill pipe to approximately 1 joint above the casing	Tuesday, December 6, 2016	All Day	BLM was notified that the CBL should be run Wednesday afternoon.	Geolex	Performed casing pressure test above DV tool (Pason measured). Presure dropped 9% in 30 minutes.
Began drilling resin cement with 4-inch drill pipe to 10 foot below the casing shoe	Friday, December 9, 2016	5:30	BLM approved cement job Thursday morning.	Geolex	Performed sucessful CIT above shoe, drilled out 10 feet into formation and performed sucessful FIT.
Began drilling 6-inch open-hole portion of well	•	9:30	NA	Geolex	Monitoring ROP and Mud Log to determine appropriate total depth
Completed 6-inch Open Hole Injection Zone; TD = 14,750 feet	Saturday, December 10, 2016	9:31	Notified BLM After hours Engineer of TD and Release of Rig on Sunday or Monday	Geolex	TD well, TOOH LDDP in preparation for OH Logs and cores
Completed geophysical logs in open hole interval, began side wall coring	Sunday, December 11, 2016	9:31	NA	Geolex	Complete geophysical logs
Completed coring in the open hole interval	Monday, December 12, 2016	All Day	BLM and NMOCD have been notified		Complete coring.
Workover rig is in place and initiated completion procedures	Thursday, December 15, 2016	All Day	BLM and NMOCD have been notified		The Workover rig has been set-up, and is currently proceeding with completion procedures.
Began Swabbing	Tuesday, December 20, 2016	All Day	BLM and NMOCD have been notified		The Workover rig has begun swabbing the well.
Sampling of Formation Water by Swabbing	Wednesday, December 21, 2016	All Morning	BLM (Paul Swartz) present for sampling	Geolex	The Workover rig completed swabbing the well to 515 bbls, crew released until December 26, 2016.
Attempt to acidize open hole portion of well	Monday, December 26, 2016	All Morning	NA	Geolex	Operation was terminated due to communication between tubing and annulus.





THE OTHER DESIGNATION					
Acidize open-hole injection zone	Wednesday, December 28, 2016	All Day	BLM (Paul Swartz) and NMOCD have been notified	Geolex	Performed successful acidizing procedures on the open-hole injection zone.
Step Rate Test	Thursday, December 29, 2016	All Day	BLM and NMOCD have been notified	Geolex	Performed successful SRT procedures and shut-in well for 10 day fall-off test.
Completed 10 day fall-off test	Sunday, January 8, 2017	07:30	NA	Geolex	Broke off tool at 07:30 and began pulling out of the hole with bottom-hole pressure gauge at 07:40. No problems. Left the tubing with 89 psi.
Completed bit and scrapper run in preparation to run permanent packer	Wednesday, January 11, 2017	17:00	NA	Geolex	Will RIH with wire line GR/CCL/Gauge Ring and Junk basked to insure safe packer set.
Run GR/CCL/Gauge Ring	Thursday, January 12, 2017	2017 7:00 NA		Geolex	CCL/Gauging Ring got hung up just below the packer setting depth; Halliburton pull off of the tool and left fish in hole.
Fishing Job - Day 1	Friday, January 13, 2017	7:00	NA	Geolex	Following conference call it was decided to enter hole with fishing tools, jars, and spacers subs and attempt to recover Halliburton tool or push to bottom of open hole.
Fishing Job - Day 2	Saturday, January 14, 2017	7:00	NA	Geolex	Continued TIH with rental work string, latched on to fish and began TOOH, retrieved fish at 14:00, TIH with bit and scrapper.
Clean out 7-inch casing following fishing job	Sunday, January 15, 2017	7:00	NA	Geolex	Pulled out of hole with bit & scrapper, lay down rental tubing
Set Halliburton Packer at 13,535 feet.	Monday, January 16, 2017	0827	NA	Geolex	Set Permanent Packer at 13,535 feet (log depth).
Geology Observations	Current Formation	L		Next Formation	Result
Drilling in the Quaternary/Triassic	Quaternary Deposits and Triassic Re	ed Beds (terrest	rial deposit)	Dockum Group	Dockum Group below Triassic Red Beds.
Drilling in Dockum Group	Dockum Group (terrestrial, lacustrin		1 /	Rustler Formation	Dockum Group at 270'.
Drilling in Rustler	Upper Rustler (marine/evaporite and			Salt Top	Rustler Formation at 743'. ROP and gamma dropped.
Drilling in Rustler	Magenta Dolomite - Member of the			Salt Top	Drilled through Rustler into Magenta Dolomite (824') to 826' TD for surface casing.
Drilling in Rustler	Lower Rustler (marine/evaporite and lacustrine deposits)			Salt Top	Drilled through the Magenta Dolomite.
Drilling in Salt	Salt top (marine and evaporite deposits)			Salado Formation	Salt Top at approx. 882', ROP increased considerably and held.
Drilling in Salado	Salado Formation (marine and evaporite deposits)			Tansill Formation	Salado Formation top at 1835.5'.
Drilling in Tansill	Tansill Formation (marine deposits)	•		Yates Formation	Tansill formation top at 2343'.
Drilling in Yates	Yates Formation (terrestrial deposits	:)		7 Rivers Formation	Yates Formation top at 2483'.
Drilling in 7 Rivers	7 Rivers (marine)			Capitan Reef	7 Rivers Formation top at 2663'.
Drilling in Capitan Reef	Capitan Reef (shallow marine)			Goat-Seep Queen	Capitan Reef top at 2760'.
Drilling in the Goat-Seep Queen	Goat Seep-Queen (marine carbonate	s - dolomite an	d limestone	Bell Canyon Formation	Goat Seep-Queen top at 4438'.
Drilling in the Bell Canyon	Bell Canyon (sandstone w/thin bedd	ed limestone)		Cherry Canyon	Bell Canyon top at 4779'
Drilling in the Cherry Canyon	Cherry Canyon (fine grained sandsto	ones and siltsto	nes)	Brushy Canyon	Cherry Canyon top at 4963'
Drilling in the Brushy Canyon	Brushy Canyon (medium grained sa	ndstones)		Bone Spring	Brushy Canyon top at 5632'
Drilling in the Bone Springs	Bone Spring (medium grained sands	tones)		Wolfcamp	Bone Spring top at 7060'
Drilling in the Wolfcamp	Wolfcamp (shale, siltstone and carbo	onates)		Strawn	Wolfcamp top at 10,422'
Drilling in the Strawn	Strawn (limestone with alternating s	hale and clay)		Atoka	Strawn top at 11,170'
Drilling in the Atoka	Atoka (limestone, shale and siltstone	e)		Morrow	Atoka top at 11,595'
Drilling in the Morrow	Morrow (sandstone and shale)			Mississippian	Morrow top at 11,973'
Drilling in the Mississippian	Mississippian (Chester Formation -	shale and limes	tone)	Barnett	Mississippian top at 12,544'
Drilling in the Barnett	Barnett Shale (Shale)		•	Mississippian Lime	Barnett top at 12,765'
Drilling in the Mississippian Lime	Mississippian Lime (Chester Format	ion -Limestone	e with some chert)	Woodford Shale	Mississippian Lime top at 12,923'
Drilling in the Woodford	Woodford (Organic rich shale)			Devonian	Woodford top at 13,499'
Drilling in the Devonian	Devonian (limestone, dodlmite, and	sandstone)		Devonian	Devonian top at 13,625'
Drilling in the Wristen	Wristen (limestone, dodlmite, and sa	indstone)		Silurian	Wristen top at 13,797'
Drilling in the Fusselman	Fusselman (limestone, dodlmite, and	l sandstone)		Silurian	Fusselman top at 13,972'
Drilling in the Montoya	Montoya (cherty dolomite)			Ordovician	Montoya top at 14,371'





Fluids, Disposal and Water

Well Name: ZIA AGI #2D

Daily Drilling Report

Date: 11/1/2016

Report #: 2.0

DSS: 0.00

Proposed: <typ< th=""><th>1>, <de< th=""><th><typ1>, <0</typ1></th><th>1 <typ1></typ1></th><th>, <depth< th=""><th><typ1< th=""><th>>, <depth< th=""><th><typ1< th=""><th>>, <dept< th=""><th>th</th><th></th><th></th><th></th><th></th><th>Lat:</th><th>Long:</th></dept<></th></typ1<></th></depth<></th></typ1<></th></depth<></th></de<></th></typ<>	1>, <de< th=""><th><typ1>, <0</typ1></th><th>1 <typ1></typ1></th><th>, <depth< th=""><th><typ1< th=""><th>>, <depth< th=""><th><typ1< th=""><th>>, <dept< th=""><th>th</th><th></th><th></th><th></th><th></th><th>Lat:</th><th>Long:</th></dept<></th></typ1<></th></depth<></th></typ1<></th></depth<></th></de<>	<typ1>, <0</typ1>	1 <typ1></typ1>	, <depth< th=""><th><typ1< th=""><th>>, <depth< th=""><th><typ1< th=""><th>>, <dept< th=""><th>th</th><th></th><th></th><th></th><th></th><th>Lat:</th><th>Long:</th></dept<></th></typ1<></th></depth<></th></typ1<></th></depth<>	<typ1< th=""><th>>, <depth< th=""><th><typ1< th=""><th>>, <dept< th=""><th>th</th><th></th><th></th><th></th><th></th><th>Lat:</th><th>Long:</th></dept<></th></typ1<></th></depth<></th></typ1<>	>, <depth< th=""><th><typ1< th=""><th>>, <dept< th=""><th>th</th><th></th><th></th><th></th><th></th><th>Lat:</th><th>Long:</th></dept<></th></typ1<></th></depth<>	<typ1< th=""><th>>, <dept< th=""><th>th</th><th></th><th></th><th></th><th></th><th>Lat:</th><th>Long:</th></dept<></th></typ1<>	>, <dept< th=""><th>th</th><th></th><th></th><th></th><th></th><th>Lat:</th><th>Long:</th></dept<>	th					Lat:	Long:
Asset Group: DELA Field Name: AGI	AWARE BA			Contrac County:	tor: LEA		#/Crew			Rig Pho State:	NM	125 A220	7		
Area: AGI				End Dep	The second second							025-4220	1		
Prospect:				Market Street,	A CONTRACTOR OF THE PARTY OF TH) (ftKB):				Permit		tion (ft):	3 547	00	
Spud Date:				24 Hr Pr								levation			
Rig Release Date:	and the same			Drilling Target F	The latest designation of the latest designa							t Date:	(16). 0,		
Date TD Reached (v Job AFE Amount (Cost)	wellbore):		ne d'anne de la Ver	Daily Field 8						Cum Field	Est To D	late (Cost)			
				\$371,23	5					\$402,6	40				
Daily Activity from Operations at Report Time	10/31/2016	6 - 11/1/201	6					-							
RIGGING UP ON ZI				a) to											
Past 24 Hours Operation SI RU ON ZIA AGI # D Operations Next Report Pe	2, PU/MU	TOP DRIVE	AND CO	NTINUE RI	IG UP,	WELD CO	NDUCTE	ER, FILL	PITS	AND TANKS	S	***			
FINISH RIG UP, PR	RE SPUD IN		, SPUD A	ND DRILL	26" SUF	RFACE HO	DLE.								
No Accide No	ent Reported 1	Daily Contacts CONTRACT	DRLG FR	MN, TODE	O HINTO	N, ; CON	TRACT D	RLG FF	RMN, RO	ONNIE DUN	NAVAN	IT,			a medicina
Time Log															1
Start End Time Time Dur	(hr) End De	3)	Sub-Activit							Com	0.00 14	OT DUI	ALLTOF	DDIVE AND	NPT?
06:00 06:00 24.	00	CRAN	TRUCKS (ES		CONTIN	UE RU, V	VELD CO	NDUCT	ER AND	FILL PITS 00% MI 90°	AND T	ANKS. L	ITILIZE	DRIVE AND	140
Bits & BHAs							,								
Bit Run Size (in)	Make	Model	SN	Depth in (ft						Avg ROP (f				Nozzles (1/32") Max Stand Pipe Pr	masura (ani)
BHA#	Min Weigh	ht on Bit (1000lb	f) Max We	eight on Bit (10	000lbf) N	Viin RPM (rpm	1)	Max	RPM (rpm)		Min Stan	d Pipe Pres	sure (psi)	wax stand Pipe Pi	essure (psi)
String Length (ft)							Weight of	String in Ai	ir (1000lbf)						
Drill String Compo	nents			wayw. su					00.0			1 (6)		Cum Len	/ 4 \
Jts			Item	Des					OD (in)		Len (ft)		Culli Len	(10)
Drilling Parameters	5													Tel. B. C.	
Wellbore	Start Depth (f	tKB) E	nd Depth (ftKI		Cum Depth		Drilling Ti			m Drilling Time		Interval ROI		Flow Rate (gp	
Weight on Bit (1000lbf)	RPM (rpm)	S	tand Pipe Pre	ssure (psi) D	Orill Str Wt (1000lbf)	PU Str W	t (1000lbf)	SC) Str Wt (1000lb	1)	Drilling Torq	ue	Off Bottom To	rque
Hydraulic Calculat Bit Hydraulic Power (hp)	ions	Bit Hydraulic	Power Per Ho	ole Area (hp/in²	²) Bit Jet	Velocity (ft/s)			Bit Press	sure Drop (psi)			Percent of	Pressure Drop at Bi	t (%)
Max Casing AV (ft/min)		Max Open H	ole AV (ft/min)		Min Ca	asing AV (ft/m	in)		Min Ope	n Hole AV (ft/mi	in)		CD End (lb/gal)	-
									1	energy we may be then		1			_
Error															www.williams
Mud Properties	17		Depth (AVD)	- 1	Density (lb/ga	al)	Funr	nel Viscosit	ty (s/at)	PV Calc	(cP)	-	YP Calc (lbf/100ft²)
Time	Туре									3 (-17				Lime (lb/bbl)	
Gel 10 sec (lbf/100ft²)	Gel 10 m	in (lbf/100ft²)	Filtrate	(mL/30min)		Filter Cake (1	/32")	рН			Solids (70)			
Chlorides (mg/L)	Pm Filtrat	te (mL/mL)	Calciur	n (mg/L)		Electric Stab	(V)	Pm ((mL/mL)		Pf (mL/r			Percent Oil (%)	
Oil Water Ratio	Flow Line	e Temperature (°	F) Vis 6rp	m		Low Gravity S	Solids (%)	Mag	nesium (m	g/L)	HTHP F	iltrate (mL/3		HTHP Filter Cake	(1/32")
Min Background Gas	Max	R Background G	as	Min Conne	ection Gas		Max Con	nection Gas	3	Max Trip	Gas		Max	x H2S (ppm)	
Mud Additive Amo	unts						-				On I	100		Returned	
Des		Unit	S	-	Rec	. And the best of the second		Consun	ied		OIT	LOC		Kotanioa	
Pump # 1, Triplex															
Pump Number		Start Date 10/31/20	16 06:00		11/1	/2016 06:0	00		Make Bomc	0			Model F-1600		
Pump # 2, Triplex		Start Date			End D	ate			Make				Model		
Pump Number 2			16 06:00			/2016 06:0	00		Bomo	0			F-1600		
Survey Data MD (ftKB)	1 100	cl (°)	Azm	(°) I	TVI	D (ftKB)		VS (ft)	1	NS (ft)		E	W (ft)	DLS (°/100ft)
MD (HVD)	The state of the s		PAII					1					i i i i i		
Casing Strings					1	OD (in)	Chen	Joint Volum	ng (lh/ft)	Grade		Set	epth (ftKB) FIT	(psi)
	Cs	sg Des				OD (in)	21106	JUIN VOIGH	iio (ibiit)	Orace		Ç		1	
Formation					The same							The second			
		Formatio	n Name								Prog Top	MD (ftKB)			



Daily Drilling Report

Date: 11/1/2016 Report #: 2.0

DSS: 0.00 Lat: Long:

Well Name: ZIA AGI #2D

Proposed:

Costs Sum	mary			
Billing	Cost Des	Daily Field Est (Cost)	Cum Fld Est (Cost)	AFE Amt (Cost)
Category		\$3,200	\$6,400	\$0
227	D-Contract Sprvsn	\$23,500	\$23,500	\$0
228	D-Tstg Csg/Tbg		\$23,150	\$0
235	D-Rentals-Surface	\$14,995		
	D-Trucking/Forklift/Rig Mobil	\$109,000	\$110,000	\$0
237		\$9,050	\$11,800	\$0
244	D-Enymntl/Clsd Loop	ψ0,000		



Daily Drilling Report

Date: 11/2/2016

Report #: 3.0

DSS: 0.13 Well Name: ZIA AGI #2D Lat: Long: <typ1>, <d <typ1>, <depth <typ1>, <depth <typ1>, <depth <typ1>, <de Proposed: Rig Phone #: #/Crew Contractor: Field Name: AGI Asset Group: DELAWARE BASIN Area: AGI API/UWI: 30-025-42207 State: NM County: LEA Permit #: End Depth (ftKB): 188.0 Prospect: Ground Elevation (ft): 3,547.00 End Depth (TVD) (ftKB): Spud Date: 11/2/2016 03:00 Original KB Elevation (ft): 3,572.00 24 Hr Progress (ft): 68.00 Rig Release Date: KB-Ground Distance (ft): 25.00 Drilling Hours (hr): 3.00 Target Formation: DEVONIAN Total AFE Amount (Cost) 009612 Cum Field Est To Date (Cost) Daily Field Est Total (Cost) Job AFE Amount (Cost) \$434,764 \$91,039 Daily Activity from 11/1/2016 - 11/2/2016 Operations at Report Time DRLG 26" SURFACE HOLE W/ MWD SURVEYS @ 188' FINISH RIG UP, MIX MUD, STRAP AND LOAD BHA, PRE SPUD SAFTEY INSPECTION, PU/MU 26" BHA AND SURFACE TEST MWD, SPUD AND DRILL 26" SURFACE HOLE W/ MWD SURVEYS F/ 120' TO 188', 68' @ 22.6 FPH. DRILL 26" SURFACE HOLE F/ 188' TO CSG DEPTH, PUMP SWEEPS AND FLUID CALIPER WIPER TRIP, TOH RIG UP AND RUN 20" CSG. Incident Reported Accident Reported CONTRACT DRLG FRMN, JOE HARRIS, ; CONTRACT DRLG FRMN, RONNIE DUNNAVANT No Time Log End Depth NPT? Start Fnd Com Time Sub-Activity Dur (hr) CONTINUE TO RIG UP FLOOR, NIPPLU UP CONDUCTER AMD MIX SPUD SWEEP, No 06:00 19:00 13.00 120 **WO TRUCKS &** LOAD AND STRAP BHA. CRANES No PRE SPUD AND SAFTEY INSPECTION. PRE-SPUD INSPCTN 20:00 1.00 120 19:00 PU/MU 26" BHA, W/ MWD USED FOR GAMMA, INC, AZI, AND SURFACE TEST SAME. No PU/LD BHA 20:00 03:00 7.00 120 **GEOLEX NOTIFIED JOHN STANTON W/ BLM OF INTENT TO SPUD 26" SURFACE HOLE @ 16:08 MST ON 11/1/2016.*** SPUD AND DRILL 26" SURFACE HOLE W/ MWD SURVEYS F/ 120' TO 188', 68' @ 22.6 No 188 DRLG W/MTR 06:00 3.00 FPH. ***SPUD 26" HOLE @ 03:00 MST ON 11/2/2016.*** Bits & BHAs Avg ROP (f 22.7 Nozzles (1/32" Job Circ Hr. Rot Time (hr) Slide Time. Length (ft) Depth Out. Make Bit Run Size (in) 3.00 14/14/14/14/14/14/14/14/14/14 188.0 2.00 TD609S 7041846 120.0 BAKER HUG. Max Stand Pipe Pressure (psi) Min Stand Pipe Pressure (psi) Max RPM (rpm) Max Weight on Bit (1000lbf) Min RPM (rpm) Min Weight on Bit (1000lbf) BHA# 900.0 167 900.0 167 25 25 Weight of String in Air (1000lbf) String Length (ft) 188.31 **Drill String Components** OD (in) Len (ft) Cum Len (ft) Item Des 188.31 9 1/2 57.57 2 Drill Collar 130.74 9 1/2 2.17 1 XO Sub 128.57 30.61 8 1 NMDC 97.96 30.73 8 1 NMDC 2.69 67.23 8 1 Orientation Sub 3.80 64.54 8 1 XO Sub 8.40 60.74 9 11/16 1 Reamer - 3 Pt 52.34 12.28 9 11/16 1 Shock Sub 40.06 3.19 9 1 XO Sub 36.87 34.87 9 1/2 1 Mud Motor **Drilling Parameters** Flow Rate (gpm) Interval ROP (ft/hr) Drilling Time (hr) Cum Drilling Time (hr) Cum Depth Drilled (ft) End Depth (ftKB) Start Depth (ftKB) Wellbore 22.7 704 3.00 3.00 68.00 Original Hole 188.0 120.0 SO Str Wt (1000lbf) **Drilling Torque** Off Bottom Torque PU Str Wt (1000lbf) Stand Pipe Pressure (psi) Drill Str Wt (1000lbf) RPM (rpm) Weight on Bit (1000lbf) 80 10.0 2.0 80 900.0 80 75 **Hydraulic Calculations** Percent of Pressure Drop at Bit (%) Bit Pressure Drop (psi) Bit Jet Velocity (ft/s) Bit Hydraulic Power Per Hole Area (hp/in²) Bit Hydraulic Power (hp) Min Open Hole AV (ft/min) ECD End (lb/gal) Min Casing AV (ft/min) Max Casing AV (ft/min) Max Open Hole AV (ft/min) Error **Mud Properties** YP Calc (lbf/100ft²) Funnel Viscosity (s/qt) PV Calc (cP Depth (ftKB) Density (lb/gal) 28 120 8.3 Water Base 06:00 Lime (lb/bbl) рН 7.0 Solids (%) Filter Cake (1/32") Gel 10 sec (lbf/100ft²) Gel 10 min (lbf/100ft²) Filtrate (mL/30min) 0.0 Pm (mL/mL) Pf (mL/mL) Percent Oil (%) Electric Stab (V) Calcium (mg/L) Pm Filtrate (mL/mL) Chlorides (mg/L) 0.00 500 HTHP Filter Cake (1/32") HTHP Filtrate (mL/30min) Low Gravity Solids (%) Magnesium (mg/L) Vis 6rpm Flow Line Temperature (°F) Oil Water Ratio 0.0 Max H2S (ppm) Max Trip Gas Max Connection Gas Min Connection Gas Max Background Gas Min Background Gas **Mud Additive Amounts** Returned



Well Name: ZIA AGI #2D

D-Company Sprvsn

D-Contract Sprvsn

D-Rentals-Surface

D-Rentals-Subsrfc

D-Welding Services

D-Envmntl/Clsd Loop

D-Trucking/Forklift/Rig Mobil

D-Tstg Csg/Tbg

226

227

228

235

236

237

238

244

Daily Drilling Report

Date: 11/2/2016 Report #: 3.0

DSS: 0.13 Lat: Long:

\$0

\$0

\$0

\$0

\$0

\$0

\$0

Proposed: Pump # 1, Triplex Model F-1600 Make End Date Start Date Pump Number Bomco 11/2/2016 06:00 11/1/2016 06:00 Flow Rate (gpm) Volumetric Efficiency (%) Rod Diameter (in) Stroke Length (in) Strokes (spm) Pressure (psi) 95 12.00 900.0 Pump # 2, Triplex Model F-1600 End Date Make Start Date Pump Number 11/2/2016 06:00 Bomco Flow Rate (gpm) 352 11/1/2016 06:00 Volumetric Efficiency (%) Rod Diameter (in) Stroke Length (in) Strokes (spm) Pressure (psi) 95 12.00 900.0 100 Survey Data DLS (°/100ft) EW (ft) NS (ft) VS (ft) TVD (ftKB) Azm (°) Incl (°) MD (ftKB) **Casing Strings** FIT (psi) Set Depth (ftKB) Grade Shoe Joint Volume (lb/ft) OD (in) Csg Des 120.0 118.52 A53 30 Conductor **BOPs** Last BOP Test Date Nominal ID (in) Pressure Rating (psi) Formation Prog Top MD (ftKB) Formation Name Fluids, Disposal and Water Returned Cum On Loc Consumed Received Supply Item Des Unit Label -8.0 8.0 LOAD **BRINE WATER** -22.0 22.0 FRESH WATER LOAD 11,602.0 763.0 7,500.0 gal us RIG DIESEL **Costs Summary** Cum Fld Est (Cost) Billing Category AFE Amt (Cost) Daily Field Est (Cost) Cost Des \$0 \$43,000 \$16,000 D-Daywork Contract 209 \$0 \$2,300 \$2,300 **D-Directional Drlg Services** 210 \$0 \$3,280 \$1,660 D-Fuel & Power 211 \$0 \$9,950 \$9,950 212 **D-Water** \$0 \$7,500 \$7,500 D-Bits \$0 213 \$1,124 \$1,124 214 D-Mud & Chemicals \$0 \$6,700 \$6,700 224 D-Geologic/Engnrg \$0 \$5,400

\$1,800

\$3,200

\$1,520

\$6,105

\$11,630

\$18,150

\$650

\$2,750

\$9,600

\$25,020

\$29,255

\$11,630

\$128,150

\$1,650

\$14,550



Daily Drilling Report

Date: 11/3/2016

Report #: 4.0 DSS: 1.13

NPT?

36.87

34.87

9 1/2

Well Name: ZIA AGI #2D Lat: 32.643951 Long: -103.811116 TD/TVD, 14,750 TD/VS, 0 Proposed: <typ1>, <de <typ1>, <d TD/MD, 14,750

#/Crew: FREEDOM Rig Phone #: (432) 853-9909

Contractor: SCANDRILL Field Name: AGI Area: AGI Asset Group: DELAWARE BASIN API/UWI: 30-025-42207 State: NM County: LEA

Permit #: End Depth (ftKB): 826.0 Prospect: Ground Elevation (ft): 3,547.00 Spud Date: 11/2/2016 03:00 End Depth (TVD) (ftKB): 825.9 Original KB Elevation (ft): 3,572.00 24 Hr Progress (ft): 638.00 Rig Release Date: KB-Ground Distance (ft): 25.00 Drilling Hours (hr): 16.50 Target Formation: DEVONIAN

Total AFE Amount (Cost) AFE Numbe 009612

Cum Field Est To Date (Cost) Daily Field Est Total (Cost) Job AFE Amount (Cost) \$519,066 \$84,302

Daily Activity from 11/2/2016 - 11/3/2016

@ TD 826' SHORT/ WIPER TRIP AND LD ROLLER REAMER.

Past 24 Hours Operation Summary

1 XO Sub

1 Mud Motor

DRILL 26" HOLE TO FROM 188' TO 826' TD, 638', SERVICE RIG, RE-TORQUE IBOP CONNECTION, CHANGE BURN SUB, TROUBLE SHOOT PASON. PUMP SWEEPS AND FLUID CALIPER,

Operations Next Report Period

FINISH WIPER TRIP, PUMP SWEEP, TOH TO RUN 20" CSG, CMT CSG, WOC, RUN BOND LOG

Daily Contacts Accident Reported Incident Reported CONTRACT DRLG FRMN, JOE HARRIS, ; CONTRACT DRLG FRMN, RONNIE DUNNAVANT, No No

me Log							
End Time	Dur (hr)	End Depth (ftKB)	Sub-Activity	Com			
07:00	1.00	260	DRLG W/MTR	DRLG 26" SURFACE HOLE W/ MWD SURVEYS F/ 188' TO 260', 72' @ 72 FPI			
	End Time	End Time Dur (hr)	End End Depth Time Dur (hr) (ftKB)	End End Depth Sub-Activity			

Time	Time	Dur (hr)	(ftKB)	Sub-Activity	TO SOOL FOLO TO EDIT	Min
06:00	07:00	1.00	260	DRLG W/MTR	DRLG 26" SURFACE HOLE W/ MWD SURVEYS F/ 188' TO 260', 72' @ 72 FPH.	No
07:00	07:30	0.50	260	UPPER IBOP	@ 260' RE-TORQUE TOP I.B.O.P CONNECTION ON TOP DRIVE.	No
07:30	10:00	2.50	385	DRLG W/MTR	DRLG 26" SURFACE HOLE W/ MWD SURVEY F/ 260' TO 385', 125' @ 50 FPH.	No
10:00	10:30	0.50	385	LUBRICATE RIG	@ 385' SERVICE RIG AND TOP DRIVE.	No
10:30	12:30	2.00		DRLG W/MTR	DRLG 26" SURFACE HOLE W/ MWD SURVEYS F/ 385' TO 450', 65' @32.5 FPH.	No
12:30	14:00	1.50		MISCELLANEOUS	@ 450', CHANGE OUT BURN SUB AND KELLY JT DUE TO THREAD OVER TORQUE.	No
14:00	18:30	4.50		DRLG W/MTR	DRLG 26" SURFACE HOLE W/ MWD SURVEYS F/ 450' TO 611', 161' @ 35.7 FPH.	No
		0.50		ELECTRICAL	@ 611' RIG REPAIRE, POWER LEAD IN J BOX TOP DRIVE.	No
18:30	19:00			DRLG W/MTR	DRLG 26" SURFACE HOLE F/ 611' TO 721', 110' @ 36.6 FPH.	No
19:00	22:00	3.00				No
22:00	23:00	1.00	721	MISCELLANEOUS	@ 721' TROUBLE SHOOT PASON.	No
23:00	02:30	3.50	826	DRLG W/MTR	DRLG 26" SURFACE HOLE W/ MWD SURVEYS F/ 721' TO 826', 105' @ 30 FPH. ***TD 26" SURFACE HOLE @ 02:30 MST ON 11/3/2016.***	
02:30	05:30	3.00	826	C&C MUD	@ 826' HOOK UP DAVIS FLUID CALIPER AND RUN, CALIPER SHOWED 62% WASHOUT @ 2.014 CU FT. FOLLOWED BY 40 BBL HI VIS SWEEP.	No
05:30	06:00	0.50	826	SHORT TRIP	@ 826' MAKE WIPER/SHORT TRIP AND LD ROLLER REAMER.	No
The State of the S	THE PERSON NAMED IN			And the second s		

Bits & B	RHAS				-							A CONTRACTOR OF THE PARTY OF TH	
Bit Run	Size (in) 26	Make	Model	SN 7041846		Depth Out 826.0	Length (ft) 2.00	Job Drill Hr 19.50	Job Circ Hr 3.00	Avg ROP (f., 36.2	Rot Time (hr) 19.50	Slide Time	Nozzles (1/32") 14/14/14/14/14/14/14/14/14/14/14
BHA#	20	Drateit Hoom	nt on Bit (1000)		eight on Bit (10		RPM (rpm)	M	ax RPM (rpm)	A contract of	Min Stand Pip	e Pressure (psi	Max Stand Pipe Pressure (psi)

1167 25 Weight of String in Air (1000lbf) String Length (ft)

rill String C	omponents	OD (in)	Len (ft)	Cum Len (ft)
Jts	Item Des	6 1/2	526.56	838.35
	Drill Collar	6 1/2	1.91	311.79
1	XO Sub		88.02	309.88
3	Drill Collar	8		
1	XO Sub	9	2.27	221.86
	Drill Collar	9 1/2	88.85	219.5
		9 1/2	2.17	130.7
	XO Sub	8	30.61	128.5
1	NMDC		30.73	97.9
1	NMDC	8		
1	Orientation Sub	8	2.69	67.2
1	XO Sub	8	3.80	64.5
		9 11/16	8.40	60.7
1	Reamer - 3 Pt	9 11/16	12.28	52.3
1	Shock Sub			40.0
	VO O. h	91	3.19	40.0

Drilling Parameter	rs					Lateral DOD (filles)	Flow Rate (gpm)
Wellbore Original Hole	Start Depth (ftKB) 188.0	End Depth (ftKB) 826.0	Cum Depth Drilled (ft) 706.00	Drilling Time (hr) 16.50	Cum Drilling Time (hr) 19.50	Interval ROP (ft/hr) 38.7	704
Original Hole	100.0			DI I Cte 18# (4000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Bottom Torque
Weight on Bit (1000lbf)	RPM (rpm)	Stand Pipe Pressure (psi) 2,000.0	130	PU Str Wt (1000lbf) 135	130	15,000.0	2.0

Hydraulic Calculations			Init Personus Deep (pgi)	Percent of Pressure Drop at Bit (%)
Bit Hydraulic Power (hp)	Bit Hydraulic Power Per Hole Area (hp/in²) 0.1	Bit Jet Velocity (ft/s) 150.2	Bit Pressure Drop (psi) 175.9	9
72.2 Max Casing AV (ft/min) 0.0	Max Open Hole AV (ft/min) 29.6	Min Casing AV (ft/min)	Min Open Hole AV (ft/min) 27.2	ECD End (lb/gal) 8.61

	826.00	1.70	309.40	825.90	9.12		3.58	3.39 0.0
Casing Str	ings					1,7 to 10.	The state of the s	
Csg Des				OD (in)	Shoe Joint Volume (lb/ft)	Grade	Set Depth (ftKB) FIT (psi)
Conductor				30	118.52	A53	12	20.0
BOPs								
Pressure Rating (psi) Nominal ID (in)				Last BOP Test Date				
Formation							· · · · · · · · · · · · · · · · · · ·	
Formation Name					Prog Top MD (ftKB)			
RUSTLER								800.0
and the second s	posal and W							
	ly Item Des	Unit Label		Received	Consumed	0.0	Cum On Loc	Returned
CUTTINGS BIN		BIN				6.0	-6.0	- Angel - Ange
RIG DIESEL		gal us		7,001.0	1,6	551.0	16,952.0	
Costs Sum	nmary							
Billing Category	Cost Des				Daily Field Es	t (Cost)	Cum Fld Est (Cost)	AFE Amt (Cost)
209	D-Daywork Contract					\$16,000	\$59,000	\$
210	D-Directional Drlg Services					\$2,300	\$4,600	\$
211	D-Fuel & Power					\$3,600	\$6,880	\$
214	D-Mud & Chemicals				The second secon	\$637	\$1,761	\$
217	D-Cement Surface					\$2,560	\$2,560	\$
224	D-Geologic/Engnrg					\$6,700	\$13,400	\$
226	D-Company Sprvsn					\$1,800		\$
227	D-Contract Sprvsn					\$3,200		\$
235	D-Rentals-Surface					\$2,805		\$
236	D-Rentals-Subsrfc					\$4,800		\$
237	D-Trucking/Forklift/Rig Mobil					\$30,550		\$
244	D-Envmntl/Clsd Loop				\$9,350 \$23,900		\$	



Gel 10 sec (lbf/100ft²)

Gel 10 min (lbf/100ft²)

10

Filtrate (mL/30min)

80.0

Filter Cake (1/32")

12

pH

8.0

Solids (%)

5.8

Lime (lb/bbl)

Daily Drilling Report

Date: 11/4/2016

Report #: 5.0 Well Name: ZIA AGI #2D DSS: 2.13 Proposed: <typ1>, <de <typ1>, <d TD/MD, 14,750 TD/TVD, 14,750 TD/VS 0 Lat: 32.643951 Long: -103.811116 Contractor: SCANDRILL #/Crew: FREEDOM Rig Phone #: (432) 853-9909 Asset Group: DELAWARE BASIN Area: AGI Field Name: AGI County: LEA State: NM API/UWI: 30-025-42207 Prospect: End Depth (ftKB): 826.0 Permit #: Spud Date: 11/2/2016 03:00 Ground Elevation (ft): 3,547.00 End Depth (TVD) (ftKB): 825.9 Rig Release Date: 24 Hr Progress (ft): 0.00 Original KB Elevation (ft): 3,572.00 Target Formation: DEVONIAN **Drilling Hours (hr):** KB-Ground Distance (ft): 25.00 Total AFE Amount (Cost) 009612 Job AFE Amount (Cost) Daily Field Est Total (Cost) Cum Field Est To Date (Cost) \$104,550 \$623,616 Daily Activity from 11/3/2016 - 11/4/2016 Operations at Report Time @ 826' CIRC CASING, PREPARE TO CMT 20" CSG. @ 826' RIG REPAIRE TOP DRIVE, SHORT/WIPER TRIP, PUMP SWEEPS AND CIRC, TOH, RIG UP AND RUN AND CMT 20" CSG. Operations Next Report Period CMT 20" CSG, WOC, RUN BOND LOG, NIPPLE UP BOP. Incident Reported Accident Reported Daily Contacts CONTRACT DRLG FRMN, JOE HARRIS, ; CONTRACT DRLG FRMN, RONNIE DUNNAVANT Time Log Start End End Depth Sub-Activity Time Time Dur (hr) Com NPT? 06:00 07:00 1.00 826 ELECTRICAL RIG REPAIRE, TO HYDROLIC CONTROL ON TOP DRIVE. No @ 826' CONTINUE SHORT/WIPER TRIP AND LD REAMER, NO ISSUES WENT 07:00 11:30 4.50 826 SHORT TRIP No STRAIGHT TO BOTTOM 11:30 13:30 2.00 826 C&C MUD @ 826' PUMP SWEEPS, CONDITION HOLE TO TOH TO RUN 20" CSG No 13:30 17:00 3.50 826 TOH TD CSG PT/ KOP @ 826' TOH TO RUN 20" CSG, LD SHOCK SUB AND BIT. ***GEOLEX NOTIFIED JOHN No STANTON W/ LEA CO BLM OF INTENT TO RUN AND CMT 20" CSG @ 14:00 MST ON 17:00 04:00 11.00 826 RUN CSG PJSM W/ FRANKS LD, CSG AND TORQUE TURN RIG UP AND RUN 19 JTS 20" 106.5# J No -55 BTC CSG, CENT 1,2,3, EVERY OTHER TOTAL= 10, TP=829.36' SET @ 826'. 04:00 06:00 CIRC CSG CAP/BTMS 2.00 826 @ 826 CIRC 1 1/2 X CSG CAPICITY, RD CSG, LD AND TORQUE TURN. No UP Bits & BHAs Avg ROP (f. 36.2 Bit Run Size (in) Make Model Depth In 120.0 Depth Out 826.0 Job Circ Hr. Rot Time (hr) Slide Time. Nozzles (1/32" 26 TD609S 7041846 BAKER HUG 2.00 19.50 5.00 19.50 14/14/14/14/14/14/14/14/14/14 BHA# Min Weight on Bit (1000lbf) Max Weight on Bit (1000lbf) Min RPM (rpm) Max RPM (rpm) Min Stand Pipe Pressure (psi) Max Stand Pipe Pressure (psi) 25 45 137 900.0 167 2.000.0 String Length (ft) 838.35 Weight of String in Air (1000lbf) **Drill String Components** Item Des OD (in) Len (ft) Cum Len (ft) 18 | Drill Collar 6 1/2 526.56 838.35 1 XO Sub 6 1/2 1.91 311.79 3 Drill Collar 8 88.02 309.88 1 XO Sub 9 2.27 221.86 3 Drill Collar 9 1/2 88.85 219.59 1 XO Sub 9 1/2 2.17 130.74 1 NMDC 8 30.61 128.57 1 NMDC 8 97.96 30.73 1 Orientation Sub 8 2.69 67.23 1 XO Sub 8 3.80 64.54 1 Reamer - 3 Pt 9 11/16 8.40 60.74 1 Shock Sub 9 11/16 12.28 52.34 1 XO Sub 3.19 40.06 9 1 Mud Motor 36.87 9 1/2 34 87 **Drilling Parameters** Wellbore Start Depth (ftKB) End Depth (ftKB) Cum Depth Drilled (ft) Drilling Time (hr) Cum Drilling Time (hr) Interval ROP (ft/hr) low Rate (gpm) Original Hole 826.0 826.0 706.00 19.50 704 Weight on Bit (1000lbf) RPM (rpm) Stand Pipe Pressure (psi) Drill Str Wt (1000lbf) PU Str Wt (1000lbf) SO Str Wt (1000lbf) Drilling Torque Off Bottom Torque 2,000.0 1,800.0 130 **Hydraulic Calculations** Bit Hydraulic Power (hp) 77.3 Bit Hydraulic Power Per Hole Area (hp/in²) ercent of Pressure Drop at Bit (%) ssure Drop (psi) Velocity (ft/s) 0.1 150.2 188.1 10 Max Casing AV (ft/min) Max Open Hole AV (ft/min) Min Open Hole AV (ft/min) ECD End (lb/gal) Min Casing AV (ft/min) 0.0 29.6 0.0 27.2 9.23 Error **Mud Properties** Funnel Viscosity (s/qt) PV Calc (cP) YP Calc (lbf/100ft²) Time Depth (ftKB) Density (lb/gal) Type Water Base 33 06:00 826 9.2



Date: 11/4/2016

Report #: 5.0 DSS: 2.13

Lat: 32.643951 Long: -103.811116

Well Name: ZIA AGI #2D

Proposed:

Proposed:							and the same of th	
Survey Data				Т	1/0 (4)	NS (ft)	EW (ft)	DLS (°/100ft)
MD (ftKB		Incl (°)	Azm (°)	TVD (ftKB)	VS (ft) 9.12	3.5		
	826.00	1.70	309.40	825.90	3.12		,0	
Casing Strin	ngs			607)	Shoe Joint Volume (lb/ft)	Grade	Set Depth (ftKB)	FIT (psi)
		Csg Des		OD (in) 30			120.	
Conductor				20			826.	
Surface				20	100.00	0 00		
BOPs			[N1-1/6) (i=)		Last BOP Tes	t Date	
Pressure Rating	(psi)		Nominal ID) (III)				
ormation						Prog	Top MD (ftKB)	
		Formation Na	ime			1,09		800.00
RUSTLER								
Fluids, Disp		/ater		Received	Consumed	0	ım On Loc	Returned
	Item Des	Unit Labe		Received	Odilounia	1.0	-7.0	
CUTTINGS		LOAD				2.0	-2.0	
MUD/SOLID DISPOSAL	S/CMT	LUAD						
RIG DIESEL		gal us			1,	006.0	15,946.0	
		garus						
Costs Sumi	Illary			enter p			Cum Fld Est (Cost)	AFE Amt (Cost)
Category			Cost Des	Water to the state of the state	Daily Field E	\$16,000	\$75,000	\$0
209	D-Daywork					\$6,500	\$11,100	\$0
210	D-Direction	nal Drlg Services				\$2,185	\$9,065	\$0
211	D-Fuel & P	ower .				\$1,335	\$3,096	\$0
214	D-Mud & C					\$3,625	\$3,625	\$0
221	D-Float Eq	uip/Centlzr				A STATE OF THE PARTY OF THE PAR	\$20,100	\$0
224	D-Geologic	c/Engnrg				\$6,700	\$9,000	\$0
226	D-Compan	ny Sprvsn				\$1,800	\$16,000	\$(
227	D-Contract	t Sprvsn	Marie Commence			\$3,200	\$35,415	\$(
235	D-Rentals-	-Surface				\$3,355	\$19,580	\$(
236	D-Rentals-	-Subsrfc				\$3,150	\$19,560	φ¢
237	D-Trucking	/Forklift/Rig Mobil				\$1,000		\$0
238	D-Welding					\$650	\$2,300	\$(
244		I/Clsd Loop				\$4,550	\$28,450	\$(
401	D-Surface					\$50,500	\$50,500	31



WILDCAT 360

WILDCAT 601 TZ

Pump # 1, Triplex

GAL

GAL

Daily Drilling Report

Date: 11/5/2016

Report #: 6.0

DSS: 3.13 Well Name: ZIA AGI #2D Lat: 32.643951 Long: -103.811116 TD/TVD, 14,750 TD/VS, 0 <typ1>, <d TD/MD, 14,750 Proposed: <typ1>, <de Rig Phone #: (432) 853-9909 #/Crew: FREEDOM Contractor: SCANDRILL Field Name: AGI Area: AGI Asset Group: DELAWARE BASIN API/UWI: 30-025-42207 State: NM County: LEA Permit #: End Depth (ftKB): 826.0 Prospect: Ground Elevation (ft): 3,547.00 End Depth (TVD) (ftKB): 825.9 Spud Date: 11/2/2016 03:00 Original KB Elevation (ft): 3,572.00 24 Hr Progress (ft): 0.00 Rig Release Date: KB-Ground Distance (ft): 25.00 Target Formation: DEVONIAN Drilling Hours (hr): Total AFE Amount (Cost) 009612 Cum Field Est To Date (Cost) Daily Field Est Total (Cost) Job AFE Amount (Cost) \$719,406 \$95,790 Daily Activity from 11/4/2016 - 11/5/2016 Operations at Report Time CUT OFF 30" CONDUCTER AND 20" CSG AND DRESS Past 24 Hours Operation Summary

@ 826' CIRC W/ 20" CSG ON BOTTOM, RU HALLIBURTON AND CEMENT, SHUT HEAD IN AND WOC, RU AND RUN SCHLUMBERGER CBL LOGS, CUT OFF 30 " CONDUCTER AND 20" CSG. WELD ON 20 3/4" 3M X 20" SOW AND BASE PLATE AND TEST, NIPPLE UP DRLG SPOOLS AND 20" 2M ANNULAR AND TEST, PU/ MU 17 1/2" SHC BHA Operations Next Report Period AND TIH, DRILL CMT, FLOAT AND SHOE, DRILL 17 1/2" 1ST INTERMEDIATE HOLE. Accident Reported Daily C Incident Reported CONTRACT DRLG FRMN, JOE HARRIS, ; CONTRACT DRLG FRMN, RONNIE DUNNAVANT, No No Time Log NPT? End Depth (ftKB) Start End Com Sub-Activity Dur (hr) No Time Time @ 826' CONTINUE TO CIRC CASING ON BOTTOM. 826 C&C MUD 06:00 07:00 1.00 No PJSM W/ HALLIBURTON RU AND CMT AS FOLLOWES: TEST LINES TO 1535 PSI, 826 CMT PUMP 10 BBL FW SPACER FOLLOWED BY 20 BBL FW W/ GEL AND RED DYE 2.50 07:00 09:30 FOLLOWED BY LEAD 1175 SX CLASS "C" @ 13.5 PPG 1.75 YEILD, FOLLOWED BY TAIL 250 SX CLASS "C" @ 14.8 PPG 1.34 YEILD, DROP PLUG AND DISPLACE W/ 274 BBLS FW DISPLACEMENT, BUMP PLUG @ 09:12 MST ON 11/4/2016 FLOAT DID NOT HOLD , SHUT IN W/ 200 PSI, 4 HRS, CIRC 487 SX TO PIT, RIG DOWN HALLIBURTON. @ 826' W/ CSG ON BOTTOM AND CEMENTED , WOC W/ PIPE CENTERED AND IN No 826 WOC 14.50 09:30 00:00 TENSION. TOTAL WOC BEFORE BOND LOG 15 HRS. PJSM W/ SCHLUMBERGER WIRELINE RIG UP AND RUN CBL LOG @ 826'. RIG No 826 CBL 04:30 4.50 00:00 DOWN SCHLUMBERGER. CUT OFF 30" CONDUCTER AND 20 " CSG, DRESS AND PREPARE TO WELD ON 20 No SET SLIPS/CUT 1.50 826 04:30 06:00 3/4" 3M X 20" SOW W/ BASE PLATE. CSG/CNDCTR Bits & BHAs Avg ROP (f... Rot Time (hr) Slide Time,... Job Drill Hr... Job Circ Hr.. Depth In (ft... Depth Out... Length (ft) Make Model SN Bit Run Size (in) Max Stand Pipe Pressure (psi) Min Stand Pipe Pressure (psi) Max RPM (rpm) Min RPM (rpm) Max Weight on Bit (1000lbf) Min Weight on Bit (1000lbf) BHA# Weight of String in Air (1000lbf) String Length (ft) **Drill String Components** Cum Len (ft) OD (in) Len (ft) Item Des **Drilling Parameters** Flow Rate (gpm) Interval ROP (ft/hr) Cum Drilling Time (hr) Drilling Time (hr) Cum Depth Drilled (ft) End Depth (ftKB) Start Depth (ftKB) Wellbore Off Bottom Torque Drilling Torque SO Str Wt (1000lbf) PU Str Wt (1000lbf) Stand Pipe Pressure (psi) Drill Str Wt (1000lbf) RPM (rpm) Weight on Bit (1000lbf) **Hydraulic Calculations** Percent of Pressure Drop at Bit (%) Bit Pressure Drop (psi) Bit Hydraulic Power Per Hole Area (hp/in²) Bit Jet Velocity (ft/s) Bit Hydraulic Power (hp) ECD End (lb/gal) Min Open Hole AV (ft/min) Max Open Hole AV (ft/min) Min Casing AV (ft/min) Max Casing AV (ft/min) Error YP Calc (lbf/100ft²) **Mud Properties** PV Calc (cP) Funnel Viscosity (s/qt) Density (lb/gal) 10.0 Depth (ftKB) 29 Salt Base 06:00 Lime (lb/bbl) Solids (%) Filter Cake (1/32") Filtrate (mL/30min) Gel 10 sec (lbf/100ft²) Gel 10 min (lbf/100ft²) 9.0 Percent Oil (%) Pf (mL/mL) Pm (mL/mL) Electric Stab (V) Calcium (mg/L) Pm Filtrate (mL/mL) Chlorides (mg/L) HTHP Filtrate (mL/30min) HTHP Filter Cake (1/32") Magnesium (mg/L) Low Gravity Solids (%) Flow Line Temperature (°F) Vis 6rpm Oil Water Ratio Max H2S (ppm) May Trip Gas Max Connection Gas Min Connection Gas Max Background Gas Min Background Gas **Mud Additive Amounts** Returned Onloc Consumed Rec Units

271.0

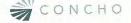
282.0

I Fnd Date

Make

282.0

Mode



Report #: 6.0 DSS: 3.13

Lat: 32.643951 Long: -103.811116

Well Name: ZIA AGI #2D

Proposed:

Fluids, Disposal and Wa		Received	Consumed	Cum On Loc	Returned
Supply Item Des	Unit Label	Received	9.0	-17.0	
BRINE WATER	LOAD				
CUTTINGS BIN	BIN		1.0	-8.0	
			6.0	-28.0	
FRESH WATER	LOAD		5.0	-5.0	
JET PITS/WORK ON LOCATION	HRS				
MUD/SOLIDS/CMT	LOAD		16.0	-18.0	
DISPOSAL			472.0	15,474.0	
RIG DIESEL	gal us			-20.5	
STANDBY TRUCKING	HRS		20.5	720.5	

Billing	Cost Des	Daily Field Est (Cost)	Cum Fld Est (Cost)	AFE Amt (Cost)
Category		\$16,000	\$91,000	\$
209	D-Daywork Contract	\$4,200	\$15,300	
210	D-Directional Drig Services		\$10,090	
211	D-Fuel & Power	\$1,025		9
12	D-Water	\$5,100	\$15,050	
A Section of the second		\$1,335	\$4,431	
214	D-Mud & Chemicals	\$26,500	\$29,060	
217	D-Cement Surface	\$15,810	\$15,810	
222	D-Csg Crews & Equip		\$26,800	
224	D-Geologic/Engnrg	\$6,700		
226	D-Company Sprvsn	\$1,800	\$10,800	
		\$3,200	\$19,200	
227	D-Contract Sprvsn	\$2,605	\$38,020	
235	D-Rentals-Surface	\$150	\$19,730	
236	D-Rentals-Subsrfc		\$161,615	
237	D-Trucking/Forklift/Rig Mobil	\$1,915		
244	D-Enymnti/Clsd Loop	\$9,450	\$37,900	-



Pump # 2, Triplex
Pump Number

Start Date

End Date

Make

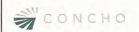
Model

Daily Drilling Report

016

Well Na	me: Z	IA AGI #2I						ıııııg						R	e: 11/6/2 eport #
Proposed: Contractor:			typ1>, <	d TD/I	VID, 14,75	50	TD/TVD, 14,	750 TD	/VS, 0			1 -4- 4	00 0400	-41	DSS:
		RILL WARE BASII			#/Cr	ew: Fl	REEDOM				Die Dha	Lat:	32.6439	51 Long: -	103.811
County: LEA	A DELA	WALE DASI	V			a: AGI					Field Na		32) 853-99	€09	
Prospect:	•					e: NM					API/UWI:				
Spud Date:	11/2/201	6 03:00			End Depth (ftKB): 826.0						Permit #:		-42201		
Rig Release	Date:	0 00.00			End Depth (TVD) (ftKB): 825.9								n (ft): 3,5	47.00	
arget Form		EVONIAN			24 Hr Progress (ft): 0.00						Original I	(B Elev	ation (ft)	3,572.00	
FE Number					Drilli	ing Ho	urs (hr):				KB-Grou	nd Dista	nce (ft):	25 00	
09612 ob AFE Amount (Cost)							Total Al	FE Amount	(Cost)			(15/1	-0,00	
					\$96,1	ield Est T 152	otal (Cost)				Cum Field Es	To Date (Cost)		-
perations at Ren	ort Time	1/5/2016 - 11				"	**			- I	815,558				
826' WAIT	ON NEV	V TEST TRU	CK TO F	INISH T	ESTING :	20" DE	VERTER SY	STEM							
ast 24 Hours Ope 826' FINISH	eration Sumi H CUT O	mary N 20" CSG A	AND DRE	-SS W	ELD ON (20.044	01111	OTEN.							
YSTEM, AND Derations Next Re	D TEST	2000 HI, 25	0 LOW,	200, 11	ELD ON A	20 3/4"	3M X 20" S	OW W/ B	ASE PLA	ATE AND TES	T, NU 2	1/4" 21	ANNULI	ER AND DEV	ERTER
INISH TESTI ITERMEDIA	Port Period ING ANI TE HOLE	NULER AND	DEVER	TER SYS	STEM, P	U/MU	17 1/2" BHA	TIH, TE	EST CSG	G, DRILL CMT	. FLOAT	AND SH	OF DRII	11 17 1/0"	
cident Reported	Accident F	reported Daily C	Contacts										OL, DKII	_L 1/ 1/2"	
	No	CON	TRACT	DRLG F	RMN, JOI	E HAR	RIS, ; CONT	RACT DE	RLG FRA	IN, RONNIE D	UNNAVA	NT			
me Log															
ime Time	Dur (hr)	End Depth (ftKB)		Sub-Activ	itv										
:00 07:00	1.00	826	SET SL	IPS/CUT	riy .	FINIS	SH CUT OFF	OE 20" (COO ANI	Com					NE
.00 40 00			CSG/CN				001011	01 20 (JOG AIVE	DRESS.					N
:00 12:00	5.00	826	WELD (DN/INST	ALL WH	WEL	D ON 20 3/4	" 3M X 20	" SOW I	W/ BASE PLA	E AND T	FOT TO			
									N W/ LE	A CO BLM OF	BOP TE	ST NOT	550 PSI.	***GEOLEX	N
00 22:00	10.00	000	AUL DOD			A DECEMBER OF									
22.00	10.00	020	NU BOP			PJSN	W/ BATTLI	ETESTIN	IG RIG U	P AND NU 21	1/4" 2M /	NNULE	R. SPOO	I S AND	N
00 04:00	6.00	826	TEST BO	DP EOU	ID			I LLIVI							I IN
	0.00	020	ILOI DO	JP EQU	IP	PJSN	W/ BATTLE	ETESTIN	IG RU A	ND TEST ALL	CHOKE	VALVES	, ANNULE	R. HCR 4"	N
															14
							SED UP	NG TOP I	DRIVE A	ND MUD LINE	S BACK	TO PUM	P AND TE	ST TRUCK	8
00 06:00	2.00	826	WO TOO	DLS		1	ON NEW E								
s & BHAs						1.00	OIT ITEV L	OF IES	TRUCK						N
un Size (ii	n) Ma	ke Model	SN		Depth In (ft	Depth	Out Length	(ft) Job D	rill Hr Jol	o Circ Hr Avg RC	D /f Dot T	ma (hw) lo			
#	10	Min Weight on Bit	(1000) -0	TV CONTRACTOR							/ (I KOL I	ine (nr) Si	ide ilme	Nozzles (1/32")	
		viii vveignt on Bit	(1000lbt)	Max We	ight on Bit (1	000lbf)	Min RPM (rpm)	Max R	PM (rpm)	Min St	and Pipe P	ressure (psi)	Max Stand Pipe	Proceuro /r
g Length (ft)					-	-	1	Isoloiphi -50	21: 1			1100117001	(Lay)	max otang ripe	Liessule (F
I Chair - O								Weight of S	String in Air	(1000lbf)					
Jts Con	nponent	S													
JIS				Item D	Des					OD (in)	1	Len (ft)		Cum Le	on (ft)
ing Parame	tore													Currice	211 (11)
ore		Depth (ftKB)	End F	Depth (ftKB)	le le										
		pa: (ia ib)	Liid	repai (IINB)		oum Dept	h Drilled (ft)	Drilling Tim	e (hr)	Cum Drilling T	ime (hr)	Interval R	OP (ft/hr)	Flow Rate (g	gpm)
nt on Bit (1000lb)	RPM	(rpm)	Stand	Pipe Press	sure (psi)	Orill Str W	t (1000lbf)	PU Str Wt ((1000lbf)	SO Str W# (40	OOILO	D. 181			
moulie Cele	1 41				" 1		. (1300.0.)	1000 001	(TOOOIDI)	SO Str Wt (10	OOID1)	Drilling To	orque	Off Bottom T	Torque
raulic Calcu draulic Power (h									*			L.			
uraulic Power (n	p)	Bit Hy	draulic Pow	er Per Hole	Area (hp/in	2) Bit Jo	et Velocity (ft/s)			Bit Pressure Drop (osi)		Percent of F	Pressure Drop at E	Rit (%)
asing AV (ft/min)	Max C	pen Hole A	\/ (ft/min)		NAS- C	Santas Alleman							January Brop at E	Sit (70)
			Pot Hote A	v (rottimi)		IMIN (Casing AV (ft/min)		Min Open Hole AV (ft/min)		ECD End (II	o/gal)	
Properties															
Properties				1-											
0		pe Salt Base		Depth (ftl-	KB)		Density (lb/gal) 9.8			Viscosity (s/qt)	PV Cal	(cP)		YP Calc (lbf/100ft	t²)
sec (lbf/100ft²)		el 10 min (lbf/100	ft²)	10.00	nL/30min)	-	Filter Cake (1/3	2"\	28 pH	1000	1	•		2	
							I inci cake (1)	2)	7.0		Solids (%)		Lime (lb/bbl)	
des (mg/L) 000	P	m Filtrate (mL/mL)	Calcium ((mg/L)		Electric Stab (V)	Pm (ml	./mL)	Pf (mL/	mL)		Percent Oil (%)	
ater Ratio	FI	ow Line Tempera	ture (°F)	Vis 6rpm	- Miles	-	Low Consit. C-	lide (0/ \	14-	strong (ac - N)	0.00			0.0	
0	<u> </u>			1			Low Gravity So 10.7	iids (70)	437.0	sium (mg/L) 100	HTHP	iltrate (mL	30min)	HTHP Filter Cake	(1/32")
ackground Gas		Max Backgrou	und Gas		Min Conne	ction Gas		Max Connec	ction Gas	Max	Trip Gas		Max	H2S (ppm)	
Additive A	mounts				-							-			
Des			Units			Rec			Consumed		On	Loc		Returned	d
														110001160	7
p# 1, Tripl	lex														
Number		Start 0				End	Date			Make	-	******	Model		
		11/2	/2016 06	:00		1000				Bomco			F-1600		

	ply Item Des	Unit Label	Received	Consumed	Cum On Loc	Returned		
RIG DIESE	EL	gal us		487.0 14,987.0				
Costs Sun	nmary		***************************************					
Billing Category		Cost Des		Daily Field Est (Cost)	Cum Fld Est (Cost)	AFE Amt (Cost)		
209	D-Daywork	Contract		\$16,000	\$107,000	\$0		
210	D-Direction	al Drlg Services		\$7,800	\$23,100	\$0		
211	D-Fuel & Po	ower		\$1,060	\$11,150	\$0		
213	D-Bits			\$7,500	\$15,000	\$0		
214	D-Mud & Cl	hemicals		\$3,692	\$8,123	\$0		
217	D-Cement S	Surface		\$13,900	\$42,960	\$0		
224	D-Geologic	/Engnrg		\$6,700	\$33,500	\$0		
226	D-Company	y Sprvsn		\$1,800	\$12,600	\$0		
227	D-Contract	Sprvsn		\$3,200	\$22,400	\$0		
228	D-Tstg Csg	/Tbg		\$1,350	\$26,370	\$0		
235	D-Rentals-S	Surface		\$14,200	\$52,220	\$0		
236	D-Rentals-S	Subsrfc		\$2,650	\$22,380	\$0		
237	D-Trucking/	/Forklift/Rig Mobil		\$550	\$162,165	\$0		
238	D-Welding	Services		\$1,950	\$4,250	\$0		
244	D-Envmntl/Clsd Loop		\$2,750	\$40,650	\$0			
405	D-Wellhead	l Equip	representative from the second for 	\$11,050	\$11,050	\$0		



Date: 11/7/2016

Report #: 8.0 DSS: 5.13

Well Name: ZIA AGI #2D Lat: 32.643951 Long: -103.811116 TD/TVD, 14,750 TD/VS, 0 Proposed: <typ1>, <de <typ1>, <d TD/MD, 14,750

Rig Phone #: (432) 853-9909 #/Crew: FREEDOM Contractor: SCANDRILL

Area: AGI Field Name: AGI Asset Group: DELAWARE BASIN API/UWI: 30-025-42207 State: NM County: LEA Permit #: Prospect: End Depth (ftKB): 953.0

End Depth (TVD) (ftKB): 952.8 Ground Elevation (ft): 3,547.00 Spud Date: 11/2/2016 03:00 Original KB Elevation (ft): 3,572.00 24 Hr Progress (ft): 127.00 Rig Release Date: KB-Ground Distance (ft): 25.00 Drilling Hours (hr): 6.00 Target Formation: DEVONIAN

Total AFE Amount (Cost) 009612

Cum Field Est To Date (Cost) \$866,560 Daily Field Est Total (Cost) \$51,002 Job AFE Amount (Cost)

Daily Activity from 11/6/2016 - 11/7/2016

Operations at Report Time

DRLG 17 1/2" 1ST INTERMEDIATE W/ SHC @ F/ 826' - 953'. 127'

Past 24 Hours Operation Summary

FINISH TESTING MUD LINES, TOP DRIVE AND PUMPS, PU/MU 17 1/2" SHC BHA, SCRIBE AND TEST, TIH, RIG SERVICE, TEST CSG TO 1000 PSI, DRILL CMT AND FLOAT EQUIPMENT, @ 865' RIG REPAIRE, TOP DRIVE ELECTRICAL ISSUES, DRILL 17 1/2" HOLE F/ 826' TO XX

Operations Next Report Period

DRILL 17 1/2" INTERMEDIATE HOLE W/ SHC.

Incident Reported | Accident Reported | Daily Contact CONTRACT DRLG FRMN, JOE HARRIS, ; CONTRACT DRLG FRMN, RONNIE DUNNAVANT, No No

r	ir	n	e	1	13	0	•	
п	ц	н	C	1	4	u	ч	

Start	End		End Depth		Com	NPT?
Time	Time	Dur (hr)	(ftKB)	Sub-Activity		No
06:00	08:30	2.50	826	TEST BOP EQUIP	@ 826' FINISH TESTING TOP DRIVE, MUD LINES BACK TO PUMPS, 2000 HI, 250 LOW.	25.00
08:30	12:00	3.50	826	PU/LD BHA	PU/MU 17 1/2" BHA, DIR/SHC TOOLS SCRIBE AND TEST, AND MU BIT.	No
12:00	14:30	2.50	826	TIH DO FLT EQUIP	TIH W/ 17 1/2" SHC BHA, TAG CMT @ 775', PICK UP PREPARE TO TEST CSG. WENT IN W/ 9 5/8" 1.83* ADJ 6/7 LOBE 4.0 STAGE .16 REV MPACT MTR AND BAKER HUGHES DP606X BIT.	No
14:30	16:30	2.00	826	TEST CSG	@ 774' RIG BATTLE TESTER BACK UP AND TEST CSG 1000 PSI FOR 30 MIN, TEST GOOD.	No
16:30	17:00	0.50	826	LUBRICATE RIG	SERVICE RIG AND TOP DRIVE.	No
17:00	19:00	2.00	826	D/O CMT/ FLT EQUIP	DRLG CMT, FLOAT AND SHOE F/ 775' TO 826' FC @ 779'.	No
19:00	21:00	2.00		DRLG W/SHC	DRLG 17 1/2" 1ST INTERMEDIATE W/ SHC AND MWD SURVEYS F/826' TO 865', 40' @ 20 FPH. *** DRLG 17 1/2" 1ST INTERMEDIATE @ 19:00 MST ON 11/6/2016.***	No
21:00	02:30	5.50	865	ELECTRICAL	@ 865' PULL STAND BACK INTO CSG, TROUBLE SHOOT TOP DRIVE ELECTRICAL ISSUES WITH BLOWER AND GRABBER. FOUND BROKEN WIRES.	No
02:30	06:00	3.50	953	DRLG W/SHC	DRLG 17 1/2" 1ST INTERMEDIATE HOLE W/ SHC AND MWD SURVEYS F/ 865' TO 953', 88' @ 25.4 FPH, HAVING TO RELOG GAMMA EVERY STAND DUE TO VIBRATION OF 17 1/2" BIT.	No

Bits & Bi	Bits & BHAs Bits Queen Longth (ft) Job Drill Hr Job Circ Hr Avg ROP (f Rot Time (hr) Slide Time Nozzles (1/32")												
Bit Run	Size (in) 17 1/2	Make Hughes	Model DP606X	The state of the s		Depth 953.0		Job Drill Hr. 6.00	Job Circ Hr	Avg ROP (f 21.2	Rot Time (hr) 6.00	Slide Time	Nozzies (1/32") 16/16/16/16/16/16/16/16/16
BHA#	117 1/2	1.1.3	nt on Bit (1000)	1	eight on Bit (10	100lbf)	Min RPM (rpm) 183		Max RPM (rpm) 183		Min Stand Pip 2,260.0	e Pressure (psi)	Max Stand Pipe Pressure (psi) 2,260.0

Weight of String in Air (1000lbf) String Length (ft) 953.06 102

Drill	String	Components
-	.lts	

	Components Item Des	OD (in)	Len (ft)	Cum Len (ft)
Jts	1 Drill Pipe	5	31.70	953.06
		6 1/4	2.13	921.36
	1 XO Sub	6 1/2	612.16	919.23
	1 Drill Collar	7 1/2	1.91	307.07
1000	1 XO Sub	8	88.02	305.16
	3 Drill Collar	7 1/2	2.27	217.14
	1 XO Sub			214.87
	3 Drill Collar	9 1/2	88.85	
	1 XO Sub	7 1/2	2.17	126.02
	1 NMDC	8	30.61	123.8
	1 NMDC	8	30.73	93.24
	1 Orientation Sub	8	2.69	62.5
	1 XO Sub	7 1/2	3.80	59.82
		9	12.28	56.02
	1 Shock Sub	9 11/16	8.65	43.7
	1 Reamer - 3 Pt	7 1/2	3.19	35.0
	1 XO Sub	7 3/4	29.90	31.9
	1 Mud Motor	1 3/4	29.90	01.0

Drilling Parameter	rs					1.000 (00-)	Flow Rate (gpm)
Wellbore Original Hole	Start Depth (ftKB) 826.0	End Depth (ftKB) 953.0	Cum Depth Drilled (ft) 127.00	Drilling Time (hr) 6.00	Cum Drilling Time (hr) 6.00	Interval ROP (ft/hr) 21.2	704
Weight on Bit (1000lbf)	RPM (rpm)	Stand Pipe Pressure (psi) 2.260.0	Drill Str Wt (1000lbf) 130	PU Str Wt (1000lbf) 130	SO Str Wt (1000lbf) 129	Drilling Torque 5.0	Off Bottom Torque 1.0

Hydraulic Calculations				1" 27 2 180 (9)
Bit Hydraulic Power (hp)	Bit Hydraulic Power Per Hole Area (hp/in²) 0.2	Bit Jet Velocity (ft/s) 127.8	Bit Pressure Drop (psi) 145.0	Percent of Pressure Drop at Bit (%) 6
59.6 Max Casing AV (ft/min)	Max Open Hole AV (ft/min)	Min Casing AV (ft/min)	Min Open Hole AV (ft/min)	ECD End (lb/gal)
Max Casing AV (turniti)	INIAX Oper Froid Av (Initial)	E1 4	27.8	19.80

Well Name: ZIA AGI #2D

DSS: 5.13

Lat: 32.643951 Long: -103.811116

Proposed:									Lat	32.64395	1 Long	j: -103.811116
Pump # 1, T	riplex					- Continue or Cont	122.			Model		
Pump Number 1		Start Date 11/2/201			End Date		Make Bon	nco	Lucatio Efficience	F-160	ıpm)	
Pressure (psi) 2,250.0		Strokes (spm) 100		roke Leng 2.00	th (in)	n (in) Rod Diameter (in) Volumetric Efficiency (%) 95						
Pump # 2, T	riplex						Tea-t			Model		
Pump Number 2	11/2/2016 06:00			End Date		Make Bomco			F-16	F-1600		
Pressure (psi) 2,250.0	250.0 100 12.00			th (in)	Rod Diamete	r (in)	95	lumetric Efficiency		352	gpiny	
Survey Data							(6)		IC (#)	EW (ft)		DLS (°/100ft)
MD (ftKE		Incl (°)	Azm (°)	0.00	TVD (ftKB)	VS	(ft) 9.87	N	4.20	Evv (it)	-8.98	0.52
	953.00	2.20		2.60	839.88 952.80		14.11		7.13		-12.17	0.00
		2.20		2.00						100 100		
Casing Strir	ngs	Csg Des		- 1	OD (in)	Shoe Join	t Volume (lb/ft)) [Grade	Set Depth (f		FIT (psi)
Conductor		Csg Des			3		118.52				120.0	
Surface	****				2	0	106.50	J-55		-	826.0	
BOPs												
Pressure Rating 2,000.0	(psi)			Iominal ID (21 1/4	(in)				ast BOP Test Date 1/5/2016			
Formation								A	Prog Top N	ID (ftKR)		
TOP OF SA	IT	Formation	n Name						Tiog Top ii	io (iato)		889.00
	osal and Wate	er										
	/ Item Des	Unit I	abel		Received		Consumed		Cum Or			Returned
RIG DIESEL		gal us					1	,006.0		13,981.0		
Costs Sumi	mary			-								
Billing Category			Cost Des				Daily Field E			Id Est (Cost)		AFE Amt (Cost) \$0
209	D-Daywork Co	ontract						\$16,00		\$123,00		\$0
210	D-Directional I	Drlg Services						\$6,30		\$29,40	ALC: NAME OF TAXABLE PARTY.	\$0
211	D-Fuel & Pow	er						\$2,18	The State of the S	\$13,3		\$0
214	D-Mud & Cher	micals						\$3,69		\$11,8		\$0
224	D-Geologic/Er	ngnrg						\$6,7	- CO	\$40,2 \$14,4		\$0
226	D-Company S							\$1,8 \$3,2		\$25,6		\$0
227	D-Contract Sp	Marie Company						\$6,0		\$58,2		\$0
235 D-Rentals-Surface							\$0,0		\$22,530			
236	D-Rentals-Sul	CONTRACTOR OF THE PARTY OF THE						\$2,1	The second second second	\$164,3		\$0 \$0
237		orklift/Rig Mobi	la de la companya de					\$2,7		\$43,4		\$0
244	D-Envmntl/Cls	sa Loop						Ψ2,1				



Contractor: SCANDRILL

Spud Date: 11/2/2016 03:00

County: LEA

Prospect:

Daily Drilling Report

Date: 11/8/2016

Report #: 9.0

DSS: 6.13

Well Name: ZIA AGI #2D

Asset Group: DELAWARE BASIN

Proposed: <typ1>, <de

<typ1>, <d TD/MD, 14,750

TD/TVD, 14,750 TD/VS, 0

Lat: 32.643951 Long: -103.811116

Rig Phone #: (432) 853-9909 Field Name: AGI

API/UWI: 30-025-42207

\$938,900

Permit #:

Ground Elevation (ft): 3,547.00

Original KB Elevation (ft): 3,572.00 KB-Ground Distance (ft): 25.00

Target Formation: DEVONIAN Drilling Hours (hr): 23.50 AFE Number 009612 Total AFE Amount (Cost)

Daily Field Est Total (Cost) Cum Field Est To Date (Cost)

Daily Activity from 11/7/2016 - 11/8/2016

Operations at Report Time

Job AFE Amount (Cost)

Rig Release Date:

DRLG 17 1/2" INTERMEDIATE HOLE F/ 953' TO 2,440', 1,487' @ 30 FPH.

Past 24 Hours Operation Summar

DRILL 17 1/2" 1ST INTERMEDIATE HOLE F/ 953' TO 2,440', RIG SERVICE.

Operations Next Report Period
FINISH DRLG 17 1/2" HOLE TO TD F/2,440' TO 2,600' TD/ CSG POINT. PUMP SWEEPS AND CIRC, WIPER TRIP, TOH LD 9 5/8" BHA, RUN SLB OH FLUID CALIPER, RU AND RUN 13 3/8" CSG, RU AND CMT CSG, ND, SET SLIPS, WOC.

Incident Reported Daily Contacts
CONTRACT DRLG FRMN, JOE HARRIS, ; CONTRACT DRLG FRMN, RONNIE DUNNAVANT, Accident Reported No No

#/Crew: FREEDOM

End Depth (ftKB): 2,440.0

24 Hr Progress (ft): 1,487.00

End Depth (TVD) (ftKB): 2,439.8

Area: AGI

State: NM

\$72,340

Time Log

Start Time	End Time	Dur (hr)	End Depth (ftKB)	Sub-Activity	Com	NPT?
06:00	12:00	6.00	1,296	DRLG W/SHC	DRLG 17 1/2" 1ST INTERMEDIATE W/ SHC AND MWD SURVEYS F/ 953' TO 1,296', 343' @ 57.1 FPH.	No
	12:30	0.50	1,296	LUBRICATE RIG	@ 1,296' SERVICE RIG AND TOP DRIVE.	No
12:30	06:00	17.50	2,451	DRLG W/SHC	DRLG 17 1/2" 1ST INTERMEDIATE W/ SHC AND MWD SURVEYS F/ 1,296' TO 2,451', 1,155' @ 66 FPH.	No

Bits & BHAs

Bit Run 2	Size (in) 17 1/2	Make Hughes	Model DP606X		Depth In (ft 826.0	Depth Out 2,440.0	Length (ft) 2.00	Job Drill H 29.50	Job Circ Hr.	Avg ROP (f 54.7	Rot Time (hr) 29.50		Nozzles (1/32") 16/16/16/16/16/16/16/16
BHA #		Min Weigh 35	t on Bit (1000lb	of) Max We	eight on Bit (10	00lbf) Min 18	RPM (rpm)		Max RPM (rpm) 183		Min Stand Pip 2,260.0	e Pressure (psi) Max Stand Pipe Pressure (psi) 2,880.0
Ctring Long	AL ICAL				The second second			TOWNS OF STREET		- Andrews			and the special section of the secti

2,451.95 **Drill String Components**

Weight of String in Air (1000lbf)	
132	

Jts	Item Des	OD (in)	Len (ft)	Cum Len (ft)
49	Drill Pipe	5	1,530.59	2,451.98
1	XO Sub	6 1/4	2.13	921.36
21	Drill Collar	6 1/2	612.16	919.23
1	XO Sub	7 1/2	1.91	307.07
3	Drill Collar	8	88.02	305.16
1	XO Sub	7 1/2	2.27	217.14
3	Drill Collar	9 1/2	88.85	214.87
1	XO Sub	7 1/2	2.17	126.02
1	NMDC	8	30.61	123.85
1	NMDC	8	30.73	93.24
1	Orientation Sub	8	2.69	62.51
1	XO Sub	7 1/2	3.80	59.82
1	Shock Sub	9	12.28	56.02
1	Reamer - 3 Pt	9 11/16	8.65	43.74
1	XO Sub	7 1/2	3.19	35.09
1	Mud Motor	7 3/4	29.90	31.90

Drilling Parameters

Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth Drilled (ft)	Drilling Time (hr)	Cum Drilling Time (hr)	Interval ROP (ff/hr)	Flow Rate (gpm)
Original Hole	953.0	2,440.0	1,614.00	23.50	29.50	63.3	704
Weight on Bit (1000lbf)	RPM (rpm)	Stand Pipe Pressure (psi) 2,880.0	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Bottom Torque
35	70		160	175	150	13,000.0	1,000.0

Hydraulic Calculations

61.1	0.3	127.8	148.7	Percent of Pressure Drop at Bit (%) 5
Max Casing AV (ft/min) 51.4	Max Open Hole AV (ft/min) 29.6	Min Casing AV (ft/min) 51.4	Min Open Hole AV (ft/min) 26.5	ECD End (lb/gal) 10.50
Error				

Mud Properties

Time 10:20	Type Salt Base	Depth (ftKB) 1,264	Density (lb/gal) 10.1	Funnel Viscosity (s/qt) 29	PV Calc (cP)	YP Calc (lbf/100ft²)
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH 11.0	Solids (%) 1.5	Lime (lb/bbl)
Chlorides (mg/L) 163,000	Pm Filtrate (mL/mL)	Calcium (mg/L)	Electric Stab (V)	Pm (mL/mL)	Pf (mL/mL) 0.10	Percent Oil (%) 0.0
Oil Water Ratio 0/100	Flow Line Temperature (°F) 100.0	Vis 6rpm	Low Gravity Solids (% 12.3	Magnesium (mg/L) 583.000	HTHP Filtrate (mL/30min)	HTHP Filter Cake (1/32")
Min Background Gas	Max Background Gas	Min Connection	Gas Max C	onnection Gas Max	Trip Gas M	ax H2S (ppm)



227

235

236

237

244

D-Contract Sprvsn

D-Rentals-Surface

D-Rentals-Subsrfc

D-Envmntl/Clsd Loop

D-Trucking/Forklift/Rig Mobil

Daily Drilling Report

Date: 11/8/2016

Report #: 9.0 DSS: 6.13

\$0

\$0

\$0

\$0

\$0

Well Name: ZIA AGI #2D Proposed:

Lat: 32.643951 Long: -103.811116

Pressure (psi) Strokes (spm) Stroke Length (in) Rod Diameter (in) Volumetric Efficiency (%) Flow Rate (gpm) 2,880.0 100 12.00 95 Survey Data MD (ftKB) incl (°) TVD (ftKB) DLS (°/100ft) 1,967.00 0.40 73.70 10.43 -12.72 0.05 1,966.78 16.15 2,060.00 0.50 64.80 2,059.78 15.92 10.70 -12.05 0.13 2,154.00 0.50 63.50 2,153.77 15.73 11.05 -11.31 0.13 2,247.00 0.40 2,246.77 15.51 11.33 -10.64 72.40 2,341.00 0.30 82.60 15.26 -10.08 0.12 2,340.77 11.46 2,440.00 82.60 14.98 11.53 -9.56 0.00 0.30 2,439.77 **Casing Strings** Csg Des OD (in) Shoe Joint Volume (lb/ft) Grade Set Depth (ftKB) FIT (psi) Conductor 30 118.52 A53 120.0 Surface 20 106.50 J-55 826.0 **BOPs** Pressure Rating (psi) Nominal ID (in) Last BOP Test Date 11/5/2016 2,000.0 21 1/4 Formation Prog Top MD (ftKB) Formation Name YATES 2,426.00 Fluids, Disposal and Water Supply Item Des Unit Label Received Consumed Cum On Loc Returned **CUTTINGS BIN** BIN -17.0 9.0 POTABLE WATER GAL 6,300.0 -6,300.0 RIG DIESEL gal us 2,180.0 11,801.0 **Costs Summary** Billing Category Cost Des Daily Field Est (Cost) Cum Fld Est (Cost) AFE Amt (Cost) 209 \$0 **D-Daywork Contract** \$139,000 \$16,000 210 \$0 **D-Directional Drlg Services** \$6,300 \$35,700 D-Fuel & Power 211 \$0 \$4,735 \$18,070 D-Water \$0 212 \$1,330 \$16,380 214 D-Mud & Chemicals \$8,440 \$20,255 \$0 224 D-Geologic/Engnrg \$6,700 \$46,900 \$0 226 D-Company Sprvsn \$1,800 \$16,200 \$0

\$3,200

\$9,425

\$1,610

\$12,650

\$150

\$28,800

\$67,720

\$22,680

\$165,925

\$56,050



Date: 11/9/2016

Well Name: ZIA AGI #2D

Report #: 10.0

DSS: 7.13

Contractor: SCANDRILL

Proposed: <typ1>, <de <typ1>, <d TD/MD, 14,750 #/Crew: FREEDOM

TD/TVD, 14,750 TD/VS, 0

Lat: 32.643951 Long: -103.811116

County: LEA

Asset Group: DELAWARE BASIN

Area: AGI State: NM

Total AFE Amount (Cost)

Rig Phone #: (432) 853-9909 Field Name: AGI API/UWI: 30-025-42207

Prospect: Spud Date: 11/2/2016 03:00 End Depth (ftKB): 2,555.0 End Depth (TVD) (ftKB): 2,554.8

Permit #: Ground Elevation (ft): 3,547.00

Rig Release Date: Target Formation: DEVONIAN 24 Hr Progress (ft): 115.00 Drilling Hours (hr):

Original KB Elevation (ft): 3,572.00

009612

KB-Ground Distance (ft): 25.00

Job AFE Amount (Cost)

Daily Field Est Total (Cost) \$54,843

Cum Field Est To Date (Cost) \$993,743

Daily Activity from 11/8/2016 - 11/9/2016

RIG UP CSG CREW TO RUN 13 3/8" CSG.

Past 24 Hours Operation Summan

TRIP F/ BIT @ 2440'. DRLG 17 1/2" 1ST INT HOLE F/ 2440' - 2555'. CIRC. SHORT TRIP. CIRC. TOH & LD 17 1/2" BHA. RU & RUN CALIPER LOG. RU CSG CREW.

Operations Next Report Period

RUN 13 3/8" CSG. CIRC 13 3/8" CSG. CMT 13 3/8" CSG. SET SLIPS ON 13 3/8" CSG. WOC. CUT OFF. NU BOP.

No No

CONTRACT DRLG FRMN, JOE HARRIS, ; CONTRACT DRLG FRMN, GEORGE SMITH,

Ime	Log

Start Time	End Time	Dur (hr)	End Depth (ftKB)	Sub-Activity	Com	T
06:00	07:30	1.50	2,440	PUMP SWEEP	PUMP SWEEP & CIRC OUT F/ BIT TRIP.	NPT?
07:30	09:30	2.00	2,440	TOH BIT	TOH DUE TO LOW ROP @ 2440'.	No
09:30	12:30	3.00	2,440	TIH BIT	MAKE UP NEW BIT & TIH.	No
12:30	13:00	0.50	2,440	LUBRICATE RIG	SERVICE RIG & TOP DRIVE.	No
13:00	15:00	2.00	2,440	DIESEL ENGINES - GENERATOR - ELECTRICAL	TROUBLE SHOOT RENTAL GENERATOR & REBOOT PASON.	No
15:00	17:00	2.00	2,555	DRLG W/SHC	DRLG 17 1/2" 1ST INTERMEDIATE W/ SHC AND MWD SURVEYS F/ 2,440' - 2,555', 115' @ 57.5 FPH.***TD 17 1/2" 1ST INTERMEDIATE @ 1700 11/8/16.***	No
17:00	18:00	1.00	2,555	CIRC BTMS UP	PUMP SWEEP & CIRC OUT.	No
18:00	19:00	1.00	2,555	SHORT TRIP	WIPER TRIP F/ 2555' - 2046'. NO ISSUES.	No
19:00	20:30	1.50	2,555	PUMP SWEEP	PUMP SWEEP & CIRC OUT.	No
20:30	01:00	4.50	2,555	TOH TD CSG PT/ KOP	TOH TO RUN 13 3/8" CSG. LD 17 1/2" BHA & 10" DCS. ***GEOLEX NOTIFIED STEPHEN BAILEY W/ BLM OF INTENT TO RUN 13 3/8" CSG @ 1617 11/8/16.***	No
01:00	04:00	3.00	2,555	OH CALIPER	PJSM - RU SHLUMBEGER & RUN OH CALLIPER LOG.	No
	06:00	2.00	2,555	RU CSG EQUIP	PJSM - RU FRANKS CSG CREW & BYRD LD MACHINE.	No
Bits &	BHAs	-				10

-	Co	Gr.	101	IMO		
Dit	Di	n	-	loine	(in)	

3	17 1/2		1	7036661	2,440.0	2,555	Length (ft) 2.00	2.00	Hr Job Circ Hr 2.50	57.5	2.00		Nozzles (1/32") 16/16/16/16/16/16/16/16
BHA #		Min Weigh 41	it on Bit (1000li	of) Max We	eight on Bit (10	00lbf)	Min RPM (rpm) 179		Max RPM (rpm) 179		Min Stand Pipe 2,826.0	e Pressure (psi)	Max Stand Pipe Pressure (psi) 2.826.0
String Length	n (ft)						Iv	Veight of Stri	ng in Air (1000lbf)				

134

Drill String Components

Make

Jts	Item Des	OD (in)	Len (ft)	Cum Len (ft)
	Drill Pipe	5	1,655.57	2,576.93
	XO Sub	6 1/4	2.13	921.36
21	Drill Collar	6 1/2	612.16	919.23
1	XO Sub	7 1/2	1.91	307.07
	Drill Collar	8	88.02	305.16
1	XO Sub	7 1/2	2.27	217.14
3	Drill Collar	9 1/2	88.85	214.87
1	XO Sub	7 1/2	2.17	126.02
1	NMDC	8	30.61	123.85
1	NMDC	8	30.73	93.24
1	Orientation Sub	8	2.69	62.51
1	XO Sub	7 1/2	3.80	59.82
1	Shock Sub	9	12.28	56.02
1	Reamer - 3 Pt	9 11/16	8.65	43.74
1	XO Sub	7 1/2	3.19	35.09
1	Mud Motor	7 3/4	29.90	31.90

Drilling Parameters

Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth Drilled (ft)	Drilling Time (hr)	Cum Drilling Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
Original Hole	2,440.0	2,555.0	115.00	2.00	2.00	57.5	661
Weight on Bit (1000lbf)	RPM (rpm)	Stand Pipe Pressure (psi) 2,826.0	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Bottom Torque
41	74		182	185	178	15,000.0	1,000.0

Hydraulic Calculations

	0.8	0.2 O.2	Bit Jet Velocity (ft/s) 120.0	Bit Pressure Drop (psi) 131.8	Percent of Pressure Drop at Bit (%) 5
M	ax Casing AV (ft/min)	Max Open Hole AV (ft/min)	Min Casing AV (ft/min)	Min Open Hole AV (ff/min)	ECD End (lb/gal)



Date: 11/9/2016

Report #: 10.0

DSS: 7.13

Well Name: ZIA AGI #2D

Start Date

Proposed:

Lat: 32.643951 Long: -103.811116 Pump # 1, Triplex Pump Number Start Date End Date

Make Model 11/8/2016 06:00 11/8/2016 17:00 Bomco F-1600 Pump # 2, Triplex

Pump Number 2 End Date Make Model 11/8/2016 06:00 11/8/2016 17:00 Bomco F-1600 Survey Data

MD (ftKB) Incl (°) Azm (°) TVD (ftKB) VS (ft) NS (ft) DLS (°/100ft) EW (ft) 2,476.00 0.20 225.00 2,475.77 15.04 11.33 -9.90 0.33 2,555.00 0.20 225.00 2,554.77 15.03 11.13 -10.10 0.00 **Casing Strings**

Csg Des OD (in) Shoe Joint Volume (lb/ft) Grade Set Depth (ftKB) FIT (psi) Conductor 118.52 A53 120.0 Surface 106.50 J-55 20 826.0 Intermediate 13 3/8 61.00 J-55 2,555.5 **BOPs**

Pressure Rating (psi) Nominal ID (in) Last BOP Test Date 2,000.0 21 1/4 11/5/2016 Formation

Formation Name Prog Top MD (ftKB) YATES 2,426.00

Fluids, Disposal and Water Supply Item Des Unit Label Received Consumed Cum On Loc Returned **CUTTINGS BIN** BIN 1.0 -18.0 MUD/SOLIDS/CMT LOAD -18.0 DISPOSAL RIG DIESEL gal us 1,557.0 10,244.0

Costs Summary Billing Category Cost Des Daily Field Est (Cost) Cum Fld Est (Cost) AFE Amt (Cost) 209 D-Daywork Contract \$16,000 \$155,000 \$0 210 D-Directional Drlg Services \$6,300 \$42,000 \$0 211 D-Fuel & Power \$3,378 \$21,448 \$0 213 D-Bits \$3,500 \$18,500 \$0 224 D-Geologic/Engnrg \$6,700 \$53,600 \$0 226 D-Company Sprvsn \$1,800 \$18,000 \$0 227 D-Contract Sprvsn \$3,200 \$32,000 \$0 230 **D-Logging** \$6,500 \$6,500 \$0 235 D-Rentals-Surface \$2,715 \$70,435 \$0 236 D-Rentals-Subsrfc \$150 \$22,830 \$0 D-Trucking/Forklift/Rig Mobil 237 \$750 \$166,675 \$0 244 D-Envmntl/Clsd Loop

\$3,850

\$59,900

\$0



Well Name: ZIA AGI #2D

Daily Drilling Report

Date: 11/10/2016

Report #: 11.0 DSS: 8.13

Proposed: <typ1>, <de <typ1>, <d TD/MD, 14,750 TD/TVD, 14,750 TD/VS, 0 Lat: 32.643951 Long: -103.811116

#/Crew: FREEDOM Rig Phone #: (432) 853-9909 Contractor: SCANDRILL

Asset Group: DELAWARE BASIN Area: AGI Field Name: AGI County: LEA State: NM API/UWI: 30-025-42207 Prospect: End Depth (ftKB): 2,555.0 Permit #:

Spud Date: 11/2/2016 03:00 End Depth (TVD) (ftKB): 2,554.8 Ground Elevation (ft): 3,547.00 Rig Release Date: Original KB Elevation (ft): 3,572.00 24 Hr Progress (ft): 0.00 Target Formation: DEVONIAN Drilling Hours (hr): KB-Ground Distance (ft): 25.00

Total AFE Amount (Cost) 009612

Daily Field Est Total (Cost) \$118,740 Cum Field Est To Date (Cost) \$1,112,483 Job AFE Amount (Cost)

Daily Activity from 11/9/2016 - 11/10/2016

Operations at Report Time

NU 20" 3M X 13 5/8" 5M B SECTION.

Past 24 Hours Operation Summary

RU & RUN 13 3/8" 61# J55 CSG @ 2555'. CIRC 13 3/8" CSG CAP W/ RIG PUMP. CMT 13 3/8" CSG. WOC 4 HRS / SET 13 3/8" SLIPS WHILE WOC. CUT OFF 13 3/8' CSG & NU 20" 3M X 13 5/8" 5M B SECTION.

Operations Next Report Period

NU & TEST BOP. RU & RUN CBL. MAKE UP 12 1/4" BHA & TIH. DRLG CMT & 13 3/8" FLOAT EQUIPMENT. DRLG 12 1/4" 2ND INT.

Incident Reported Accident Reported Daily Contact No No CONTRACT DRLG FRMN, JOE HARRIS, ; CONTRACT DRLG FRMN, GEORGE SMITH,

Time	Log
------	-----

Start Time	End Time	Dur (hr)	End Depth (ftKB)	Sub-Activity	Com	NPT?
06:00	08:00	2.00	2,555	RU CSG EQUIP	CONTINUE RIGGING UP FRANKS CSG CREW & BYRD LD MACHINE.	No
08:00	13:30	5.50	2,555	RUN CSG	MU & SURFACE TEST FLOAT EQUIP, RAN 6 JTS 13-3/8" 68# & 51 JTS 13 3/8" 61# J-55 BTC TP = 2559.54', SET @ 2555'. WASHED TO BTM, NO FILL.	No
13:30	15:00	1.50	2,555	CIRC CSG CAP/BTMS UP	CIRC 13 3/8" CSG W/ RIG PUMPS. RIG DOWN CSG CREW & LD MACHINE.	No
15:00	19:30	4.50	4.50 2,555 CMT PJSM - RU HALLIBURTON. TEST LINES TO 3000 PSI & CMT CSG AS FOLLOWS: 20 BBL FW GEL W/ RED DYE SPACER. LEAD: 1700 SKS HALCEM CLASS C @ 13.5 PPG, 1.73 YLD. TAIL: 250 SKS HALCEM C W/ @ 14.8 PPG, 1.33 YLD. DROP PLUG & DISP W/ 382 BBLS FW, BUMP PLUG W/ 870 PSI. PD @ 1928 11/9/16. FLOATS HELD, WELL STATIC. CIRC 428 SKS CMT TO SURF. ***WITNESSED BY STEVEN BAILEY OF BLM.***		No	
19:30	21:30	2.00	2,555	SET SLIPS/CUT CSG/CNDCTR	ND & SET SLIPS W/ 110 K. WOC.	No
21:30	23:30	2.00	2,555	WOC	CONTINUE WOC FOR A TOTAL OF 4 HRS PRIOR TO CUTTING OFF CSG.	No
23:30	04:30	5.00	2,555	WELD ON/INSTALL WH	OON/INSTALL WH CUT OFF 13 3/8" CSG & INST 20" 3M X 13 5/8" 5M B SECTION. ATTEMP TO TEST. SEALS LEAKING.	
04:30	06:00	1.50	2,555	WELD ON/INSTALL WH	REMOVE B SECTION & RE TIGHTEN SEAL RING. RE INSTALL B SECTION.	No
Bits &	BHAs	<u> </u>				

Bit Run 3	Size (in) 17 1/2	Make BAKER HUG	Model HC605S					Job Drill Hr 2.00	Job Circ Hr 2.50	Avg ROP (f 57.5	Rot Time (hr) 2.00		Nozzles (1/32") 16/16/16/16/16/16/16/16/16
BHA #	- h	Min Weigh 41	t on Bit (1000li	of) Max We	eight on Bit (100	00lbf)	Min RPM (rpm) 179		Max RPM (rpm) 179		Min Stand Pip 2,826.0	e Pressure (psi	Max Stand Pipe Pressure (psi) 2,826.0

Weight of String in Air (1000lbf) 2,576.93

DIMI	Sumg	Components
-		

Drilling Boromotor

74

41

Jts	Item Des	OD (in)	Len (ft)	Cum Len (ft)
53	Drill Pipe	5	1,655.57	2,576.93
1	XO Sub	6 1/4	2.13	921.36
21	Drill Collar	6 1/2	612.16	919.23
1	XO Sub	7 1/2	1.91	307.07
3	Drill Collar	8	88.02	305.16
1	XO Sub	7 1/2	2.27	217.14
3	Drill Collar	9 1/2	88.85	214.87
1	XO Sub	7 1/2	2.17	126.02
1	NMDC	8	30.61	123.85
1	NMDC	8	30.73	93.24
1	Orientation Sub	8	2.69	62.51
1	XO Sub	7 1/2	3.80	59.82
1	Shock Sub	9	12.28	56.02
1	Reamer - 3 Pt	9 11/16	8.65	43.74
1	XO Sub	7 1/2	3.19	35.09
1	Mud Motor	7 3/4	29.90	31.90

brining i aramete	10						
Wellbore Original Hole	Start Depth (ftKB) 2.440.0	End Depth (ftKB) 2,555.0	Cum Depth Drilled (ft) 115.00	Drilling Time (hr) 2.00	Cum Drilling Time (hr) 2.00	Interval ROP (ft/hr) 57.5	Flow Rate (gpm) 661
Weight on Bit (1000lbf)	RPM (rpm)	Stand Pipe Pressure (psi)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Bottom Torque

185

15,000.0

178

1,000.0

Hydraulic Calculations				
Bit Hydraulic Power (hp)	Bit Hydraulic Power Per Hole Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Percent of Pressure Drop at Bit (%)
Max Casing AV (ft/min)	Max Open Hole AV (ft/min)	Min Casing AV (ft/min)	Min Open Hole AV (ft/min)	ECD End (lb/gal)

182

2,826.0



Date: 11/10/2016

Report #: 11.0

DSS: 8.13

Well Name: ZIA AGI #2D

Proposed:

Lat: 32.643951 Long: -103.811116

Proposed								Lat	: 32.643951	Long	g: -103.8111	116
Mud Additi	ve Amounts	e in grande and a second			****	*						
	Des	Units			Rec	Consumed		On Lo	0		Returned	
SALT GEL		50# SACK					100.0		100.0			
SOAP STIC	KS	STICK					15.0		15.0			
SODA ASH		50# SACK					6.0		44.0			
Pump # 1,	Triplex											
Pump Number		Start Date			End Date	Make		and the same of th	Model			
1	<u> </u>	11/8/2016	06:00		11/8/2016 17:00	Bon	100		F-1600			
Pump # 2,	Triplex	Tours			Te . i S . i	Turk			Treater			
Pump Number		Start Date 11/8/2016	06:00		End Date 11/8/2016 17:00		Make Model F-1600					
Survey Data												
MD (ftK		Incl (°)	Azm (°)		TVD (ftKB)	VS (ft)		NS (ft)	EW (ft)	- 10	DLS (°/100ft)	
	2,555.00	0.20	225	.00	2,554.77	15.03		11.13	-10).10		0.00
Casing Stri	ngs	the the section of the section of the section of										
		Csg Des			OD (in)	Shoe Joint Volume (lb/ft)		Grade	Set Depth (ftKB		FIT (psi)	
Conductor					30	118.52	A DESCRIPTION OF THE PERSON NAMED IN			20.0		
Surface					20	106.50				26.0		
Intermediate	В				13 3/8	61.00	J-55		2,5	5.5		
BOPs												
Pressure Rating 2,000.0	(psi)			minal ID (in)			Last BOP Test Date 11/5/2016				
Formation												
	reference (ASS)	Formation I	Name					Prog Top M	D (ftKB)			
YATES	- 10 10 10 10 10 10 10 10 10 10 10 10 10							-1			2,426	3.00
	posal and W				r							
CUTTINGS	y Item Des	BIN Unit Lab	oel		Received 1.0	Consumed	1.0	Cum On	-18.0		Returned	-
FRESH WA		LOAD			5.0		5.0		-28.0	-		_
JET PITS/W		HRS		_	8.0		8.0		-5.0		····	
LOCATION		ITIKS			8.0		0.0		-5.0			
MUD/SOLIE DISPOSAL	OS/CMT	LOAD			17.0		17.0		-18.0			
RIG DIESEI	1	gal us					961.0		9,283.0			
STANDBY		HRS			7.0		7.0	and the second second	-20.5			-
		ПКО			7.0		7.0		-20.5			_
Costs Sum Billing	mary											-
Category			Cost Des			Daily Field E	st (Cost)	Cum F	d Est (Cost)		AFE Amt (Cost)	
209	D-Daywork						\$16,0	000	\$171,000			\$0
210	D-Direction	al Drlg Services					\$6,3	300	\$48,300			\$0
211	D-Fuel & P	ower					\$2,		\$23,548			\$0
212	D-Water	##*					\$1,6		\$18,005			\$0
214	D-Mud & C	hemicals	and the second s				\$4,2	225	\$24,480		the second second	\$0
218	D-Cement	Intermed	W				\$36,0	000	\$36,000			\$0
221	D-Float Equ	uip/Centlzr		*			\$1,2	295	\$4,920			\$0
222	D-Csg Crev			-		Section of the sectio	\$15,		\$31,360			\$0
224	D-Geologic						\$6,		\$60,300			\$0
226	D-Compan						\$1,8		\$19,800	and the state of	10.	\$0
227	D-Contract		W. C				\$3,		\$35,200			\$0
235	D-Rentals-						\$2,		\$72,750			\$0
237	THE RESIDENCE OF SHARPS AND ADDRESS.	/Forklift/Rig Mobil	* and	-				550	\$167,225			\$0
238	D-Welding		Till and Till and		100 mt - 100	3-30-30-31-31-31-31-31-31-31-31-31-31-31-31-31-		350	\$4,900			\$0
244	D-Envmntl/				40 mm		\$20,		\$80,330			\$0
-11	- Liviniu	J.Ju Loop		-	the state of the s					_		



Date: 11/11/2016

Report #: 12.0 DSS: 9.13

Well Name: ZIA AGI #2D TD/TVD, 14,750 TD/VS, 0 <typ1>, <d TD/MD, 14,750 Proposed: <typ1>, <de

Lat: 32.643951 Long: -103.811116 Rig Phone #: (432) 853-9909

Contractor: SCANDRILL

Asset Group: DELAWARE BASIN County: LEA

Prospect: Spud Date: 11/2/2016 03:00

Rig Release Date: Target Formation: DEVONIAN #/Crew: FREEDOM Area: AGI

End Depth (ftKB): 2,555.0 End Depth (TVD) (ftKB): 2,554.8 24 Hr Progress (ft): 0.00

Field Name: AGI API/UWI: 30-025-42207 Permit #:

Ground Elevation (ft): 3,547.00 Original KB Elevation (ft): 3,572.00 KB-Ground Distance (ft): 25.00

Total AFE Amount (Cost)

009612 Job AFE Amount (Cost)

Daily Field Est Total (Cost) \$97,475

Drilling Hours (hr):

State: NM

Cum Field Est To Date (Cost) \$1,210,858

Daily Activity from 11/10/2016 - 11/11/2016

Operations at Report Time

MAKE UP & SURFACE TEST 12 1/4" BHA @ 2555'.

Past 24 Hours Operation Summary
FINISH NU & TEST 20" 3M X 13 5/8" 5M B SECTION. NU 13 5/8" 10M BOP. REMOVE 13 5/8" 5M ANNULAR & INSERT 13 5/8" 10M SINGLE RAM. RU SCHLUMBERGER & RUN CBL @ 2555'. FINISH NU 13 5/8" 10M BOP. RU BATTLE ENERGY TESTER & TEST BOP 250 LOW/2000 HIGH. MAKE UP 12 1/4" BHA.

Operations Next Report Period

TIH W/ 12 1/4" BHA @ 2555'. DRLG CMT & 13 3/8" FLOAT EQUIPMENT. DRLG 12 1/4" INTERMEDIATE.

Incident Reported Accident Reported CONTRACT DRLG FRMN, JOE HARRIS, ; CONTRACT DRLG FRMN, GEORGE SMITH, No No

Time Log

Start Time	End Time	Dur (hr)	End Depth (ftKB)	Sub-Activity	Com	NPT?
06:00	07:00	1.00		WELD ON/INSTALL WH	RE INSTALL 20" 3M X 13 5/8" 5M B SECTION. TEST B SEC TO 904 PSI F/ 15 MIN. NO LEAKS.	No
07:00	12:00	5.00	2,555	NU BOP	NIPPLE UP 13 5/8" 10M BOP. BREAK HYDRILL F/ DOUBLE RAM & INSERT SINGLE RAM PREVENTER.	No
12:00	18:00	6.00	2,555	CBL	PJSM - RIG UP SCHLUMBERGER WIRELINE AND RUN CBL LOG @ 2555'. RIG DOWN SCHLUMBERGER.	No
18:00	23:00	5.00	2,555	NU BOP	NIPPLE UP 13 5/8" 10M BOP.	No
23:00	04:30	5.50	2,555	TEST BOP EQUIP	PJSM - RIG UP BATTLE ENERGY. TEST ANNULAR TO 250/2000, ALL RAMS, VALVES & LINES, CHOKE MANIFOLD, IBOP, FOSV TO 250/2000 PSI FOR 10 MINS. TEST CSG TO 1000 PSI F/ 30 MIN. ***NOTIFY STEPHEN BAILEY OF BLM @ 1836 11/10/16 OF INTENT TO TEST BOP.***	No
04:30	05:30	1.00	2.555	NU BOP	CENTER BOP & INSTALL FLOW LINE.	No
05:30	06:00	0.50		TIH DO FLT EQUIP	MAKE UP & SURFACE TEST 12 1/4" BHA W/ MWD.	No

Bits	&	B	H	As	

Bit Run 4	Size (in) 12 1/4	Make BAKER HUG	Model T506FX	7161275	2,555.0	2,555	.0 1.50			16/16/16/16/16/16 Max Stand Pipe Pressure (psi)
BHA#		Min Weigh	t on Bit (1000)	lbf) Max W	eight on Bit (1)	000lbf)	Min RPM (rpm)	Max RPM (rpm)	Min Stand Pipe Pressure (psi)	Max Stand File Fressure (par)
District State	N. (fl)						T.	Veight of String in Air (1000tbf)		

129 2.543.72

Drill	String	Components
	14-	

Itam Des	OD (in)	Len (ft)	Cum Len (ft)	
	5	1,686.67	2,543.72	
•	6 1/4	2.13	857.05	
		146.33	854.92	
DRILL COLLAR			708.59	
HYD DRLG JARS			677.23	
Drill Collar				
XO Sub	7 1/2		211.40	
	8	88.02	209.49	
	8	6.73	121.47	
	8	30.61	114.74	
	8	30.73	84.13	
NMDC			53.40	
Orientation Sub			50.71	
Shock Sub				
3 PT ROLLER REAMER	8		38.43	
	7 3/4	29.82	31.32	
	Drill Pipe XO Sub DRILL COLLAR HYD DRLG JARS Drill Collar XO Sub Drill Collar 3 PT ROLLER REAMER NMDC NMDC Orientation Sub Shock Sub 3 PT ROLLER REAMER Mud Motor	Item Des	Item Des	

-	
Drilling	Parameter

Wellbore	Start Depth (ftKB) 2,555.0	End Depth (ftKB) 2,555.0	Cum Depth Drilled (ft)	Drilling Time (hr)	Cum Drilling Time (hr)	Interval ROP (ft/nr)	Flow Rate (gpm)
Original Hole			The state of the s		SO Str Wt (1000lbf)	Drilling Torque	Off Bottom Torque
Weight on Bit (1000lbf)	RPM (rpm)	Stand Pipe Pressure (psi)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Sti Wt (1000ibi)	Dining roldes	

Hydraulic Calculations			Bit Pressure Drop (psi)	Percent of Pressure Drop at Bit (%)	
Bit Hydraulic Power (hp)	Bit Hydraulic Power Per Hole Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Plessure Drop (psi)		
		1	Min Open Hole AV (ft/min)	ECD End (lb/gal)	
Max Casing AV (ft/min)	Max Open Hole AV (ft/min)	Min Casing AV (ft/min) 0.0	0.0	200 2110 (12.5-7)	

Error Unable to calculate annular pressure drop because pressure drop data is missing from AV calculate.

Mud Properties Time

Depth (ftKB) Type

Density (lb/gal)

Funnel Viscosity (s/qt)

PV Calc (cP)

YP Calc (lbf/100ft²)



Date: 11/11/2016

Report #: 12.0

DSS: 9.13

Well Name: ZIA AGI #2D

Proposed:

Lat: 32.643951 Long: -103.811116

Survey Data							FIN (0)	T DLC (94009)
MD (ftKB)		Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft) .10 0.00
	55.00	0.20	225.00	2,554.77	15.03		11.13	.10
Casing String	S			OD (in)	Shoe Joint Volume (lb/ft)	Grade	Set Depth (ftKB)	FIT (psi)
Conductor		Csg Des		30	118.52	1,000		0.0
Surface				20	106.50		82	6.0
Surface								5.5
Intermediate BOPs				10 0/0	01.00	10.00		
Pressure Rating (ps 10,000.0	si)	and the second	Nominal 13 5/8		· · · · · · · · · · · · · · · · · · ·	Last BOF 11/11/2	P Test Date 2016	
Formation		***************************************						
	×	Formation N	ame				Prog Top MD (ftKB)	2,426.00
YATES				and the second second				2,420.00
Fluids, Dispos							Cum On Loc	Returned
Supply Ite	em Des	Unit Labe	el	Received	Consumed	403.0	8,880.0	Returned
RIG DIESEL		gal us			and the second s	403.0	0,000.0	
Costs Summa	ary	, in the second					Cum Fld Est (Cost)	
Category			Cost Des		Daily Field E			AFE Amt (Cost)
AND THE RESERVE AND ADDRESS OF THE PARTY OF)-Daywork					\$16,000 \$187,000 \$4,200 \$52,500		\$0
210 D)-Direction	al Drlg Services				\$4,200		\$0
211 D	Fuel & Po	ower				\$900		\$0
213 D)-Bits					\$10,000 \$28,50		\$0 \$0
214 D	O-Mud & CI	hemicals				\$160 \$24,640		
222 D	O-Csg Crev	vs & Equip				\$750 \$32,110		\$(
226 C	D-Company	y Sprvsn					\$21,600	\$0
227 E	D-Contract	Sprvsn					\$38,400	\$0
228 E	D-Tstg Csg	/Tbg			\$1,700		\$28,070	\$(
230	D-Logging						\$17,850	\$(
235	D-Rentals-S	Surface					\$95,615	\$(
10 (0)	O-Rentals-S	Subsrfc			\$2,800 \$25,630		\$0	
	D-Envmntl/	Clsd Loop	and the second second second second		\$2,750		\$83,080	\$(
The second secon	D-Wellhead					\$19,000	\$30,050	\$(



Total AFE Amount (Cost)

Date: 11/12/2016 Report #: 13.0

DSS: 10.13

Well Name: ZIA AGI #2D Proposed: <typ1>, <de

<typ1>, <d TD/MD, 14,750 TD/TVD, 14,750 TD/VS, 0

Lat: 32.643951 Long: -103.811116

Contractor: SCANDRILL

Asset Group: DELAWARE BASIN

County: LEA Prospect:

Spud Date: 11/2/2016 03:00 Rig Release Date:

Target Formation: DEVONIAN

#/Crew: FREEDOM Area: AGI State: NM

End Depth (ftKB): 3,544.0 End Depth (TVD) (ftKB): 3,543.6 24 Hr Progress (ft): 989.00 Drilling Hours (hr): 11.00

Rig Phone #: (432) 853-9909 Field Name: AGI API/UWI: 30-025-42207

Permit #:

Ground Elevation (ft): 3,547.00 Original KB Elevation (ft): 3,572.00

KB-Ground Distance (ft): 25.00

AFE Number Job AFE Amount (Cost)

Daily Field Est Total (Cost) \$38,300

Cum Field Est To Date (Cost) \$1,249,158

Daily Activity from 11/11/2016 - 11/12/2016

DRLG 12 1/4" INT @ 3544', 89 FPH.

Past 24 Hours Operation Summary
LD 9 5/8" MTR. MAKE UP & SURF TEST 12 1/4" INT BHA @ 2555'. REPAIR BAYLOR BRAKE CONTROL. TIH W/ 12 1/4" BHA. DRLG OUT CMT & 13 3/8"
FLOAT EQUIP F/ 2507' - 2555'. DRLG 12 1/4" INT W/ MWD F/ 2555' - 3544'.

Operations Next Report Period

DRLG 12 1/4" INT W/ MWD. CIRC @ TD. TOH TO RUN 9 5/8" CSG.

Accident Reported No Daily Contacts CONTRACT DRLG FRMN, JOE HARRIS, ; CONTRACT DRLG FRMN, GEORGE SMITH, Incident Reported No

Time Log

Start Time	End Time	Dur (hr)	End Depth (ftKB)	Sub-Activity	Com	NPT?
PARTY NAME OF THE OWNER, THE OWNE	09:30	3.50	2,555	TIH DO FLT EQUIP	LAY DOWN 9 5/8" MOTOR. MAKE UP & SURFACE TEST 12 1/4" BHA W/ MWD.	No
	11:00	1.50		ELECTRIC BRAKE	REPAIR BAYLOR BRAKE CONTROL & TROUBLE SHOOT ELECTRICAL ISSUE.	No
The same of the sa	11:30	0.50	2,555	LUBRICATE RIG	SERVICE RIG & TOP DRIVE.	No
The state of the s	17:00	5.50		TIH DO FLT EQUIP	TIH W/ 12 1/4" BHA TO DRILL OUT CMT & FLOAT EQUIPMENT. TAG CMT @ 2507'.	No
	19:00	2.00	2,555	D/O CMT/ FLT EQUIP	DRLG CMT & 9 5/8" FLOAT EQUIPMENT F/ 2507' - 2555'.	No
19:00	06:00	11.00	3,544	DRLG W/MTR	DRLG 12 1/4" INT W/ MWD F/ 2555' - 3544'. 989' @ 90 FPH. LOST PARTIAL RETURNS @ 2701'. LOSING 130 BPH. ***START DRLG 12 1/4 INT @ 1900 11/11/16.***	No

Bits & BHAs

4	12 1/4		T506FX	7161275	Depth in (ft 2,555.0	3,544	Out Length (ft) 1.0 1.50	Job Drill F 11.00	4r Job Circ Hr 2.00	. Avg ROP (f 89.9	. Rot Time (hr) 11.00		Nozzles (1/32") 16/16/16/16/16
BHA #		Min Weight 25	t on Bit (1000)	bf) Max We	eight on Bit (10	000lbf)	Min RPM (rpm) 262		Max RPM (rpm) 262		Min Stand Pip 2,214.0	e Pressure (psi	Max Stand Pipe Pressure (psi) 2,214.0
String Leng							W	eight of Strir	ng in Air (1000lbf)		-		

Drill String Components

Jts	Item Des	OD (in)	Len (ft)	Cum Len (ft)
The same same same same same same same sam	Drill Pipe	5	2,716.29	3,573.34
	XO Sub	6 1/4	2.13	857.05
5	DRILL COLLAR	6 1/2	146.33	854.92
	HYD DRLG JARS	6 1/2	31.36	708.59
18	Drill Collar	6 1/2	465.83	677.23
1	XO Sub	7 1/2	1.91	211.40
3	Drill Collar	8	88.02	209.49
	3 PT ROLLER REAMER	8	6.73	121.47
1	NMDC	8	30.61	114.74
1	NMDC	8	30.73	84.13
1	Orientation Sub	8	2.69	53.40
1	Shock Sub	8	12.28	50.71
1	3 PT ROLLER REAMER	8	7.11	38.43
1	Mud Motor	7 3/4	29.82	31.32

Drilling Parameters

Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth Drilled (ft) 989.00	Drilling Time (hr)	Cum Drilling Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
Original Hole	2,555.0	3,544.0		11.00	11.00	89.9	711
Weight on Bit (1000lbf)	RPM (rpm)	Stand Pipe Pressure (psi) 2,214.0	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Bottom Torque
25	85		150	165	150	6.000.0	500.0

Hydraulic Calculations

Bit Hydraulic Power (hp) 116.9	Bit Hydraulic Power Per Hole Area (hp/in²) 1.0	Bit Jet Velocity (ft/s) 193.6	Bit Pressure Drop (psi) 281.9	Percent of Pressure Drop at Bit (%)
Max Casing AV (ft/min)	Max Open Hole AV (ft/min)	Min Casing AV (ft/min)	Min Open Hole AV (ft/min)	ECD End (lb/gal)
51.9	28.5	51.9	26.8	8.33

Mud Proportios

Time 09:00	Type Water Base	Depth (ftKB) 2,555	Density (lb/gal) 8.3	Funnel Viscosity (s/qt) 28	PV Calc (cP)	YP Calc (lbf/100ft²)
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	рН 7.0	Solids (%) 0.0	Lime (lb/bbl)
Chlorides (mg/L) 900	Pm Filtrate (mL/mL)	Calcium (mg/L)	Electric Stab (V)	Pm (mL/mL)	Pf (mL/mL) 0.00	Percent Oil (%) 0.0
Oil Water Ratio 0/100	Flow Line Temperature (°F)	Vis 6rpm	Low Gravity Solids (%) 0.1	Magnesium (mg/L) 0.000	HTHP Filtrate (mL/30min)	HTHP Filter Cake (1/32")



Date: 11/12/2016

Report #: 13.0 DSS: 10.13

Lat: 32.643951 Long: -103.811116

Well Name: ZIA AGI #2D

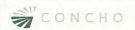
Proposed:

ey Data MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
3,099.00	1.10	217.90	3,098.73	12.86	6.78	-13.71	0.2
3,193.00	1.70	212.50	3,192.70	14.37	4.89	-15.01	0.6
3,287.00	1.10	210.80	3,286.67	15.79	2.94	-16.22	0.6
3,380.00	1.50	216.50	3,379.65	17.16	1.20	-17.41	0.4
3,544.00	1.50	216.50	3,543.59	20.09	-2.26	-19.96	0.0

Casing Strings Csq Des	OD (in)	Shoe Joint Volume (lb/ft)	Grade	Set Depth (ftKB)	FIT (psi)
Conductor	30			120.0	
Surface	20	106.50	J-55	826.0	
Intermediate	13 3/8	61.00	J-55	2,555.5	

DUPS						-
Pressure Rating (psi) 10,000.0		Nominal ID (in) 13 5/8		Last BOP Test Date 11/11/2016		
Formation						
	Formation Name		Prog Top MD (fiKB)			
TOP OF REEF	Carrier Control of the Control of th		2,760.0			
Fluids, Disposal and \	Nater					
Supply Item Des	Unit Label	Received	Consumed	Cum On Loc	Returned	
FRESH WATER	LOAD	8.0	8.0	-28.0		
RIG DIESEL	gal us		1,223.0	7,657.0		

Costs Sun	nmary			
Billing Category	Cost Des	Daily Field Est (Cost)	Cum Fld Est (Cost)	AFE Amt (Cost)
209	D-Daywork Contract	\$16,000	\$203,000	\$0
210	D-Directional Drlg Services	\$4,200	\$56,700	\$0
211	D-Fuel & Power	\$2,675	\$27,123	• \$0
212	D-Water	\$2,600	\$20,605	\$0
214	D-Mud & Chemicals	\$160	\$24,800	\$0
226	D-Company Sprvsn	\$1,800	\$23,400	\$0
227	D-Contract Sprvsn	\$3,200	\$41,600	\$0
235	D-Rentals-Surface	\$2,315	\$97,930	\$0
236	D-Rentals-Subsrfc	\$2,600	\$28,230	\$0
244	D-Enymntl/Clsd Loop	\$2,750	\$85,830	\$0



Date: 11/13/2016

Report #: 14.0

DSS: 11.13

Flow Rate (gpm)

Lat: 32.643951 Long: -103.811116

Well Name: ZIA AGI #2D

Asset Group: DELAWARE BASIN

Spud Date: 11/2/2016 03:00

Proposed: <typ1>, <de Contractor: SCANDRILL

<typ1>, <d TD/MD, 14,750

#/Crew: FREEDOM

Area: AGI

State: NM

\$51,800

End Depth (ftKB): 4,696.0

Daily Field Est Total (Cost)

24 Hr Progress (ft): 1,152.00

End Depth (TVD) (ftKB): 4,695.6

TD/TVD, 14,750 TD/VS, 0

Rig Phone #: (432) 853-9909

Field Name: AGI API/UWI: 30-025-42207

Permit #:

Ground Elevation (ft): 3,547.00 Original KB Elevation (ft): 3,572.00

KB-Ground Distance (ft): 25.00

Rig Release Date:

Job AFE Amount (Cost)

County: LEA

Prospect:

Target Formation: DEVONIAN

Drilling Hours (hr): 14.00 AFE Number 009612

Total AFE Amount (Cost)

Cum Field Est To Date (Cost) \$1,300,958

Ligh Drill Ur. Ligh Circ Hr. Lava POD If Rot Time (hr) Slide Time | Nozzles (1/32

Daily Activity from 11/12/2016 - 11/13/2016

Operations at Report Time

RIG UP CSG CREW TO RUN 9 5/8" CSG @ 4696'.

Past 24 Hours Operation Summan

DRLG 12 1/4" INT W/ MWD F/ 3544' - 4696', WIPER TRIP F/ 4696' - 2538', NO ISSUES. RU & RUN FLUID CALIPER. SPOT LCM PILL. TOH & LD 12 1/4" BHA TO RUN 9 5/8" CSG. PJSM - RU FRANKS CSG CREW.

Operations Next Report Period

RU FRANKS CSG CREW & RUN 9 5/8" CSG. CIRC 9 5/8" CSG @ 4696' W/ RIG PUMPS. CMT 9 5/8" CSG. ND/SET SLIPS. WOC. NU & TEST BOP. RUN CBL.

Incident Reported Accident Reported No Daily Contacts CONTRACT DRLG FRMN, JOE HARRIS, ; CONTRACT DRLG FRMN, GEORGE SMITH, No

Ti	me	Log

Start Time	End Time	Dur (hr)	End Depth (ftKB)	Sub-Activity	Com	NPT?
06:00	20:00	14.00	4,696	DRLG W/MTR	DRLG 12 1/4" INT W/ MWD F/ 3544' - 4696'. 1152' @ 83 FPH. LOST PARTIAL RETURNS @ 2701'. LOSING 50 BPH @ TD. ***TD 12 1/4" INT @ 2000 11/12/16.***	No
20:00	21:00	1.00	4,696	CUC	PUMP SWEEPS & CIRC OUT. ***GEOLEX NOTIFIED STEPHEN BAILEY W BLM OF INTENT TO RUN & CMT 9 5/8" CSG @ 4696'.***	No
21:00	23:00	2.00	4,696	SHORT TRIP	WIPER TRIP F/ 4696' - 2538'. NO ISSUES.	No
23:00	00:30	1.50	4,696	CIRC BTMS UP	CIRC OUT LCM SWEEP & FLUID CALIPER. 48% WASH OUT, 2170 CU FT.	No
00:30	01:00	0.50	4,696	PUMP SWEEP	SPOT 80 BBL LCM PILL ON BTM.	No
01:00	03:30	2.50	4,696	TOH TD CSG PT/ KOP	TOH TO RUN 9 5/8" INT CSG @ 4696'.	No
03:30	05:30	2.00	4,696	PU/LD BHA	LD 12 1/4" BHA & 8" DCS.	No
05:30	06:00	0.50	4,696	RU CSG EQUIP	PJSM - RIG UP FRANKS CSG CREW & BYRD LD MACHINE.	No

Bits & BHAs	В	its	&	В	H	As
-------------	---	-----	---	---	---	----

4	2	5	on Dic (1000)	25	3		262			262		2,214.0		2,418.0
BHA#	IM	in Weight	on Bit (1000lb	f) Max We	eight on Bit (100	00lbf)	Min RPM	rpm)	A	fax RPM (rpm)		Min Stand Pip	e Pressure (psi)	Max Stand Pipe Pressure (psi)
4 Size	114			7161275	2,555.0	4,696			25.00	5.00	85.6	25.00		16/16/16/16/16

4,727.34 **Drill String Components**

im ourning o	omponents				
Jts	Item Des	OD (in)	Len (ft)	Cum Len (ft)	
124	Drill Pipe	5	3,870.29	4,727.34	
1	XO Sub	6 1/4	2.13	857.05	
5	DRILL COLLAR	6 1/2	146.33	854.93	
	HYD DRLG JARS	6 1/2	31.36	708.5	
18	Drill Collar	6 1/2	465.83	677.2	
	XO Sub	7 1/2	1.91	211.4	
	Drill Collar	8	88.02	209,4	
	3 PT ROLLER REAMER	8	6.73	121.4	
1	NMDC	8	30.61	114.7	
	INMDC	8	30.73	84.1	
	Orientation Sub	8	2.69	53.4	
	Shock Sub	8	12.28	50.7	
	3 PT ROLLER REAMER	8	7.11	38.4	
1	Mud Motor	7 3/4	29.82	31.3	

D	rill	ing	Pa	ra	me	ters
---	------	-----	----	----	----	------

1 Mud Motor

Wellbore Original Hole	Start Depth (ftKB) 3,544.0	End Depth (ftKB) 4.696.0	2.141.00	14.00	25.00	82.3	711
Weight on Bit (1000lbf)	RPM (rpm) 85	Stand Pipe Pressure (psi) 2,418.0	Drill Str Wt (1000lbf) 199	PU Str Wt (1000lbf) 204	SO Str Wt (1000lbf) 195	Drilling Torque 5,800.0	Off Bottom Torque 500.0

Hydraulic Calculations

Bit Hydraulic Power (hp) 118.3	Bit Hydraulic Power Per Hole Area (hp/in²) 1.0	Bit Jet Velocity (ft/s) 193.6	Bit Pressure Drop (psi) 285.3	Percent of Pressure Drop at Bit (%) 12
Max Casing AV (ft/min)	Max Open Hole AV (ft/min)	Min Casing AV (ft/min)	Min Open Hole AV (ft/min)	ECD End (lb/gal)
135.1	28.5	132.4	26.8	8.40

From

Mud Properties						Last in allege
Time 08:30	Type Water Base	Depth (ftKB) 3,964	Density (lb/gal) 8.4	Funnel Viscosity (s/qt) 28	PV Calc (cP)	YP Calc (lbf/100ft²)
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	рН 10.0	Solids (%) 0.6	Lime (lb/bbl)
				Dec (mt (mt))	Df (ml /ml)	Percent Oil (%)



Date: 11/13/2016

Report #: 14.0 DSS: 11.13

Well Name: ZIA AGI #2D

Proposed:

Lat: 32.643951 Long: -103.811116

Pump # 1,	Triplex		**************************************							- 0	
Pump Number		Start Date		End Date		Make			Model		
1		11/12/2016 0		11/13/2016 05:5		Bomce			F-1600		
Pressure (psi) 210.0	was being the street white the same	Strokes (spm) 40	Stroke Ler 12.00	igth (in)	Rod Diameter (in)		Volumetric I	Efficiency (%)	Flo	w Rate (g	om)
Pump# 2,	Triplex										
Pump Number 2		Start Date 11/12/2016 0	6:00	End Date 11/13/2016 05:55		Make Bomco)		Model F-1600		
Pressure (psi) 200.0		Strokes (spm) 40	Stroke Ler 12.00	ngth (in) Rod Dlameter (in)		Volumetric I	Efficiency (%)	Flo	w Rate (g	om)	
Survey Dat							***				
MD (ft)		Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)		NS (ft)		EW (ft)		DLS (°/100ft)
	4,316.00	0.50	335.60	4,315.57	2	4.38	-	0.87	-24	.37	0.21
4	4,410.00	0.40	283.70	4,409.57	2	4.86	-).42	-24	.86	0.43
4	4,503.00	0.40	265.40	4,502.57	2	5.49	-	0.37	-25	.50	0.14
4	4,597.00	0.40	241.20	4,596.57	2	5.11	-	0.55	-26	5.11	0.18
-	4,626.00	0.40	236.70	4,625.57		6.29		0.66		.28	0.11
4	4,696.00	0.40	236.70	4,695.56	The state of the s	6.71		0.93		6.69	0.00
Casing Str	ings										0.00
		Csg Des		OD (in)	Shoe Joint Volume	e (lb/ft)	Grade	S	et Depth (ftKB		FIT (psi)
Conductor	*****			30		18.52 A	American and the same of the same			20.0	TTT (pol)
Surface	F	er enjage ek		20		06.50 J				26.0	
Intermediat	е		- Hi Hace and the	13 3/8	and the second s	31.00 J			2,55	The second second	
BOPs	nk- is				L					70.0	
Pressure Rating	g (psi)		Nominal ID	(in)	**************************************		Last BOP T				We start the start of
Formation		Proceedings of the Control of the Co									
		Formation Nam	9				Pro	g Top MD (ftKE	3)	-	
BASE OF F	REEF		**************************************								4,436.00
Fluids, Dis	posal and Wa	ater			The state of the s						
Suppl	ly Item Des	Unit Label		Received	Consum	ed		Cum On Loc			Returned
CUTTINGS	BIN	BIN			499		9.0		-27.0		
FRESH WA	TER	LOAD				***************************************	1.0		-29.0		ANTONIO DE LA LIGITA DE LA CONTRACTORIO DE LA CONTR
RIG DIESE	L	gal us		7,500.0		2,21	6.0	12	,941.0		
Costs Sum	mary		· · · · · · · · · · · · · · · · · · ·		arma de de la companya de la company		- Jan-				e de la companya del companya de la companya del companya de la co
Billing Category		VIII. 1	Cost Des	*	Daily I	ield Est (C	Cost)	Cum Fld Est (Cost)	А	AFE Amt (Cost)
209	D-Daywork	Contract					16,000		\$219,000		\$0
210	D-Directiona	I Drlg Services	nch dan den era trik an	- William - Was - William - State		West and the last	\$4,200	 	\$60,900		\$0
211	D-Fuel & Po	All the control of th	************	a ang again and an ang ang ang ang ang ang ang ang ang	*************		\$4,850	**************************************	\$31,973	aled to the law are	\$0
212	D-Water		************	A-C-1417-MAY-24		****	\$1,675		\$22,280		\$0
214	D-Mud & Ch	emicals			-	-	\$160		\$24,960		\$0
226	D-Company		al main and a second		r weight to the second	-	\$1,800		\$25,200		\$0
227	D-Contract S					-	\$3,200	-1	\$44,800		\$0
235	D-Rentals-S		The second second second second				\$4,065		\$101,995	- Algorithian	\$0
236	D-Rentals-S		gare to the contract of	the management of the second		4	\$3,200	-	\$31,430		\$0
244						· ·	the state of the s		\$98,480		\$0
244	D-Envmntl/C	JISU LOOP					12,650		DOP,000		\$0

		ne: ZI	A AGI #21			Daily Dr	illing Report	Date: 11/1 Report	#: 15	
Proj	oosed:	<typ1>,</typ1>	<de <<="" th=""><th>typ1>, <d 14,7<="" md,="" td="" th=""><th>750</th><th>TD/TVD, 14,75</th><th>50 TD/VS. 0</th><th></th><th>: 12.1</th></d></th></de>	typ1>, <d 14,7<="" md,="" td="" th=""><th>750</th><th>TD/TVD, 14,75</th><th>50 TD/VS. 0</th><th></th><th>: 12.1</th></d>	750	TD/TVD, 14,75	50 TD/VS. 0		: 12.1	
		SCANDR	ILL	#/0		FREEDOM		Lat: 32.643951 Long: -103. Rig Phone #: (432) 853-9909	81111	
			ARE BASIN		ea: A			Field Name: AGI		
Pros	ty: LEA				ite: N	the same of the sa		API/UWI: 30-025-42207		
		1/2/2016	03:00			th (ftKB): 4,696 th (TVD) (ftKB):		Permit #:		
	elease I					ogress (ft): 0.00		Ground Elevation (ft): 3,547.00		
Targe AFE Nu		tion: DE	VONIAN			Hours (hr):		Original KB Elevation (ft): 3,572.00 KB-Ground Distance (ft): 25.00		
00961	2						Total AFE Amount (Cost)	- Constitution (id), - Constitution (id)		
Job AFE	Amount (0	Cost)	- ', '			st Total (Cost)	1	Cum Field Est To Date (Cost)		
Daily	Activity	from 11	/13/2016 -	11/14/2016	57,860			\$1,568,818		
Operation	ons at Repo	ort Time		11/14/2016		-				
NU 13	5/8" 10	M BOP @	9 4696'.							
YLD. TAIL (NU 13 Operation NU &	PD @ 1 @ 14.8 F 5/8" 10I ns Next Re TEST 13	931. OP PPG, 1.33 M BOP. Port Period 3 5/8" 10N	EN DV TOO YLD. ND	DL & CIRC 144 SKS CMT & SET 9 5/8" SLIPS W/ 1	T TO \$	SURF W/ RIG PI WOC. CUT OF	JMP. CMT 2ND STAGE F 9 5/8" CSG & INSTAL	TS 9 5/8" 40# L-80 CSG TP 4701.45 SET @ 4696'. ② 13.5 PPG, 1.72 YLD, 250 SKS TAIL @ 14.8 PPG E W/ 600 SKS LEAD @ 13.5 PPG, 1.72 YLD, 100 SI L 13 5/8" 5M X 11" 10M C SECT. TEST TO 2400 F	, 1.33 KS PSI.	
			THOIL L	SOU OF TORINA	ION.	FIT @ 11 PPG.	DRLG 8 3/4" VERT SE(CIRC BIMS UP. TOH & RUN CBL. TEST 9 5/8" C CTION.	SG.	
No	Reported	No Accident R	eported Daily	Contacts NTRACT DRLG FRMN, J				The state of the s		
Time I	Log			THE PROPERTY OF	OL III	Fird (10, , COIVII	OACT DREG PRIVIN, GEO	ORGE SMITH,		
Start Time	End	Dur (hr)	End Depth	T to the second		1-304-01				
06:00	08:00	2.00	(ftKB) 4.696	Sub-Activity RU CSG EQUIP	C	ONTINI IE DIGG	ING LID EDANKS CSC (CREW & BYRD LD MACHINE TO RUN 9 5/8" INT	NPT?	
					C	SG @ 4696'.	ING OF FRANKS CSG (REW & BYRD LD MACHINE TO RUN 9 5/8" INT	No	
08:00	15:00	7.00		RUN CSG	S	ET @ 4696'. WA	ASHED TO BTM, NO FIL	AN 104 JTS 9 5/8" 40# L-80 BTC TP = 4701.45', .L.	No	
15:00	16:30	1.50	4,696	CIRC CSG CAP/BTMS	C	IRC 9 5/8" CSG	W/ RIG PUMP @ 4696'.	RIG DOWN CSG CREW & LD MACHINE.	No	
16:30	19:30	3.00	4,696		P.	ISM RITHALLIE	NIDTON & TEST LINES	TO 3950 PSI. 1ST STAGE PUMP 20 BBLS FW		
					1. SX BI	PACER W/ RED 98 YLD FOLLOV K HALCEM C TA BLS FW, BUMP VER. BLEED OF	DYE, PUMP 450 SKS E VED BY 50 SKS HALCE IL CMT @ 14.8 PPG; 1.: PLUG @ 1931 11/13/16 FF, 2 BBLS BACK. FLO,	CONOCEM HLC LEAD CEMENT @ 12.7 PPG; M @ 13.5 PPG; 1.72 YLD FOLLOWED BY 250 33 Y LD, DROP PLUG & DISPLACE W/ 353 W/ 1000 PSI, PRESSURE UP TO 1500 PSI ATS HELD. FULL RTNS THROUGHOUT JOR	No	
19:30	20:00	0.50	4,696	CIRC DV TOOL	IPI	KESSUKE UP 1	J 700 PSI TO OPEN DV	E UP TO 550 PSI TO INFLATE ECP. TOOL. ***GEOLEX NOTIFIED STEPHEN ENT TO CMT 2ND STAGE.***	No	
20:00	21:00	1.00	4,696	CIRC DV TOOL	CI	RC DV TOOL W	/ RIG PUMP. CIRCULA	TED 144 SKS CEMENT TO SURFACE AFTER	No	
21:00	22:30	1.50	4,696	СМТ	1.3 PL OF	EAD @ 13.5 PPG 33 YLD. DROP (LUG W/ 970 PSI FF & GOT 1.5 BE	T 2ND STAGE. IT 2ND STAGE. PUMP 20 BBLS FW SPACER W/ RED DYE, 600 SKS HALCEM C AD @ 13.5 PPG; 1.72 YLD FOLLOWED BY 100 SKS HALCEM C TAIL @ 14.8 PPG; S YLD. DROP CLOSING PLUG & DISPLACE WITH 198 BBLS FW. BUMP CLOSING IG W/ 970 PSI & SHIFT DV TOOL CLOSED WITH 2500 PSI @ 2226 11/13/16. BLED & & GOT 1.5 BBLS BACK. CIRCULATED 107 SKS TO SURFACE. ***WITNESSED BY EPHEN BAILEY W/ BLM.***			
	00:30	2.00		SET SLIPS/CUT CSG/CNDCTR			ND & SET 165K ON CS		No	
Trans.	02:30	2.00	4,696		W	OC TOTAL OF 4	HRS F/ PLUG DOWN E	BEFORE CUTTING OFF 9 5/8" CSG.	No	
02:30	04:30	2.00	4,696	WELD ON/INSTALL WE		JT OFF 9-5/8" C	SG & INST 13 5/8" 5M X	11 10M C SECTION. TEST HEAD TO XXX PSI	No	

NU 13 5/8" 10M BOP. INSTALL FLOW LINE VALVE. No Bits & BHAs Bit Run Size (in) Make Model SN Depth In (ft... Depth Out... Length (ft) Job Drill Hr... Job Circ Hr... Avg ROP (f... Rot Time (hr) Slide Time... Nozzles (1/32") Min Weight on Bit (1000lbf) BHA# Max Weight on Bit (1000lbf) Min RPM (rpm) Max RPM (rpm) Min Stand Pipe Pressure (psi) Max Stand Pipe Pressure (psi) String Length (ft) Weight of String in Air (1000lbf) **Drill String Components**

1.50

4,696 ND BOP

Item Des OD (in) Len (ft) Cum Len (ft)

Drilling Parameters Wellbore

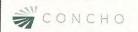
00

04:30 06:00

art Depth (ftKB)	End Depth (ftKB)	Cum Depth Drilled (ft)	Drilling Time (hr)	Cum Drilling Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
PM (rpm)	Stand Pipe Pressure (psi)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Bottom Torque
			our sopurstinos (t)	James (iii)	Land Diaming Time (III)	M/mm) Short Rise Present (a) Deliver (as a present of the present

Hydraulic Calculations

Bit Hydraulic Power (hp) Bit Hydraulic Power Per Hole Area (hp/in²) Bit Jet Velocity (ft/s) Bit Pressure Drop (psi) Percent of Pressure Drop at Bit (%) Max Casing AV (ft/min) Max Open Hole AV (ft/min) Min Casing AV (ft/min) Min Open Hole AV (ft/min) ECD End (lb/gal)



Date: 11/14/2016

Report #: 15.0

DSS: 12.13

Model

-37.5

F-1600

Well Name: ZIA AGI #2D

Proposed:

Pump Number

Lat: 32.643951 Long: -103.811116 Pump # 1, Triplex Pump Number Start Date End Date Make

Make

Bomco

Model F-1600 11/12/2016 06:00 11/13/2016 05:55 Bomco Pump # 2, Triplex End Date

Start Date 11/12/2016 06:00 11/13/2016 05:55 Survey Data

HRS

MD (ftKB) Azm (°) TVD (ftKB) VS (ft) NS (ft) EW (ft) DLS (°/100ft) 4,696.00 0.40 236.70 4,695.56 26.71 -0.93 -26.69 0.00 Casing Strings

Csg Des OD (in) Shoe Joint Volume (lb/ft) Grade Set Depth (ftKB) FIT (psi) Conductor 30 118.52 A53 120.0 Surface 20 106.50 J-55 826.0 Intermediate 13 3/8 61.00 J-55 2,555.5 Intermediate 9 5/8 40.00 N-80 4,696.0 **BOPs**

Pressure Rating (psi) 10,000.0

Nominal ID (in) 13 5/8

Last BOP Test Date 11/11/2016

17.0

Formation

Formation Name Prog Top MD (ftKB) BASE OF REEF 4,436.00 Fluids, Disposal and Water

Supply Item Des Unit Label Received Consumed Cum On Loc Returned **BRINE WATER** LOAD 3.0 -20.0 JET PITS/WORK ON HRS 5.0 -10.0 LOCATION MUD/SOLIDS/CMT LOAD 15.0 -33.0 DISPOSAL RIG DIESEL gal us 6.000.0 842.0 18,099.0 STANDBY TRUCKING

Costs Summary

Billing Category	Cost Des	Daily Field Est (Cost)	Cum Fld Est (Cost)	AFE Amt (Cost)
209	D-Daywork Contract	\$16,000	\$235,000	\$0
210	D-Directional Drlg Services	\$4,200	\$65,100	\$0
211	D-Fuel & Power	\$1,850	\$33,823	\$0
212	D-Water	\$1,050	\$23,330	\$0
214	D-Mud & Chemicals	\$160	\$25,120	\$0
218	D-Cement Intermed	\$32,100	\$68,100	\$0
221	D-Float Equip/Centlzr	\$25,860	\$30,780	\$0
222	D-Csg Crews & Equip	\$18,900	\$51,010	\$0
226	D-Company Sprvsn	\$1,800	\$27,000	\$0
227	D-Contract Sprvsn	\$3,200	\$48,000	\$0
235	D-Rentals-Surface	\$2,315	\$104,310	\$0
236	D-Rentals-Subsrfc	\$300	\$31,730	\$0
237	D-Trucking/Forklift/Rig Mobil	\$11,150	\$178,375	\$0
238	D-Welding Services	\$600	\$5,500	\$0
244	D-Envmntl/Clsd Loop	\$18,125	\$116,605	\$0
402	D-Intermed Csg	\$114,000	\$175,200	\$0
405	D-Wellhead Equip	\$16,250	\$46,300	\$0



FIBER PLUG

FRESH GEL

LCF BLEND

40# SACK

50# SACK

25# SACK

Daily Drilling Report

Date: 11/15/2016

Report #: 16.0

Well Name: ZIA AGI #2D DSS: 13.13 Proposed: <typ1>, <de <typ1>, <d TD/MD, 14,750 TD/TVD, 14,750 TD/VS, 0 Lat: 32.643951 Long: -103.811116 Contractor: SCANDRILL #/Crew: FREEDOM Rig Phone #: (432) 853-9909 Asset Group: DELAWARE BASIN Area: AGI Field Name: AGI County: LEA State: NM API/UWI: 30-025-42207 Prospect: End Depth (ftKB): 4,696.0 Permit # Spud Date: 11/2/2016 03:00 End Depth (TVD) (ftKB): 4,695.6 Ground Elevation (ft): 3,547.00 Rig Release Date: 24 Hr Progress (ft): 0.00 Original KB Elevation (ft): 3,572.00 Target Formation: DEVONIAN Drilling Hours (hr): KB-Ground Distance (ft): 25.00 Total AFE Amount (Cost) 009612 Job AFE Amount (Cost) Daily Field Est Total (Cost) Cum Field Est To Date (Cost) \$52,867 \$1,621,685 Daily Activity from 11/14/2016 - 11/15/2016 Operations at Report Time RUN CBL W/ SCHLUMBERGER WL @ 4696'. Past 24 Hours Operation Summary TEST 13 5/8" 10 M BOP & ALL RELATED VALVES TO 250 LOW / 5000 HIGH @ 4696'. INSTALL ORBIT VALVE ON ROT HEAD ASSEMBLY & ALTER FLOW LINE FOR HOOK UP. TIH W/ 8 3/4" MILL TOOTH & BHA TO DRILL OUT DV TOOL. TAG @ 2612'. DRLG CMT & 9 5/8" DV TOOL F/ 2612' - 2630'. TIH TO FLOAT COLLAR. TAG @ 4642'. CIRC. TOH F/ CBL. RU SCHLUMBERGER WL & RUN CBL @ 4696'. Operations Next Report Period RUN CBL @ 4696'. MAKE UP 8 3/4" BHA W/ MWD & TIH. DRLG CMT & 9 5/8" FLOAT EQUIPMENT. DRLG 8 3/4" VERT SECT. Incident Reported Accident Reported Daily Contac No CONTRACT DRLG FRMN, JOE HARRIS, ; CONTRACT DRLG FRMN, GEORGE SMITH, No Time Log Start End End Depth Time Dur (hr) Time (ftKB) Sub-Activity NPT2 06:00 15:30 9.50 4.696 TEST BOP EQUIP PJSM - RIG UP BATTLE ENERGY. TEST ANNULAR TO 250/2500, ALL RAMS, VALVES No & LINES, CHOKE MANIFOLD, IBOP, FOSV TO 250/5000 PSI FOR 10 MINS. HAD TO REPLACE RING GASKET ON TARGET T @ CHOKE MANIFOLD DURING TEST. ***NOTIFY STEPHEN BAILEY OF BLM @ 0520 11/14/16 OF INTENT TO TEST BOP.*** 15:30 20:30 5.00 4,696 NU BOP INSTALL ORBIT VALVE ON ROTATING HEAD. ALTER FLOW LINE TO MEET UP WITH No ORBIT VALVE. 20:30 22:30 2.00 4,696 TIH DO FLT EQUIP MAKE UP 8 3/4" BHA & TIH TO DRILL OUT DV TOOL. TAG CMT @ 2612'. No 22:30 2.00 4,696 D/O CMT/ FLT EQUIP DRLG CMT & DV TOOL F/ 2612' - 2630'. No 01:00 0.50 4,696 TIH DO FLT EQUIP CONTINUE TIH TO TOP OF FLOAT COLLAR. TAG CMT @ 4642'. No 01:00 01:30 0.50 4.696 CIRC BTMS UP BREAK CIRC 4642' PRIOR TO TOH TO RUN CBL No 01:30 03:30 2.00 4,696 TOH LOGGING/ PH TOH TO RUN CBL No 03:30 06:00 2.50 4,696 CBL PJSM - RIG UP SCHLUMBERGER WIRELINE AND RUN CBL LOG @ 4696" No Bits & BHAs Bit Run Size (in) Make Model Depth In (ft... Depth Out... Length (ft) Job Drill Hr... Job Circ Hr... Avg ROP (f... . Rot Time (hr) Slide Time.. Nozzies (1/32") BHA# Min Weight on Bit (1000lbf) Max Weight on Bit (1000lbf) Min RPM (rpm) Max RPM (rpm) Min Stand Pipe Pressure (psi) Max Stand Pipe Pressure (psi) String Length (ft) Weight of String in Air (1000lbf) **Drill String Components** Item Des OD (in) Len (ft) Cum Len (ft) **Drilling Parameters** Start Depth (ftKB) End Depth (ftKB) Cum Depth Drilled (ft) Drilling Time (hr) Cum Drilling Time (hr) interval ROP (ft/hr) Flow Rate (gpm) Weight on Bit (1000lbf) RPM (rpm) Stand Pipe Pressure (psi) Drill Str Wt (1000lbf) PU Str Wt (1000lbf) SO Str Wt (1000lbf) **Drilling Torque** Off Bottom Torque **Hydraulic Calculations** Bit Hydraulic Power (hp) Bit Hydraulic Power Per Hole Area (hp/in²) Bit Jet Velocity (ft/s) Bit Pressure Drop (psi) Percent of Pressure Drop at Bit (%) Max Casing AV (ft/min) Max Open Hole AV (ft/min) Min Casing AV (ft/min) ECD End (lb/gal) Min Open Hole AV (ft/min) **Mud Properties** Type Water Base Time Depth (ftKB) Density (lb/gal) Funnel Viscosity (s/qt) PV Calc (cP) YP Calc (lbf/100ft²) 12:45 4,696 29 Gel 10 sec (lbf/100ft²) Gel 10 min (lbf/100ft²) Filtrate (mL/30min) Filter Cake (1/32") Solids (%) Lime (lb/bbl) 10.0 1.2 Chlorides (mg/L) Pm Filtrate (mL/mL) Calcium (mg/L) Electric Stab (V) Pm (mL/mL) Pf (mL/mL) Percent Oil (%) 83,000 0.10 0.0 Oil Water Ratio Flow Line Temperature (°F) Vis 6rpm Magnesium (mg/L) Low Gravity Solids (%) HTHP Filtrate (mL/30min) HTHP Filter Cake (1/32") 0/100 2,600.000 6.7 Min Background Gas Max Background Gas Min Connection Gas Max Connection Gas Max Trip Gas Max H2S (ppm) **Mud Additive Amounts** Units Rec Consumed Returned CAUSTIC SODA 50# SACK 1.0 44.0 CSC 25# SACK 90 105.0

14.0

100.0

9.0

93.0

0.0

39.0



Date: 11/15/2016

Report #: 16.0 DSS: 13.13

Well Name: ZIA AGI #2D

Proposed:

Lat: 32.643951 Long: -103.811116

Casing Strings			· · · · · · · · · · · · · · · · · · ·	* * * * * * * * * * * * * * * * * * * *			- 3	
	Csg Des		OD (in)	Shoe Joint Volume (lb/ft)	Grad	e Set Depth (ftKl	3)	FIT (psi)
Surface			20	106.50		444 majorit (rata	26.0	TTT (psi)
Intermediate			13 3/8	61.00	J-55		55.5	
Intermediate	, and the second		9 5/8	the second secon			96.0	
BOPs				10.00	11, 00		30.0	
Pressure Rating (psi) 10,000.0		Nominal ID (in) 13 5/8	(in) Last BOP Test Date 11/14/2016					
Formation					111/1-	WZOTO	-	
	Formation Name	,		Prog Top MD (ftKB)				
BASE OF REEF								4,436.00
Fluids, Disposal and V	Vater							7,730.00
Supply Item Des	Unit Label	Rec	ceived	Consumed		Cum On Loc		teturned
BRINE WATER	LOAD			2.37047704	7.0	-27.0		etamed
RIG DIESEL	gal us			6	624.0	17,475.0		
Costs Summary	- American	the second				,.,,,,,,,		

Billing Category	Cost Des	Daily Field Est (Cost)	Cum Fld Est (Cost)	AFE Amt (Cost)
209	D-Daywork Contract	\$16,000	\$251,000	APE AIRE (COSE)
210	D-Directional Drlg Services	\$4,200	\$69,300	\$0
211	D-Fuel & Power	\$1,400	\$35,223	\$0
213	D-Bits	\$6,500	\$35,000	\$0
214	D-Mud & Chemicals	\$2,402	\$27,522	\$0
226	D-Company Sprysn	\$1,800	\$28,800	\$0
227	D-Contract Sprvsn	\$3,200	\$51,200	\$0
235	D-Rentals-Surface	\$14,315	\$118,625	\$0
236	D-Rentals-Subsrfc	\$300	\$32,030	\$0
244	D-Envmntl/Clsd Loop	\$2,750	\$119,355	\$0



Date: 11/16/2016

Report #: 17.0 DSS: 14.13 Well Name: ZIA AGI #2D Proposed: <typ1>, <de <typ1>, <d TD/MD, 14,750 TD/TVD, 14,750 TD/VS. 0 Lat: 32.643951 Long: -103.811116 Rig Phone #: (432) 853-9909 Contractor: SCANDRILL #/Crew: FREEDOM Asset Group: DELAWARE BASIN Area: AGI Field Name: AGI API/UWI: 30-025-42207 State: NM County: LEA Prospect: End Depth (ftKB): 4,933.0 Permit #: End Depth (TVD) (ftKB): 4,932.6 Ground Elevation (ft): 3,547.00 Spud Date: 11/2/2016 03:00 Original KB Elevation (ft): 3,572.00 24 Hr Progress (ft): 237.00 Rig Release Date: Target Formation: DEVONIAN KB-Ground Distance (ft): 25.00 Drilling Hours (hr): 4.50 Total AFE Amount (Cost) 009612 Cum Field Est To Date (Cost) Daily Field Est Total (Cost) Job AFE Amount (Cost) \$1,689,777 \$68,092 Daily Activity from 11/15/2016 - 11/16/2016 Operations at Report Time DRLG 8 3/4" VERT W/ MWD @ 4933', 57 FPH. Past 24 Hours Operation Summary RUN CBL W/ SCHLUMBERGER @ 4696'. TEST 9 5/8" CSG W/ 3RD PARTY TESTER TO 1500 PSI F/ 30 MIN. REPLACE KELLY HOSE. MAKE UP & SURFACE TEST 8 3/4" BHA & MWD. MAKE UP BIT #6 & TIH, TAG CMT @ 4642'. DRLG CMT & 9 5/8" FLOAT EQUIPMEN F/ 4642' - 4696'. DRLG 8 3/4" VERT W/ MWD F/ 4696' - 4706'. CIRC BTMS UP. PERFORM FIT @ 4706' @ 11# EMW F/ 5 MIN, NO LEAK OFF. PERFORM FIT @ 11.5# EMW F/ 5 MIN, NO LEAK OFF. DRLG 8 3/4" VERT W/ MWD F/ 4706' - 4933'. Operations Next Report Period DRLG 8 3/4" VERT W/ MWD Incident Reported | Accident Reported Daily Contacts
CONTRACT DRLG FRMN, GEORGE SMITH, No No Time Log Start End End Depth Com NPT? Time Dur (hr) (ftKB) Sub-Activity No RIG UP SCHLUMBERGER WIRELINE AND RUN CBL LOG @ 4696'. RIG DOWN 06:00 11:00 5.00 4,696 CBL SCHLUMBERGER. No PJSM - RU BATTLE ENERGY & TEST 9 5/8" CSG TO 1500 PSI F/ 30 MIN. NO LEAKS 11:00 12:00 1.00 4,696 TEST CSG SERVICE RIG & TOP DRIVE. No 12:00 12:30 0.50 4,696 LUBRICATE RIG REPLACE KELLY HOSE & SURFACE TEST TO 1500 PSI. NO LEAKS. No 12:30 15:00 2.50 4,696 DEFECT No MAKE UP & SURFACE TEST 8 3/4" BHA W/ MWD. 15:00 17:30 2.50 4.696 TIH DO FLT EQUIP No MAKE UP BIT #6 & TIH. TAG CMT @ 4642' 4,696 TOH DO FLT EQUIP 17:30 22:00 4.50 No DRLG CMT & 9 5/8" FLOAT EQUIPMENT F/ 4642' - 4696' 4.696 D/O CMT/ FLT EQUIP 00:30 2 50 22:00 DRLG 8 3/4" VERT W/ MWD F/ 4696' - 4706'. 10' @ 20 FPH. ***START DRLG 8 3/4" VERT No 4,706 DRLG W/MTR 00:30 01:00 0.50 @ 0100 11/16/16.*** No 4,706 CIRC BTMS UP CIRC BTMS UP. 01:00 01:30 0.50 PERFORM FIT @ 11# EMW W/ 8.9 MW - 513 PSI, HELD F/ 5 MIN. NO LEAK OFF. No 4,706 LEAK OFF/FIT TEST 01:30 02:00 0.50 PERFORM FIT @ 11.5# W. 8.9 MW - 636 PSI HELD F/ 5 MIN. NO LEAK OFF. No DRLG 8 3/4" VERT W/ MWD F/ 4706' - 4933'. 227' @ 57 FPH. 4,933 DRLG W/MTR 02:00 06:00 4.00 Bits & BHAs Rot Time (hr) Slide Time Bit Run Size (in) Make Model 13/13/13/13/13/13/13 3.00 52.7 TD507FX 7161826 4,696.0 4,933.0 1.00 4.50 4.50 6 8 3/4 BAKER HUG Min Stand Pipe Pressure (psi) Max Stand Pipe Pressure (psi) Max Weight on Bit (1000lbf) Min RPM (rpm) 60 Max RPM (rpm) Min Weight on Bit (1000lbf) BHA# 60 2.540.0 6 25 Weight of String in Air (1000lbf) String Length (ft) 4,612.56 **Drill String Components** Cum Len (ft) OD (in) Len (ft) Item Des 4,612.56 5 3,870.29 124 Drill Pipe 742,27 2.13 6 1/4 1 XO Sub 146.33 740.14 6 1/2 DRILL COLLAR 5 593.81 31.36 6 1/2 HYD DRLG JARS 436.86 562.45 6 1/2 15 Drill Collar 125.59 3.26 6 1/2 1 XO Sub 6 5/8 6.34 122 33 3 PT ROLLER REAMER 115 99 6 1/2 29.60 1 NMDC 86,39 6 1/2 27.98 1 NMDC 58 41 2.67 6 1/2 1 Orientation Sub 3.65 55.74 6 5/8 XO Sub 7.47 52.09 6 5/8 1 3 PT ROLLER REAMER 44 62 6 5/8 11.99 Shock Sub 32.63 31.63 6 1/2 1 Mud Motor **Drilling Parameters** Cum Drilling Time (hr) nterval ROP (ft/hr) Flow Rate (gpm) End Depth (ftKB) Cum Depth Drilled (ft) 237.00 Drilling Time (hr) Wellbore Start Depth (ftKB) 585 52.7 4.50 4.50 Original Hole 4,933.0 4,696.0 Drilling Torque 3,800.0 Off Bottom Torque

PU Str Wt (1000lbf)

Stand Pipe Pressure (psi)

Bit Hydraulic Power Per Hole Area (hp/in²)

2 540 0

Max Open Hole AV (ft/min)

22.7

Drill Str Wt (1000lbf)

206.9

270.7

Bit Jet Velocity (ft/s)

Min Casing AV (ft/min)

185

SO Str Wt (1000lbf)

175

348.8

Bit Pressure Drop (psi)

Min Open Hole AV (ft/min)

500.0

Percent of Pressure Drop at Bit (%)

14

9.00

ECD End (lb/gal)

119.0

25

Weight on Bit (1000lbf)

Bit Hydraulic Power (hp)

Max Casing AV (ft/min)

Hydraulic Calculations

RPM (rpm)

60



Date: 11/16/2016

Report #: 17.0

DSS: 14.13

Well Name: ZIA AGI #2D

Proposed:

Lat: 32.643951 Long: -103.811116

Pump # 2, T	TIPIEX	Start Date		End Date	Make			Model		
2		11/15/2016	22:00	11/16/2016 06:00	Bom	со		F-1600		
Survey Data					10.49	NS (ft)	-	EW (ft)	DLS (°/100ft)	
MD (ftKB		d (°)	Azm (°)	TVD (ftKB) 4.785.56	VS (ft) 26.36	143 (11)	-1.05	-26.34	0.41	
	786.00	0.30	101.20	4,765.56	25.61		-1.20	-25.58	0.00	
	933.00	0.30	101.20	4,932.30	23.01		1.20		Andrew Market professional and the second	
Casing Strin				OD (in)	Shoe Joint Volume (lb/ft)	Grade	T Set	Depth (ftKB)	FIT (psi)	
Conductor	C	sg Des		30				120.0		
Conductor				20	The state of the s	the same of the sa		826.0		
Surface				13 3/8			-	2,555.5		
Intermediate				9 5/8		the second secon		4,696.0	2,811.0	
Intermediate				9 3/0	40.00	14 00		- 1,000.0	A CONTRACTOR OF THE PARTY OF TH	
BOPs			This size U.S.	(ia)	the second secon	LI ast BO	P Test Date			
Pressure Rating ((psi)		Nominal ID 13 5/8	(81)		11/14				
Formation										
		Formation N	lame			Prog Top MD (ftKB) 4.718.00				
DELAWARE									4,710.0	
	osal and Water						0		Returned	
	Item Des	Unit Lab	el	Received	Consumed 2.0		Cum On Loc	-29.0	retarries	
BRINE WAT		DAC			1.0			-28.0		
CUTTINGS		IN				2.0		-35.0	THE PARTY OF THE P	
MUD/SOLID DISPOSAL	S/CMT L	DAD			4					
RIG DIESEL	g	al us				904.0	16,	571.0		
Costs Sumi	mary									
Billing			Cost Des		Daily Field E	st (Cost)	Cum Fld Est (C	Cost)	AFE Amt (Cost)	
Category 209	D-Daywork Cont	ract	COSt Des			\$16,000	\$	267,000	\$	
210	D-Directional Dr				THE RESERVE OF THE	\$4,200		\$73,500	\$	
211	D-Fuel & Power	y Services				\$2,000		\$37,223	\$	
212	D-Water	10.140 - 1.00 - 1.00 - 1.00 - 1.00 - 1.00 - 1.00 - 1.00 - 1.00 - 1.00 - 1.00 - 1.00 - 1.00 - 1.00 - 1.00 - 1.00				\$700	**************************************	\$24,030	\$	
213	D-Bits			i dan dan dan dan dan dan dan dan dan dan		\$8,000	****	\$43,000	\$	
214	D-Mud & Chemi	cals				\$2,402		\$29,924	3	
226	D-Company Spr					\$1,800		\$30,600	9	
227	D-Contract Sprv					\$3,200		\$54,400	9	
230	D-Logging	311 				\$15,200	and the second second	\$33,050		
235	D-Logging D-Rentals-Surfa					\$3,190		6121,815		
Contract of the second	D-Rentals-Subs	Marian Marian Marian Company	and the second second			\$6,850		\$38,880		
236	U-Rentals-Subs	IIC				\$4,550		123,905		



Date: 11/17/2016

Report #: 18.0 DSS: 15.13

Well Name: ZIA AGI #2D Proposed: <typ1>, <de Contractor: SCANDRILL

Asset Group: DELAWARE BASIN

<typ1>, <d TD/MD, 14,750

TD/TVD, 14,750 TD/VS, 0 #/Crew: FREEDOM

Lat: 32.643951 Long: -103.811116 Rig Phone #: (432) 853-9909

Field Name: AGI

API/UWI: 30-025-42207

Permit #:

Ground Elevation (ft): 3,547.00 Original KB Elevation (ft): 3,572.00 KB-Ground Distance (ft): 25.00

Target Formation: DEVONIAN 009612

Spud Date: 11/2/2016 03:00

End Depth (TVD) (ftKB): 6,761.9 24 Hr Progress (ft): 1,830.00 Drilling Hours (hr): 23.00

Area: AGI

State: NM

End Depth (ftKB): 6,763.0

Total AFE Amount (Cost)

Job AFE Amount (Cost)

Rig Release Date:

County: LEA

Prospect:

Daily Field Est Total (Cost) \$44,167

Cum Field Est To Date (Cost)

\$1,733,944

Daily Activity from 11/16/2016 - 11/17/2016

Operations at Report Time DRLG 8 3/4" VERT W/ MWD @ 6763', 83 FPH.

Past 24 Hours Operation Summar

Past 24 Hours Operation Summary
DRLG 8 3/4" VERT W/ MWD F/ 4933' - 5060'. LUBRICATE RIG. RR/ REPLACE O-RING IN WEIGHT INDICATOR @ 5060'. DRLG 8 3/4" VERT W/ MWD F/

DRLG 8 3/4" VERT W/ MWD.

Incident Reported No

Accident Reported No Daily Contacts
CONTRACT DRLG FRMN, TODD HINTON, ; CONTRACT DRLG FRMN, GEORGE SMITH,

Time Log	
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Start	End					And the second s
			End Depth			
Time	Time	Dur (hr)	(ftKB)	Sub-Activity		
14/	08:00	2.00	5,060		Com	
08:00	08:30	0.50		LUDDIO	DRLG 8 3/4" VERT W/ MWD F/ 4933' - 5060'. 127' @ 64 FPH.	NPT?
08:30	09:00	0.50	5,000	MEIOUE	OLKVICE RIG & TOP DRIVE.	No
09:00			0,000	WEIGHT INDICATOR	THE STORE OF THE PROPERTY OF T	No
Bits &	The state of the s	21.00	6,763	DRLG W/MTR	DRLG 8 3/4" VERT W/ MWD F/ 5060' - 6763'. 1703' @ 81 FPH.	No
Bit Run	Size (i	0) [840]				No

Bit Run Size (in)	Make Model SN Depth in /ft Dayl St.	OTTIL.	No
6 8 3/4 BHA#	BAKER HUG TD507FX 7161826 4,696.0 6,763.0 1.00	27 50 2 50 AVY ROP (T ROT Time (hr) Slide Time	Nozzles (1/32")
6	25 Max Weight on Bit (1000lbf) Min RPM (rpm)	10.00 170.2 27.50	13/13/13/13/13/13/13
String Length (ft) 6,763,11	00	213 2 540 0	Max Stand Pipe Pressure (psi) 2.608.0
Drill String Compo	onents	Weight of String in Air (1000lbf)	[2,000.0

Drill String Components

193	Drill Pipe Item Des			
		OD (in)	Len (ft)	Cum Len (ft)
	XO Sub	5	6,020.84	6,76
	DRILL COLLAR	6 1/4	2.13	74
	HYD DRLG JARS	6 1/2	146.33	
15	Drill Collar	6 1/2	31.36	74
1	XO Sub	6 1/2	436.86	59
	3 PT ROLLER REAMER	6 1/2	3.26	56 12
	NMDC	6 5/8	6.34	12
1	NMDC	6 1/2	29.60	17
1	Orientation Sub	6 1/2	27.98	8
	XO Sub	6 1/2	2.67	
1 :	3 PT ROLLER REAMER	6 5/8	3.65	5
1 :	Shock Sub	6 5/8	7.47	5
	Mud Motor	6 5/8	11.99	4
g Param		6 1/2	31.63	3

Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Donth Delle 4 (6)				
Original Hole	4,933.0	6,763.0	Cum Depth Drilled (ft) 2,067.00	Drilling Time (hr) 23.00	Cum Drilling Time (hr) 27.50	Interval ROP (ft/hr)	Flow Rate (gpm)
Weight on Bit (1000lbf)	RPM (rpm)	Stand Pipe Pressure (psi)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)		79.6	590
36 Hydraulic Calcula	100	2,608.0	200	210	SO Str Wt (1000lbf) 190	Drilling Torque 5,000.0	Off Bottom Torque 500.0

		130	5,000.0
Bit Hydraulic Power Per Hole Area (hp/in²) 2.0	Bit Jet Velocity (ft/s) 208.6	Bit Pressure Drop (psi)	Percent of Pressure Drop at Bit (%)
Max Open Hole AV (ft/min) 22.9	Min Casing AV (ft/min) 273.0	Min Open Hole AV (ft/min) 22.2	ECD End (lb/gal) 9.00
	Max Open Hole AV (ft/min)	Max Open Hole AV (ft/min) Min Casing AV (ft/min)	Bit Hydraulic Power Per Hole Area (hp/ln²) 2.0 Bit Jet Velocity (ft/s) 208.6 Max Open Hole AV (ft/min) Min Casing AV (ft/min) Min Open Hole AV (ft/min)

Mud Properties

ime	Туре	ID11-101	(5)									
03:20	Water Base	4,839	Depth (ftKB) 4,839		(B) Density (lb/gal) 9.0		gal) Funnel Viscosity 29		Funnel Viscosity (s/qt)		YP Calc (lbf/100ft²)	
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Filtrate (mL/30min)		Filter Cake (1	Filter Cake (1/32") pH 10.			Solids (%) 1.2	Lime (lb/bbl)			
Chlorides (mg/L) 57,000	WPS (mg/L) Cal		Calcium (mg/L)		Electric Stab (V) Low Gravity Solids (%) 5.0		***	Pf (mL/mL) 0.15	Percent Oil (%)			
Oil Water Ratio 0/100	Flow Line Temperature (°F) Vis (Vis 6rpm)	HTHP Filtrate (mL/30min)	0.0 HTHP Filter Cake (1/32"			
Min Background Gas Max Background Gas 31.00			Min Connection Gas 4.00		Max Connection Ga 22.00		Max Trip	Gas	Max H2S (ppm)			
Mud Additive Amou	ints				1	12-12-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			L.,			
Des	Des Units		Rec		Consumed			On Loc	Returned			

Des



Date: 11/17/2016

Report #: 18.0 DSS: 15.13

Lat: 32.643951 Long: -103.811116

Well Name: ZIA AGI #2D

Proposed:

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
6,188.00	1.80	48.90	6,187.14	14.09	15.75	-1.71	0.0
6,282.00	1.80	45.90	6,281.10	16.73	17.74	0.46	0.10
6,376.00	1.60	47.30	6,375.05	19.25	19.66	2.49	0.10
6,470.00	1.60	46.20	6,469.02	21.61	21.46	4.40	0.03
6,563.00	1.60	46.90	6,561.98	23.95	23.24	6.28	0.03
6,763.00	1.60	47.00	6,761.90	28.97	27.06	10.36	0.02

Csg Des	OD (in)	Shoe Joint Volume (lb/ft)	Grade	Set Depth (ftKB)	EIT (pei)
Conductor	30			120.0	FIT (psi)
Surface	20	106.50	J-55	826.0	- Irian Laterature
Intermediate	13 3/8	61.00	J-55	2.555.5	
Intermediate	9 5/8	40.00	N-80	4,696.0	2,811.6
BOPs					=,0 1 1.0

Pressure Rating (psi) 10,000.0	Nominal ID (in) 13 5/8	Last BOP Test Date 11/14/2016			
Formation					
	Formation Name	Prog Top MD (ftKB)			
DELAWARE	the second of th	Tog Top MD (IIVB)			

-	Formation Name		Prog Top MD (ftKB)						
DELAWARE			4,718.00						
Fluids, Disposal and V	Vater	The second secon			1,110.00				
Supply Item Des	Unit Label	Received	Consumed	Cum On Loc	Returned				
BRINE WATER	LOAD		4.0	-33.0	recurred				
CUTTINGS BIN	BIN	the state of the s	1.0	-29.0					
RIG DIESEL	gal us		2,214.0 14,357.0						
			The state of the s						

Billing Category	Cost Des	Daily Field Est (Cost)	Cum Fld Est (Cost)	AFE Amt (Cost)
209	D-Daywork Contract	\$16,000	\$283,000	\$(
210	D-Directional Drlg Services	\$4,200	\$77,700	\$(
211	D-Fuel & Power	\$4,850	\$42,073	\$(
212	D-Water	\$1,400	\$25,430	\$(
214	D-Mud & Chemicals	\$2,402	\$32,326	\$(
226	D-Company Sprvsn	\$1,800	\$32,400	\$0
227	D-Contract Sprvsn	\$3,200	\$57,600	\$0
235	D-Rentals-Surface	\$2,315	\$124,130	\$0
236	D-Rentals-Subsrfc	\$4,150	\$43,030	\$0
244	D-Enymntl/Clsd Loop	\$3,850	\$127.755	œr.



0/100

105.0

Daily Drilling Report

Date: 11/18/2016

Report #: 19.0 DSS: 16.13 Well Name: ZIA AGI #2D Lat: 32.643951 Long: -103.811116 TD/VS. 0 Proposed: <typ1>, <de <typ1>, <d TD/MD, 14,750 TD/TVD, 14,750 Rig Phone #: (432) 853-9909 Contractor: SCANDRILL #/Crew: FREEDOM Field Name: AGI Asset Group: DELAWARE BASIN Area: AGI API/UWI: 30-025-42207 County: LEA State: NM End Depth (ftKB): 7,512.0 Permit #: Prospect: Spud Date: 11/2/2016 03:00 Ground Elevation (ft): 3,547.00 End Depth (TVD) (ftKB): 7,510.2 Original KB Elevation (ft): 3,572.00 24 Hr Progress (ft): 749.00 Rig Release Date: KB-Ground Distance (ft): 25.00 Target Formation: DEVONIAN Drilling Hours (hr): 11.00 Total AFE Amount (Cost) 009612 Cum Field Est To Date (Cost) Daily Field Est Total (Cost) Job AFE Amount (Cost) \$1,789,729 \$55,785 Daily Activity from 11/17/2016 - 11/18/2016 Operations at Report Time TIH W/ 8 3/4" SHC BHA @ 7512' Past 24 Hours Operation Summary
DRLG 8 3/4" VERT W/ MWD F/ 6763' - 7512'. PUMP SWEEP & CIRC F/ TOH TO PICK UP SHC @ 7512' DUE TO HOLE BUILDING ANGLE. TOH & LD 8 3/4" MOTOR. MAKE UP & SURF TEST 8 3/4" SHC BHA. TIH W/ 8 3/4" SHC BHA. Operations Next Report Period TIH W/ 8 3/4" SHC BHA TO 4696'. SLIP & CUT DRLG LINE @ 4696'. CONTINUE TIH W/ 8 3/4" SHC BHA. DRLG 8 3/4" VERT W/ SHC. Incident Reported Accident Reported Daily Contacts CONTRACT DRLG FRMN, TODD HINTON, ; CONTRACT DRLG FRMN, GEORGE SMITH, No No Time Log Start End Depth End NPT? Time Dur (hr) Sub-Activity Time DRLG 8 3/4" VERT W/ MWD F/ 6763' - 7479'. 749' @ 72 FPH. No 06:00 10.50 7,479 DRLG W/MTR No SERVICE RIG & TOP DRIVE. 16:30 17:00 0.50 7,479 LUBRICATE RIG DRLG 8 3/4" VERT W/ MWD F/ 7479' - 7512'. 33' @ 66 FPH. No 7,512 DRLG W/MTR 17:00 17:30 0.50 No PUMP SWEEP & CIRC F/ TOH TO PICK UP SHC BHA. 17:30 19:00 1.50 7.512 PUMP SWEEP TOH TO PICK UP SHC @ 7512'. LD MOTOR & REAMERS. No 19:00 01:30 6.50 7.512 TOH DEVIATION No 7,512 PULL/INSTALL WEAR INSTALL 10 1/4" WEAR BUSHING. 1.00 01:30 02:30 **BSHG** MAKE UP & SURFACE TEST 6 3/4" 7/8-5.0 FIXED 1.5* MOTOR & MWD. No 04:30 2.00 7,512 TIH DEVIATION 02:30 No MAKE UP BIT #7 & TIH. 04:30 06:00 1.50 7,512 TIH DEVIATION Bits & BHAs Job Drill Hr... Job Circ Hr... Avg ROP (f... Rot Time (hr) Slide Time. Model SN Depth In (ft 7,512.0 Depth Out 7,512.0 Length (ft) Bit Run Size (in) 13/13/13/13/13/13/13 1.00 8 3/4 BAKER HUG.. Min Stand Pipe Pressure (psi) Max Stand Pipe Pressure (psi) Max RPM (rpm) Min Weight on Bit (1000lbf) Max Weight on Bit (1000lbf) Min RPM (rom) BHA# Weight of String in Air (1000lbf) String Length (ft) 7,553.85 **Drill String Components** Cum Len (ft) OD (in) Len (ft) Item Des 7,553.85 5 6,831.96 218 Drill Pipe 721.89 2.13 6 1/4 1 XO Sub 719.76 146.33 6 1/2 5 DRILL COLLAR 573.43 31.36 6 1/2 HYD DRLG JARS 436.86 542.07 6 1/2 15 Drill Collar 6.5/8 7.47 105.21 1 3 PT ROLLER REAMER 3.26 97.74 6 1/2 1 XO Sub 94.48 6 1/2 29.60 1 NMDC 64.88 27.98 6 1/2 1 NMDC 2.65 36.90 6 1/2 Orientation Sub 6.34 34.25 6 5/8 3 PT ROLLER REAMER 26.91 27.91 6 1/2 1 Mud Motor **Drilling Parameters** Cum Drilling Time (hr) Interval ROP (ft/hr) Flow Rate (gpm) End Depth (ftKB) Cum Depth Drilled (ft) Drilling Time (hr) Start Depth (ftKB) Wellhore Original Hole 7,512.0 7,512.0 PU Str Wt (1000lbf) SO Str Wt (1000lbf) Drilling Torque Off Bottom Torque Weight on Bit (1000lbf) Stand Pipe Pressure (psi) Drill Str Wt (1000lbf) RPM (rpm) 260 200 220 **Hydraulic Calculations** Percent of Pressure Drop at Bit (%) Bit Pressure Drop (psi) Bit Hydraulic Power Per Hole Area (hp/in²) Bit Jet Velocity (ft/s) Bit Hydraulic Power (hp) ECD End (lb/gal) Min Open Hole AV (ft/min) Min Casing AV (ft/min) Max Casing AV (ft/min) Max Open Hole AV (ft/min) 0.0 0.0 0.0 Unable to calculate annular pressure drop because pressure drop data is missing from AV calc **Mud Properties** YP Calc (lbf/100ft²) Funnel Viscosity (s/qt) PV Calc (cP) Depth (ftKB) Density (lb/gal) Time 29 9.1 06:00 Water Base 6.811 Lime (lb/bbl) Solids (%) Filter Cake (1/32") pH Gel 10 min (lbf/100ft²) Filtrate (mL/30min) Gel 10 sec (lbf/100ft²) 10.5 1.9 Percent Oil (%) Pm (mL/mL) Pf (mL/mL) Electric Stab (V) Chlorides (mg/L) WPS (mg/L) Calcium (mg/L) 0.10 0.0 50,000 HTHP Filter Cake (1/32") HTHP Filtrate (mL/30min) Low Gravity Solids (%) Magnesium (mg/L) Oil Water Ratio Flow Line Temperature (°F) Vis 6rpm

5.2

Min Connection Gas

437.000

Max Connection Gas

Max Trip Gas

Max H2S (ppm)



Date: 11/18/2016

Report #: 19.0

DSS: 16.13

Well Name: ZIA AGI #2D

Proposed:

236

237

244

D-Rentals-Subsrfc

D-Envmntl/Clsd Loop

D-Trucking/Forklift/Rig Mobil

Lat: 32.643951 Long: -103.811116 Pump # 2, Triplex Pump Number Start Date End Date Make Model 11/17/2016 06:00 11/17/2016 19:00 Bomco F-1600 Action Type Triplex Liner Size (in) Pressure (psi) Strokes (spm) Stroke Length (in) Volumetric Efficiency (%) Flow Rate (gpm) 220.0 40 12.00 96 4,645 **Survey Data** MD (ftKB) TVD (ftKB) Azm (°) VS (ft) NS (ft) EW (ft) DLS (°/100ft) 7,031.00 1.40 49.90 7,029.79 34.85 32.18 16.01 0.22 7,125.00 1.50 57.50 37.16 7,123.76 33.59 17.93 0.23 7,219.00 1.90 60.40 7,217.72 39.80 35.02 20.32 0.44 7,312.00 3.30 65.40 7,310.63 43.69 36.89 24.10 1.52 7,406.00 4.00 66.40 7,404.43 49.10 29.56 0.75 7,512.00 4.00 66.40 7,510.18 55.76 42.29 36.34 0.00 **Casing Strings** Csg Des OD (in) Shoe Joint Volume (lb/ft) Grade Set Depth (ftKB) FIT (psi) Conductor 30 118.52 A53 120.0 Surface 20 106.50 J-55 826.0 Intermediate 13 3/8 61.00 J-55 2,555.5 Intermediate 9 5/8 40.00 N-80 4,696.0 2,811.6 **BOPs** Pressure Rating (psi) Nominal ID (in) Last BOP Test Date 10,000.0 13 5/8 11/14/2016 Formation Formation Name Prog Top MD (ftKB) BONE SPRINGS 7,046.00 Fluids, Disposal and Water Supply Item Des Unit Label Received Consumed Cum On Loc Returned **CUTTINGS BIN** BIN 4.0 -33.0 RIG DIESEL gal us 2,019.0 12,338.0 **Costs Summary** Billing Category Cost Des Daily Field Est (Cost) Cum Fld Est (Cost) AFE Amt (Cost) 209 **D-Daywork Contract** \$16,000 \$299,000 \$0 210 **D-Directional Drlg Services** \$6,400 \$84,100 \$0 211 D-Fuel & Power \$4,400 \$46,473 \$0 213 D-Bits \$8,000 \$51,000 \$0 214 D-Mud & Chemicals \$3,645 \$35,971 \$0 226 **D-Company Sprvsn** \$1,800 \$34,200 \$0 227 D-Contract Sprvsn \$3,200 \$60,800 \$0 235 D-Rentals-Surface \$2,315 \$126,445 \$0

\$2,275

\$7,150

\$600

\$45,305

\$178,975

\$134,905

\$0

\$0

\$0



Date: 11/19/2016

Report #: 20.0

DSS: 17.13 Lat: 32.643951 Long: -103.811116

Well Name: ZIA AGI #2D Proposed: <typ1>, <de

Contractor: SCANDRILL

Asset Group: DELAWARE BASIN County: LEA

Spud Date: 11/2/2016 03:00

Prospect:

009612

Rig Release Date:

Target Formation: DEVONIAN

<typ1>, <d TD/MD, 14,750 TD/TVD, 14,750 TD/VS, 0 #/Crew: FREEDOM

Area: AGI State: NM

\$42,251

End Depth (ftKB): 8,739.0 End Depth (TVD) (ftKB): 8,737.1 24 Hr Progress (ft): 1,227.00 Drilling Hours (hr): 14.50

Total AFE Amount (Cost)

Daily Field Est Total (Cost)

Cum Field Est To Date (Cost) \$1,831,980

Field Name: AGI

Permit #:

API/UWI: 30-025-42207

Rig Phone #: (432) 853-9909

Ground Elevation (ft): 3,547.00

KB-Ground Distance (ft): 25.00

Original KB Elevation (ft): 3,572.00

Daily Activity from 11/18/2016 - 11/19/2016

Job AFE Amount (Cost)

Operations at Report Time DRLG 8 3/4" VERT W/ SHC @ 8,739', 87 FPH.

Past 24 Hours Operation Summary

TIH W/ 8 3/4" SHC BHA F/ 0 - 4696'. SLIP & CUT 60' OF DRLG LINE @ 9 5/8" CSG SHOE. CONTINUE TIH W/ 8 3/4" SHC BHA F/ 4696' - 4780'. SERVICE RIG. RR/ REPLACE BROKEN FITTING ON TOP DRIVE BRAKE CANNISTER. CONTINUE TIH W/ 8 3/4" SHC BHA F/ 4780' - 7512'. DRLG 8 3/4" VERT W/ SHC F/ 7512' - 8739'. 1227' @ 85 FPH.

Operations Next Report Period

DRLG 8 3/4" VERT W/ SHC

Incident Reported | Accident Reported No No

Daily Contacts
CONTRACT DRLG FRMN, TODD HINTON, ; CONTRACT DRLG FRMN, GEORGE SMITH,

Time Log

Start Time	End Time	Dur (hr)	End Depth (ftKB)	Sub-Activity	Com	NPT?
06:00	09:00	3.00	7,512	TIH DEVIATION	CONTINUE TIH W/ SHC BHA TO 4696'.	No
09:00	10:30	1.50	7,512	CDL	SLIP & CUT 60' DRLG LINE @ CSG SHOE.	No
10:30	13:00	2.50	7,512	TIH DEVIATION	CONTINUE TIH W/ SHC BHA F/ 4696' - 4780'.	No
13:00	13:30	0.50	7,512	LUBRICATE RIG	SERVICE RIG & TOP DRIVE.	No
13:30	14:30	1.00	7,512	MISCELLANEOUS	RIG REPAIR. REPLACE BROKEN FITTING ON TOP DRIVE BRAKE CANISTER.	No
14:30	15:30	1.00	7,512	TIH BUILD RATES	CONTINUE TIH W/ SHC BHA F/ 4780' - 7512'.	No
15:30	06:00	14.50	8,739	DRLG W/SHC	DRLG 8 3/4" VERT W/ SHC F/ 7512' - 8739'. 1259' @ 85 FPH.	No

Bits & BHAs

7	8 3/4	Make BAKER HUG	TD507FX		7,512.0			14.50	r Job Circ Hr	84.6	14.50		Nozzles (1/32") 13/13/13/13/13/13/13
BHA#		Min Weigh	t on Bit (1000lb	f) Max W	eight on Bit (10	000lbf)	Min RPM (rp	m)	Max RPM (rpm)		Min Stand Pip	e Pressure (psi)	Max Stand Pipe Pressure (psi)
7		35		35			196		196		3,010.0		3,010.0

8,771.67

Weight of String in Air (1000lbf)

Drill String Components

Jts	Item Des	OD (in)	Len (ft)	Cum Len (ft)
248	Drill Pipe	5	8,049.78	8,771.6
1	XO Sub	6 1/4	2.13	721.8
5	DRILL COLLAR	6 1/2	146.33	719.7
	HYD DRLG JARS	6 1/2	31.36	573.4
15	Drill Collar	6 1/2	436.86	542.0
1	3 PT ROLLER REAMER	6 5/8	7.47 3.26	105.2
1	XO Sub	6 1/2		97.
1	NMDC	6 1/2	29.60	94.4
1	NMDC	6 1/2	27.98	64.8
1	Orientation Sub	6 1/2	2.65	36.9
	3 PT ROLLER REAMER	6 5/8	6.34	34.2
1	Mud Motor	6 1/2	26.91	27.9

Drilling Parameters

Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth Drilled (ft)	Drilling Time (hr)	Cum Drilling Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
Original Hole	7,512.0	8,739.0	1,227.00	14.50	14.50	84.6	600
Weight on Bit (1000lbf)	RPM (rpm)	Stand Pipe Pressure (psi)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque	Off Bottom Torque
35	28	3,010.0	250	260	240	9,500.0	1,000.0

Hydraulic Calculations

Bit Hydraulic Power (hp) 129.9	Bit Hydraulic Power Per Hole Area (hp/in²) 2.2	Bit Jet Velocity (ft/s) 212.2	Bit Pressure Drop (psi) 371.0	Percent of Pressure Drop at Bit (%)
Max Casing AV (ft/min)	Max Open Hole AV (ft/min)	Min Casing AV (ft/min)	Min Open Hole AV (ft/min)	ECD End (lb/gal)
277.6	23.3	277.6	22.6	9.05

Mud Proportion

Error

wida Properties						
Time 08:45	Type Water Base	Depth (ftKB) 7,512	Density (lb/gal) 9.1	Funnel Viscosity (s/qt) 30	PV Calc (cP) -2	YP Calc (lbf/100ft²) 7
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH 10.0	Solids (%) 1.8	Lime (lb/bbl)
Chlorides (mg/L) 53,000	WPS (mg/L)	Calcium (mg/L)	Electric Stab (V)	Pm (mL/mL)	Pf (mL/mL) 0.10	Percent Oil (%) 0.0
Oil Water Ratio 0/100	Katio Flow Line Temperature (°F) Vis 6rpm Low Gravity Solids (%) Magnesium (mg/L) 5.3 486.000		HTHP Filtrate (mL/30min)	HTHP Filter Cake (1/32")		
Min Background Gas	Max Background Gas	Min Connection	Gas Max C		lax Trip Gas	Max H2S (ppm)



Date: 11/19/2016 Report #: 20.0

DSS: 17.13

7,046.00

Lat: 32.643951 Long: -103.811116

Prog Top MD (ftKB)

Well Name: ZIA AGI #2D

Formation Name

Proposed:

BONE SPRINGS

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	
8,248.00 0.70 190		190.20	8,246.17	55.26	40.49	37.91	0.49	
8,342.00	0.40	102.10	8,340.16	55.00	39.86	38.12	0.85	
8,436.00	0.30	145.00	8,434.16	55.16	39.59	38.59	0.29	
8,529.00	0.80	110.00	8,527.16	55.44	39.17	39.34	0.62	
8,623.00	0.90	108.20	8,621.15	56.11	38.71	40.65	0.11	
8,739.00	0.90	108.20	8,737.13	57.02	38.14	42.38	0.00	

Csg Des	OD (in)	Shoe Joint Volume (lb/ft)	Grade	Set Depth (ftKB)	FIT (psi)
Conductor	30	118.52	A53	120.0	The state of the s
Surface	20	106.50	J-55	826.0	
Intermediate	13 3/8	61.00	J-55	2,555.5	
Intermediate	9 5/8	40.00	N-80	4,696.0	2,811.6

Pressure Rating (psi) 10,000.0	Nominal ID (in) 13 5/8	Last BOP Test Date 11/14/2016	
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Fluids, Disposal and Water								
Supply Item Des	Unit Label	Received	Consumed	Cum On Loc	Returned			
CUTTINGS BIN	BIN		1.0	-34.0				
RIG DIESEL	gal us	1011	2,792.0	9,546.0				

INO DILOL	garus	2,792.0	9,340.0		
Costs Sun	nmary				
Billing Category	Cost Des	Daily Field Est (Cost)	Cum Fld Est (Cost)	AFE Amt (Cost)	
209	D-Daywork Contract	\$16,000	\$315,000	\$0	
210	D-Directional Drig Services	\$6,400	\$90,500	\$0	
211	D-Fuel & Power	\$6,100	\$52,573	\$0	
212	D-Water D-Water	\$450	\$25,880	\$	
214	D-Mud & Chemicals	\$1,836	\$37,807	\$0	
226	D-Company Sprvsn	\$1,800	\$36,000	\$0	
227	D-Contract Sprvsn	\$3,200	\$64,000	\$0	
235	D-Rentals-Surface	\$2,315	\$128,760	\$0	
236	D-Rentals-Subsrfc	\$300	\$45,605	\$0	
244	D-Envmntl/Clsd Loop	\$3,850	\$138.755	\$0	



Date: 11/20/2016

Report #: 21.0

Well Name: ZIA AGI #2D

Proposed: <typ1>, <de <typ1>, <d TD/MD, 14,750

TD/TVD, 14,750 TD/VS, 0

DSS: 18.13 Lat: 32.643951 Long: -103.811116

Contractor: SCANDRILL

Asset Group: DELAWARE BASIN County: LEA

Prospect: Spud Date: 11/2/2016 03:00

Rig Release Date: Target Formation: DEVONIAN #/Crew: FREEDOM Area: AGI State: NM

End Depth (ftKB): 9,239.0 End Depth (TVD) (ftKB): 24 Hr Progress (ft): 500.00 Drilling Hours (hr): 9.50

Rig Phone #: (432) 853-9909 Field Name: AGI API/UWI: 30-025-42207

Permit #:

Ground Elevation (ft): 3,547.00 Original KB Elevation (ft): 3,572.00

KB-Ground Distance (ft): 25.00

009612 Job AFE Amount (Cost)

Daily Field Est Total (Cost)

\$40,270

Total AFE Amount (Cost)

Cum Field Est To Date (Cost) \$1,872,250

Daily Activity from 11/19/2016 - 11/20/2016

Operations at Report Time

DRLG 8 3/4" VERT W/ SHC @ 9239', 55 FPH.

Past 24 Hours Operation Summary

DRLG 8 3/4" VERT W/ SHC F/ 8739' - 8749'. PUMP SWEEP & CIRC F/ TOH DUE TO LOW ROP @ 8749'. TOH F/ 8749' - 7612'. RE LOG GAMMA W/ MWD F/ 7612' - 7512'. CONTINUE TOH. BREAK BIT. SURF TEST MOTOR & MWD. MAKE UP BIT #8 & TIH. DRLG 8 3/4" VERT W/ SHC F/ 8749' - 9239'.

Operations Next Report Period

DRLG 8 3/4" VERT W/ SHC.

Incident Reported No Accident Reported No Daily Contacts CONTRACT DRLG FRMN, TODD HINTON, ; CONTRACT DRLG FRMN, GEORGE SMITH,

Time Log

Start	Time	Dur (hr)	End Depth (ftKB)	Sub-Activity	Com	NPT?
06:00	06:30	0.50	8,749	DRLG W/SHC	DRLG 8 3/4" VERT W/ SHC F/ 8739' - 8749'. 10' @ 20 FPH.	No
	08:00	1.50	8,749	PUMP SWEEP	PUMP & CIRC F/ TOH DUE TO LOW ROP.	No
ALCOHOL: NO	09:00	1.00	8,749	TOH BIT CHANGE	TOH DUE TO LOW ROP F/ 8749' - 7612'.	No
09:00		1.00		MWD	RE LOG GAMMA W/ MWD F/ 7612' - 7512'.	No
10:00		4.50	and the second second	TOH BIT CHANGE	CONTINUE TOH DUE TO LOW ROP.	No
14:30		1.00	8,749	TOH BIT CHANGE	BREAK OUT BIT #7. SURFACE TEST MOTOR & MWD. MAKE UP BIT #8 (RR #6).	No
	21:00 5.50 8,749 TIH BIT CHANGE			TIH W/ BIT #8 & SHC BHA. FILL DP EVERY 30 STDS.	No	
	06:00	9.00	.00 9,239 DRLG W/SHC DRLG 8 3/4" VERT W/ SHC F/ 8749' - 9239'. 490' @ 55 FPH.			
Rite &	RHAC					

Bit Run	Size (in)	Make	Model		Depth In (ft			gth (ft) Jo	ob Drill Hr	Job Circ Hr	Avg ROP (f	. Rot Time (hr)	Slide Time	Nozzles (1/32")
8	8 3/4	BAKER HUG	TD507FX	7161826	4,696.0	9,239	0.0 1.0	0 4	7.50	5.00	69.6	47.50		13/13/13/13/13/13
BHA#		Min Weigh 30	t on Bit (1000lb	of) Max We	eight on Bit (10	(OOIbf)	Min RPM 42	(rpm)	M. 4.	ax RPM (rpm) 2		Min Stand Pip 2,915.0	e Pressure (psi	Max Stand Pipe Pressure (psi) 2,915.0
String Lengt	h (ft)						-	Weigh	at of String in	Air (1000lbf)				

9,239,99

238

Drill String Components

Jts	Item Des	OD (in)	Len (ft)	Cum Len (ft)
273	Drill Pipe	5	8,518.10	9,239.9
1	XO Sub	6 1/4	2.13	721.89
5	DRILL COLLAR	6 1/2	146.33	719.76
	HYD DRLG JARS	6 1/2	31.36	573.43
15	Drill Collar	6 1/2	436.86	542.0
1	3 PT ROLLER REAMER	6 5/8	7.47 3.26 29.60 27.98	105.2
1	XO Sub	6 1/2		97.74
1	NMDC	6 1/2		94.48 64.88 36.90
1	NMDC	6 1/2		
1	Orientation Sub	6 1/2	2.65	
	3 PT ROLLER REAMER	6 5/8	6.34	34.28
1	Mud Motor	6 1/2	26.91	27.91

Drilling Parameters

Wellbore Original Hole	Start Depth (ftKB) 8,749.0	End Depth (ftKB) 9,239.0	Cum Depth Drilled (ft) 490.00	Drilling Time (hr) 9.00	Cum Drilling Time (hr) 9.00	Interval ROP (fl/hr) 54.4	Flow Rate (gpm) 600	
Weight on Bit (1000lbf)	RPM (rpm)	Stand Pipe Pressure (psi) 2 915 0	Drill Str Wt (1000lbf) 270	PU Str Wt (1000lbf) 280	SO Str Wt (1000lbf) 260	Drilling Torque 5 900 0	Off Bottom Torque	

Hydraulic Calculations

Bit Hydraulic Power (hp) 131.3	Bit Hydraulic Power Per Hole Area (hp/in²) 2.2	Bit Jet Velocity (ft/s) 212.2	Bit Pressure Drop (psi) 375.1	Percent of Pressure Drop at Bit (%)
Max Casing AV (ft/min)	Max Open Hole AV (ft/min)	Min Casing AV (ft/min)	Min Open Hole AV (ft/min)	ECD End (lb/gal)
277.6	23.3	277.6	22.6	9.20

Mud Properties

Time 10:00	Type Water Base	Depth (ftKB) 8,749	Density (It	o/gal)	Funnel Viscosity (s/q 28	t) PV Calc (cP)	YP Calc (lbf/100ft²)
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Filtrate (mL/30min)	Filter Cake	e (1/32")	pH 10.0	Solids (%) 2.3	Lime (lb/bbl)
Chlorides (mg/L) 65,000	WPS (mg/L)	Calcium (mg/L)	Electric St	ab (V)	Pm (mL/mL)	Pf (mL/mL) 0.15	Percent Oil (%) 0.0
Oil Water Ratio 0/100	Flow Line Temperature (°F)	Vis 6rpm	Low Grav	ty Solids (%)	Magnesium (mg/L) 486,000	HTHP Filtrate (mL/	/30min) HTHP Filter Cake (1/32")
Min Background Gas 44.00	Max Background Gas 222.00	Min Con 75.00	nection Gas	Max Conne 75.00	ection Gas	Max Trip Gas 37.00	Max H2S (ppm)



Date: 11/20/2016

Lat: 32.643951 Long: -103.811116

9,010.0

536.0

Report #: 21.0

DSS: 18.13

Well Name: ZIA AGI #2D

Proposed: Action Type

RIG DIESEL

gal us

Liner Size (in)

Triplex				5 1/2					
Survey Data									
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)		
8,739.00	0.90	108.20	8,737.13	57.02	38.14	42.38	0.00		
Casing Strings									
	Csg Des		OD (in)	Shoe Joint Volume (lb/ft)	Grade	Set Depth (ftKB)	FIT (psi)		
Conductor			30	118.52	A53	120.0			
Surface			20	106.50	J-55	826.0			
Intermediate			13 3/8	61.00	J-55	2,555.5	the party of the second		
Intermediate		The second water and the second	9 5/8	40.00	N-80	4,696.0	2,811.6		
BOPs	Marrothan P								
Pressure Rating (psi) 10,000.0		Nomina 13 5/8		Last BOP Test Date 11/14/2016					
Formation									
	Formation N	ame		Prog Top MD (ftKB)					
BONE SPRINGS							7,046.00		
Fluids, Disposal and W	Vater								
Supply Item Des	Unit Labe	el	Received	Consumed	Cum Or		Returned		
CUTTINGS BIN	BIN				3.0	-37.0			

Billing Category	Cost Des	Daily Field Est (Cost)	Cum Fld Est (Cost)	AFE Amt (Cost)
209	D-Daywork Contract	\$16,000	\$331,000	\$0
210	D-Directional Drlg Services	\$6,400	\$96,900	\$0
211	D-Fuel & Power	\$1,200	\$53,773	\$0
214	D-Mud & Chemicals	\$2,855	\$40,662	\$0
226	D-Company Sprvsn	\$1,800	\$37,800	\$0
227	D-Contract Sprvsn	\$3,200	\$67,200	\$0
235	D-Rentals-Surface	\$2,465	\$131,225	\$0
236	D-Rentals-Subsrfc	\$300	\$45,905	\$0
244	D.Enymotl/Cled Loop	\$6.050	\$144,805	\$0



Date: 11/21/2016

Report #: 22.0 DSS: 19.13

Well Name: ZIA AGI #2D

TD/TVD, 14,750 TD/VS, 0 <typ1>, <d TD/MD, 14,750 Proposed: <typ1>, <de

Contractor: SCANDRILL

Asset Group: DELAWARE BASIN County: LEA

Prospect:

Spud Date: 11/2/2016 03:00

Rig Release Date:

Target Formation: DEVONIAN AFE Number 009612

#/Crew: FREEDOM Area: AGI

State: NM End Depth (ftKB): 10,331.0 End Depth (TVD) (ftKB): 10,329.0 24 Hr Progress (ft): 1,092.00

Drilling Hours (hr): 23.50

Lat: 32.643951 Long: -103.811116 Rig Phone #: (432) 853-9909

Field Name: AGI API/UWI: 30-025-42207

Cum Field Est To Date (Cost)

Permit #:

\$1,898,499

Ground Elevation (ft): 3,547.00 Original KB Elevation (ft): 3,572.00 KB-Ground Distance (ft): 25.00

Total AFE Amount (Cost)

Daily Field Est Total (Cost) \$39,650 Job AFE Amount (Cost) Daily Activity from 11/20/2016 - 11/21/2016

Operations at Report Time

DRLG 8 3/4" VERT W/ SHC @ 10331', 48 FPH.

Past 24 Hours Operation Summary
DRLG 8 3/4" VERT W/ SHC F/ 9339' - 9614'. SERVICE RIG & TOP DRIVE. DRLG 8 3/4" VERT W/ SHC F/ 9614' - 10331'.

Operations Next Report Period DRLG 8 3/4" VERT W/ SHC.

Incident Reported Accident Reported No

Daily Contacts
CONTRACT DRLG FRMN, TODD HINTON, ; CONTRACT DRLG FRMN, GEORGE SMITH,

No		No	CON	TRACT DREG TRIVING		
Time L	oq					NPT?
Start	End		End Depth	Sub-Activity	Com 275' @ 44 FPH	No
Time	Time	Dur (hr)	(ftKB)	DRLG W/SHC	DRLG 8 3/4" VERT W/ SHC F/ 9239' - 9614'. 375' @ 44 FPH.	No
06:00	14:30	8.50		LUBRICATE RIG	SERVICE RIG & TOP DRIVE.	No
14:30	15:00	0.50			DRLG 8 3/4" VERT W/ SHC F/ 9614' - 10331'. 717' @ 48 FPH.	
15:00	06:00	15.00	10,331	DRLG W/SHC	N. de (492)	-

15:00 0 Bits & B			Dooth In /ft De	epth Out Length (ft)	Job Drill Hr Job Circ Hr Avg ROP (f.		
Bit Run 8	Size (in) 8 3/4	Make Model St TD507FX 7	161826 4,696.0 11	0,331.0 1.00 bf) Min RPM (rpm)	71.00 5.00 61.9 Max RPM (rpm) 199	Min Stand Pipe Pressure (psi) 2,450.0	Max Stand Pipe Pressure (psi) 2,915.0
BHA# 8 String Leng	th (ft)	30	35	180 V	Veight of String in Air (1000lbf)		

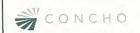
32.85		90.00	Len (ft)	Cum Len (ft)
String Co	omponents Item Des	OD (in)	9,640.96	10,362.8
Jts			2.13	721
308	Drill Pipe	6 1/4		719
1	XO Sub	6 1/2	146.33	The second secon
5	DRILL COLLAR	6 1/2	31.36	57
	HYD DRLG JARS	6 1/2	436.86	54
	Drill Collar	6 5/8	7.47	10
	3 PT ROLLER REAMER		3.26	9
		6 1/2	29.60	9
1	XO Sub	6 1/2		- 6
1	NMDC	6 1/2	27.98	
1	NMDC	6 1/2	2.65	3
1	Orientation Sub	6 5/8	6.34	3
	3 PT ROLLER REAMER	6 1/2	26.91	
1	Mud Motor			

Drilling Paramete	rs		Cum Depth Drilled (ft)	Drilling Time (hr)	Cum Drilling Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm) 485
Vellbore	Start Depth (ftKB)	Life Dopar (taxo)	1.582.00	23.50	32.50	46.5	
Original Hole	9,239.0	10,331.0	110000000000000000000000000000000000000		SO Str Wt (1000lbf)	Drilling Torque	Off Bottom Torque
Veight on Bit (1000lbf)	RPM (rpm)	Stalla Libe Liceana (La)	Drill Str Wt (1000lbf) 290	300	280	8,500.0	1,000.0
35	40	2,450.0	290	1000			

hydraulic Calculations	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Percent of Pressure Drop at Bit (%
it Hydrautic Power (hp)	Bit Hydraulic Fower For Flore 7 1100 7 1100 7 1100	171.5	245.1	10
9.3	1.2		Min Open Hole AV (ft/min)	ECD End (lb/gal)
Max Casing AV (ft/min)	Max Open Hole Av (territi)	Min Casing AV (ft/min) 224.4	18.3	9.20
224.4	18.8	224.4		

Mud Properties				10 - 1 - 11 h 10	al)	Funnel Viscosity (s/o	qt) PV Calc (cP)	YP Calc (lbf/100ft²)	
Time 11:00	Туре	9,515		Density (lb/gal) 9.2 Filter Cake (1/32")		28			Line (In Oak)
	Water Base					рН		Solids (%)	Lime (lb/bbl)
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)			I into Curto		9.0		2.3	
		011 1-	// \	Electric Stal	(V)	Pm (mL/mL)		Pf (mL/mL)	Percent Oil (%)
Chlorides (mg/L)	WPS (mg/L)	Galdull (Ingre)		Elegate Graz (1)				0.10	0.0
65,000				O consider	Low Gravity Solids (%) M			HTHP Filtrate (mL/30min)	HTHP Filter Cake (1/32)
Oil Water Ratio 0/100	Flow Line Temperature (°F)	Vis 6rpm			y Solids (%) Magnesium (mg/L) 534.600				
				6.5			Max Trip Gas M		Max H2S (ppm)
Min Background Gas	Max Background Gas	Min Connection Gas		Max Colline	Max Connection Gas				

Min Background Gas	Max Background Gas	Min Connection Gas	Max Connection Gas	Wax Trip Gas		
Mud Additive Amou	nts		Consumed	On Loc	Returned	
Des	Units	Rec	8.0	0.10		
Barite BULK	TON			2.75		
DEFOAMER	5 GAL		2.0			
			3.0	24.0		
MF-55	5 GAL		50.0	350.0		
SALT GEL	50# SACK		50.0	000,0		



Date: 11/21/2016

Report #: 22.0 DSS: 19.13

Lat: 32.643951 Long: -103.811116

Well Name: ZIA AGI #2D

D-Envmntl/Clsd Loop

244

Proposed:

Proposed:							
Survey Data				VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	73.65		.68 58.5	5 0.00
10,331.	0.30	196.10	10,328.95	73.03			
Casing Strings				Shoe Joint Volume (lb/ft)	Grade	Set Depth (ftKB)	FIT (psi)
Csg Des			OD (in) 30	118.52		120.	0
Conductor			20	106.50		826.	0
Surface				61.00		2,555.	5
Intermediate			13 3/8	40.00		4,696	
Intermediate	and the second s		9 5/8	40.00	14-00	1,000.	
BOPs					Last BOP T	est Date	
Pressure Rating (psi) Nominal ID 10,000.0 13 5/8			(in)	11/14/2016			
Formation					Drr	og Top MD (ftKB)	
Formation Name						yg rop me (m.e.)	10,270.00
WOLFCAMP						- w-	
Fluids, Disposal and Water				Consumed		Cum On Loc	Returned
Supply Item Des Unit Lab		el	Received	Consumod	2.0	-39.0	
CUTTINGS BIN BIN					016.0	6.994.0	
RIG DIESEL	gal us				010.0		
Costs Summar	у						
Billing	Cost Des			Daily Field E		Cum Fld Est (Cost)	AFE Amt (Cost) \$0
Category D-I	D-Daywork Contract				\$16,000	\$347,000	
The state of the s	D-Directional Drig Services				\$6,400	\$103,300	\$0 \$0
	D-Fuel & Power				\$4,375	\$58,148	
	D-Fuel & Power D-Mud & Chemicals				\$160	\$27,421	\$0
					\$1,800	\$39,600	\$0
	D-Company Sprvsn				\$3,200	\$70,400	\$0
	D-Contract Sprvsn				\$2,465	\$133,690	\$(
200	D-Rentals-Surface				\$300	\$46,205	\$0
200	D-Rentals-Subsrfc				\$4,950	\$149,755	\$(
244	Enymoti/Clsd Loop						



Pump # 1, Triplex Pump Number

Action Type

Start Date

11/21/2016 06:00

End Date

11/22/2016 06:00

Liner Size (in)

Make

Bomco

Model

F-1600

Daily Drilling Report

Date: 11/22/2016

Report #: 23.0

Well Name: ZIA AGI #2D DSS: 20.13 Proposed: <typ1>, <de <typ1>, <d TD/MD, 14,750 TD/TVD, 14,750 TD/VS, 0 Lat: 32.643951 Long: -103.811116 Contractor: SCANDRILL #/Crew: FREEDOM Rig Phone #: (432) 853-9909 Asset Group: DELAWARE BASIN Area: AGI Field Name: AGI County: LEA State: NM API/UWI: 30-025-42207 Prospect: End Depth (ftKB): 11,142.0 Permit #: Spud Date: 11/2/2016 03:00 End Depth (TVD) (ftKB): 11,139.8 Ground Elevation (ft): 3,547.00 Rig Release Date: 24 Hr Progress (ft): 811.00 Original KB Elevation (ft): 3,572.00 Target Formation: DEVONIAN Drilling Hours (hr): 23.50 KB-Ground Distance (ft): 25.00 AFE Number 009612 Total AFE Amount (Cost) Job AFE Amount (Cost) Daily Field Est Total (Cost) Cum Field Est To Date (Cost) \$45,175 \$1,943,674 Daily Activity from 11/21/2016 - 11/22/2016 DRLG 8 3/4" VERT W/ SHC @ 11142', 34 FPH. Past 24 Hours Operation Summan DRLG 8 3/4" VERT W/ SHC F/ 10331' - 10737'. SERVICE RIG & TOP DRIVE. DRLG 8 3/4" VERT W/ SHC F/ 10737' - 11142'. BEGIN MUD UP @ 10800'. Operations Next Report Period DRLG 8 3/4" VERT W/ SHC. Daily Contacts No No CONTRACT DRLG FRMN, TODD HINTON, ; CONTRACT DRLG FRMN, GEORGE SMITH, Time Log Start End End Depth Dur (hr) Sub-Activity (ftKB) Com NPT? 06:00 17:30 11.50 DRLG W/SHC 10,737 DRLG 8 3/4" VERT W/ SHC F/ 10331' - 10737'. 406' @ 35 FPH. No 17:30 18:00 0.50 10,737 LUBRICATE RIG SERVICE RIG & TOP DRIVE No 18:00 06:00 12.00 11,142 DRLG W/SHC DRLG 8 3/4" VERT F/ 10737' - 11142'. 405' @ 34 FPH. No Bits & BHAs Bit Run Size (in) Model SN Depth In (ft 4,696.0 Length (ft) Job Circ Hr.. Ava ROP (f Slide Time Rot Time (hr) 8 3/4 BAKER HUG. 11,142.0 | 1.00 94.50 13/13/13/13/13/13/13 5.00 55.1 94.50 BHA# Min Weight on Bit (1000lbf) Max Weight on Bit (1000lbf) Min RPM (rpm) Max RPM (rpm) Max Stand Pipe Pressure (psi) Min Stand Pipe Pressure (psi) 8 35 180 199 2,450.0 String Length (ft) 11,142.51 Weight of String in Air (1000lbf) **Drill String Components** Item Des OD (in) Len (ft) Cum Len (ft) 334 Drill Pipe 5 10.420.62 11,142.51 1 XO Sub 6 1/4 2.13 721,89 5 DRILL COLLAR 6 1/2 146.33 719.76 HYD DRLG JARS 6 1/2 31.36 573.43 15 Drill Collar 6 1/2 436.86 542.07 1 3 PT ROLLER REAMER 6 5/8 7.47 105.21 1 XO Sub 6 1/2 3.26 97.74 1 NMDC 6 1/2 29.60 94.48 1 NMDC 6 1/2 27.98 64.88 1 Orientation Sub 6 1/2 2.65 36.90 3 PT ROLLER REAMER 6 5/8 6.34 34.25 1 Mud Motor 6 1/2 26.91 27.91 **Drilling Parameters** Cum Drilling Time (hr) Wellbore Start Depth (ftKB) End Depth (ftKB) Cum Depth Drilled (ft) Drilling Time (hr) Flow Rate (gpm) Interval ROP (ft/hr) Original Hole 10,331.0 34.5 11,142.0 2,393.00 23.50 56.00 500 Weight on Bit (1000lbf) RPM (rpm) Stand Pipe Pressure (psi) Drill Str Wt (1000lbf) PU Str Wt (1000lbf) SO Str Wt (1000lbf) Drilling Torque Off Bottom Torque 25 2,650.0 310 320 300 8,000.0 1,000.0 **Hydraulic Calculations** Bit Hydraulic Power (hp) Bit Hydraulic Power Per Hole Area (hp/in²) Bit Jet Velocity (ft/s) Bit Pressure Drop (psi) ercent of Pressure Drop at Bit (%) 76 0 1.3 176.8 260.5 Max Casing AV (ft/min) Max Open Hole AV (ft/min) Min Casing AV (ft/min) Min Open Hole AV (ft/min) ECD End (lb/gal) 231.4 9.20 Error **Mud Properties** Depth (ftKB) Funnel Viscosity (s/qt) PV Calc (cP) Density (lb/gal) YP Calc (lbf/100ft²) 11:00 Water Base 9,515 9.2 28 Gel 10 sec (lbf/100ft²) Gel 10 min (lbf/100ft²) Solids (%) Filtrate (mL/30min) Filter Cake (1/32") рН Lime (lb/bbl) 9.0 2.3 Chlorides (mg/L) WPS (mg/L) Pm (mL/mL) Pf (mL/mL) Electric Stab (V) Calcium (mg/L) Percent Oil (%) 65,000 0.10 0.0 Oil Water Ratio Flow Line Temperature (°F) HTHP Filtrate (mL/30min) HTHP Filter Cake (1/32") Low Gravity Solids (%) Magnesium (mg/L) 0/100 6.5 534.600 Min Background Gas Max Background Gas Min Connection Gas Max Connection Gas Max H2S (ppm) Max Trip Gas 22.00 238.00 216.00 216.00 **Mud Additive Amounts** Des Units Rec Consumed On Loc Returned



Date: 11/22/2016

Report #: 23.0 DSS: 20.13

Lat: 32.643951 Long: -103.811116

Prog Top MD (ftKB)

Well Name: ZIA AGI #2D

Proposed:

Formation

Casing Strings										
Csq Des	OD (in)	Shoe Joint Volume (lb/ft)	Grade	Set Depth (ftKB)	FIT (psi)					
Conductor	30	118.52	A53	120.0						
Surface	20	106.50	J-55	826.0						
Intermediate	13 3/8	61.00	J-55	2,555.5						
Intermediate	9 5/8	40.00	N-80	4,696.0	2,811.6					
PODe		l, and the state of the state o								

Last BOP Test Date Nominal ID (in) Pressure Rating (psi) 11/14/2016 10,000.0 13 5/8

Formation Name 11,120.00 STRAWN Fluids, Disposal and Water Returned Cum On Loc Supply Item Des Unit Label Received Consumed **BRINE WATER** LOAD 2.0 -35.0 JET PITS/WORK ON HRS 2.0 -12.0 LOCATION 4.0 -39.0 MUD/SOLIDS/CMT LOAD DISPOSAL 5,179.0 1,815.0 RIG DIESEL gal us

Costs Summary Billing Cum Fld Est (Cost) AFE Amt (Cost) Daily Field Est (Cost) Category Cost Des \$0 \$363,000 D-Daywork Contract \$16,000 209 \$0 \$109,700 \$6,400 210 D-Directional Drlg Services \$0 \$62,098 \$3,950 211 D-Fuel & Power \$0 \$27,930 \$2,050 212 D-Water \$27,581 \$0 \$160 214 D-Mud & Chemicals \$0 \$41,400 \$1,800 226 D-Company Sprvsn \$0 \$73,600 \$3,200 227 D-Contract Sprvsn \$137,905 \$0 \$4,215 235 D-Rentals-Surface \$0 \$46,505 \$300 D-Rentals-Subsrfc 236 \$0 \$550 \$179,525 237 D-Trucking/Forklift/Rig Mobil \$0 \$6,550 \$156,305 244 D-Envmntl/Clsd Loop



Date: 11/23/2016

Lat: 32.643951 Long: -103.811116

Report #: 24.0 DSS: 21.13

Well Name: ZIA AGI #2D <typ1>, <d TD/MD, 14,750 Proposed: <typ1>, <de

Contractor: SCANDRILL

Asset Group: DELAWARE BASIN County: LEA

Prospect: Spud Date: 11/2/2016 03:00

Rig Release Date:

Job AFE Amount (Cost)

009612

Target Formation: DEVONIAN AFE Number

TD/TVD, 14,750 TD/VS, 0

#/Crew: FREEDOM Area: AGI State: NM

End Depth (ftKB): 11,331.0 End Depth (TVD) (ftKB): 11,328.8 24 Hr Progress (ft): 189,00

Drilling Hours (hr): 8.00 Total AFE Amount (Cost)

Permit #: Ground Elevation (ft): 3,547.00 Original KB Elevation (ft): 3,572.00

KB-Ground Distance (ft): 25.00

Rig Phone #: (432) 853-9909

Field Name: AGI

API/UWI: 30-025-42207

Cum Field Est To Date (Cost) \$2,007,185

Daily Activity from 11/22/2016 - 11/23/2016

Operations at Report Time DRLG 8 3/4" VERTICAL W/ SHC @ 11,331' @ 35 FPH.

Past 24 Hours Operation Summary

DRLG 8 3/4" VERT W/ SHC F/ 11142' - 11231', CIRC SWEEP, SLUG PIPE & TOH DUE TO LOW ROP, CHANGE BIT, MUD MTR & REAMERS, SCRIBE AND TEST, TIH, WASH TO BOTTOM F/ 11,019' TO 11,231' W/ NO ISSUES. DRILL 8 3/4" VERT F/ 11,231' - 11,331'.

Operations Next Report Period

DRILL 8 3/4" VERTICAL W/ SHC.

CONTRACT DRLG FRMN, TODD HINTON, ; CONTRACT DRLG FRMN, RONNIE DUNNAVANT, Incident Reported Accident Reported No No

Daily Field Est Total (Cost) \$63,511

ime L	og				Com	NPT
Start Time	End Time	Dur (hr)	End Depth (ftKB)	Sub-Activity	25 FPH.	No
	09:30	3.50		DRLG W/SHC	@ 11,231', PUMP HI VIS SWEEP AND CIRC OUT, SLUG PIPE FOR TOH.	No
0:30	10:30	1.00		PUMP SWEEP	TO THE COLUMN POP	No
):30	16:30	6.00		TOH BIT	THE PART OF AND DITMENT SCRIBE AND TEST.	N
6:30	20:00	3.50		PU/LD BHA	LD BIT, MTR AND REAMERS AND FO NEW, SGIVE THE STATE OF THE STAGE AND STAGE A	N
0:00	01:00	5.00	11,231	TIH BIT		
					REV TRIUMPH MTR AND DATE. REAMERS, FILLING EVERY 30 STANDS TO 11,019'. REAMERS, FILLING EVERY 30 STANDS TO 11,019'.	N
1:00	01:30	0.50	11,231	W/R	WASH TO BOTTOM F/ 11,019 - 11,231' NO FILL NO ISSUES. DRLG 8 3/4" VERTICAL W/ SHC AND MWD SURVEYS F/ 11,231' - 11,331', 100' @ 22.2	N
1:30	06:00	4.50	11,331	DRLG W/SHC	FPH.	

Bits & E		Istalia	Model S	SN	Depth In (ft Depth			II 000 0 0		
Bit Run BHA#	Size (in) 8 3/4		TD507FX t on Bit (1000lbf)	7161719 Max We	11,231.0 11,3 eight on Bit (1000lbf)	31.0 1.00 Min RPM (rpm) 144	4.50	Max RPM (rpm)	Min Stand Pipe Pressure (p 1,980.0	osi) Max Stand Pipe Pressure (ps 1,980.0
0		25		25		144	VALLED OF Strip	ng in Air (1000lbf)		

9 9	25	25	Weight of String in Air (1000lbf)		
String Length (ft) 11,331.17			279		
	Components		OD (in)	Len (ft)	Cum Len (ft)
Jts	Johnson	Item Des	5	10,608.05	11,331.17
	Drill Pipe		6 1/4	2.13	723.12
1	I XO Sub		6 1/2	146.33	720.99
5	DRILL COLLAR		6 1/2	31.36	574.66
1	1 HYD DRLG JARS		6 1/2	436.86	543.30
15	5 Drill Collar		6 5/8	6.67	106.44
	THE TOUTED DEALARD			0.00	99.7

Jts	Item bes	5	10,000.00	
	Drill Pipe	6 1/4	2.13	723.
1	XO Sub	6 1/2	146.33	720.
5	DRILL COLLAR	6 1/2	31.36	574.
	HYD DRLG JARS	6 1/2	436.86	543
	Drill Collar	6 5/8	6.67	106
1	3 PT ROLLER REAMER	6 1/2	3.26	99
1	XO Sub	6 1/2	29.60	96
1	NMDC	6 1/2	27.98	66
1	NMDC	6 1/2	2.65	38
	Orientation Sub	6 5/8	6.73	36
1	3 PT ROLLER REAMER	6 3/4	28.55	29
1	Mud Motor	00/1		
			Tri	Doto (anm)

1 Mud	Motor						
Drilling Parameter	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth Drilled (ft)		Cum Drilling Time (hr) 4.50	Interval ROP (ft/hr) 22.2	Flow Rate (gpm) 457
Original Hole	11,231.0	11,331.0	100.00	4.50	SO Str Wt (1000lbf)	Drilling Torque	Off Bottom Torque 5,000.0
Weight on Bit (1000lbf)	RPM (rpm)	Stand Pipe Pressure (psi) 1,980.0) Drill Str Wt (1000lbf) 310	PU Str Wt (1000lbf) 330	280	13,000.0	

ydraulic Calculations	- Annual Control of the Control of t			Percent of Pressure Drop at Bit (%)		
t Hydraulic Power (hp)	Bit Hydraulic Power Per Hole Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi) 220.0	11		
8.6 ax Casing AV (ft/min)	Max Open Hole AV (ft/min)	Min Casing AV (ft/min)	Min Open Hole AV (ft/min) 17.2	ECD End (lb/gal) 9.38		
11.5	17.8	211.5	17.2	19.50		

Mud Properties					Toy (Cale (aD)	YP Calc (lbf/100ft²)
Time 07:00	Type Salt Base	Depth (ftKB) 11.142	Density (lb/gal) 9.3	Funnel Viscosity (s/qt) 38	PV Calc (cP) 8	6
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	pH 10.0	Solids (%) 1.1	Lime (lb/bbl)
Chlorides (mg/L)	WPS (mg/L)	Calcium (mg/L)	Electric Stab (V)	Pm (mL/mL)	Pf (mL/mL) 0.20	Percent Oil (%) 0.0
90,000 Oil Water Ratio 0/100	Flow Line Temperature (°F)	Vis 6rpm	Low Gravity Solids (%) 7.2	Magnesium (mg/L) 6.000	HTHP Filtrate (mL/30min)	HTHP Filter Cake (1/32")



Date: 11/23/2016 Report #: 24.0

DSS: 21.13

Lat: 32.643951 Long: -103.811116

Well Name: ZIA AGI #2D

ud Additive	Amounts						Consumed		On Loc		Ret	urned	
Des	S		Units		Rec		Consumed	29.0		253.0			
ILDCAT 601	TZ	GAL						20.0					
ump # 1, Tr	iplex				1- 15 1		Make			Model			
mp Number		Start	Date 22/2016 06	.00	End Date 11/23/2016 06:0	0	Bom	со		F-1600			
		11/2	22/2010 00	.00		Liner Size	(in)						
tion Type riplex						5 1/2	Det.	etric Efficie	nev (%)	Flow Rate (gpm)			
ressure (psi)			es (spm)		Stroke Length (in) 12.00		95	ietric Enicie	icy (70)	229			
,980.0		65			12.00								
Pump # 2, Ti	riplex	lova	Date		End Date		Make			Model F-1600			
ump Number		11/2	22/2016 06	3:00	11/23/2016 06:0	11/23/2016 06:00 Bomco [1-1000							
ction Type						Liner Size	e (in)						
riplex					Stroke Length (in)	3 1/2	Volun	netric Efficie	ency (%)	Flow Rate (gpm)		
Pressure (psi)		Strok 65	kes (spm)		12.00 95					229			
,980.0 Survey Data		100							10.40	EW (ft)		DLS (°/100ft)	
MD (ftKB		Incl (°)		Azm (°)	TVD (ftKB)	-	VS (ft)		VS (ft) 49.79	64.	48	0.78	
	151.00		0.90	23.10	11,148.84		81.47		51.10	65		0.44	
	243.00		1.10	43.50	11,240.83		82.97		52.32	66		0.00	
11,331.00 1.10		43.50	11,328.81		84.64	04.04		02.02					
Casing Strings						Lohas	Joint Volume (lb/ft)	1	Grade	Set Depth (ftKB)		FIT (psi)	
Csg Des				OD (in)	Snoe	118.52	A53		12	0.0			
Conductor						20		J-55	- Parket - 1	82	26.0		
Surface					13 3	100		J-55		2,55	5.5		
Intermediate					9 5/8			N-80		4,69	06.0	2,811.	
Intermediate									- Aller Alle				
BOPs				Nominal II) (in)				Last BOP Test Date				
Pressure Rating 10,000.0	(psi)			13 5/8	2 (11)				11/14/2016				
Formation									Prog Top N	ID (fiKB)			
Formation	A	F	Formation Nar	ne		-		-	Plug Top W	ID (IIIID)		11,120.0	
STRAWN		The state of the s											
Fluids, Disp	osal and	Water					Consumed		Cum Or	Loc		Returned	
Supply	y Item Des		Unit Label		Received	+		3.0		-42.0			
CUTTINGS		BIN			12,500.	0		1,551.0		16,128.0			
RIG DIESEL		gal us			12,554								
Costs Sum	mary				-	-	T	F-1 (Coot)	Cum	Fld Est (Cost)	A	FE Amt (Cost)	
Billing Category				Cost Des			Daily Field	Est (Cost) \$16,		\$379,000			
209		ork Contract					-		900	\$118,600			
210	D-Directi	onal Drlg Ser	vices						415	\$65,513			
211	D-Fuel &	Power				(III)	-	and the same of the same of	000	\$59,000			
213	D-Bits			1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1			-	\$12.		\$40,062			
214	D-Mud 8	Chemicals			and the second				800	\$43,200	and the same of th		
226	D-Comp	any Sprvsn							200	\$76,800			
227		act Sprvsn			State of the state				465	\$140,370			
235		ls-Surface					+		200	\$47,705			
236	D-Renta	ils-Subsrfc					-		,050	\$162,355		4	
244	D-Envm	intl/Clsd Loop)										



Date: 11/24/2016

Report #: 25.0 DSS: 22.13

Well Name: ZIA AGI #2D

TD/TVD, 14,750 TD/VS, 0 <typ1>, <d TD/MD, 14,750 Proposed: <typ1>, <de

Lat: 32.643951 Long: -103.811116 Rig Phone #: (432) 853-9909

Contractor: SCANDRILL Asset Group: DELAWARE BASIN #/Crew: FREEDOM Field Name: AGI

County: LEA Prospect:

Area: AGI API/UWI: 30-025-42207 State: NM Permit #: End Depth (ftKB): 11,970.0 End Depth (TVD) (ftKB): 11,967.7

Spud Date: 11/2/2016 03:00 Rig Release Date:

Ground Elevation (ft): 3,547.00 Original KB Elevation (ft): 3,572.00 24 Hr Progress (ft): 639.00 KB-Ground Distance (ft): 25.00 Drilling Hours (hr): 23.50

Target Formation: DEVONIAN

Total AFE Amount (Cost)

AFE Numb 009612 Job AFE Amount (Cost)

Cum Field Est To Date (Cost) \$2,054,100

Daily Activity from 11/23/2016 - 11/24/2016

Operations at Report Time DRLG 8 3/4" VERTICAL @ 11,970' @ 37 FPH.

Past 24 Hours Operation Summary

DRLG 8 3/4" VERTICAL W/ SHC F/ 11,331' - 11,970', 639' @ 27.1 FPH, SERVICE RIG AND TOP DRIVE.

Operations Next Report Period DRILL 8 3/4" VERTICAL

CONTRACT DRLG FRMN, TODD HINTON, ; CONTRACT DRLG FRMN, RONNIE DUNNAVANT, No No

Daily Field Est Total (Cost) \$46,915

Time Log

Time L			- 15 3			NPT?
Start Time	End Time	Dur (hr)	End Depth (ftKB)	Sub-Activity	DRLG 8 3/4" VERTICAL W/ SHC AND MWD SURVEYS F/ 11,331' - 11,580', 249' @ 26.2	No
06:00	15:30	9.50	11,580	DRLG W/SHC	FPH.	
					@ 11,580' SERVICE RIG AND TOP DRIVE.	No
15:30	16:00	0.50		LUBRICATE RIG	DRLG 8 3/4" VERTICAL W/ SHC AND MWD SURVEYS F/ 11,580' -	No
16:00	06:00	14.00	11.970	DRLG W/SHC	DRLG 8 3/4" VERTICAL W/ SHC AND MIVE SCREET TO THE SECOND	

Bits & E	BHAs					Table 1	1,	Joh Drill Wr	Joh Circ Hr	Ava ROP (f.	Rot Time (hr)	Slide Time	Nozzles (1/32")
Bit Run	Size (in)	Make	Model	SN 7161710	Depth In (ft	11 970	out Length (ft) 0.0 1.00		dub Giro Fir.	126.4	128.00		13/13/13/13/13/13/13
9 BHA #	8 3/4	the desired the day.	nt on Bit (1000lbf		eight on Bit (10	00lbf)	Min RPM (rpm)	M	ax RPM (rpm)		Min Stand Pip 1.980.0	e Pressure (psi) Max Stand Pipe Pressure (psi) 2,050.0
9		25		25			139	/eight of String in			11,000.0	- A	

String Length (ft) 11,985.17

291

Drill String C	omponents
Jts	
004	Daill Dino

ill String C	omponents	OD (in)	Len (ft)	Cum Len (ft)
Jts	Item Des	5	11,262.05	11,985.17
361	Drill Pipe	6 1/4	2.13	723.12
1	XO Sub	6 1/2	146.33	720.99
5	DRILL COLLAR	6 1/2	31.36	574.66
1	HYD DRLG JARS	6 1/2	436.86	543.30
15	Drill Collar	6 5/8	6.67	106.4
1	3 PT ROLLER REAMER	6 1/2	3.26	99.7
1	XO Sub	6 1/2	29.60	96.5
1	NMDC	6 1/2	27.98	66.9
1	NMDC	6 1/2	2.65	38.9
1	Orientation Sub	6 5/8	6.73	36.2
	3 PT ROLLER REAMER	6 3/4	28.55	29.5
1	Mud Motor	6 3/4	20.00	

Drilling Parameters

Drilling Paramete	rs		T - 2 11 50 711 - 3 (8)	Drilling Time (hr)	Cum Drilling Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth Drilled (ft)	23.50	28.00	27.2	457
Original Hole	11,331.0	11,970.0	739.00		SO Str Wt (1000lbf)	Drilling Torque	Off Bottom Torque
Weight on Bit (1000lbf)	RPM (rpm)	Stand Pipe Pressure (psi)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	300	13.000.0	5,000.0
25	70	2,050.0	320	340	000		

Hydraulic Calculations

Hydraulic Calculations Bit Hydraulic Power (hp)	Bit Hydraulic Power Per Hole Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Percent of Pressure Drop at Bit (%)
59.3 Max Casing AV (ft/min)	IVIAX OPER FIDIE AV (IDITILITY	Min Casing AV (ft/min) 211.5	Min Open Hole AV (ft/min) 17.2	ECD End (lb/gal) 9.63
211.5 Error	17.8	211.0		

Mud Properties			10 11 11-10	Funnel Viscosity (s/qt)	PV Gaic (cP)	YP Calc (lbf/100ft²)	
Time	Type Salt Base	Depth (ftKB) 11,463	Density (lb/gal) 9.4	38	8	7	
11:00 Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	рН 10.0	Solids (%)	Lime (lb/bbl)	
5	3	18.0	Electric Stab (V)	Pm (mL/mL)	Pf (mL/mL)	Percent Oil (%)	
Chlorides (mg/L)	WPS (mg/L)	Calcium (mg/L)	Liedale Glas (*)		0.15	0.0	
85,000 Oil Water Ratio	Flow Line Temperature (°F)	Vis 6rpm	Low Gravity Solids (%)	Magnesium (mg/L) 486.000	HTHP Filtrate (mL/30min)	HTHP Filter Cake (1/32")	
0/100	108.0	Min Connection	n Gas Max Conn		Trip Gas	Max H2S (ppm)	

Max Background Gas 0.00 Min Background Gas 53.00 53 00 63.00 39.00 **Mud Additive Amounts**

S			Onloc	Returned
Units	Rec			
TON		11.0		
		5.0	68.0	
		4.0	27.0	
5 GAL			122.0	
		Units Rec TON 50# SACK	Units Rec Consumed	Units Rec Consumed Critical 73.0 TON 11.0 73.0 68.0 50# SACK 5.0 68.0 5 GAL 4.0 27.0



Date: 11/24/2016

Report #: 25.0

11,549.00

DSS: 22.13 Lat: 32.643951 Long: -103.811116

Well Name: ZIA AGI #2D

Formation Name

Proposed:

y Data				VC (#)	NS (ft)	EW (ft)	DLS (°/100ft)
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)		69.15	0.1
11,524.00	1.20	45.30	11,521.77	88.51	55.28		
	0.70	63.70	11,614.76	90.03	56.22	70.35	0.6
11,617.00	0.70			04.05	56.94	72.09	0.9
11,711.00	1.60	68.80	11,708.74	91.85			1.4
11,804.00	0.40	115,50	11,801.72	93.25	57.27	73.60	
		72.60	11,895.72	94.25	57.40	74.75	0.9
11,898.00	1.10				57.82	76.07	0.0
11,970.00	1.10	72.60	11,967.70	95.55	37.02	10.01	

Casing Strings	00.50	Shoe Joint Volume (lb/ft)	Grade	Set Depth (ftKB)	FIT (psi)
Csg Des	- (···)			120.0	
Conductor	30	118.52	A53		
Conductor	20	106.50	1.55	826.0	
Surface	20				
The second secon	13 3/8	61.00	J-55	2,555.5	
Intermediate	0 50	40.00	N-80	4.696.0	2,811.6
Intermediate	9 5/8	40.00	14-00	1,000.0	

	Last BOR Test Date	
Nominal ID (in) 13 5/8	11/14/2016	
	Prog Top MD (#KR)	
	Nominal ID (in) 13 5/8	13 5/8 11/14/2016 Prog Top MD (flKB)

ATOKA			the state of the s		(1),		
Fluids, Disposal and V	Vater			Cum On Loc	Returned		
Supply Item Des Unit Label		Received	Consumed	-43.0			
CUTTINGS BIN	BIN		1.0		and the same of th		
			878.0	15,250.0			
RIG DIESEL	gal us		070.0				

Costs Sun	nmary			
Billing	Cost Des	Daily Field Est (Cost)	Cum Fld Est (Cost)	AFE Amt (Cost)
Category		\$16,000	\$395,000	\$
209	D-Daywork Contract	\$6,400	\$125,000	\$(
210	D-Directional Drlg Services	\$1,935	\$67,448	\$
211	D-Fuel & Power		\$50,452	\$
214	D-Mud & Chemicals	\$10,390		\$
226	D-Company Sprvsn	\$1,800	\$45,000	\$
227	D-Contract Sprvsn	\$3,200	\$80,000	
		\$2,465	\$142,835	\$
235	D-Rentals-Surface	\$300	\$48,005	\$
236	D-Rentals-Subsrfc	\$575	\$180,100	\$
237	D-Trucking/Forklift/Rig Mobil	\$3,850	\$166,205	\$
244	D-Enymntl/Clsd Loop	\$5,000	Ψ100,200	The second second second



Date: 11/24/2016

Report #: 25.0 DSS: 22.13

Well Name: ZIA AGI #2D

TD/TVD, 14,750 TD/VS, 0 <typ1>, <d TD/MD, 14,750 Proposed: <typ1>, <de

Lat: 32.643951 Long: -103.811116 Rig Phone #: (432) 853-9909

Contractor: SCANDRILL Asset Group: DELAWARE BASIN #/Crew: FREEDOM Field Name: AGI

County: LEA Prospect:

Area: AGI API/UWI: 30-025-42207 State: NM Permit #: End Depth (ftKB): 11,970.0 End Depth (TVD) (ftKB): 11,967.7

Spud Date: 11/2/2016 03:00 Rig Release Date:

Ground Elevation (ft): 3,547.00 Original KB Elevation (ft): 3,572.00 24 Hr Progress (ft): 639.00 KB-Ground Distance (ft): 25.00 Drilling Hours (hr): 23.50

Target Formation: DEVONIAN

Total AFE Amount (Cost)

AFE Numb 009612 Job AFE Amount (Cost)

Cum Field Est To Date (Cost) \$2,054,100

Daily Activity from 11/23/2016 - 11/24/2016

Operations at Report Time DRLG 8 3/4" VERTICAL @ 11,970' @ 37 FPH.

Past 24 Hours Operation Summary

DRLG 8 3/4" VERTICAL W/ SHC F/ 11,331' - 11,970', 639' @ 27.1 FPH, SERVICE RIG AND TOP DRIVE.

Operations Next Report Period DRILL 8 3/4" VERTICAL

CONTRACT DRLG FRMN, TODD HINTON, ; CONTRACT DRLG FRMN, RONNIE DUNNAVANT, No No

Daily Field Est Total (Cost) \$46,915

Time Log

Time L			- 15 3			NPT?
Start Time	End Time	Dur (hr)	End Depth (ftKB)	Sub-Activity	DRLG 8 3/4" VERTICAL W/ SHC AND MWD SURVEYS F/ 11,331' - 11,580', 249' @ 26.2	No
06:00	15:30	9.50	11,580	DRLG W/SHC	FPH.	
					@ 11,580' SERVICE RIG AND TOP DRIVE.	No
15:30	16:00	0.50		LUBRICATE RIG	DRLG 8 3/4" VERTICAL W/ SHC AND MWD SURVEYS F/ 11,580' -	No
16:00	06:00	14.00	11.970	DRLG W/SHC	DRLG 8 3/4" VERTICAL W/ SHC AND MIVE SCREET TO THE SECOND	

Bits & E	BHAs					Table 1	1,	Joh Drill Wr	Joh Circ Hr	Ava ROP (f.	Rot Time (hr)	Slide Time	Nozzles (1/32")
Bit Run	Size (in)	Make	Model	SN 7161710	Depth In (ft	11 970	out Length (ft) 0.0 1.00		dub Giro Fir.	126.4	128.00		13/13/13/13/13/13/13
9 BHA #	8 3/4	the desired the day.	nt on Bit (1000lbf		eight on Bit (10	00lbf)	Min RPM (rpm)	M	ax RPM (rpm)		Min Stand Pip 1.980.0	e Pressure (psi) Max Stand Pipe Pressure (psi) 2,050.0
9		25		25			139	/eight of String in			11,000.0	- A	

String Length (ft) 11,985.17

291

Drill String C	omponents
Jts	
004	Daill Dino

ill String C	omponents	OD (in)	Len (ft)	Cum Len (ft)
Jts	Item Des	5	11,262.05	11,985.17
361	Drill Pipe	6 1/4	2.13	723.12
1	XO Sub	6 1/2	146.33	720.99
5	DRILL COLLAR	6 1/2	31.36	574.66
1	HYD DRLG JARS	6 1/2	436.86	543.30
15	Drill Collar	6 5/8	6.67	106.4
1	3 PT ROLLER REAMER	6 1/2	3.26	99.7
1	XO Sub	6 1/2	29.60	96.5
1	NMDC	6 1/2	27.98	66.9
1	NMDC	6 1/2	2.65	38.9
1	Orientation Sub	6 5/8	6.73	36.2
	3 PT ROLLER REAMER	6 3/4	28.55	29.5
1	Mud Motor	6 3/4	20.00	

Drilling Parameters

Drilling Paramete	rs		T - 2 11 50 711 - 3 (8)	Drilling Time (hr)	Cum Drilling Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth Drilled (ft)	23.50	28.00	27.2	457
Original Hole	11,331.0	11,970.0	739.00		SO Str Wt (1000lbf)	Drilling Torque	Off Bottom Torque
	RPM (rpm)	Stand Pipe Pressure (psi)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	300	13.000.0	5,000.0
Weight on Bit (1000lbf)	70 2,050.0	320 340	340	000			

Hydraulic Calculations

Hydraulic Calculations Bit Hydraulic Power (hp)	Bit Hydraulic Power Per Hole Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Percent of Pressure Drop at Bit (%)
59.3 Max Casing AV (ft/min)	IVIAX OPER FIDIE AV (IDITILITY	Min Casing AV (ft/min) 211.5	Min Open Hole AV (ft/min) 17.2	ECD End (lb/gal) 9.63
211.5 Error	17.8	211.0		

Mud Properties			10 11 11-10	Funnel Viscosity (s/qt)	PV Gaic (cP)	YP Calc (lbf/100ft²)
Time	Type Salt Base	Depth (ftKB) 11,463	Density (lb/gal) 9.4	38	8	7
11:00 Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Filtrate (mL/30min)	Filter Cake (1/32")	рН 10.0	Solids (%)	Lime (lb/bbl)
5	3	18.0	Electric Stab (V)	Pm (mL/mL)	Pf (mL/mL)	Percent Oil (%)
Chlorides (mg/L)	WPS (mg/L)	Calcium (mg/L)	Liedale Glas (*)		0.15	0.0
85,000 Oil Water Ratio	Flow Line Temperature (°F)	Vis 6rpm	Low Gravity Solids (%)	Magnesium (mg/L) 486.000	HTHP Filtrate (mL/30min)	HTHP Filter Cake (1/32")
0/100	108.0	Min Connection	n Gas Max Conn		Trip Gas	Max H2S (ppm)

Max Background Gas 0.00 Min Background Gas 53.00 53 00 63.00 39.00 **Mud Additive Amounts**

S			Onloc	Returned
Units	Rec			
TON		11.0		
		5.0	68.0	
		4.0	27.0	
5 GAL			122.0	
		Units Rec TON 50# SACK	Units Rec Consumed	Units Rec Consumed Critical 73.0 TON 11.0 73.0 68.0 50# SACK 5.0 68.0 5 GAL 4.0 27.0



Date: 11/24/2016

Report #: 25.0

11,549.00

DSS: 22.13 Lat: 32.643951 Long: -103.811116

Well Name: ZIA AGI #2D

Formation Name

Proposed:

y Data				VC (#)	NS (ft)	EW (ft)	DLS (°/100ft)
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)		69.15	0.1
11,524.00	1.20	45.30	11,521.77	88.51	55.28		
	0.70	63.70	11,614.76	90.03	56.22	70.35	0.6
11,617.00	0.70			04.05	56.94	72.09	0.9
11,711.00	1.60	68.80	11,708.74	91.85			1.4
11,804.00	0.40	115,50	11,801.72	93.25	57.27	73.60	
		72.60	11,895.72	94.25	57.40	74.75	0.9
11,898.00	1.10				57.82	76.07	0.0
11,970.00	1.10	72.60	11,967.70	95.55	37.02	10.01	

Casing Strings	00.50	Shoe Joint Volume (lb/ft)	Grade	Set Depth (ftKB)	FIT (psi)
Csg Des	- (···)			120.0	
Conductor	30	118.52	A53		
Conductor	20	106.50	1.55	826.0	
Surface	20				
The second secon	13 3/8	61.00	J-55	2,555.5	
Intermediate	0 50	40.00	N-80	4.696.0	2,811.6
Intermediate	9 5/8	40.00	14-00	1,000.0	

	Last BOR Test Date		
Nominal ID (in) 13 5/8	11/14/2016		
	Prog Top MD (#KR)		
	Nominal ID (in) 13 5/8	13 5/8 11/14/2016 Prog Top MD (flKB)	

ATOKA			the state of the s		(1),
Fluids, Disposal and V	Vater			Cum On Loc	Returned
	Supply Item Des Unit Label	Received	Consumed	-43.0	
CUTTINGS BIN	BIN		1.0		and the same of th
			878.0	15,250.0	
RIG DIESEL	gal us		070.0		

Costs Sun	nmary			
Billing	Cost Des	Daily Field Est (Cost)	Cum Fld Est (Cost)	AFE Amt (Cost)
Category		\$16,000	\$395,000	\$
209	D-Daywork Contract	\$6,400	\$125,000	\$(
210	D-Directional Drlg Services	\$1,935	\$67,448	\$
211	D-Fuel & Power		\$50,452	\$
214	D-Mud & Chemicals	\$10,390		\$
226	D-Company Sprvsn	\$1,800	\$45,000	\$
227	D-Contract Sprvsn	\$3,200	\$80,000	
		\$2,465	\$142,835	\$
235	D-Rentals-Surface	\$300	\$48,005	\$
236	D-Rentals-Subsrfc	\$575	\$180,100	\$
237	D-Trucking/Forklift/Rig Mobil	\$3,850	\$166,205	\$
244	D-Enymntl/Clsd Loop	\$5,000	Ψ100,200	The second second second



Date: 11/25/2016

Report #: 26.0

DSS: 23.13

Well Name: ZIA AGI #2D Proposed: <typ1>, <de <typ1>, <d TD/MD, 14,750

Lat: 32.643951 Long: -103.811116

Contractor: SCANDRILL Asset Group: DELAWARE BASIN

#/Crew: FREEDOM

TD/TVD, 14,750 TD/VS, 0

Rig Phone #: (432) 853-9909

County: LEA

Area: AGI State: NM

\$45,756

Field Name: AGI API/UWI: 30-025-42207

Cum Field Est To Date (Cost)

Permit #:

\$2,099,856

Prospect: Spud Date: 11/2/2016 03:00 Rig Release Date:

End Depth (ftKB): 12,382.0 End Depth (TVD) (ftKB): 12,379.7

Ground Elevation (ft): 3,547.00 Original KB Elevation (ft): 3,572.00

Target Formation: DEVONIAN AFE Numb 009612

24 Hr Progress (ft): 412.00 Drilling Hours (hr): 17.50

KB-Ground Distance (ft): 25.00

Total AFE Amount (Cost)

Job AFE Amount (Cost) Daily Field Est Total (Cost)

Daily Activity from 11/24/2016 - 11/25/2016

@ 12,382' TOH FOR LOW ROP.

Past 24 Hours Operation Summary
DRILL 8 3/4" VERTICAL W/ SHC F/ 11,970' - 12,382', 412' @ 28.4 FPH, SERVICE RIG, PUMP SWEEP AND CIRC, TOH DUE TO LOW ROP.

Operations Next Report Period

CHANGE BIT, MTR SCRIBE AND TEST, TIH, DRILL 8 3/4" VERTICAL W/ SHC.

Incident Reported No

Accident Reported No Daily Contacts CONTRACT DRLG FRMN, TODD HINTON, ; CONTRACT DRLG FRMN, RONNIE DUNNAVANT,

Time Log

Start Time	End Time	Dur (hr)	End Depth (ftKB)	Sub-Activity	Com	NPT?
06:00	13:30	7.50	12,141	DRLG W/SHC	DRLG 8 3/4" VERTICAL W/ SHC AND MWD SURVEYS F/ 11,970' - 12,141', 171' @ 22.8 FPH.	No
13:30	14:00	0.50	12,141	LUBRICATE RIG	@ 12,141' SERVICE RIG AND TOP DRIVE.	No
14:00	00:00	10.00	12,382	DRLG W/SHC	DRLG 8 3/4" VERTICAL W/ SHC AND MWD SURVEYS F/ 12,141' - 12,382', 241' @ 24.1 FPH.	No
00:00	02:00	2.00	12,382	C&C MUD	@ 12,382' PUMP HI VIS SWEEP, CIRC AROUND , CHECK FOR FLOW, PUMP SLUG FOR TOH FOR LOW ROP.	No
02:00	06:00	4.00	12,382	TOH BIT CHANGE	@ 12,382' TOH DUE TO LOW ROP.	No

Bits & BHAs

Bit Run	Size (in)	Make	Model				t Length (ft)	Job Drill Hr	Job Circ Hr	Avg ROP (f	Rot Time (hr)	Slide Time	Nozzles (1/32")
9	8 3/4	BAKER HUG	TD507FX	7161719	11,231.0	12,382	0 1.00	45.50	2.00	25.3	45.50		13/13/13/13/13/13
BHA#		Min Weigh	t on Bit (1000lb	of) Max We	eight on Bit (10	OOIbf) N	lin RPM (rpm)		Max RPM (rpm)		Min Stand Pip	e Pressure (psi	Max Stand Pipe Pressure (psi)
9		25		25		1	39		144		1,980.0		2,250.0

String Length (12,391.01

Weight of String in Air (1000lbf) 299

Drill String Components

Jts	Item Des	OD (in)	Len (ft)	Cum Len (ft)
374	Drill Pipe	5	11,667.89	12,391.01
1	XO Sub	6 1/4	2.13	723.12
5	DRILL COLLAR	6 1/2	146.33	720.99
1	HYD DRLG JARS	6 1/2	31.36	574.66
15	Drill Collar	6 1/2	436.86	543.30
1	3 PT ROLLER REAMER	6 5/8	6.67	106.4
1	XO Sub	6 1/2	3.26	99.7
1	NMDC	6 1/2	29.60	96.5
1	NMDC	6 1/2	27.98	66.9
1	Orientation Sub	6 1/2	2.65	38.93
1	3 PT ROLLER REAMER	6 5/8	6.73	36.2
1	Mud Motor	6 3/4	28.55	29.5

Drilling Parameters

Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth Drilled (ft)	Drilling Time (hr)	Cum Drilling Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
Original Hole	11,970.0	12,382.0	1,151.00	17.50	45.50	23.5	493
Weight on Bit (1000lbf)	RPM (rpm) 70	Stand Pipe Pressure (psi) 2,250.0	Drill Str Wt (1000lbf) 320	PU Str Wt (1000lbf) 350	SO Str Wt (1000lbf) 300	Drilling Torque 15,000.0	Off Bottom Torque 6,000.0

Hydraulic Calculations

TON

Bit Hydraulic Power (hp) 74.4	Bit Hydraulic Power Per Hole Area (hp/in²) 1.2	Bit Jet Velocity (ft/s) 174.3	Bit Pressure Drop (psi) 258.7	Percent of Pressure Drop at Bit (%) 11
Max Casing AV (ff/min)	Max Open Hole AV (ft/min)	Min Casing AV (ft/min)	Min Open Hole AV (ft/min)	ECD End (lb/gal)
	19.2	228.1	18.6	9.45

Error

Mud Properties		TD#- (#KD)	Density (lb/gal)		Funnel Viscosity (s/qt) PV Calc (cP)	YP Calc (lbf/100ft²)
Time 08:00	Type Salt Base	Depth (ftKB) 12,030	9.4		38	8	6
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Filtrate (mL/30min) 18.0	Filter Cake (1/32	2")	рН 10.0	Solids (%) 1.8	Lime (lb/bbl)
Chlorides (mg/L) 80,000	WPS (mg/L)	Calcium (mg/L)	Electric Stab (V)		Pm (mL/mL)	Pf (mL/mL) 0.15	Percent Oil (%) 0.0
Oil Water Ratio	Flow Line Temperature (°F) 112.0	Vis 6rpm	Low Gravity Soli 7.2	ds (%)	Magnesium (mg/L) 486.000	HTHP Filtrate (mL/30min) HTHP Filter Cake (1/32")
Min Background Gas	Max Background Gas	Min Connection	1000	Max Connecti	711.007.	Max Trip Gas 0.00	Max H2S (ppm)

11.0

852.00 **Mud Additive Amounts** Returned On Loc Rec Consumed Units Des 62.0

CONCHO

Well Name: ZIA AGI #2D

Lat: 32.643951 Long: -103.811116

Proposed: Model Make F-1600 End Date 11/25/2016 06:00 Pump # 2, Triplex Bomco Start Date Pump Number 11/24/2016 06:00 Liner Size (in) Flow Rate (gpm) 246 5 1/2 Volumetric Efficiency (%) Action Type Stroke Length (in) Triplex 95 Strokes (spm) 70 12.00 DLS (°/100ft) Pressure (psi) EW (ft) 0.61 NS (ft) 2,250.0 76.24 VS (ft) TVD (ftKB) 57.53 Survey Data 1.01 95.50 Azm (°) 11,988.70 76.74 Incl (°) 57.31 102.20 0.63 95.77 0.80 12,082.70 76.93 11,991.00 57.26 237.70 95.90 0.77 0.20 78.10 12,176.70 12,085.00 57.60 82.40 0.00 97.03 0.40 80.09 12,179.00 12,269.69 71.00 58.28 99.05 1.10 12,272.00 12,379.67 71.00 FIT (psi) 1.10 Set Depth (ftKB) 12,382.00 Grade Shoe Joint Volume (lb/ft) 120.0 OD (in) **Casing Strings** 118.52 A53 826.0 30 Csg Des 106.50 J-55 20 2,555.5 Conductor 61.00 J-55 2,811.6 13 3/8 4,696.0 Surface 40.00 N-80 9 5/8 Intermediate Last BOP Test Date Intermediate 11/14/2016 BOPs Nominal ID (in) 13 5/8 Pressure Rating (psi) Prog Top MD (ftKB) 10,000.0 12,075.00 Formation Formation Name Returned MORROW Cum On Loc Consumed -44.0 Fluids, Disposal and Water Received 1.0 Unit Label Supply Item Des 12,268.0 2,982.0 BIN **CUTTINGS BIN** gal us RIG DIESEL AFE Amt (Cost) Cum Fld Est (Cost) **Costs Summary** \$0 Daily Field Est (Cost) \$411,000 Billing Cost Des \$16,000 \$0 \$131,400 Category \$6,400 D-Daywork Contract \$0 209 \$74,008 D-Directional Drlg Services \$6,560 \$0 210 \$55,633 \$5,181 D-Fuel & Power \$0 211 \$46,800 D-Mud & Chemicals \$1,800 \$0 214 \$83,200 D-Company Sprvsn \$3,200 \$0 226 \$145,300 D-Contract Sprvsn \$2,465 227 \$0 \$48,305 D-Rentals-Surface \$300 235 \$0 \$170,055 D-Rentals-Subsrfc \$3,850 236 D-Envmntl/Clsd Loop 244



0/100

Min Background Gas

Daily Drilling Report

Date: 11/26/2016

Max H2S (ppm)

Report #: 27.0

Well Name: ZIA AGI #2D DSS: 24.13 Proposed: <typ1>, <de <typ1>, <d TD/MD, 14,750 TD/TVD, 14,750 TD/VS, 0 Lat: 32.643951 Long: -103.811116 Contractor: SCANDRILL #/Crew: FREEDOM Rig Phone #: (432) 853-9909 Asset Group: DELAWARE BASIN Area: AGI Field Name: AGI County: LEA State: NM API/UWI: 30-025-42207 Prospect: End Depth (ftKB): 12,713.0 Permit #: Spud Date: 11/2/2016 03:00 End Depth (TVD) (ftKB): 12,710.6 Ground Elevation (ft): 3,547.00 Rig Release Date: 24 Hr Progress (ft): 331.00 Original KB Elevation (ft): 3,572.00 Target Formation: DEVONIAN Drilling Hours (hr): 11.50 KB-Ground Distance (ft): 25.00 Total AFE Amount (Cost) 009612 Daily Field Est Total (Cost) \$51,706 Cum Field Est To Date (Cost) Job AFE Amount (Cost) \$2,151,562 Daily Activity from 11/25/2016 - 11/26/2016 Operations at Report Time DRLG 8 3/4" VERTICAL @ 12,713' @ 30 FPH. Past 24 Hours Operation Summary @ 12,382' CONTINUED TRIP FOR LOW ROP, CHANGE BHA SCRIBE AND TEST, CUT DRLG LINE, TIH, DRILL 8 3/4" VERTICAL F/ 12,382' - 12,713'. Operations Next Report Period DRILL 8 3/4" VERTICAL Incident Reported Accident Reported No CONTRACT DRLG FRMN, TODD HINTON, ; CONTRACT DRLG FRMN, RONNIE DUNNAVANT. No Time Log Start Fnd End Depth Time NPT? Time Dur (hr) Sub-Activity Com (flKB) 06:00 2.00 TOH BIT CHANGE @ 12,382' CONTINUE TO TOH DUE TO LOW ROP No 12 382 2.00 12,382 TOH BIT CHANGE BIT, MTR, MWD, SCRIBE AND TEST. No 08:00 10:00 10:00 TIH W/ NEW BIT AND MTR, WENT IN W/ 6 3/4" FXD 1.75* 7/8 LOBE 2.9 STAGE .16 REV No 12:30 2.50 12.382 TIH BIT CHANGE DYNOMAX MTR AND BAKER TD507FX BIT TO CSG SHOE @ 4,696', FILLING EVERY 30 SLIP AND CUT 77' DRLG LINE No 13:30 12,382 CDL 12:30 1.00 13:30 4.50 CONTINUE TIH F/ 4.696' - 12.329' FILLING EVERY 30 STANDS No 18:00 12,382 TIH BIT WASH/REAM TO BOTTOM F/ 12,239' - 12,382', NO FILL NO ISSUES. No 18:00 18:30 0.50 12,382 W/R DRLG 8 3/4" VERTICAL W/ SHC AND MWD SURVEYS F/ 12,382' - 12,713', 331' @ 28.7 No 18:30 06:00 11.50 12,713 DRLG W/SHC Bits & BHAs Depth In (ft... Depth Out... 12,382.0 12,713.0 .. Job Circ Hr... Avg ROP (f. 28.8 Bit Run Size (in) Job Drill Hr. Rot Time (hr) Slide Time 13/13/13/13/13/13 11.50 10 8 3/4 TD507FX 7161207 1.00 11.50 BAKER HUG. Min RPM (rpm) Min Stand Pipe Pressure (psi) Max Stand Pipe Pressure (psi) Max Weight on Bit (1000lbf) Max RPM (rpm) BHA# Min Weight on Bit (1000lbf) 2,200.0 2.200.0 133 133 25 10 String Length (ft) Weight of String in Air (1000lbf) 12,735.61 **Drill String Components** Cum Len (ft) OD (in) Len (ft) Jts Item Des 12,012.01 12,735.61 5 Drill Pipe 6 1/4 2.13 723.60 XO Sub 1 146.33 721.47 6 1/2 DRILL COLLAR 5 31.36 575 14 6 1/2 HYD DRLG JARS 1 6 1/2 436.86 543.78 15 Drill Collar 6.5/8 6.67 106.92 3 PT ROLLER REAMER 1 3.26 100.25 6 1/2 1 XO Sub 96.99 29.60 6 1/2 1 NMDC 27.98 67.39 6 1/2 1 NMDC 2 65 39.41 6 1/2 Orientation Sub 1 36.76 6 5/8 6.73 3 PT ROLLER REAMER 1 30.03 6 3/4 29.03 1 Mud Motor **Drilling Parameters** Flow Rate (gpm) Drilling Time (hr) Cum Drilling Time (hr) nterval ROP (ft/hr) Wellbore Start Depth (ftKB) End Depth (ftKB) Cum Depth Drilled (ft) 458 11.50 28.8 331.00 11.50 Original Hole 12,382.0 12,713.0 Off Bottom Torque SO Str Wt (1000lbf) Drilling Torque PU Str Wt (1000lbf) Weight on Bit (1000lbf) RPM (rpm) Stand Pipe Pressure (psi) Drill Str Wt (1000lbf) 350 300 15,000.0 6,000.0 2,200.0 330 25 60 **Hydraulic Calculations** ercent of Pressure Drop at Bit (%) Bit Pressure Drop (psi) Bit Hydraulic Power Per Hole Area (hp/in²) Bit Jet Velocity (ft/s) Bit Hydraulic Power (hp) 223.3 161.9 59 7 1.0 ECD End (lb/gal) Min Casing AV (ft/min) Min Open Hole AV (ft/min) Max Open Hole AV (ft/min) Max Casing AV (ft/min) 9.45 211.9 211.9 Error **Mud Properties** YP Calc (lbf/100ft²) Funnel Viscosity (s/qt) PV Calc (cP) Density (lb/gal) Depth (ftKB) 38 6 9.4 Salt Base 12,382 10:30 Lime (lb/bbl) Solids (%) Filter Cake (1/32") Gel 10 min (lbf/100ft²) Filtrate (mL/30min) Gel 10 sec (lbf/100ft²) 10.0 0.04 16.0 Pf (mL/mL) Percent Oil (%) Flectric Stab (V) Pm (mL/mL) Calcium (mg/L) Chlorides (mg/L) WPS (mg/L) 0.0 0.20 70,000 HTHP Filtrate (mL/30min) HTHP Filter Cake (1/32") Magnesium (mg/L) Low Gravity Solids (%) Flow Line Temperature (°F) 486.000

7.9

Max Connection Gas

Max Trip Gas

Min Connection Gas

Max Background Gas



Proposed:

Well Name: ZIA AGI #2D

Daily Drilling Report

Date: 11/26/2016 Report #: 27.0

DSS: 24.13

Lat: 32.643951 Long: -103.811116

Pressure (psi) Volumetric Efficiency (%) Flow Rate (gpm) Strokes (spm) Stroke Length (in) 2,200.0 95 65 12.00 Pump # 2, Triplex Pump Number Start Date End Date 11/26/2016 06:00 F-1600 11/25/2016 06:00 Bomco Action Type Liner Size (in) 5 1/2 Triplex Pressure (psi) Stroke Length (in) Volumetric Efficiency (%) Flow Rate (gpm) Strokes (spm) 2,200.0 65 12.00 **Survey Data** DLS (°/100ft) MD (ftKB) Incl (°) TVD (ftKB) VS (ft) NS (ft) EW (ft) Azm (°) 12,460.00 265.50 12,457,68 98.76 58.36 79.68 1.49 0.60 78.55 12,554.00 231.70 12,551.67 97.51 57.82 0.64 1.00 78.85 2.09 12,648.00 1.20 105.60 12.645.66 97.32 57.04 0.00 105.60 12,710.65 98.18 56.68 80.16 12,713.00 1.20 **Casing Strings** Shoe Joint Volume (lb/ft) Set Depth (ftKB) FIT (psi) Csg Des OD (in) Grade Conductor 30 118.52 A53 120.0 20 106.50 J-55 826.0 Surface 13 3/8 Intermediate 61.00 J-55 2.555.5 2,811.6 40.00 N-80 4,696.0 Intermediate 9 5/8 **BOPs** Last BOP Test Date Pressure Rating (psi) Nominal ID (in) 11/14/2016 13 5/8 10,000.0 Formation Prog Top MD (ftKB) Formation Name 12,665.00 MISSISSIPPIAN Fluids, Disposal and Water Received Consumed Cum On Loc Returned Supply Item Des Unit Label RIG DIESEL gal us 1.278.0 10,990.0 **Costs Summary** Billing Cum Fld Est (Cost) Daily Field Est (Cost) AFE Amt (Cost) Category Cost Des \$0 \$16,000 \$427,000 209 D-Daywork Contract \$0 210 **D-Directional Drlg Services** \$8,900 \$140,300 \$0 D-Fuel & Power \$2,815 \$76,823 211 \$8,000 \$67,000 \$0 D-Bits 213 \$5,476 \$0 \$61,109 214 D-Mud & Chemicals \$0 \$1,800 \$48,600 226 D-Company Sprvsn \$86,400 \$0 \$3,200 227 D-Contract Sprvsn \$147,765 \$0 \$2,465 235 D-Rentals-Surface \$300 \$48,605 \$0 236 D-Rentals-Subsrfc \$172,805 \$0 \$2,750 244 D-Envmntl/Clsd Loop



0/100

1,000.00

Min Background Gas

Daily Drilling Report

Date: 11/27/2016

Report #: 28.0

DSS: 25.13 Well Name: ZIA AGI #2D Lat: 32.643951 Long: -103.811116 TD/TVD, 14,750 TD/VS, 0 <typ1>, <d TD/MD, 14,750 Proposed: <typ1>, <de Rig Phone #: (432) 853-9909 Contractor: SCANDRILL #/Crew: FREEDOM Field Name: AGI Asset Group: DELAWARE BASIN Area: AGI API/UWI: 30-025-42207 County: LEA State: NM End Depth (ftKB): 13,171.0 Permit #: Prospect: Spud Date: 11/2/2016 03:00 End Depth (TVD) (ftKB): 13,168.4 Ground Elevation (ft): 3,547.00 Original KB Elevation (ft): 3,572.00 24 Hr Progress (ft): 458.00 Rig Release Date: KB-Ground Distance (ft): 25.00 Target Formation: DEVONIAN Drilling Hours (hr): 22.50 Total AFE Amount (Cost) 009612 Cum Field Est To Date (Cost) Daily Field Est Total (Cost) Job AFE Amount (Cost) \$2,194,294 \$42,732 Daily Activity from 11/26/2016 - 11/27/2016 Operations at Report Time DRLG 8 3/4" VERTICAL @ 13,171' @ 18 FPH. Past 24 Hours Operation Summary
DRILL 8 3/4" VERTICAL W/ SHC F/ 12,713' - 13,171', 458'. SERVICE RIG, CHANGE SWAB IN PUMP Operations Next Report Period DRILL 8 3/4" VERTICAL Incident Reported Accident Reported Daily Contacts
CONTRACT DRLG FRMN, TODD HINTON, ; CONTRACT DRLG FRMN, RONNIE DUNNAVANT No No Time Log Start End End Depth NPT? Com Sub-Activity Dur (hr) Time Time (ftKB) DRLG 8 3/4" VERTICAL W/ SHC AND MWD SURVEYS F/ 12,713' - 12,892', 179' @ 23.8 No 12,892 DRLG W/SHC 06:00 13:30 7.50 @ 12,892' SERVICE RIG AND TOPDRIVE. No 14:00 0.50 12,892 LUBRICATE RIG 13:30 DRLG 8 3/4" VERTICAL W/ SHC AND MWD SURVEYS F/ 12,892' - 12,923', 31' @ 10.3 No 12.923 DRLG W/SHC 14:00 17:00 3.00 @ 12,923' CIRC W/ #1 PUMP AND CHANGE SWAB # 2 PUMP. No 18:00 12,923 C/O PUMP 17:00 1.00 **EXPENDABLES** DRLG 8 3/4" VERTICAL W/ SHC AND MWD SURVEYS F/ 12,923' - 13,171', 248' @ 20.6 No 13,171 DRLG W/SHC 18:00 06:00 12.00 Bits & BHAs Avg ROP (f. 23.2 Rot Time (hr) Slide Time. Job Circ Hr. Job Drill Hr. Model Depth Out. Length (ft) Bit Run Size (in) 13/13/13/13/13/13/13 34.00 TD507FX 7161207 12,382.0 13,171.0 1.00 8 3/4 10 BAKER HUG. Min Stand Pipe Pressure (psi) Max Stand Pipe Pressure (psi Min Weight on Bit (1000lbf) 25 Max Weight on Bit (1000lbf) Max RPM (rpm) Min RPM (rpm) BHA# 2,200.0 2,150.0 143 133 30 10 Weight of String in Air (1000lbf) String Length (ft) 13,171.79 **Drill String Components** Cum Len (ft) Len (ft) OD (in) Item Des .lts 12,448.19 13,171,79 5 399 Drill Pipe 2.13 723.60 6 1/4 1 XO Sub 721.47 146.33 6 1/2 DRILL COLLAR 5 575.14 31.36 6 1/2 1 HYD DRLG JARS 436.86 543.78 6 1/2 15 Drill Collar 106.92 6.67 6 5/8 3 PT ROLLER REAMER 1 100.25 3.26 6 1/2 1 XO Sub 96.99 29.60 6 1/2 1 **NMDC** 67.39 27.98 6 1/2 NMDC 1 39.41 2.65 6 1/2 Orientation Sub 1 36.76 6.73 6 5/8 3 PT ROLLER REAMER 11 30.03 29.03 6 3/4 1 Mud Motor **Drilling Parameters** Cum Drilling Time (hr) Interval ROP (ft/hr) Flow Rate (gpm) Drilling Time (hr) Cum Depth Drilled (ft) Start Depth (ftKB) End Depth (ftKB) Wellhore 458 34.00 20.4 22.50 789.00 Original Hole 12,713.0 13,171.0 Off Bottom Torque **Drilling Torque** SO Str Wt (1000lbf) PU Str Wt (1000lbf) Stand Pipe Pressure (psi) Drill Str Wt (1000lbf) Weight on Bit (1000lbf) RPM (rpm) 14,000.0 6,000.0 310 340 2,150.0 30 **Hydraulic Calculations** ercent of Pressure Drop at Bit (%) Bit Pressure Drop (psi) Bit Hydraulic Power Per Hole Area (hp/in²) Bit Jet Velocity (ft/s) Bit Hydraulic Power (hp) 10 161.9 60.3 1.0 Min Open Hole AV (ft/min) ECD End (lb/gal) Min Casing AV (ft/min) Max Open Hole AV (ft/min) Max Casing AV (ft/min) 9.61 211.9 17.2 211.9 17.8 Error **Mud Properties** PV Calc (cP) /P Calc (lbf/100ft²) Depth (ftKB) Density (lb/gal) Funnel Viscosity (s/qt) Time 8 39 12,802 9.5 09:30 Salt Base Lime (lb/bbl) Solids (%) Filter Cake (1/32") Gel 10 sec (lbf/100ft²) Gel 10 min (lbf/100ft²) Filtrate (mL/30min) 0.04 10.0 43 1 16.0 Pf (mL/mL) Percent Oil (%) Pm (mL/mL) Electric Stab (V) Calcium (mg/L) Chlorides (mg/L) WPS (mg/L) 0.0 25.00 50,000 HTHP Filter Cake (1/32") HTHP Filtrate (mL/30min) Magnesium (mg/L) Low Gravity Solids (%) Flow Line Temperature (°F) Oil Water Ratio Vis 6rpm

243.000

Max Trip Gas

0.00

Max Connection Gas

1,325.00

Max H2S (ppm)

8.5

Min Connection Gas

1,325.00

Max Background Gas

1,325.00



Date: 11/27/2016 Report #: 28.0

DSS: 25.13

Lat: 32.643951 Long: -103.811116

\$48,905

\$176,655

\$300

\$3,850

\$0

\$0

Well Name: ZIA AGI #2D

Proposed:

236

244

D-Rentals-Subsrfc

D-Envmntl/Clsd Loop

Proposed:		and the second second second second second								
Pump # 2, Trip	plex			Te ve	Make	<u> </u>		Model		
Pump Number 2		Start Date 11/26/2016	06:00	End Date 11/27/2016 06:00				F-1600		
Action Type Triplex		111111111111111111111111111111111111111			iner Size (in)					
Pressure (psi) 2,150.0		Strokes (spm)		Stroke Length (in) 12.00		Volumetric Efficiency (%) 95		Flow Rate (gpm) 229		
Survey Data		100		12.00						- Lucion - Complete - Inc.
MD (ftKB)		Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)		EW (ft)		DLS (°/100ft)
12,74	1.00	1.30	125.60	12,738.64	98.28		56.17	80.6	55	0.48
12,83	2000	1.20	205.00	12,833.62	97.78		54.64	81.1	10	1.68
12,92		2.70	240.10	12,926.57	94.76		52.66	78.7	79	1.99
13,02	V 10 10 10 10 10 10 10 10 10 10 10 10 10	2.30	246.90	13,019.48	90.75		50.84	75.	18	0.53
13,11		2.00	248.20	13,112.41	87.34		49.51	71.9	95	0.33
13,17	AND THE RESERVE AND ADDRESS OF THE PARTY OF	2.00	248.20	13,168.38	85.43	10.000	48.78	70.	14	0.00
Casing Strings						In the second	and the same of the same			
Odding Ouring.	-	Csg Des		OD (in)	Shoe Joint Volume (lb/ft			Set Depth (ftKB)		FIT (psi)
Conductor	342-11-1			30				120	All all and	
Surface				20				826	The same of	
Intermediate				13 3/8) J-55		2,555	April 19	
Intermediate			200	9 5/8	40.00	N-80		4,696	5.0	2,811.6
BOPs										
Pressure Rating (psi 10,000.0	i)		Nominal ID 13 5/8) (in)		11/14/	Test Date 2016			
Formation					100					
		Formation N	ame				Prog Top MD (f	RKB)		13,065.00
MISSIPIAN LIN									-	13,003.00
Fluids, Dispos					Consumed	de la companya de la	Cum On Loc			Returned
Supply Ite CUTTINGS BII		Unit Labe		Received	Consumed	1.0	Out Off Edit	-45.0		
RIG DIESEL		gal us				,707.0		9,283.0		
Costs Summa	arv.	Igui us								
Billing Category			Cost Des		Daily Field I	Est (Cost)	Cum Fld E		,	AFE Amt (Cost)
	-Daywork C	ontract				\$16,000		\$443,000		\$0
210 D	-Directional	Drlg Services				\$6,400		\$146,700		\$(
All the same of th	-Fuel & Pov					\$3,760		\$80,583		\$(
	-Mud & Che					\$4,957		\$66,066		\$(
	-Company	Sprvsn				\$1,800		\$50,400		\$(
	Contract S	the same of the sa				\$3,200		\$89,600		\$(
Market Commence of the Commenc	-Rentals-Su			the state of the s		\$2,465		\$150,230		\$0



Date: 11/28/2016

Report #: 29.0 DSS: 26.13

Well Name: ZIA AGI #2D

TD/TVD, 14,750 TD/VS, 0 <typ1>, <d TD/MD, 14,750 Proposed: <typ1>, <de

Lat: 32.643951 Long: -103.811116 Rig Phone #: (432) 853-9909

#/Crew: FREEDOM Contractor: SCANDRILL Area: AGI

Field Name: AGI Asset Group: DELAWARE BASIN API/UWI: 30-025-42207 State: NM Permit #: County: LEA End Depth (ftKB): 13,530.0 Ground Elevation (ft): 3,547.00 Prospect: End Depth (TVD) (ftKB): 13,527.3

Original KB Elevation (ft): 3,572.00 Spud Date: 11/2/2016 03:00 24 Hr Progress (ft): 359.00 KB-Ground Distance (ft): 25.00 Rig Release Date: Drilling Hours (hr): 13.50 Target Formation: DEVONIAN Total AFE Amount (Cost)

Cum Field Est To Date (Cost) Daily Field Est Total (Cost) \$47,619 \$2,241,913 Job AFE Amount (Cost)

Daily Activity from 11/27/2016 - 11/28/2016

Operations at Report Time @ 13,530' TOH TO CHANGE BHA AND PU NEAR BIT GAMMA.

Past 24 Hours Operation Summary
DRILL 8 3/4" VERTICAL F/ 13,171' - 13,530', 359', RIG SERVICE, CIRC BOTTOMS UP SAMPLES, TOH TO PU/MU NEAR BIT GAMMA.

FINISH TOH, CHANGE BHA, TIH, DRILL8 3/4" VERTICAL TO TD, CIRC, TOH, RIG UP AND LOG W/ SCHLUMBERGER LOGGING.

Accident Reported No Daily Contacts CONTRACT DRLG FRMN, TODD HINTON, ; CONTRACT DRLG FRMN, RONNIE DUNNAVANT, Incident Reported No No

Time L			First Danish		Cóm	NPT?
Start	End Time	Dur (hr)	End Depth (ftKB)	Sub-Activity	DRLG 8 3/4" VERTICAL W/ SHC AND MWD SURVEYS F/ 13,171' - 13,358', 187' @ 24.9	No
	13:30	7.50	13,358	DRLG W/SHC	FPH.	No
13:30	14:00	0.50		LUBRICATE RIG	@ 13,358' SERVICE RIG AND TOP DRIVE. DRLG 8 3/4" VERTICAL W/ SHC AND MWD SURVEYS F/ 13,358' - 13,512', 154' @ 28	No
14:00	19:30	5.50	13,512	DRLG W/SHC	FPH. @ 13,512', CIRC BOTTOMS UP, TO PICK TOP OF WOODFORD FORMATION, SAMPLES	No
19:30	21:30	2.00	13,512	CIRC BTMS UP		No
21:30	22:00	0.50		DRLG W/SHC	AND GAMMA DID NOT CONFINM. DRLG 8 3/4" VERTICAL W/ SHC AND MWD SURVEYS F/ 13,512' - 13,530', 18' @ 36 FPH. @ 13,530' CIRC , TOP PICKED @ 13,474' BY GEOLEX.	No
22:00	22:30	0.50		C&C MUD	@ 13,530' CIRC , TOP PICKED @ 10,474 BT SECURITY OF THE STREET GAMMA, @ 13,530', FLOW CHECK, SLUG PIPE AND TOH TO PICK UP NEAR BIT GAMMA,	No
22:30	06:00	7.50	13,530	TOH BIT CHANGE	STRAP OUT.	

Bits & B	HAs				Dente la (#	Donth C	out Length (ft	Job Drill	Hr Job Circ Hr	Avg ROP (f.	Rot Time (hr)	Slide Time	Nozzles (1/32") 13/13/13/13/13/13/13
Bit Run 10 BHA#	Size (in) 8 3/4	Druker House	Model TD507FX at on Bit (1000lb	7161207 f) Max We		13,530	0.0 1.00 Min RPM (rpm)	47.50	2.50 Max RPM (rpm) 143	24.2	147.00		Max Stand Pipe Pressure (psi) 2,350.0
10 String Leng		25		32			133	Weight of Stri	ing in Air (1000lbf)				

String C	omponents	OD (in)	Len (ft)	Cum Len (ft)
Jts	Item Des	OD (iii) 5	12,822.36	13,545.9
411	Drill Pipe	6 1/4	2.13	723.
1	XO Sub	6 1/2	146.33	721.
5	DRILL COLLAR	6 1/2	31.36	575.
1	HYD DRLG JARS	6 1/2	436.86	543
15	Drill Collar	6 5/8	6.67	106
1	3 PT ROLLER REAMER	6 1/2	3.26	100
1	XO Sub	6 1/2	29.60	96
1	NMDC	6 1/2	27.98	67
1	NMDC	6 1/2	2.65	39
1	Orientation Sub	6 5/8	6.73	36
1	3 PT ROLLER REAMER	6 3/4	29.03	30
1	Mud Motor	0 3/4	20.00	

Drilling Parameter	rs			15 W 7 - 15 A	Cum Drilling Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
Vellbore	Start Depth (ftKB)	End Depth (ftKB) 13.530.0	Cum Depth Drilled (ft) 1.148.00	Drilling Time (hr) 13.50	47.50	26.6	458
Original Hole	13,171.0				SO Str Wt (1000lbf)	Drilling Torque	Off Bottom Torque
Veight on Bit (1000lbf)	RPM (rpm) 65	Stand Pipe Pressure (psi) 2.350.0	Drill Str Wt (1000lbf) 350	PU Str Wt (1000lbf) 380	320	14,000.0	6,000.0

Hydraulic Calculations Bit Hydraulic Power (hp) 60.3	Bit Hydraulic Power Per Hole Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi) 225.7	Percent of Pressure Drop at Bit (% 10
Max Casing AV (fl/min) 211.9		Min Casing AV (ft/min) 211.9	Min Open Hole AV (ft/min) 17.2	9.63

Mud Properties						Lum ou a mi success
Time 12:30	Type Salt Base	Depth (ftKB) 12.802	Density (lb/gal) 9.5	Funnel Viscosity (s/qt) 43	PV Calc (cP) 10	YP Calc (lbf/100ft²) 9
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Filtrate (mL/30min) 8.0	Filter Cake (1/32")	рн 10.0	Solids (%) 5.6	Lime (lb/bbl) 0.04
Chlorides (mg/L) 50,000	WPS (mg/L)	Calcium (mg/L)	Electric Stab (V)	Pm (mL/mL) 0.350	Pf (mL/mL) 0.02	Percent Oil (%) 0.0
Oil Water Ratio	Flow Line Temperature (°F)	Vis 6rpm	Low Gravity Solids (%)	Magnesium (mg/L) 243.000	HTHP Filtrate (mL/30min)	HTHP Filter Cake (1/32")



Date: 11/28/2016 Report #: 29.0

DSS: 26.13

Lat: 32.643951 Long: -103.811116

Well Name: ZIA AGI #2D

roposed:						Make			Model F-1600	
mp# 2, Tri	plex	Start Date		End Date 11/28/2016 06:00		Bomco	0		1-1000	
np Number		11/27/2016	06:00	L	iner Size (in)					The state of the s
ion Type					5 1/2	Volume	tric Efficiency	(%)	Flow Rate (gpm 229)
iplex		Strokes (spm)		Stroke Length (in)		95			ZZS	
essure (psi)		65		12.00					EW (ft)	DLS (°/100ft)
350.0				TVD (ftKB)	VS (ft)		NS	(ft) 48.78	69.54	1.03
urvey Data		Incl (°)	Azm (°)	13,206.38		84.89			67.76	0.05
13.2	09.00	1.10	262.50	13,299.36		83.36		48.58	66.55	0.00
13.3	02.00	1.10	265.00	13,393.35		82.41		48.61	66.39	4.0
	96.00	0.40	288.80	13,453.35		82.54		49.04	66.4	0.0
	56.00	0.70	6.30	13,403.35		83.16		49.94	00.4	9
	30.00	0.70	6.30	13,527.35					Set Depth (ftKB)	FIT (psi)
Casing Strin				OD (in)	Shoe Joint V	olume (lb/ft)	The second second second	Grade	120	.0
asing our	90	Csg Des			0	118.52	A53		826	
Conductor				2	0	106.50	J-55		2,555	The second secon
Surface				13 3/		61.00	J-55			0.044
Intermediate				95		40.00	N-80		4,696	2,011
	A STATE OF THE PARTY OF THE PAR			9 5	10			Carlotte (Alba)		
Intermediate							112	st BOP Test Date		
BOPs Pressure Rating	(nci)		Nominal I	D (in)			1	1/14/2016		
10,000.0	(psi)		13 5/8						D (BI/D)	
Formation		= =====	Nama					Prog Top M	D (IIKB)	13,474.
		Formation	Name							
WOODFOR								Cum Or	loc I	Returned
	oosal and W	ater Unit La	hel	Received	C	onsumed	,023.0	Cultion	7,260.0	
Suppl	y Item Des	gal us	DCI -				.,023.0			
RIG DIESE		lyai us						-		
Costs Sum	mary					Daily Field	Est (Cost)	Cum F	Id Est (Cost)	AFE Amt (Cost)
Billing Category			Cost Des				\$16,0	00	\$459,000	
209	D-Daywork	Contract		and the second second		_	\$6,4	00	\$153,100	
210	D-Direction	al Drlg Services					\$4,4	50	\$85,033	
211	D-Fuel & P	ower					\$10,2		\$76,320	
214	D-Mud & C	hemicals					\$1,8		\$52,200	
226	D-Compan	y Sprvsn					\$3,2		\$92,800	
227	D-Contract						\$2,4		\$152,695	
235	D-Rentals-						\$2,4	Name and Address of the Owner, where the Owner, which is the Ow	\$49,205	
236	D-Rentals-						\$2.7		\$179,405	
230		Clsd Loop					\$2,1	20	Ψ110,100	A STATE OF THE PARTY OF THE PAR



Date: 11/29/2016 Report #: 30.0

DSS: 27.13

Well Name: ZIA AGI #2D TD/TVD, 14,750 TD/VS, 0 <typ1>, <d TD/MD, 14,750 #/Crew: FREEDOM <typ1>, <de Proposed:

Lat: 32.643951 Long: -103.811116 Rig Phone #: (432) 853-9909 Field Name: AGI API/UWI: 30-025-42207

Contractor: SCANDRILL Area: AGI

Asset Group: DELAWARE BASIN Permit #: State: NM Ground Elevation (ft): 3,547.00 End Depth (ftKB): 13,622.0 County: LEA Original KB Elevation (ft): 3,572.00 End Depth (TVD) (ftKB): 13,619.2 Prospect: KB-Ground Distance (ft): 25.00

Spud Date: 11/2/2016 03:00 24 Hr Progress (ft): 92.00 Drilling Hours (hr): 2.00

Rig Release Date: Total AFE Amount (Cost)

Target Formation: DEVONIAN Daily Field Est Total (Cost) 009612 Job AFE Amount (Cost)

Cum Field Est To Date (Cost) \$2,296,749

\$54,836

Daily Activity from 11/28/2016 - 11/29/2016

Past 24 Hours Operation Summary TOH, CHANGE BHA, RIG SERVICE, TIH, DRILL 8 3/4" VERTICAL F/ 13,530' - 13,622', 92' . RE-LOG GAMMA F/ 13,494' - 13,350', CIRC, TOH TO LOG 8 3/4" @ 13,622' TOH TO RUN OPEN HOLE LOGS. Operations at Report Time

VERTICAL SECTION. FINISH TOH, RIG UP SCHLUMBERGER LOGGING AND LOG 8 3/4" VERTICAL HOLE, TIH.

CONTRACT DRLG FRMN, TODD HINTON, ; CONTRACT DRLG FRMN, RONNIE DUNNAVANT, Accident Reported Incident Reported No No

NPT? No Com @ 13,530' CONTINUE TOH TO PU NEAR BIT GAMMA, AND LD BHA Time Log End Depth No Sub-Activity End Start Dur (hr) (ftKB) 13,530 TOH BIT CHANGE SERVICE RIG AND TOP DRIVE. Time PU/MU NEW BHA W/ NEAR BIT GAMMA AND TIH, WENT IN WITH 6 3/4" BAKER No 2.50 06:00 08:30 13,530 LUBRICATE RIG STRAIGHT 5/6 LOBE .16 REV MTR AND BAKER TD507FX BIT, FILLING EVERY 30 0.50 09:00 08:30 13,530 TIH BIT CHANGE 11.00 20:00 09:00 No STANDS TO 13,494 RE-LOG GAMMA F/ 13,494' - 13,530' DRLG 8 3/4" VERTICAL W/ MWD SURVEYS F/ 13,530' -13,622', 92' @ 46 FPH, No DRILLED 15' INTO DEVONIAN. *** TD 8 3/4" VERTICAL @ 23:00 MST ON 11/28/2016.*** 13,530 RE-LOG 1.00 21:00 20:00 13,622 DRLG W/MTR @ 13,622' PUMP SWEEP AND GET BOTTOMS UP SAMPLE TO CONFIRM DEVONIAN, No 2.00 23:00 21:00 DEVONIAN TOP @ 13,607'. CONFIRMED BY GAMMA, ROP AND SAMPLES BY 13,622 C&C MUD 3.50 02:30 23:00 @ 13,622', FLOW CHECK, PUMP SLUG AND TOH TO LD BHA AND LOG 8 3/4" No 13,622 TOH LOGGING/ PH 3.50 06:00 VERTICAL 02:30

Rot Time (hr) Slide Time... Avg ROP (f. 46.0 13/13/13/13/13/13/13 Job Circ Hr... 3.50 Bits & BHAs 2 00 Max Stand Pipe Pressure (psi) 13,530.0 | 13,622.0 | 1.00 2.00 Make Min Stand Pipe Pressure (psi) Size (in) Bit Run TD507FX 7160690 Max RPM (rpm) 2,150.0 8 3/4 BAKER HUG. Min RPM (rpm) 11 Max Weight on Bit (1000lbf) 2,150.0 Min Weight on Bit (1000lbf) 138 138 BHA# Weight of String in Air (1000lbf)

11 13,650.34 Cum Len (ft) Len (ft) **Drill String Components** OD (in) 13,650.34 12,946.54 Item Des 5 703.80 2.13 415 Drill Pipe 6 1/4 701.67 146.33 1 X-O SUB 6 1/2 555.34 31.36 DRILL COLLAR 5 6 1/2 523.98 HYD DRLG JARS 407.34 1 6 1/2 116.64 7.53 Drill Collar 14 6 3/4 109.11 3 PT ROLLER REAMER 29.52 6 1/2 19.39 Drill Collar 6.67 6 5/8 72.92 3 PT ROLLER REAMER 31.65 6 3/4 41.27 1 Mud Motor 1.65 6 1/2 39.62 1 XO Sub 4.09 6 3/4 1 XO Sub 35.53 27.98 6 1/2 1 NMDC 7.55 2.65 6 3/4 1 Orientation Sub 4.90 3.90 6 1/2 1 Bit Sub

Drilling Parameter	rs			The second second	Cum Drilling Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
Wellbore Original Hala	Start Depth (ftKB)	End Depth (ftKB) 13,622 0	Cum Depth Drilled (ft) 92.00	Drilling Time (hr) 2.00	2.00	46.0	457
Weight on Bit (1000lbf)	RPM (rpm) 65		The state of the s	PU Str Wt (1000lbf) 380	SO Str Wt (1000lbf) 330	15,000.0	6,000.0

Hydraulic Calculations				Demont of Demonstra Dean of Dit (OL
Bit Hydraulic Power (hp) 59.0	Bit Hydraulic Power Per Hole Area (hp/in	161.6	221.2	10
Max Casing AV (ft/min) 211.5	Max Open Hole AV (ft/min) 17.8	Min Casing AV (ft/min) 211.5	Min Open Hole AV (ft/min) 17.2	ECD End (lb/gal) 9.58

Mud Propertie	es					
Time	Туре	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Caic (IDI/100ft*)
11:45	Salt Base	13,530	9.4	41	10	9



Date: 11/29/2016

Report #: 30.0 DSS: 27.13

Lat: 32.643951 Long: -103.811116

\$78,546

\$54,000

\$96,000

\$56,465

\$182,155

\$155,160

\$0

\$0

\$0

\$0

\$0

\$2,226

\$1,800

\$3,200

\$2,465

\$7,260

\$2,750

Well Name: ZIA AGI #2D

D-Mud & Chemicals

D-Company Sprvsn

D-Contract Sprvsn

D-Rentals-Surface

D-Rentals-Subsrfc

D-Envmntl/Clsd Loop

214

226

227

235

236

244

Proposed: Flow Rate (gpm) 229 Volumetric Efficiency (%) Stroke Length (in) Strokes (spm) Pressure (psi) 12.00 2,150.0 65 Pump # 2, Triplex Model F-1600 Make Fnd Date Start Date Pump Number 11/29/2016 06:00 Bomco 11/28/2016 06:00 Liner Size (in) Action Type Triplex 5 1/2 Flow Rate (gpm) 229 Volumetric Efficiency (%) Stroke Length (in) Strokes (spm) Pressure (psi) 95 12.00 65 2,150.0 Survey Data EW (ft) DLS (°/100ft) NS (ft) VS (ft) TVD (ftKB) Incl (°) Azm (° MD (ftKB) 69.05 52.28 86.61 13,594,28 47.00 3.00 13,597.00 0.00 70.00 53.17 13,619.24 87.91 47.00 3.00 13,622.00 Casing Strings FIT (psi) Set Depth (ftKB) Grade Shoe Joint Volume (lb/ft) OD (in) Csg Des 120.0 118.52 A53 30 Conductor 826.0 20 106.50 J-55 Surface 2,555.5 13 3/8 61.00 J-55 Intermediate 2,811.6 4,696.0 40.00 N-80 9 5/8 Intermediate BOPs Last BOP Test Date Nominal ID (in) Pressure Rating (psi) 11/14/2016 13 5/8 10,000.0 Formation Prog Top MD (ftKB) Formation Name 13,607.00 DEVONIAN Fluids, Disposal and Water Returned Cum On Loc Consumed Received Unit Label Supply Item Des -12,600.0 6,300.0 GAL POTABLE WATER 13,396.0 1,364.0 7,500.0 RIG DIESEL gal us **Costs Summary** Cum Fld Est (Cost) AFE Amt (Cost) Billing Daily Field Est (Cost) Cost Des \$0 \$475,000 Category \$16,000 **D-Daywork Contract** \$0 209 \$159,900 \$6,800 210 **D-Directional Drlg Services** \$0 \$88,038 \$3.005 D-Fuel & Power \$0 211 \$29,260 \$1,330 212 D-Water \$0 \$75,000 \$8,000 D-Bits \$0 213

Date: 11/30/2016

75.0

178.0

18.0

2.0

175.0

30

2.0

2.0

5.0

40

Report #: 31.0 CONCHO DSS: 28.13 Well Name: ZIA AGI #2D Lat: 32.643951 Long: -103.811116 TD/TVD, 14,750 TD/VS, 0 <typ1>, <d TD/MD, 14,750 Proposed: <typ1>, <de Rig Phone #: (432) 853-9909 #/Crew: FREEDOM Contractor: SCANDRILL Field Name: AGI Area: AGI Asset Group: DELAWARE BASIN API/UWI: 30-025-42207 State: NM County: LEA Permit #: End Depth (ftKB): 13,622.0 Ground Elevation (ft): 3,547.00 Prospect: End Depth (TVD) (ftKB): 13,619.2 Spud Date: 11/2/2016 03:00 Original KB Elevation (ft): 3,572.00 24 Hr Progress (ft): 0.00 KB-Ground Distance (ft): 25.00 Rig Release Date: Drilling Hours (hr): Target Formation: DEVONIAN Total AFE Amount (Cost) Cum Field Est To Date (Cost) 009612 Daily Field Est Total (Cost) \$2,466,659 Job AFE Amount (Cost) \$169,910 Daily Activity from 11/29/2016 - 11/30/2016 TIH TO CSG POINT @ 13,622' TO CIRC SWEEP AND LD DRILL STRING. Operations at Report Time AT 13,622' FINISH TOH, LD DIRECTIONAL BHA, RIG SERVICE, RIG UP SCHLUMBERGER LOGGING AND LOG 8 3/4" VERTICAL HOLE, MAKE UP BIT, BIT SUB AND TIH TO CIRC AND LD DRILL PIPE. FINISH TIH TO 8 3/4" CSG POINT @ 13,622', CIRC SWEEP AROUND, RIG UP LD MACHINE AND LD DRILL PIPE AND DC'S. CONTRACT DRLG FRMN, JOE HARRIS, ; CONTRACT DRLG FRMN, RONNIE DUNNAVANT Accident Reported Daily Contacts Incident Reported No No Time Log NPT? End Depth Com Start End AT 13,622' CONTINUE TOH TO RUN OPEN HOLE LOGS IN THE 8 3/4" VERTICAL No Sub-Activity Dur (hr) Time Time TOH LOGGING/ PH 4.00 13,622 06:00 10:00 SECTION. No LD 2 REAMERS, MTR, AND DIRECTIONAL TOOLS. 13,622 PU/LD BHA No 1.00 11:00 SERVICE RIG AND TOP DRIVE. 13,622 LUBRICATE RIG AT 13,622' PJSM W/ SCHLUMBERGER LOGGING RU AND LOG 8 3/4" VERTICAL HOLE, 11:30 0.50 No 11:00 13,622 LOGGING LOGGERS TD 13,630' @ 15:00 MST 11/29/2016, AND RD. 04:30 17.00 MAKE UP BIT, BIT SUB, AND TIH TO CIRC AND LD DRILL PIPE, SLM ON WAY IN. No 13,622 TIH TD CSG PT/ KOP 1.50 04:30 06:00 Bits & BHAs Avg ROP (f. 46.0 Rot Time (hr) Slide Time... Job Drill Hr 13/13/13/13/13/13/13 2.00 Bit Run Size (in) 2.00 3.50 TD507FX 7160690 13,530.0 | 13,622.0 | 1.00 Max Stand Pipe Pressure (psi) 12 RR 11 8 3/4 Min Stand Pipe Pressure (psi) BAKER HUG Min RPM (rpm) Max RPM (rpm) Min Weight on Bit (1000lbf) Max Weight on Bit (1000lbf) BHA# 12 Weight of String in Air (1000lbf) String Length (ft) 13,568.12 **Drill String Components** Cum Len (ft) Len (ft) OD (in) 12,946.54 Item Des 13.568.12 5 621.58 415 Drill Pipe 2.13 6 1/4 1 X-O SUB 619.45 146.33 6 1/2 5 DRILL COLLAR 473.12 31.36 6 1/2 441.76 1 HYD DRLG JARS 436.86 6 1/2 15 Drill Collar 4.90 3.90 6 1/2 1 Bit Sub Flow Rate (gpm) **Drilling Parameters** Cum Drilling Time (hr) Interval ROP (ft/hr) Drilling Time (hr) Cum Depth Drilled (ft) End Depth (ftKB) Start Depth (ftKB) Wellbore Original Hole 13,622.0 Off Bottom Torque Drilling Torque SO Str Wt (1000lbf) PU Str Wt (1000lbf) Drill Str Wt (1000lbf) Stand Pipe Pressure (psi) Weight on Bit (1000lbf) RPM (rpm) Percent of Pressure Drop at Bit (%) **Hydraulic Calculations** Bit Pressure Drop (psi) Bit Hydraulic Power Per Hole Area (hp/in²) Bit Jet Velocity (ft/s) Bit Hydraulic Power (hp) ECD End (lb/gal) Min Open Hole AV (ft/min) Min Casing AV (ft/min) Max Open Hole AV (ft/min) Max Casing AV (ft/min) No end depth specified for this drilling parameter with end date 12/1/2016 6:00:00 AM YP Calc (lbf/100ft²) **Mud Properties** PV Calc (cP) Funnel Viscosity (s/qt) Density (lb/gal) Depth (ftKB) Time 40 9.6 13.622 Salt Base Lime (lb/bbl) 10:30 Solids (%) pH Filter Cake (1/32") 0.08 Filtrate (mL/30min) 5.4 Gel 10 sec (lbf/100ft²) Gel 10 min (lbf/100ft2) 8.0 14.8 Percent Oil (%) 10 Pf (mL/mL) Pm (mL/mL) 6 Flectric Stab (V) 0.0 Calcium (mg/L) 0.00 WPS (mg/L) 0.300 Chlorides (mg/L) HTHP Filter Cake (1/32") HTHP Filtrate (mL/30min) 53,000 Magnesium (mg/L) Low Gravity Solids (%) Flow Line Temperature (°F) 97.000 Oil Water Ratio 8.9 Max H2S (ppm) Max Trip Gas 0/100 Max Connection Gas Min Connection Gas 0 Max Background Gas 0.00 Min Background Gas 0.00 0.00 96.00 1.00 Returned **Mud Additive Amounts** On Loc Consumed Rec Units 47.0 15.0

TON

50# SACK

25# SACK

50# SACK

STICK

Barite BULK

FLOZAN

PAC-L

CAUSTIC SODA

SOAP STICKS



Date: 11/30/2016 Report #: 31.0

DSS: 28.13

Lat: 32.643951 Long: -103.811116

Well Name: ZIA AGI #2D

Proposed:	l Sh	oe Joint Volume (lb/ft)	Grade	Set Depth (ftKB)	FIT (psi)
Casing Strings Csg Des	OD (in) Sh	106.50	J-55	826.0	
Surface	13 3/8	61.00		2,555.5	0.014.6
Intermediate	9 5/8	40.00	N-80	4,696.0	2,811.6
Intermediate	9 5/6				

Last BOP Test Date 11/14/2016 Nominal ID (in) 13 5/8 Pressure Rating (psi) 10,000.0

Formation

Prog Top MD (ftKB) 13,607.00 Formation Name DEVONIAN Fluids, Disposal and Water

Fluids, Disposal and V		Descined	Consumed	Cum On Loc	Returned
Supply Item Des	Unit Label	Received	2.0	-47.0	
CUTTINGS BIN	BIN				
	and up		722.0	12,674.0	
RIG DIESEL	gal us				

RIG DIESE	L gal us	122.0	12,0,	
Costs Sum	nmary			***
Billing	Cost Des	Daily Field Est (Cost)	Cum Fld Est (Cost)	AFE Amt (Cost)
Category		\$16,000	\$491,000	\$0
209	D-Daywork Contract	\$7,000	\$166,900	\$(
210	D-Directional Drlg Services	\$1,590	\$89,628	\$0
211	D-Fuel & Power	The state of the s	\$84,251	\$(
214	D-Mud & Chemicals	\$5,705		\$(
226	D-Company Sprvsn	\$1,800	\$55,800	
On which the same	D-Contract Sprvsn	\$3,200	\$99,200	\$(
227		\$4,600	\$32,670	\$1
228	D-Tstg Csg/Tbg	\$84,600	\$117,650	\$1
230	D-Logging D-Logging	\$4,415	\$159,575	\$
235	D-Rentals-Surface		\$56,765	\$
236	D-Rentals-Subsrfc	\$300		
the second second second second	D-Trucking/Forklift/Rig Mobil	\$35,750	\$215,850	\$
237		\$4,950	\$187,105	\$
244	D-Envmntl/Clsd Loop		The second secon	



Date: 12/1/2016

Returned

Report #: 32.0 DSS; 29.13

	ON	CHI												MAA	
			AGI #2D		and a same	against, imper, i	D, 14,750	TD/VS. 0			La	t: 32.64	3951 LOI	ng: -103.81	1116
Well	eq. <	typ1>, <	de <typ< td=""><td>1>, <d t<="" td=""><td>O/MD, 14,750</td><td></td><td></td><td></td><td></td><td>Rig</td><td>Phone #:</td><td>(432) 853 AGI</td><td>)-8808</td><td></td><td></td></d></td></typ<>	1>, <d t<="" td=""><td>O/MD, 14,750</td><td></td><td></td><td></td><td></td><td>Rig</td><td>Phone #:</td><td>(432) 853 AGI</td><td>)-8808</td><td></td><td></td></d>	O/MD, 14,750					Rig	Phone #:	(432) 853 AGI)- 8 808		
	00	HOCHAN			#/Crew:	FREED	OW			Fiel	Name:	026 4770	7		
Isset C	roup:	DELAWA	ARE BASIN		Area: A					VD	MM. 9	-032-4350	1		
Sounty					State:	NM	B): 13,622	Λ		Pa		T AMA LONG	,		1
Prospe	ct:	1/2/2016	03.00		End De	anth (TV	D) (ftKB):	13.619.2				vation (ft)	3,547.00		
Rig Re	lease D	ate:			24 Hr F	Progress	s (ft): 0.00	10,0101		Or	iginal KE	Elevation	(ft): 3,57		
Target AFE Num		tion: DE	VONIAN		Drilling	g Hours	(hr):	Total AFE Ar	nount (Co		-Ground	Distance	(ft): 25.00	0	
009612						- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1									
Job AFE	Amount (C	cost)			\$39,73	d Est Total 9	(Cost)				506,398	o Date (Cost)			
			/30/2016 - 1	2/1/2016											
	s at Repo		ILL STRING	@ 13 622'											
Past 24 H	ours Oper	ration Summ	narv		-		- OLID AN	D OUT OO	0E DE	LOUNE T	1.70.40	F071 \A/A/	CLI TO DO	TTOM 5/42 5	27
CONTI	NUE TI 622'. C	H TO LD	DRILL PIPE FEPS. SHU	TO 4,460' TWELLIN	TO TOP OF CS	BG SHO D DUE T	E, SLIP AN	ANT PROE	OF DR	SLUG PIPE.	AND LD	DRILL PI	PE F/ 13,6	22' - 3,500'.	31
Operation	s Next Re	port Period			O SURFACE, F			-							
			MT 2 STAGE		U SUKFACE, R	dig or c	OG CREW	AND TOR	QUE 11	OKN AND NO	W / Ot /	3/0 000,	Olivo, ivi	0 01	
Incident F No	Reported	Accident R	Reported Daily C	Contacts TRACT DE	RLG FRMN, JOE	HARRI	S. : CONTR	ACT DRLC	FRMN	N. RONNIE DU	INNAVA	NT.			
Time L	oq	1.77	331												
Start	End		End Depth			T				Com		-			NPT?
Time 06:00	09:00	3.00	(ftKB) 13.622		ub-Activity SG PT/ KOP	CONTI	NUE TIH TO	D LD DRIL	PIPE	TO ABOVE C	SG SHO	E @ 4,460	, FILLING	EVERY 30	No
			,			A TOTAL DATE OF THE PARTY OF TH	S, SLM IN								
09:00	10:00	1.00	13,622				60' SLIP AN								No
10:00	10:30	0.50		LUBRICA			60' SERVIC			ORIVE. S EVERY 30 S	TANDE	CI M INI LI	NE.		No No
10:30 16:00	16:00	5.50 0.50	13,622		CSG PT/ KOP	WASH	AND REAL	13,537 ,	OM F/	13,537' - 13,6	22' 85' V	V/ 2' OF SO	OFT FILL.		No
16:30	19:30	3.00		PUMP SV	VEEP					C TO LD DRI)	No
			1515			MACH	INE.								
19:30	21:00	1.50	13,622	SAFETY S	STANDDOWN	AT 13, SHUT	622' DCP M WELL IN AI	IIDSTREAM ND MUSTE	/I HAD ERD AN	US SHUT DO D GOT HEAD	OUNT	TO PLAN	T PROBLE	MS, WE	No
21:00	06:00	9.00	13,622	LDDP		Maria Santa Sa		S LD, FLOV	V CHE	CK SLUG PIF	E, AND I	D DRILL I	PIPE F/ 13	,622' -	No
Bits &	RHAe		L.,,	L		3,500'.						***************************************			
Bit Run	Size	(in) M	lake Mod				Out Length (Circ Hr Avg RO		Time (hr) Slid		zzles (1/32")	1040
12 RR BHA#	11 8 3	/4 B/	Min Weight on E		60690 13,530.0 Max Weight on Bit (22.0 1.00 Min RPM (rpm	2.00	May R	50 46.0 PM (rpm)	2.0		The second second	/13/13/13/13/1 Max Stand Pipe Pre	Contract of the Contract of th
12			Will Weight of L	Sit (1000lbi)	Wax Weight of Dict	1000101)	Will to W (rps)								
String Le								Weight of St 315	ring in Air	(1000lbf)					
		ompone	nts					12.1							
J	147	Daill Diag			Item Des		111			OD (in)	5	Len (ft)	,009.23	Cum Len (ft) 3,630.81
		Drill Pipe X-O SUE								6 1		10	2.13		621.58
		DRILL C			A					61			146.33		619.45
	1		RLG JARS							6 1	12		31.36		473.12
	15	Drill Coll	ar							61			436.86		441.76
	1	Bit Sub								6 1	12	-w	3.90		4.90
Wellbore	g Parar		art Depth (ftKB)	End D	Pepth (ftKB)	Cum Dept	h Drilled (ft)	Drilling Time	(hr)	Cum Drilling	Time (hr)	Interval Ro	OP (ft/hr)	Flow Rate (gpm	n)
Origina	al Hole	1:	3,622.0						-					Off Pallace Tax	
Weight o	n Bit (100	Olbf) RI	PM (rpm)	Stand	Pipe Pressure (psi)	Drill Str W	t (1000lbf)	PU Str Wt (1000(bt)	SO Str Wt (*	OUOIDT)	Drilling To	rque	Off Bottom Tore	que
-		Iculation					A A						In	Don't Div	(0/)
Bit Hydra	aulic Powe	er (hp)	Bi	t Hydraulic Pow	ver Per Hole Area (hp.	/in²) Bit J	et Velocity (ft/s)			Bit Pressure Drop	(psi)		Percent of Pr	ressure Drop at Bit	(70)
Max Cas	ing AV (ft	/min)	Ma	ax Open Hole A	AV (ft/min)	Min	Casing AV (ft/m	in)		Min Open Hole A	/ (ft/min)		ECD End (lb/	(gal)	
Error								-					I		
No en			d for this drilli	ng parame	ter with end date	e 12/1/20	016 6:00:00	AM	-						
Time	roperti	ies	Туре		Depth (ftKB)		Density (lb/ga	D	Funne	el Viscosity (s/qt)	PV	Calc (cP)		YP Calc (lbf/100ft²)	
09:00			Salt Base		13,622		9.3	1	42		11			9 Lime (lb/bbl)	
Gel 10 s	ec (lbf/100	Oft²)	Gel 10 min (lbf/	100ft²)	Filtrate (mL/30min) 10.0		Filter Cake (1)	(32")	рН 11.0		3.5	ds (%)		0.05	
Chloride	s (mg/L)		WPS (mg/L)		Calcium (mg/L)		Electric Stab	(V)	Pm (n	nL/mL)	Pf (r 1.4	nL/mL)		Percent Oil (%) 0.0	
54,000 Oil Wate		-	Flow Line Tem	nerature (°F)	Vis 6rpm		Low Gravity S	Solids (%)	1.60 Magn	esium (mg/L)		IP Filtrate (mL	(30min)	HTHP Filter Cake (1/32")
0/100							7.1		122	.000	x Trip Gas			2 H2S (ppm)	
Min Bac	kground G	as	Max Back	ground Gas	Min Con	nection Ga	S	Max Conne	cuon Gas	Ma	v tub Gas		IVIAX I	(PPIII)	

Mud Additive Amounts

Proposed:					-				
Pump # 2, T	riplex			End Date		Make	to the same of the	Model F-1600	
Pump Number		Start Date 11/30/2016	06:00	12/1/2016 06:00		Bomco		F-1000	
Action Type		11110012010			Liner Size (in)				
Triplex					5 1/2	Volumetric Eff	iciency (%)	Flow Rate (gpr	n)
Pressure (psi)		Strokes (spm)		Stroke Length (in) 12.00		95	idendy (70)	229	
1,350.0		65		12.00					
Survey Data			Azm (°)	TVD (ftKB)	VS (ft)		NS (ft)	EW (ft)	DL\$ (°/100ft)
MD (ftKE		Incl (°)	47.00	13.619.24	87.	.91	53.17	70.00	0.00
	622.00	3.00	47.00	,0,0,0,0.		A debut			
Casing Strir	ngs			OD (in)	Shoe Joint Volume	(lb/ft)	Grade	Set Depth (ftKB)	FIT (psi)
		Csg Des	the state of the s	30		8.52 A53		120.	
Conductor				20		6.50 J-55		826.	0
Surface				13 3/8		1.00 J-55		2,555.	5
Intermediate						0.00 N-80		4,696.	2,811.6
Intermediate				9 5/8	3 4	0.00 14-00		1,000.	
BOPs							Ti inon't inote		
Pressure Rating	(psi)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Nominal				Last BOP Test Date 11/14/2016		
10,000.0			13 5/8				101.000		
Formation					r		Prog Top Mi	D (ftKB)	
		Formation N	ame				1,109.10	(13,607.00
DEVONIAN							n 10, 10, 1		
Fluids, Disp	oosal and Wa	ater			Consume	d	Cum On	loc	Returned
	y Item Des	Unit Lab	el	Received	Consume	1.0		-48.0	
CUTTINGS	BIN	BIN				949.0		11,725.0	
RIG DIESEL	_	gal us				949.0		11,120.0	
Costs Sum	mary								
Billing			Cost Des		Daily F	Field Est (Cos	Cum Fl	ld Est (Cost)	AFE Amt (Cost)
Category	D-Daywork (Contract	Cost Des			\$16	5,000	\$507,000	\$0
209		Control of the Contro				\$4	1,200	\$171,100	\$0
210		al Drlg Services	<u> 1</u>				2,090	\$91,718	\$0
211	D-Fuel & Po					The second secon	2,594	\$86,845	\$0
214	D-Mud & Ch	nemicals	The state of the s				1,800	\$57,600	\$0
226	D-Company	Sprvsn						\$102,400	\$0 \$0
227	D-Contract	Sprvsn					3,200	\$165,280	\$0
235	D-Rentals-S						5,705		\$(
236	D-Rentals-S						\$300	\$57,065	\$(
244	D-Enymntl/0	Clsd Loop				\$	3,850	\$190,955	J.



Barite BULK

CAUSTIC SODA

TON

50# SACK

Daily Drilling Report

Date: 12/2/2016

64.0

168.0

3.0

8.0

Report #: 33.0

DSS: 30.13 Lat: 32.643951 Long: -103.811116 Well Name: ZIA AGI #2D TD/TVD, 14,750 TD/VS, 0 <typ1>, <d TD/MD, 14,750 Rig Phone #: (432) 853-9909 <typ1>, <de Proposed: #/Crew: FREEDOM Contractor: SCANDRILL Field Name: AGI Area: AGI Asset Group: DELAWARE BASIN API/UWI: 30-025-42207 State: NM Permit #: County: LEA End Depth (ftKB): 13,622.0 Ground Elevation (ft): 3,547.00 Prospect: End Depth (TVD) (ftKB): 13,619.2 Original KB Elevation (ft): 3,572.00 Spud Date: 11/2/2016 03:00 24 Hr Progress (ft): 0.00 KB-Ground Distance (ft): 25.00 Rig Release Date: Drilling Hours (hr): Target Formation: DEVONIAN Total AFE Amount (Cost) Cum Field Est To Date (Cost) 009612 Daily Field Est Total (Cost) \$2,603,664 Job AFE Amount (Cost) \$97,266 Daily Activity from 12/1/2016 - 12/2/2016 Operations at Report Time AT 13,622' RUNNING 7" PRODUCTION CSG F/ SURFACE TO 7,308'. CONTINUE TO LD DRILL STRING F/ 3,500' TO SURFACE, PULL WEAR BUSHING, RIG UP FRANKS CSG, TORQUE TURN AND RUN 7" 32# V-110 VAMPTOP AND 7" 29# HCP-110 LT&C PRODUCTION CSG TO 7,308'. FINISH RUNNING 7" CSG F/ 7,308' TO 13,622', RD CASING, TORQUE TURN AND LD MACHINE, CIRC, RIG UP HALLIBURTON AND CMT 7" PRODUCTION CASING. CONTRACT DRLG FRMN, JOE HARRIS, ; CONTRACT DRLG FRMN, RONNIE DUNNAVANT Accident Reported Incident Reported No No Time Loa NPT? End Depth Com Start End AT 13,622' CONTINUE TO LD DRILL PIPE, DRILL COLLARS F/ 3,500' TO SURFACE. No Sub-Activity Dur (hr) (ftKB) Time Time PULL WEAR BUSHING AND PREPARE FLOOR TO RUN 7" & 7 5/8" CSG. No 4.50 13,622 I DDP 10:30 06:00 PULL/INSTALL WEAR 0.50 13.622 10:30 11:00 PJSM W/ FRANKS, RIG UP CSG CREW AND EQUIPMENT AND FRANKS TORQUE **BSHG** No **RU CSG EQUIP** 5.00 13.622 16:00 11:00 TURN AND ALL CHROME PIPE EQUIPMENT. RUN 62 JTS 7" 32# V-110 VAM TOP CSG, AND 259 JTS OF 7" 29# HCP-110 LT&C AND No 7 JTS OF 7 5/8" 33.7# HCP-110 LT&C TOTAL JTS= 328, TP= 13,637.36', TOP OF DV 13,622 RUN CSG 16:00 06:00 14.00 TOOL @ 6,345.5'. *NOTE* STILL RUNG CSG AT REPORT TIME. Rot Time (hr) Slide Time. Bits & BHAs Job Drill Hr. Job Circ Hr. Avg ROP (f. 13/13/13/13/13/13/13 Length (ft) 2.00 Model 3.50 46.0 Size (in) 2.00 Bit Run TD507FX 7160690 13,530.0 13,622.0 1.00 Max Stand Pipe Pressure (psi) Min Stand Pipe Pressure (psi) 12 RR 11 8 3/4 BAKER HUG. Max RPM (rpm) Max Weight on Bit (1000lbf) Min RPM (rpm) 1,350.0 1,350.0 Min Weight on Bit (1000lbf) BHA# 12 Weight of String in Air (1000lbf) String Length (ft) 13,630.81 Cum Len (ft) **Drill String Components** Len (ft) OD (in) 13,630.81 Item Des 13,009.23 5 621.58 417 Drill Pipe 6 1/4 2.13 619.45 1 X-0 SUB 146.33 6 1/2 473.12 5 DRILL COLLAR 31.36 6 1/2 441.76 HYD DRLG JARS 436.86 1 6 1/2 4.90 15 Drill Collar 3.90 6 1/2 Bit Sub 1 Flow Rate (gpm) Interval ROP (ft/hr) **Drilling Parameters** Cum Drilling Time (hr) Drilling Time (hr) Cum Depth Drilled (ft) End Depth (ftKB) Start Depth (ftKB) Wellbore Off Bottom Torque Drilling Torque SO Str Wt (1000lbf) PU Str Wt (1000lbf) Stand Pipe Pressure (psi) Drill Str Wt (1000lbf) Weight on Bit (1000lbf) RPM (rpm) Percent of Pressure Drop at Bit (%) **Hydraulic Calculations** Bit Pressure Drop (psi) Bit Jet Velocity (ft/s) Bit Hydraulic Power Per Hole Area (hp/in²) Bit Hydraulic Power (hp) ECD End (lb/gal) Min Open Hole AV (ft/min) Min Casing AV (ft/min) Max Open Hole AV (ft/min) Max Casing AV (ft/min) Error YP Calc (lbf/100ft²) PV Calc (cP) **Mud Properties** Funnel Viscosity (s/qt) Density (lb/gal) 11 Depth (ftKB) 41 9.5 13,622 Lime (lb/bbl) Salt Base Solids (%) 12:00 рН Filter Cake (1/32") 0.08 Filtrate (mL/30min) Gel 10 min (lbf/100ft²) 5.5 Gel 10 sec (lbf/100ft²) 10.0 14.2 Percent Oil (%) Pf (mL/mL) 11 Pm (mL/mL) Electric Stab (V) 0.5 Calcium (mg/L) 0.02 WPS (mg/L) 0.050 Chlorides (mg/L) HTHP Filter Cake (1/32") HTHP Filtrate (mL/30min) Magnesium (mg/L) 122.000 52,000 Low Gravity Solids (%) 2 Vis 6rpm Flow Line Temperature (°F) Oil Water Ratio 8.9 Max H2S (ppm) Max Trip Gas 2,424.00 0.5/99.5 Max Connection Gas Min Connection Gas Max Background Gas 0.00 Min Background Gas 0.00 2 424.00 98 00 Returned On Loc **Mud Additive Amounts** Consumed Rec Units 110 20 5 GAL 43.0 1NC-9000 4.0



Date: 12/2/2016

Report #: 33.0

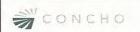
DSS: 30.13

Proposed:

Well Name: ZIA AGI #2D

Lat: 32.643951 Long: -103.811116

Survey Data	1			in the second district				
MD (ftKB		Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
13,	622.00	3.00	47.00	13,619.24	87.91	53.	17 70.0	0.00
Casing Strin	ngs		***					
		Csg Des		OD (in)	Shoe Joint Volume (lb/ft)	Grade	Set Depth (ftKB)	FIT (psi)
Conductor				30	118.52		120	
Surface				20	106.50	and the second s	826	
ntermediate				13 3/8	61.00		2,555	
Intermediate				9 5/8	40.00	N-80	4,696	
Production	10000			7	29.00	P-110	13,622	2.0
BOPs								
Pressure Rating (10,000.0	(psi)		Nominal ID 13 5/8	(in)		Last BOP Tes 11/14/201		
Formation								
		Formation N	ame			Prog	Top MD (ftKB)	13,607.0
DEVONIAN							No. of the second second	13,007.0
Fluids, Disp								Deturned
	Item Des	Unit Labe	el	Received	Consumed	079.0	ım On Loc 10,646.0	Returned
RIG DIESEL		gal us			1,1	079.0	10,040.0	
Costs Sumn	nary							
Billing Category			Cost Des		Daily Field Es	st (Cost)	Cum Fld Est (Cost)	AFE Amt (Cost)
	D-Daywork	Contract				\$16,000	\$523,000	\$
210	D-Directions	al Drlg Services				\$4,200	\$175,300	\$
211	D-Fuel & Po	ower	The state of the s			\$2,375	\$94,093	\$
214	D-Mud & Ch	nemicals				\$4,426	\$91,271	\$
221	D-Float Equ	ip/Centlzr				\$59,500	\$90,280	\$
226	D-Company			A CONTRACTOR OF THE STATE OF TH		\$1,800	\$59,400	\$
227	D-Contract		r the state of the	- Per Chillips - Annual - Prince - Prin		\$3,200	\$105,600	\$
235	D-Rentals-S			ogramation (no encode de la		\$2,465	\$167,745	\$
237	THE RESERVE THE PARTY AND THE PARTY AND THE	Forklift/Rig Mobil				\$550	\$216,400	\$
LUI		Clsd Loop				\$2,750	\$193,705	\$



Date: 12/3/2016

DSS: 31.13

ate.	1 4	012	-01	0
Rep	ort	#:	34	.0

Well Name: ZIA AGI #2D

Proposed: <typ1>, <de <tvp1>, <d TD/MD, 14,750

TD/TVD, 14,750 TD/VS, 0

Lat: 32.643951 Long: -103.811116

Contractor: SCANDRILL Asset Group: DELAWARE BASIN #/Crew: FREEDOM Area: AGI

Rig Phone #: (432) 853-9909

County: LEA Prospect:

State: NM

\$901,845

Field Name: AGI API/UWI: 30-025-42207

Spud Date: 11/2/2016 03:00 Rig Release Date:

End Depth (ftKB): 13,622.0 End Depth (TVD) (ftKB): 13,619.2 24 Hr Progress (ft): 0.00

Permit #: Ground Elevation (ft): 3,547.00

Target Formation: DEVONIAN Drilling Hours (hr): Original KB Elevation (ft): 3,572.00 KB-Ground Distance (ft): 25.00

Model

F-1600

Total AFE Amount (Cost)

009612 Job AFE Amount (Cost)

Daily Field Est Total (Cost)

Cum Field Est To Date (Cost) \$3,505,509

Daily Activity from 12/2/2016 - 12/3/2016

AT 13,622 WASH CSG TO BOTTOM W/ CRT @ 13,501'.

Past 24 Hours Operation Summan

AT 13,622' CONTINUE RUNG 7" 32# V-110 VAMPTOP 7" 29# HCP-110 LT&C AND 7 5/8" TO 13,456', CIRC AND CONDITION MUD, WAIT ON NEW SET OF 7 5/8" CSG ELEVATERS, WASH AND REAM CSG TO BOTTOM F/ 13,456' TO 13,501'.

Operations Next Report Period

WASH 7" CSG TO BOTTOM F/ 13,501' TO 13,622', CIRC CSG ON BOTTOM, RIG UP SCHLUMBERGER LOGGING AND RUN CCL AND GAMMA LOGS, RIG UP HALLIBURTON AND CMT 7" & 7 5/8" CSG.

Accident Reported Incident Reported No CONTRACT DRLG FRMN, JOE HARRIS, ; CONTRACT DRLG FRMN, RONNIE DUNNAVANT. No

Start Time	End	Dur (hr)	End Depth (ftKB)	Sub-Activity	Com	NPT?
06:00	22:00	16.00	13,622	RUN CSG	AT 13,622' CONTINUE RUNG CSG RAN 62 JTS 7" 32# V-110 VAM TOP CSG, AND 259 JTS OF 7" 29# HCP-110 LT&C AND 7 JTS OF 7 5/8" 33.7# HCP-110 LT&C TOTAL JTS= 328, TP= 13,637.36', TOP OF DV TOOL @ 6,345.5', CENTRALIZERS 1,2,3, AND EVERY 5TH TOTAL OF 60.	No
22:00	04:00	6.00	13,622	C&C MUD	AT 13,456' CIRC AND CONDITION MUD, WORK CSG AND WAIT ON NEW SET OF 7 5/8" ELEVATERS.	No
04:00	06:00	2.00	13,622	WASH/CIRC TO BTM	AT 13,622' RIG UP CRT TOOL AND WASH CSG TO BOTTOM, START WASHING7" CSG TO BOTTOM F/ 13,456' -13,501'.	No

Bits &	BHAs								The second secon	
Bit Run	Size (in)	Make	Model	SN	Depth In (ft	Depth Out	Length (ft)	Job Drill Hr Job Circ Hr Avg RO	P (f Rot Time (hr) Slide Time	Nozzles (1/32")
BHA#		Min We	ight on Bit (100	Olbf) Max	Weight on Bit (100	00lbf) Min	RPM (rpm)	Max RPM (rpm)	Min Stand Pipe Pressure (ps) Max Stand Pipe Pressure (psi)
String Len	oth (ft)		-				Iv.	/eight of String in Air (1000lbf)		- X

Drill String Components OD (in) Len (ft) Cum Len (ft) Item Des

Drilling Parameters Interval ROP (ft/hr) Flow Rate (gpm) Drilling Time (hr) Cum Drilling Time (hr) Wellbore Start Depth (ftKB) End Depth (ftKB) Cum Depth Drilled (ft) Off Bottom Torque Weight on Bit (1000lbf) Stand Pipe Pressure (psi) Drill Str Wt (1000lbf) PU Str Wt (1000lbf) SO Str Wt (1000lbf) **Drilling Torque** RPM (rpm)

Hydraulic Calculations Percent of Pressure Drop at Bit (%) Bit Pressure Drop (psi) Bit Hydraulic Power Per Hole Area (hp/in²) Bit Jet Velocity (ft/s) Bit Hydraulic Power (hp) ECD End (lb/gal) Min Casing AV (ft/min) Min Open Hole AV (ft/min) Max Open Hole AV (ft/min) Max Casing AV (ft/min) Error

Pump Number

Time 12:00	Type Salt Base	Depth (ftKB) 13,622	Density (lb/gal) 9.5	Funnel Viscosity (s/qt) 42	PV Calc (cP) 9	YP Calc (lbf/100ft²) 11
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Filtrate (mL/30min) 13.6	Filter Cake (1/32")	рН 8.0	Solids (%) 5.4	Lime (lb/bbl) 0.08
Chlorides (mg/L) 53.000	WPS (mg/L)	Calcium (mg/L)	Electric Stab (V)	Pm (mL/mL) 0.050	Pf (mL/mL) 0.00	Percent Oil (%) 0.5
Oil Water Ratio 0.5/99.5	Flow Line Temperature (°F)	Vis 6rpm	Low Gravity Solids (%) 8.9	Magnesium (mg/L) 437.000	HTHP Filtrate (mL/30min)	HTHP Filter Cake (1/32" 2 ax H2S (ppm)

Max Background Gas Min Background Gas 1,951.00 1,951.00 0.00 565.00 Mud Additive Amounts

End Date

12/3/2016 06:00

Start Date

12/2/2016 06:00

uu Auullive Allioulis			The state of the s		
Des	Units	Rec	Consumed	On Loc	Returned

Pump Number	Start Date 12/2/2016 06:00	End Date 12/3/2016 06:0	0	Make Bomco	Model F-1600
Action Type Triplex			Liner Size (in) 5 1/2		
Pressure (psi) 800.0	Strokes (spm) 73	Stroke Length (in) 12.00		Volumetric Efficiency (%) 95	Flow Rate (gpm) 257

Make

Bomco



Date: 12/3/2016

Report #: 34.0

DSS: 31.13 Lat: 32.643951 Long: -103.811116

Well Name: ZIA AGI #2D

Proposed:

					Lat. 32.043331 L	ong103.011110		
Formation	1							
		Formation Name	·		Prog Top MD (ftKB)	The transfer of the same of th		
DEVONIA	N			13,607.00				
Fluids, Dis	sposal and V	Vater						
	ply Item Des	Unit Label	Received	Consumed Cum On Loc		Returned		
POTABLE	WATER	GAL	, , ,	6,300.0	-18,900.0			
RIG DIESE	EL	gal us		753.0	9,893.0			
Costs Sun	nmary							
Billing Category	Cost Des		Daily Field Est (Cost)	Cum Fld Est (Cost)	AFE Amt (Cost)			
209	D-Daywork	Contract		\$16,000	\$539,000	\$0		
210	D-Direction	al Drlg Services		\$4,200	\$179,500	\$0		
211	D-Fuel & P	ower		\$1,660	\$95,753	\$0		
212	D-Water		a transcenti di dipenganbibian spesitiva d	\$1,350	\$30,610	\$0		
214	D-Mud & C	hemicals		\$160	\$91,431	\$0		
226	D-Compan			\$1,800	\$61,200	\$0		
227	D-Contract			\$3,200	\$108,800	\$0		
235	D-Rentals-	Surface		\$2,800	\$170,545	\$0		
236	D-Rentals-	Subsrfc		\$925	\$57,990	\$0		
244	D-Envmntl/	Clsd Loop		\$2,750	\$196,455	\$0		
403	D-Production	on Casing/Liner		\$867,000	\$867,000	\$0		



Date: 12/4/2016

Report #: 35.0 DSS: 32.13

veli Nam	e: ZIA AGI	#20				DOC: 02110
oposed:	<typ1>, <de< th=""><th><typ1>, <d< th=""><th>TD/MD, 14,750</th><th>TD/TVD, 14,750</th><th>TD/VS, 0</th><th>Lat: 32.643951 Long: -103.811116</th></d<></typ1></th></de<></typ1>	<typ1>, <d< th=""><th>TD/MD, 14,750</th><th>TD/TVD, 14,750</th><th>TD/VS, 0</th><th>Lat: 32.643951 Long: -103.811116</th></d<></typ1>	TD/MD, 14,750	TD/TVD, 14,750	TD/VS, 0	Lat: 32.643951 Long: -103.811116

Contractor: SCANDRILL Asset Group: DELAWARE BASIN

County: LEA

Spud Date: 11/2/2016 03:00 Rig Release Date: Target Formation: DEVONIAN #/Crew: FREEDOM Area: AGI

State: NM End Depth (ftKB): 13,622.0 End Depth (TVD) (ftKB): 13,619.2

24 Hr Progress (ft): 0.00 Drilling Hours (hr):

Rig Phone #: (432) 853-9909

Field Name: AGI API/UWI: 30-025-42207

Permit #:

Ground Elevation (ft): 3,547.00 Original KB Elevation (ft): 3,572.00 KB-Ground Distance (ft): 25.00

Len (ft)

Total AFE Amount (Cost)

AFE Number 009612 Job AFE Amount (Cost)

Prospect:

Daily Field Est Total (Cost) \$161,416

Cum Field Est To Date (Cost)

\$3,666,925

Daily Activity from 12/3/2016 - 12/4/2016

Operations at Report Time

AT 13,622' CIRC DV TOOL AND MIX WELL LOCK RESIN FOR 2ND STAGE CMT JOB.

Past 24 Hours Operation Summary
AT 13,622' CONTINUE TO WASH 7" CSG TO BOTTOM F/ 13,501' TO 13,622', CIRC AND CONDITION MUD W/ CSG ON BOTTOM, RU SCHLUMBERGER
AND RUN CCL AND GAMMA LOGS, CHANGE OUT JT OF 7 5/8" CSG, RD FRANKS LD, TORQUE TURN AND CHROME PIPE TOOLS, RU AND CMT 1ST
STAGE AND SET ECP PACKER, CIRC ON DV TOOL, AND MIX STAGE 2 WELLLOCK RESIN, PLUG DOWN @ 21:52 MST, CIRC SX 128 SX.

Operations Next Report Period

Time Log

CONTINUE TO CIRC DV TOOL AND MIX WELL LOCK RESIN, CMT 7" PRODUCTION CSG, 2ND STAGE, ND AND SET SLIPS, NIPPLE UP, AND TEST BOP.

Incident Reported Accident Reported Daily Contacts CONTRACT DRLG FRMN, JOE HARRIS, ; CONTRACT DRLG FRMN, RONNIE DUNNAVANT, No No

Item Des

Start Time	End Time	Dur (hr)	End Depth (ftKB)	Sub-Activity	Com	NPT?
06:00	07:00	1.00		CIRC CSG CAP/BTMS UP	AT 13,622' CONTINUE WASING CSG TO BOTTOM F/ 13,501' - 13,622'. RAN 62 JTS 7" 32# V-110 VAM TOP CSG, AND 259 JTS OF 7" 29# HCP-110 LT&C AND 7 JTS OF 7 5/8" 33.7# HCP-110 LT&C TOTAL JTS= 328, TP= 13,637.36', SET @ 13,622', TOP OF DV TOOL @ 6,345.5', CENTRALIZERS 1,2,3, AND EVERY 5TH TOTAL OF 60.	No
07:00	10:00	3.00	13,622	CIRC CSG CAP/BTMS UP	AT 13,622' CONDITION MUD AND CIRC TO RUN SCHLUMBERGER CCL AND GAMMA LOGS.	No
10:00	14:30	4.50	13,622	LOGGING	AT 13,622' PJSM W/ SCHLUMBERGER LOGGING AND RUN CCL AND GAMMA LOGS, AND RD.	No
14:30	15:00	0.50	13,622	RUN CSG	LD 1 JT OF 7 5/8" CSG W/ SC COLLAR AND PU 1 JT OF 7 5/8" W/ STANDARD 7" LT&C COLLAR.	No
15:00	19:00	4.00	13,622	C&C MUD	CIRC W/ CSG ON BOTTOM, RD LD MACHINE, TORQUE TURN, AND ALL CHROME PIPE TOOLS.	No
19:00	00:00	5.00	13,622	СМТ	PJSM W/ HALLIBURTON RIG UP AND CMT 1ST STAGE AS FOLLOWES: TEST LINES TO 6000 PSI PUMP 50 BBLS TUNED SPACER FOLLOWED BY 770 SX OF TUNED LIGHT BLEND @ 11.5 PPG 2.1 YEILD, SHUT DOWN DROP BOTTOM PLUG THEN PUMP 20 BBLS OF WELL LOCK RESIN, DROP TOP PLUG AND DISPLACE W/ 290 BBLS FW AND 214 BBLS MUD, TOTAL DISPLACEMENT= 504 BBLS, BUMP PLUG @ 2,713 PSI @ 21:52 MST ON 12/3/2016, PRESSURE UP TO 4,130 PSI SET ECP, DROP BOMB AND WAIT 45 MIN TO OPEN DV TOOL CIRC 49 BBLS, 131 SX TO PIT.	No
00:00	06:00	6.00	13,622	CIRC DV TOOL	AT 13,622' CONTINUE TO CIRC THROUGH DV TOOL AND MIX WELL LOCK RESIN FOR 2ND STAGE CMT JOB.	No

Bit Run	Size (in)	Make	Model	SN	Depth In (ft	Depth C	out Length (ft) Job Drill Hr	Job Circ Hr Avg	ROP (f Rot T	Time (hr)	Slide Time	Nozzles (1/32")
BHA#		Min W	eight on Bit (100	Olbf)	Max Weight on Bit (100	OOIbf)	Min RPM (rpm)		Max RPM (rpm)	Min S	tand Pipe	e Pressure (psi) Max Stand Pipe Pressure (psi)
String Len	gth (ft)							Weight of String	in Air (1000lbf)				
Drill Str	ing Comp	onents											

OD (in)

Drilling Paramete	rs					Tu 1000 (61-1)	Flow Rate (gpm)
Wellbore	Start Depth (ftKB)	End Depth (ftKB)	Cum Depth Drilled (ft)	Drilling Time (hr)	Cum Drilling Time (hr)	Interval ROP (ft/hr)	Plow Rate (gpin)
			V. T.		SO Str Wt (1000lbf)	Drilling Torque	Off Bottom Torque
Weight on Bit (1000lbf)	RPM (rpm)	Stand Pipe Pressure (psi)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str VVt (1000ibi)	Drining rorque	On Bottom rorque

Hydraulic Calculations Bit Hydraulic Power (hp)	Bit Hydraulic Power Per Hole Area (hp/in²)	Bit Jet Velocity (ft/s)	Bit Pressure Drop (psi)	Percent of Pressure Drop at Bit (%)
Max Casing AV (ft/min)	Max Open Hole AV (ft/min)	Min Casing AV (ft/min)	Min Open Hole AV (ft/min)	ECD End (lb/gal)
Error		1		

Mud Properties					Investor of	YP Calc (lbf/100ft²)
Time 16:00	Type Salt Base	Depth (ftKB) 13.622	Density (lb/gal) 9.5	Funnel Viscosity (s/qt) 42	PV Calc (cP) 10	12
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Filtrate (mL/30min) 8.4	Filter Cake (1/32")	рН 10.0	Solids (%) 5.0	Lime (lb/bbl) 0.04
Chlorides (mg/L)	WPS (mg/L)	Calcium (mg/L)	Electric Stab (V)	Pm (mL/mL) 0.600	Pf (mL/mL) 0.45	Percent Oil (%) 0.5
Oil Water Ratio	Flow Line Temperature (°F)	Vis 6rpm	Low Gravity Solids (%) 8.6	Magnesium (mg/L) 219.000	HTHP Filtrate (mL/30min)	HTHP Filter Cake (1/32")



Date: 12/4/2016

Report #: 35.0 DSS: 32.13

Lat: 32.643951 Long: -103.811116

Well Name: ZIA AGI #2D

Proposed: Volumetric Efficiency (%) Flow Rate (gpm) Pressure (psi) Strokes (spm) Stroke Length (in) 95 12.00 73 Pump # 2, Triplex End Date Make Model Start Date Pump Number F-1600 12/4/2016 06:00 12/3/2016 06:00 Bomco Liner Size (in) 5 1/2 Action Type Triplex Flow Rate (gpm) 264 Volumetric Efficiency (%) Stroke Length (in) Strokes (spm) Pressure (psi) 400.0 12.00 75 Survey Data EW (ft) DLS (°/100ft) NS (ft) TVD (ftKB) VS (ft) MD (ftKB) Incl (°) 70.00 0.00 53.17 13,619.24 87.91 13,622.00 3.00 47.00 **Casing Strings** Set Depth (ftKB) FIT (psi) Shoe Joint Volume (lb/ft) Grade OD (in) Csg Des 30 118.52 A53 120.0 Conductor 20 106.50 J-55 826.0 Surface 13 3/8 61.00 J-55 2,555.5 Intermediate 9 5/8 2,811.6 40.00 N-80 4,696.0 Intermediate 29.00 P-110 13,622.0 Production BOPs Last BOP Test Date Nominal ID (in) Pressure Rating (psi) 11/14/2016 13 5/8 10,000.0 Formation Prog Top MD (ftKB) Formation Name 13,607.00 DEVONIAN Fluids, Disposal and Water Cum On Loc Returned Supply Item Des Consumed Unit Label -48.0 9.0 MUD/SOLIDS/CMT LOAD

Billing	Cost Des	Daily Field Est (Cost)	Cum Fld Est (Cost)	AFE Amt (Cost)
Costs Summary				
STANDBY TRUCKING	HRS	21.0	-58.5	
RIG DIESEL	gal us	1,084.0	8,809.0	
DISPOSAL				

Billing Category	Cost Des	Daily Field Est (Cost)	Cum Fld Est (Cost)	AFE Amt (Cost)
209	D-Daywork Contract	\$16,000	\$555,000	\$0
210	D-Directional Drlg Services	\$4,200	\$183,700	\$0
211	D-Fuel & Power	\$2,390	\$98,143	\$0
214	D-Mud & Chemicals	\$7,861	\$99,292	\$0
222	D-Csq Crews & Equip	\$78,750	\$129,760	\$0
226	D-Company Sprvsn	\$1,800	\$63,000	\$0
227	D-Contract Sprvsn	\$3,200	\$112,000	\$0
230	D-Logging D-Logging	\$15,500	\$133,150	\$0
235	D-Rentals-Surface	\$2,465	\$173,010	\$0
236	D-Rentals-Subsrfc	\$325	\$58,315	\$0
237	D-Trucking/Forklift/Rig Mobil	\$23,025	\$239,425	\$0
244	D-Envmntl/Clsd Loop	\$5,900	\$202,355	\$0



Morning Report

Company: GEOLEX INCORPORATED							Date: 12/4/2016 Day: 2					0
Well Name: ZIA AC	H D2						Prepared by: NOSA OGIAMIEN					
Current Operations: CONTINUE CIRCULATING WHILE MIX 2ND STAGE CEMENTING			XING CEMENT	FOR Unit	Phone Nur	nber:	er: 432-770-6505; 432-557-0051					
ГD: <u>13622</u>			Time: 0	4:30 H	RS		orill Rate:		0	Min/Ft	0	Ft/Hr
Current BGG: 33u @						N/A	Trip	Gas:	3860U @	Survey/DT	Gas: N/A	
Current Lag Time @		13622		۷=	71.	2 N	linutes	or			9255 Lag	Stroke
Made 0												-
Lithology (Last Sampl						ast Previous Cha	nge @:					
	0/0						% _					
	- % -	the state of the s					— % —					
			and the second second					***				
Show/Drilling Breaks Interval		ROP	Lithol	ogv	Ga	as %	Fluorescen	ce	Cu	t	Porosit	V
-			Ziaiy	-65		28						
_												
-												
Coo												
Gas Current BGG: 33u		Max Last 24 h	nrs: 3860u	-	Conn Gas: N	J/A	Trip Gas:		3860u	Survey/DT	Gas: N/A	-,
C-1 9u	%	C-1	2361	%	C-1	%		236		C-1		%
C-2		C-2	700u	%	C-2	%			0u %	C-2		%
C-3 I-C-4		C-3 1-C-4	487u 0u	%	C-3 1-C-4	%		48	/u %	C-3 1-C-4		%
-C-4 V-C-4		N-C-4	ou	%	N-C-4		N-C-4			N-C-4		%
Correlations: Top of	f DEV	ONIAN			(D. 13617			٠, -			
We are	_	OTHER.				high/low to						
Top of	-	~~~				0			٠,-	ano.		
We are	e					high/low to						
Expecting Top of:					(0						
Drilling Conditions:												
@ <u>13622</u>		@ 13633			Trip: 100			Hrs	3.00	Deviati		
HOB NA WOB NA		WT 9.35 vis 42			@ 13622 Reason: RII	NNING 7 INCH (CASING		1.2		13501	
RPM NA	-10	pH 9.5			reason. Re	THE PROPERTY OF THE PARTY OF TH	07101110	-	0.70	° (a)	13456	
PP 210		CL N/A			NB#:				0.4	° (a),	13396	
SPM 70		WL 9			Type:				1.10	° @	13302	
Driller's Log												
Γime 04	:30-18:0	0	Operation			ING CASING-C						V
18	:00-00:0	0		C	ONDITION MU	UMBERGER-RU D AND CIRC TH	IRU CRT-H	HOLDS	SM W HALLI	BURTON-R	D CRT-INSTA	ALL
10	.00 00.0					CEMEN	T HEADPE	RIMAR	Y CEMENTI	NG-		
00	:00-04:3	0			CONTINUE CI	RCULATING W	HILE MIX	ING CE	EMENT FOR	2ND STAGE	CEMENTING	G
Law Marketon Control				-				-				-
	TOTA	I CAC			CALIBRATI	ONS			CHROM	ATOGRAPH		
Calibrations		L GAS Combustion			Thermal Cor				CINCON			
Calibrations:		lethane			10% Metha	nne		Di		Sec.	%	
			7		0.000	000.000	-	C.		5-30.5 5-56.5	1.000	
Ca	1% M	100.000		ITS			+	C		7-102	1.000	
Caunits 0.	1% M	100.000	ur		-0.666mV 1	4 / 1 (/II) V						
units 0.volts -0.66	1% M 000 66mV	4.644mV			-0.666mV 1 before	4.210mV after		C.		8-186.8	1.000	
units 0.volts -0.66	1% M					A		C- NC		8-186.8	1.000	
units 0.0 volts -0.66 be	1% M 000 66mV fore	4.644mV	vo			A						time
units 0. volts -0.66 be	1% M 000 66mV fore	4.644mV after	vo		before	after GREEN	ngs:			3-265.5		_ time
units 0.volts -0.66	1% M 000 66mV fore	4.644mV after	vo		Chi Cai	GREEN romatograph Setti rier Air Pressure				3-265.5		ps
units volts 0. volts -0.66 be Filament Change: typ Gas Trap: Rig Air Motor Transfer Time	1% M 000 66mV efore ELEC 1.00 M	4.644mV after META TRIC MIN	vo		Chi Cai	GREEN romatograph Setti				3-265.5		_ time
units volts 0. volts -0.66 be Filament Change: typ Gas Trap: Rig Air Motor	1% M 000 66mV fore ELEC	4.644mV after META TRIC MIN	vo		Chi Cai	GREEN romatograph Setti rier Air Pressure	8.03			3-265.5 METAL	1.000	ps



Date: 12/5/2016

Report #: 36.0 DSS: 33.13 Well Name: ZIA AGI #2D Lat: 32.643951 Long: -103.811116 TD/TVD, 14,750 TD/VS. 0 <typ1>, <d TD/MD, 14,750 Proposed: <typ1>, <de Rig Phone #: (432) 853-9909 #/Crew: FREEDOM Contractor: SCANDRILL Field Name: AGI Area: AGI Asset Group: DELAWARE BASIN API/UWI: 30-025-42207 State: NM County: LEA Permit #: End Depth (ftKB): 13,622.0 Prospect: Ground Elevation (ft): 3,547.00 End Depth (TVD) (ftKB): 13,619.2 Spud Date: 11/2/2016 03:00 Original KB Elevation (ft): 3,572.00 24 Hr Progress (ft): 0.00 Rig Release Date: KB-Ground Distance (ft): 25.00 Target Formation: DEVONIAN Drilling Hours (hr): Total AFE Amount (Cost) 009612 Daily Field Est Total (Cost) \$516,633 Cum Field Est To Date (Cost) Job AFE Amount (Cost) \$4,183,558 Daily Activity from 12/4/2016 - 12/5/2016 Operations at Report Time AT 13,622' TEST 13 5/8" 10K BOP. Past 24 Hours Operation Summary
AT 13,622' CONTINUE TO CIRC DV TOOL AND MIX WELL LOCK RESIN, PUMP 2ND STAGE OF CMT, WOC, SET SLIPS, CUT OFF 7 5/8" CSG AND DRESS,
AT 13,622' CONTINUE TO CIRC DV TOOL AND MIX WELL LOCK RESIN, PUMP 2ND STAGE OF CMT, WOC, SET SLIPS, CUT OFF 7 5/8" CSG AND DRESS, NU 11" 10M X 7-1/16" 5M TUBBING HEAD ASSEMBLY AND 13 5/8" 10K BOP, CHANGE PIPE RAMS TO 4" AND TEST BOP Operations Next Report Period CONTINUE TESTING 13 5/8" 10K BOP, TEST CSG, PU/MU 4" DC'S AND DRILL PIPE, DRILL DV TOOL, FLOAT EQUIPMENT. Accident Reported Daily Contac CONTRACT DRLG FRMN, JOE HARRIS, ; CONTRACT DRLG FRMN, RONNIE DUNNAVANT Incident Reported No No Time Log NPT? End Depth Com Start End Sub-Activity Dur (hr) AT 13,622' CONTINUE TO CIRC DV TOOL AND MIX WELL LOCK RESIN. No CIRC DV TOOL 3.00 13,622 06:00 09:00 PJSM W/ HALLIBURTON AND CMT 2ND STAGE AS FOLLOWES: TEST LINES TO 6000 No 13,622 CMT PSI, PUMP 50 BBLS TUNED SPACER @ 10.6 PPG PUMP LEAD OF 420 SX OF TUNED 09:00 11:00 2.00 LIGHT BLEND @ 11.5 PPG 2.1 YEILD, DROP BOTTOM PLUG, PUMP TAIL CMT OF 80 BBLS OF WELL LOCK RESIN @ 12.0 PPG, DROP TOP PLUG AND DISPLACE WI 238 BBLS FW, PLUG DOWN @ 10:47 MST ON 12/4/2016, PSI UP TO 4300 PSI CLOSE DV TOOL, CIRC 35 BBLS 93 SX CMT TO PIT, WELL IS STATIC. WOC, PJSM W/ BATTLE NU CREW, RIG UP WENCHES AND ND AND HANG STACK No 13,622 SET SLIPS/CUT 15:00 4.00 11:00 AND SET SLIPS W/ 210,000. CSG/CNDCTR No CUT OFF 7 5/8" CSG AND DRESS. SET SLIPS/CUT 2.00 13,622 15:00 17:00 CSG/CNDCTR NU 11' 10M X 7 1/16" 5M TUBBING HEAD ASSEMBLY AND TEST TO 5000 PSI. No WELD ON/INSTALL WH 19:30 2.50 13.622 17:00 NU 13 5/8" 10K BOP, CHOKE, AND CHANGE FROM 5" TO 4" PIPE RAMS No 13.622 NU BOP RIG UP BATTLE TESTING AND TEST 13 5/8" 10K BOP AND CHOKE, TEST PIPE, BLIND 7.50 19:30 03:00 No RAMS, HCR, 4" MANUEL, KILL SIDE VALVES AND ALL CHOKE MANIFOLD VALVES, 13,622 3.00 TEST BOP EQUIP 06:00 03:00 FLOOR VALVES 5000 HI 250 LOW, TEST TOP DRIVE, MUDLINES TO PUMPS, 5000 HI 250 LOW TEST ANNULER TO 2500 PSI. Bits & BHAs Nozzles (1/32") Avg ROP (f. Rot Time (hr) Slide Time. Job Drill Hr ... Job Circ Hr .. Depth In (ft... Depth Out... Length (ft) SN Make Model Bit Run Size (in) Max Stand Pipe Pressure (psi) Min Stand Pipe Pressure (psi) Max RPM (rpm) Min RPM (rpm) Max Weight on Bit (1000lbf) Min Weight on Bit (1000lbf) BHA# Weight of String in Air (1000lbf) String Length (ft) **Drill String Components** Cum Len (ft) Len (ft) OD (in) Item Des **Drilling Parameters** Interval ROP (ft/hr) Flow Rate (gpm) Cum Drilling Time (hr) Drilling Time (hr) Cum Depth Drilled (ft) End Depth (ftKB) Wellbore Start Depth (ftKB) Off Bottom Torque SO Str Wt (1000lbf) Drilling Torque PU Str Wt (1000lbf) Drill Str Wt (1000lbf) Stand Pipe Pressure (psi) Weight on Bit (1000lbf) RPM (rpm) **Hydraulic Calculations** Percent of Pressure Drop at Bit (%) Bit Pressure Drop (psi) Bit Jet Velocity (ft/s) Bit Hydraulic Power Per Hole Area (hp/in²) Bit Hydraulic Power (hp) ECD End (lb/gal) Min Open Hole AV (ft/min) Min Casing AV (ft/min) Max Open Hole AV (ft/min) Max Casing AV (ft/min) **Mud Properties** YP Calc (lbf/100ft²) PV Calc (cP) Funnel Viscosity (s/qt) Density (lb/gal) Depth (ftKB) Time 28 8.3 Water Base 13,622 10:45 Lime (lb/bbl) Solids (%) pH 7.0 Filter Cake (1/32") Filtrate (mL/30min) Gel 10 min (lbf/100ft²) Gel 10 sec (lbf/100ft2) 0.0 Percent Oil (%) Pf (mL/mL) Pm (mL/mL) Electric Stab (V) Calcium (mg/L) 0.0 WPS (mg/L) 0.00 Chlorides (mg/L) 400 HTHP Filter Cake (1/32") HTHP Filtrate (mL/30min) Magnesium (mg/L) Low Gravity Solids (%) Flow Line Temperature (°F) Vis 6rpm Oil Water Ratio 0/100 Max H2S (ppm) Max Trip Gas 10.00 Max Connection Gas Min Connection Gas Max Background Gas Min Background Gas 0.00 0.00 10.00 10.00 **Mud Additive Amounts** Returned On Loc Consumed Rec

Units

Des



Date: 12/5/2016 Report #: 36.0

DSS: 33.13

Lat: 32.643951 Long: -103.811116

Well Name: ZIA AGI #2D

Proposed:

Casing Strings FIT (psi) Set Depth (ftKB) Grade Shoe Joint Volume (lb/ft) OD (in) 2,811.6 Csg Des 4,696.0 40.00 N-80 9 5/8 Intermediate 13,622.0 29.00 P-110 Production BOPs Last BOP Test Date 11/14/2016 Nominal ID (in) 13 5/8 Pressure Rating (psi) 10,000.0 Formation Prog Top MD (ftKB) Formation Name 13,607.00 DEVONIAN Fluids, Disposal and Water Returned Cum On Loc Consumed Received Unit Label Supply Item Des -49.0 1.0 BIN **CUTTINGS BIN** -33.0 4.0 LOAD FRESH WATER -20.5 8.5 HRS JET PITS/WORK ON LOCATION 13.0 -61.0 MUD/SOLIDS/CMT LOAD DISPOSAL 7,927.0 882.0 RIG DIESEL gal us

RIG DIESE	L gal us			
Costs Sum	nmary			
Billing	Cost Des	Daily Field Est (Cost)	Cum Fld Est (Cost)	AFE Amt (Cost)
Category		\$16,000	\$571,000	\$0
209	D-Daywork Contract	\$4,200	\$187,900	\$0
210	D-Directional Drlg Services	\$1,945	\$100,088	\$0
211	D-Fuel & Power		\$32,010	\$0
212	D-Water	\$1,400		\$0
	D-Mud & Chemicals	\$160	\$99,452	
214		\$451,500	\$451,500	\$0
219	D-Cement 2nd Intermediate	\$5,500	\$95,780	\$0
221	D-Float Equip/Centizr	\$1,800	\$64,800	\$0
226	D-Company Sprvsn	\$3,200	\$115,200	\$0
227	D-Contract Sprvsn		\$175,475	\$0
235	D-Rentals-Surface	\$2,465		\$0
		\$325	\$58,640	The second secon
236	D-Rentals-Subsrfc	\$638	\$240,063	\$(
237	D-Trucking/Forklift/Rig Mobil	\$8,400	\$210,755	\$(
244	D-Envmntl/Clsd Loop	\$19,100	\$65,400	\$6
405	D-Wellhead Equip	\$19,100	\$00,100	The second secon



Date: 12/6/2016

Report #: 37.0 DSS: 34.13

Well Name: Z	IA AGI #2D
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<typ1>, <d TD/MD, 14,750 Proposed: <typ1>, <de #/Crew: FREEDOM

TD/TVD, 14,750 TD/VS, 0

Lat: 32.643951 Long: -103.811116

Contractor: SCANDRILL

Area: AGI State: NM Rig Phone #: (432) 853-9909 Field Name: AGI API/UWI: 30-025-42207

Asset Group: DELAWARE BASIN County: LEA

End Depth (ftKB): 13,622.0 End Depth (TVD) (ftKB): 13,619.2

Permit #: Ground Elevation (ft): 3,547.00

Spud Date: 11/2/2016 03:00 Rig Release Date:

24 Hr Progress (ft): 0.00

Original KB Elevation (ft): 3,572.00

Target Formation: DEVONIAN

Drilling Hours (hr):

KB-Ground Distance (ft): 25.00

Prospect:

Total AFE Amount (Cost)

009612 Job AFE Amount (Cost)

Daily Field Est Total (Cost) \$63,290

Cum Field Est To Date (Cost)

\$4,079,848

Daily Activity from 12/5/2016 - 12/6/2016

Operations at Report Time AT 13,622' DRILL CMT, AND DV TOOL @ 6,345'.

Past 24 Hours Operation Summary
FINISH TESTING BOP, STRAP AND CALIPER BHA, RIG UP LD MACHINE AND PU DC'S AND DRILL PIPE, CSG TEST, DRILL CMT AND DVTOOL F/ 6,390' - 6,345

Operations Next Report Period DRILL DIPE, TEST SCH, TOH, RUN CBL, TIH, DRILL FLOAT EQUIPMENT, DRILL 6" HOLE AND PERFORM FIT TEST.

Accident Reported Incident Reported No

Daily Contacts
CONTRACT DRLG FRMN, JOE HARRIS, ; CONTRACT DRLG FRMN, RONNIE DUNNAVANT,

-5	
ime	OC

.og					
End Time	Dur (hr)	End Depth (ftKB)	Sub-Activity	Com	NPT?
13:00	7.00	13,622	TEST BOP EQUIP	TEST 13 5/8" 10K BOP AND CHOKE, TEST PIPE, BLIND RAMS, HCR, 4 MANUEL, KILL SIDE VALVES AND ALL CHOKE MANIFOLD VALVES, FLOOR VALVES 5000 HI 250 LOW, TEST TOP DRIVE, MUDLINES TO PUMPS, 5000 HI 250 LOW TEST ANNULAR TO 2500 PSI.	
45.00	2.00	12 622	INSPECT BHA	RIG UP 4" TOOLS, STRAP AND CALIPER BHA.	No
15:00	2.00			THE ANNUAL PROPERTY PICTURE AND PILET BIT SUB DO'S AND DRILL PIPE F	No
02:30	11.50	13,622	PU DP, DC, HWDP	SURFACE TO 6.288', FILLING EVERY 90 JTS.	
				THE PURE PREAK CIPC AND TEST CSC 1000 PSI FOR 30 MIN W/ RIG PUMP	No
04:00	1.50	13,622	TEST CSG	87# LEAK OFF	
				TAG @ C 2001 AND DRILL CMT PLUGS AND DV TOOL F/ 6 290' - 6 345' , DV TOOL @	No
06:00	2.00	13,622	D/O CMT/ FLT EQUIP	6,345'.	
	End Time 13:00 15:00 02:30 04:00	End Time Dur (hr) 13:00 7.00 15:00 2.00 02:30 11.50 04:00 1.50	End Time Dur (hr) End Depth (ftKB) 13:00 7.00 13,622 15:00 2.00 13,622 02:30 11.50 13,622 04:00 1.50 13,622	End Time Dur (hr) End Depth (ftKB) Sub-Activity 13:00 7.00 13,622 TEST BOP EQUIP 15:00 2.00 13,622 INSPECT BHA 02:30 11.50 13,622 PU DP, DC, HWDP 04:00 1.50 13,622 TEST CSG	13:00 7.00 13,622 TEST BOP EQUIP TEST 13 5/8" 10K BOP AND CHOKE, TEST PIPE, BLIND RAMS, HCR, 4" MANUEL, KILL SIDE VALVES AND ALL CHOKE MANIFOLD VALVES, FLOOR VALVES 5000 HI 250 LOW, TEST TOP DRIVE, MUDLINES TO PUMPS, 5000 HI 250 LOW TEST ANNULAR TO 2500 PSI. 15:00 2:00 13,622 INSPECT BHA RIG UP 4" TOOLS, STRAP AND CALIPER BHA. PJSM W/ FRANKS LD CREW RIG UP AND PU BIT, BIT SUB, DC'S AND DRILL PIPE F/ SURFACE TO 6,288' , FILLING EVERY 90 JTS. AT 6,275" FILL PIPE, BREAK CIRC AND TEST CSG 1000 PSI FOR 30 MIN W/ RIG PUMP 87# LEAK OFF. TAG @ 6,290' AND DRILL CMT, PLUGS AND DV TOOL F/ 6,290' - 6 345', DV TOOL @

Bits	&	BI	H	As
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Bit Run 13	Size (in)	Make BAKER HUG	Model STX-30	5246093	Depth In (ft 13,622.0	Depth Out 13,622.	Length (f 0 0.50	Job Drill Hr Job Circ Hr			20/20/20
BHA#	19		nt on Bit (1000		eight on Bit (10	The state of the s	in RPM (rpm)	Max RPM (rpm) 50	Stand Pipe 030.0	Pressure (psi)	Max Stand Pipe Pressure (psi) 1,030.0
String Leng		110	**	1.19				Weight of String in Air (1000lbf)			

0,01	1.40	
Drill	String	Components

II String C	omponents	OD (in)	Len (ft)	Cum Len (ft)
Jts	Item Des	OD (iii) 4	5,458.04	6,371.48
	DRILL PIPE	4 3/4	152.81	913.44
5	Drill Collar	4 3/4	29.79	760.63
100	Jars	4 3/4	727.48	730.84
24	Drill Collar	4 3/4	2.86	3.36
1	Bit Sub	4 374		

and the selection	_	-	_	_	_	_
Drillin	ng	Pa	ra	me	te	rs

Drilling Paramete	rs	- Augustus		In an Indian	Cum Drilling Time (hr)	Interval ROP (ft/hr)	Flow Rate (gpm)
Wellbore	Silbore Contract of the contra	End Depth (ftKB)	Cum Depth Drilled (ft)	Drilling Time (hr)	Culti Drining Time (Tir)	Interval (1977)	300
Original Hole	13,622.0	13,622.0		Tall of the (4000lb)	SO Str Wt (1000lbf)	Drilling Torque	Off Bottom Torque
Weight on Bit (1000lbf)	RPM (rpm) 50	Stand Pipe Pressure (psi) 1,030.0	Drill Str Wt (1000lbf) 145	PU Str Wt (1000lbf) 148	140	2,000.0	1,000.0

Hudraulic Calculations

Hydraulic Calculations		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Bit Pressure Drop (psi)	Percent of Pressure Drop at Bit (%)
Bit Hydraulic Power (hp)	Bit Hydraulic Power Per Hole Area (hp/in²)	Bit Jet Velocity (ft/s)	82.2	8
14.4	0.5		Min Open Hole AV (ft/min)	ECD End (lb/gal)
Max Casing AV (ft/min)	Max Open Hole AV (ft/min)	Min Casing AV (ft/min) 247.0	0.0	8.33
506.2	0.0	1247.0		

Error

Mud Properties			The second of	Funnel Viscosity (s/qt)	PV Calc (cP)	YP Calc (lbf/100ft²)
Time	Type Water Base	Depth (ftKB) 13.622	Density (lb/gal) 8.3	28	(
10:30			Filter Cake (1/32")	Ha	Solids (%)	Lime (lb/bbl)
Gel 10 sec (lbf/100ft²) Gel 10 min (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Filtrate (mL/30min)	Filler Cake (1702)	7.0	0.0	
					Pf (mL/mL)	Percent Oil (%)
Chlorides (mg/L)	WPS (mg/L)	Calcium (mg/L)	Electric Stab (V)	Pm (mL/mL)	0.00	0.0
700					HTHP Filtrate (mL/30min)	HTHP Filter Cake (1/32"
Oil Water Ratio	Flow Line Temperature (°F)	Vis 6rpm	Low Gravity Solids (%)	Magnesium (mg/L)	FIRE Filiate (IIIDSUIIII)	Title Timbi Gang (1192
0/100			To a		Trin Gas N	lax H2S (ppm)

Max Connection Gas Min Connection Gas Max Background Gas 100.00 0.00 Min Background Gas 0.00 0.00 **Mud Additive Amounts** Returned On Loc Consumed Units

Pump # 1, Triplex Pump Number

Start Date

End Date 1612016 06:00 Make

Model F-1600



Date: 12/6/2016

Report #: 37.0 DSS: 34.13

Lat: 32.643951 Long: -103.811116

Well Name: ZIA AGI #2D

Proposed:

Casing Strings					
Csg Des	OD (in)	Shoe Joint Volume (lb/ft)	Grade	Set Depth (ftKB)	FIT (psi)
Intermediate	13 3/8	61.00	J-55	2,555.5	
Intermediate	9 5/8	40.00	N-80	4,696.0	2,811.6
Production	7	29.00	P-110	13,622.0	
DAR.	The state of the s				

Last BOP Test Date 11/14/2016 Pressure Rating (psi) 10,000.0 Nominal ID (in) 13 5/8

Formation

Prog Top MD (ftKB) Formation Name 13,607.00 DEVONIAN Fluide Disnosal and Water

Supply Item Des	Unit Label	Received	Consumed	Cum On Loc	Returned
RIG DIESEL	gal us	7,000.0	879.0	14,048.0	

Billing Category	Cost Des	Daily Field Est (Cost)	Cum Fld Est (Cost)	AFE Amt (Cost)
209	D-Daywork Contract	\$16,000	\$587,000	\$0
210	D-Directional Drlg Services	\$4,200	\$192,100	\$0
211	D-Fuel & Power	\$1,990	\$102,078	\$0
213	D-Bits	\$7,600	\$82,600	\$0
214	D-Mud & Chemicals	\$160	\$99,612	\$0
226	D-Company Sprvsn	\$1,800	\$66,600	\$0
227	D-Contract Sprvsn	\$3,200	\$118,400	\$0
235	D-Rentals-Surface	\$14,065	\$189,540	\$0
236	D-Rentals-Subsrfc	\$9,275	\$67,915	\$0
237	D-Trucking/Forklift/Rig Mobil	\$2,250	\$242,313	\$0
244	D-Envmntl/Clsd Loop	\$2,750	\$213,505	\$0



Date: 12/7/2016

Set Depth (ftKB)

120.0

Report Printed: 12/7/2016

Report #: 38.0 DSS: 35.13 Well Name: ZIA AGI #2D Lat: 32.643951 Long: -103.811116 TD/TVD, 14,750 TD/VS, 0 <typ1>, <d TD/MD, 14,750 Proposed: <typ1>, <de Rig Phone #: (432) 853-9909 #/Crew: FREEDOM Contractor: SCANDRILL Field Name: AGI Area: AGI Asset Group: DELAWARE BASIN API/UWI: 30-025-42207 State: NM County: LEA End Depth (ftKB): 13,622.0 Permit #: Prospect: Ground Elevation (ft): 3,547.00 End Depth (TVD) (ftKB): 13,619.2 Spud Date: 11/2/2016 03:00 Original KB Elevation (ft): 3,572.00 24 Hr Progress (ft): 0.00 Rig Release Date: KB-Ground Distance (ft): 25.00 Target Formation: DEVONIAN Drilling Hours (hr): Total AFE Amount (Cost) 009612 Curn Field Est To Date (Cost) \$4,132,209 Daily Field Est Total (Cost) \$52,361 Job AFE Amount (Cost) Daily Activity from 12/6/2016 - 12/7/2016 Operations at Report Time DRILL WELL LOCK @ 13592' Past 24 Hours Operation Summary
FINISH DRILLING OUT DV TOOL TO 6370'. DRLG WELL LOCK F/6370' T/6412' PICKING UP DP 6412' - 13532'. TAG BAFFLE AT 13532'. DRILL BAFFLE ASSEMBLY, WELL LOCK, FC @ 13564'. DRLG WELL LOCK TO 13592' TEST CSG, TOH TO RUN CBL. RUN CBL, TIH TO DRILL OUT SHOE. DRILL 10' FORMATION AND FIT TEST, TOH FOR SHC Operations Next Report Period Incident Reported No Accident Reported No Daily Contacts
CONTRACT DRLG FRMN, JOE HARRIS, ; CONTRACT DRLG FRMN, RONNIE DUNNAVANT Time Log NPT? End Depth (ftKB) End Com Start Time Dur (hr) No DRLG DV TOOL AT 6345' 13,622 D/O CMT/ FLT EQUIP 10:00 4.00 06:00 REAMING THRU WELL LOCK FROM 6370' - 6412' ROTARY 65 RPM, WOB 15K, 300 No 13,622 W/R 10:00 3.50 **GPM** No PICKING UP 4" DP WITH LAYDOWN MACHINE 13,622 PU DP, DC, HWDP 3.50 17:00 13:30 No 13.622 LUBRICATE RIG RIG SERVICE 17:00 17:30 0.50 CONTINUE PICKING UP DP TO/ 13532'. TAG BAFFLE ASSEMBLY AT 13532'. RD LD No 13,622 PU DP, DC, HWDP 17:30 7.50 MACHINE DRILL BAFFLE ASSEMBLY 13532' - 13535', DRILL WELL LOCK 13535' - 13564', DRILL FC 13564' - 13566'. DRILL WELL LOCK 13566' - 13592' No 13,622 D/O CMT/ FLT EQUIP 5.00 06:00 01:00 Bits & BHAs Avg ROP (f. Job Circ Hr. SN Depth In (ft... Depth Out... Length (ft) 13,622.0 13,622.0 0.50 20/20/20 Bit Run Size (in) STX-30 13 6 Min RPM (rpn 50 Max Stand Pipe Pressure (psi) Max RPM (rpm) Min Stand Pipe 1,030.0 Max Weight on Bit (1000lbf) Min Weight on Bit (1000 1,650.0 BHA# 13 Weight of Stri ig in Air (1000lbf) String Length (ft) 6,371.48 **Drill String Components** Cum Len (ft Len (ft) OD (in) Item Des 6,371.48 5,458.04 174 DRILL PIPE 913.44 4 3/4 152 81 5 Drill Collar 760.63 29.79 4 3/4 1 Jars 730.84 727.48 4 3/4 24 Drill Collar 3.36 2.86 4 3/4 1 Bit Sub **Drilling Parameters** Flow Rate (gpm) 300 Interval ROP (ft/hr) Cum Drilling Time (hr) Drilling Time (hr) Cum Depth Drilled (ft Start Depth (ftKB) 13,622.0 End Depth (ftKB) Original Hole 13,622.0 SO Str Wt (1000lbf) 230 Off Bottom Torque 1,000.0 Drill Str Wt (1000lbf) PU Str Wt (1000lbf) RPM (rpm) 65 3.5 Weight on Bit (1000lbf) 1,650.0 235 15 **Hydraulic Calculations** Percent of Pressure Drop at Bit (%) re Drop (psi Bit Hydraulic Power Per Hole Area (hp/in²) 0.5 Bit Hydraulic Power (hp) 14.6 104.6 83.2 Min Open Hole AV (ft/min) 0.0 ECD End (lb/gal) Min Casing AV (ft/m 247.0 Max 0.0 pen Hole AV (ft/min) Max Casing AV (ft/min) Unable to calculate annular pressure drop because pressure drop data is missing from AV calc YP Calc (lbf/100ft²) **Mud Properties** V Calc (cP Funnel Viscosity (s/qt) Density (lb/gal) Time 06:00 28 Type Water Base 136,221 84 ime (lb/bbl) Solids (%) Filter Cake (1/32") pH 10.0 Gel 10 min (lbf/100ft²) Gel 10 sec (lbf/100ft²) Percent Oil (%) Pf (mL/mL) m (mL/mL Electric Stab (V) Calcium (mg/L) WPS (mg/L) Chlorides (mg/L) HTHP Filter Cake (1/32") HTHP Filtrate (mL/30min) Magnesium (mg/L) Low Gravity Solids (%) Flow Line Temperature (°F) Vis 6rpm Oil Water Ratio Max H2S (ppm) Max Trip Gas tion Gas Min Connection G Max Background Gas Min Background Gas **Mud Additive Amounts** On Loc Returned Consumed Red Units Des Pump # 1, Triplex Model F-1600 Pump Number 12/6/2016 06:00 Bomco 12/5/2016 06:00 Liner Size (in) 5 1/2 Action Type Triplex Pump # 2, Triplex Make End Date 12/6/2016 06:00 F-1600 Pump Numbe Bomco 12/5/2016 06:00 Action Type Triplex 5 1/2 Pump # <Pump Number?>, Triplex F-1600 Pump Numbe 12/7/2016 06:00 Bomco 12/6/2016 06:00 iner Size (in) Action Type Survey Data DLS (°/100ft) EW (ft) VS (ft) NS (ft) 0.00 70.00 Incl (°) 53.17 MD (ftKB 13,619.24 47.00 13.622.00 3.00 **Casing Strings** Wt of Longest Comp (lb/ft) FIT (ps

Csg Des

Conductor

OD (in)

118.52 A53



Date: 12/7/2016

Report #: 38.0 DSS: 35.13

Lat: 32.643951 Long: -103.811116

Well Name: ZIA AGI #2D

Proposed:

Casing Strings				1	
	OD (in)	Wt of Longest Comp (lb/ft)	Grade	Set Depth (ftKB)	FIT (psi)
Csg Des	20	106.50	J-55	826.0	
Surface		61.00		2.555.5	VALUE (17.7)
Intermediate	13 3/8			4,696.0	2,8
Intermediate	9 5/8	40.00	N-80		2,0
	7	29.00	P-110	13,622.0	
Production					-

BOPs Pressure Rating (psi) 10,000.0 Last BOP Test Date 11/14/2016 Nominal ID (in) 13 5/8

Formation Prog Top MD (ftKB) Formation Name 13,607.00 DEVONIAN

EVONIAN		and the second s		The second secon	
luids, Disposal and Water				Cum On Loc	Returned
Supply Item Des	Unit Label	Received	Consumed	Cult Cit Ecc	

Costs Sum	mary			
Billing	Cost Des	Daily Field Est (Cost)	Cum Fld Est (Cost)	AFE Amt (Cost)
Category		\$16,000	\$603,000	\$(
209	D-Daywork Contract	\$4,200	\$196,300	\$(
210	D-Directional Drlg Services			\$0
211	D-Fuel & Power	\$2,066	\$104,144	
		\$160	\$99,772	\$0
214	D-Mud & Chemicals	\$1,800	\$68,400	\$(
226	D-Company Sprvsn	\$3,200	\$121,600	\$(
227	D-Contract Sprvsn		\$203,950	\$
235	D-Rentals-Surface	\$14,410		
		\$7,775	\$75,690	\$
236	D-Rentals-Subsrfc	\$2,750	\$216,255	\$
244	D-Envmntl/Clsd Loop	\$2,730	¥2.5,551	

Date: 12/8/2016

Report #: 39.0

CONCHO **Daily Drilling Report** Well Name: ZIA AGI #2D DSS: 36.13 Proposed: <typ1>, <de <typ1>, <d TD/MD, 14,750 TD/TVD, 14,750 TD/VS, 0 Lat: 32.643951 Long: -103.811116 #/Crew: FREEDOM Contractor: SCANDRILL Rig Phone #: (432) 853-9909 Asset Group: DELAWARE BASIN Area: AGI Field Name: AGI County: LEA State: NM API/UWI: 30-025-42207 Prospect: End Depth (ftKB): 13,622.0 Permit #: Spud Date: 11/2/2016 03:00 End Depth (TVD) (ftKB): 13,619.2 Ground Elevation (ft): 3,547.00 Rig Release Date: 24 Hr Progress (ft): 0.00 Original KB Elevation (ft): 3,572.00 Target Formation: DEVONIAN Drilling Hours (hr): KB-Ground Distance (ft): 25.00 Total AFE Amount (Cost) 009612 Job AFE Amount (Cost) Daily Field Est Total (Cost) \$43,661 Cum Field Est To Date (Cost) \$4,175,870 Daily Activity from 12/7/2016 - 12/8/2016 Operations at Report Time RUNNING CAST M CEMENT BOND LOG'S @ 13,622' Past 24 Hours Operation Summary CIRCULATE BOTTOMS UP @ 13,592', TOH TO RUN CBL LOGS, RUN CBL LOGS F/ 13,584' TO 0'. Operations Next Report Period P/U NEW BHA, TIH & TEST CASING, DRLG 6" VERTICAL HOLE, FIT TEST, CONTINUE DRLG 6" VERTICAL Incident Reported No Accident Reported No Daily Contacts
CONTRACT DRLG FRMN, JOE HARRIS, ; CONTRACT DRLG FRMN, VICTOR HERNANDEZ, Time Log Start Time End End Depth Dur (hr) 13,622 CIRC BTMS UP NPT? 06:00 08:00 CIRCULATE BOTTOM'S UP @ 13,592' No 08:00 14:00 6.00 13,622 TOH LOGGING/ PH TOH TO RUN CBL @ 13,592 No 14:00 16.00 13,622 CBL 06:00 HOLD PJSM, MIRU HALLIBURTON WIRELINE TRUCK & RUN CBL LOG'S FIRT RUN WA No RADIO CEMENT BOND LOG F/ 13,584' TO SURFACE OUT OF HOLE WITH FIRST LOG @ 21:30, SECOND RUN W/ CAST M TOOL CEMENT BOND LOG F/ 13,570' - SURFACE. Bits & BHAs Bit Run Size (in) SN Depth In (ft... Depth Out... Length 5246093 13,622.0 13,622.0 0.50 Job Circ Hr. 2.00 Job Drill Hr Avg ROP (f... Rot Time (hr) Slide Time 20/20/20 6 STX-30 13 ВНА 13 Min Weight on Bit (1000lbt Min RPM (rpm) 50 Max Stand Pipe Pressure (psi) 1,650.0 Max Weight on Bit (1000lbf) ax RPM (rpm 15 65 1,030.0 Weight of String in Air (1000lbf) String Length (ft) 6,371.48 **Drill String Components** Item Des OD (in) 174 DRILL PIPE 5.458.04 6,371.48 4 5 Drill Collar 4 3/4 152.81 913.44 1 Jars 4 3/4 29.79 760.63 24 Drill Collar 4 3/4 727.48 730.84 1 Bit Sub 4 3/4 2.86 3.36 **Drilling Parameters** Cum Drilling Time (hr) End Depth (ftKB) Cum Depth Drilled (ft) Drilling Time (hr) Interval ROP (ft/hr) Flow Rate (gpm) Original Hole 13.622.0 13.622.0 300 Weight on Bit (1000lbf) RPM (rpm) PU Str Wt (1000lbf) Off Bottom Torque ssure (psi) Drill Str Wt (1000lbf) SO Str Wt (1000lbf) Drilling Torque 15 65 1,650.0 235 230 3.5 1,000.0 Hydraulic Calculations Bit Hydraulic Power Per Hole Area (hp/in²) 0.5Bit Hydra 14.6 Bit Jet Velocity (ft/s) Bit Pressure Drop (psi) Percent of Pressure Drop at Bit (%) 104.6 Max Casing AV (ft/min) 506.2 Max Open Hole AV (ft/min) 0.0 ng AV (ft/min) Min Cas 247.0 Hole AV (ft/min ECD End (lb/gal) 0.0 Unable to calculate annular pressure drop because pressure drop data is missing from AV calc **Mud Properties** Funnel Viscosity (s/qt) 28 pth (ftKB) nsity (lb/gal) P Calc (lbf/100ft²) 13,622 12:00 Water Base Gel 10 sec (lbf/100ft²) Gel 10 min (lbf/100ft²) Filter Cake (1/32") Solids (%) 0.3 10.0 Chlorides (mg/L) 700 NPS (mg/L) Calcium (mg/L) Electric Stab (V) Pf (mL/mL) 0.10 Percent Oil (%) Pm (mL/mL) Vis 6rpm low Line Temperature (°F) HTHP Filter Cake (1/32") Low Gravity Solids (%) HTHP Filtrate (mL/30min) Oil Wate 0/100 Magnesium (mg/L) Max Background Gas Min Connection Gas Max H2S (ppm) Min Background Gas ction Gas Max Trip Gas 0.00 10.00 10.00 eturned

Mud	Additive	Amounts
	Des	
Dorit	o DI II IZ	

Mud Additive Amoun	wid Additive Amounts						
Des	Units	Rec	Consumed	On Loc	Ref		
Barite BULK	TON		6.0	37.0			
CAUSTIC SODA	50# SACK		2.0	52.0			
FLOZAN	25# SACK		2.0	160.0			
WILDCAT 360	GAL		93.0	53.0			
WILDCAT 601 TZ	GAI		36.0	192.0			

Pump # 1, Triplex

Pump Number	Start Date	End Date	Make	Model
1	12/7/2016 06:00		Bomco	F-1600
Action Type		Line	r Size (in)	

Pump # 2, Triplex

Pump Number	Start Date	End Date	Make	Model
2	12/7/2016 06:00		Bomco	F-1600
Action Type		It inc	or Size (in)	The state of the s

TVD (fike)

Survey Data

(11.10)							
13,622.00	3.00	47.00	13,619.24	87.91	53.17	70.00	0.00
Casing Strings	'						
	Csg Des		OD (in)	Wt of Longest Comp (lb/ft)	Grade	Set Depth (ftKB)	FIT (psi)
Conductor			30	118.52	A53	120.0	
Surface		20	106.50	J-55	826.0		

VS (ft)

FW (ff)

DIS (°/100ft)

OD (in)	(lb/ft)	Grade	Set Depth (ftKB)	FIT (psi)
30	118.52	A53	120.0	
20	106.50	J-55	826.0	
13 3/8	61.00	J-55	2,555.5	
9 5/8	40.00	N-80	4,696.0	2,811.6
7	29.00	P-110	13,622.0	
	30 20 13 3/8	OD (in) (ib/ft) 30 118.52 20 106.50 13.3/8 61.00 9.5/8 40.00	OD (in) (ib/ft) Grade 30 118.52 A53 20 106.50 J-55 13 3/8 61.00 J-55	OD (in) (ib/ft) Grade Set Depth (ftKB) 30 118.52 A53 120.0 20 106.50 J-55 826.0 13 3/8 61.00 J-55 2,555.5 9 5/8 40.00 N-80 4,696.0



Date: 12/8/2016

Report #: 39.0

DSS: 36.13

Well Name: ZIA AGI #2D

Proposed:

Lat: 32.643951 Long: -103.811116

				muli obiotooli L	.ong100.011110	
BOPs			*			
Pressure Rating (psi) 10,000.0		Nominal ID (in) 13 5/8		Last BOP Test Date 11/14/2016	Anna Carlos Anno Harrison	
Formation				*** *** *** *** *** *** *** *** *** **		
Formation Name			Prog Top MD (ftKB)			
DEVONIAN		The second secon			13,607.00	
Fluids, Disposal and V	Nater			**************************************		
Supply Item Des	Unit Label	Received	Consumed	Cum On Loc	Returned	
RIG DIESEL	gal us		914.0	13 134 0		

			1			
RIG DIESE	L	gal us		866.0	12,268.0	
Costs Sun	nmary					
Billing Category			Cost Des	Daily Field Est (Cost)	Cum Fld Est (Cost)	AFE Amt (Cost)
209	D-Daywo	rk Contract		\$16,000	\$619,000	\$0
210	D-Direction	D-Directional Drlg Services		\$4,200	\$200,500	\$0
211	D-Fuel &	Power		\$1,958	\$106,102	\$0
214	D-Mud & Chemicals		\$3,513	\$103,285	\$0	
550						

209	D-Daywork Contract	\$16,000	\$619,000	\$0
210	D-Directional Drlg Services	\$4,200	\$200,500	\$0
211	D-Fuel & Power	\$1,958	\$106,102	\$0
214	D-Mud & Chemicals	\$3,513	\$103,285	\$0
226	D-Company Sprvsn	\$1,800	\$70,200	\$0
227	D-Contract Sprvsn	\$3,200	\$124,800	\$0
235	D-Rentals-Surface	\$2,465	\$206,415	\$0
236	D-Rentals-Subsrfc	\$7,775	\$83,465	\$0
244	D-Envmntt/Clsd Loop	\$2,750	\$219,005	\$0



www.peloton.com

Daily Drilling Report

Date: 12/10/2016

Report #: 41.0

Report Printed: 12/10/2016

Well Name: ZIA AGI #2D DSS: 38.13 Proposed: <typ1>, <de <typ1>, <d TD/MD, 14,750 TD/TVD, 14,750 TD/VS, 0 Lat: 32.643951 Long: -103.811116 Contractor: SCANDRILL #/Crew: FREEDOM Rig Phone #: (432) 853-9909 Asset Group: DELAWARE BASIN Area: AGI Field Name: AGI API/UWI: 30-025-42207 County: LEA State: NM Prospect: End Depth (ftKB): 14,573.0 Permit #: Spud Date: 11/2/2016 03:00 End Depth (TVD) (ftKB): 14,570.1 Ground Elevation (ft): 3,547.00 Rig Release Date: 24 Hr Progress (ft): 951.00 Original KB Elevation (ft): 3,572.00 Target Formation: DEVONIAN KB-Ground Distance (ft): 25.00 Drilling Hours (hr): 19.50 Total AFE Amount (Cost) 009612 Cum Field Est To Date (Cost) \$4,288,089 Daily Field Est Total (Cost) \$46,874 Job AFE Amount (Cost) Daily Activity from 12/9/2016 - 12/10/2016 Operations at Report Time DRLG 6" VERTICAL @ 14,573' @ 60 FPH. DRLG CEMENT & FLOAT SHOE, DRLG 6" VERTICAL, CIRCULATE, FIT TEST, DRLG 6" VERTICAL F/ 13,622' - 14,573'. CIRCULATE BOTTOMS UP, DRLG 6" VERTICAL TO TD, CIRCULATE LDDP. ncident Reported No Accident Reported No Daily Contacts
CONTRACT DRLG FRMN, JOE HARRIS, ; CONTRACT DRLG FRMN, VICTOR HERNANDEZ Time Log End Time End Depth Start Time NPT? Com DRLG SHOE TRACK AND FS 13,602' - 13,622'. 13,622 D/O CMT/ FLT EQUIP 06:00 07:30 1.50 No DRILG FORMATION F/ 13,622' - 13,632' MADE 10' @ 20 FPH. BEGIN DRLG 6" VERTICAL 07:30 08:00 0.50 13.632 DRLG W/SHC No SECTION @ 07:30 MST ON 12/09/2016. CIRC BOTTOMS UP TO RUN FIT TEST. 08:00 09:00 1.00 13,632 CIRC BTMS UP No PERFORM F.I.T. TEST @ 13,632' W / 8.6# MW 425 PSI EMW OF 9.2# HELD 30 MIN NO 09:00 09:30 0.50 13,632 LEAK OFF/FIT TEST No LOSS 09:30 1.00 13,632 SAVER SUB CHANGE OUT BURN SUB ON TOP DRIVE No No DRILLING 6" VERTICAL SECTION WITH SHC F/ 13,632' - 13,821' MADE 189' @ 29 FPH. 10:30 17:00 6.50 13,821 DRLG W/SHC 13,821 LUBRICATE RIG No 17:00 17:30 0.50 DRILLING 6" VERTICAL SECTION WITH SHC F/ 13,821' - 14,573' MADE 189' @ 29 FPH. No 14,573 DRLG W/SHC 17:30 06:00 12.50 Bits & BHAs Bit Run Size (in) 19.50 10/10/16/16/16/16 6 Max Stand Pipe Pressure (psi) 2,290.0 Max F 136 Min Stand 2,160.0 ВНА# 14 Max 15 of String in Air (1000lbf) String Length (ft) 14,573.48 **Drill String Components** Len (ft) 13,556.98 Item Des 14,573.48 432 Drill Pipe 4 1,016.50 152 81 5 DRILL COLLAR 5 4 3/4 29.79 863.69 1 HYD DRLG JARS 727.48 833.90 24 Drill Collar 4 7/8 2.72 106.42 1 XO Sub 103.70 4.63 4 3/4 NORTRACK STAB 4 13/16 30.07 99 07 1 NMDC 1 NMDC 4 11/16 29.64 69.00 39.36 4 3/4 2.97 1 UBHO SUB 4 3/4 5.04 1 3 PT ROLLER REAMER 31.35 30.85 1 Mud Motor 4 3/4 **Drilling Parameters** Interval ROP (ft/hr) 48.8 End Depth (ffKB) 14,573.0 Flow Rate (gpm) um Drilling Time (hr Start Depth (ftKB) 13,622.0 951.00 300 Original Hole SO Str Wt (1000lbf) 235 Stand Pipe Pressure (psi) 2,290.0 PU Str Wt (1000lbf) Off Bottom Torque Weight on Bit (1000lbf) RPM (rpm) 7,500.0 500.0 55 Hydraulic Calculations Percent of Pressure Drop at Bit (%) Bit Hydraulic Power Per Hole Area (hp/in²) 0.5Bit Jet Velocity (ft/s) 102.5 Bit Pre Bit Hydraulic Power (hp) 14.0 Min Casing AV (ft/min) 247,0 Min Open Hole AV (ft/min) 11.2 ECD End (lb/gal) Max Casing AV (ft/min) Max Open Hole AV (ft/min) 608.3 11.3 Unable to calculate annular pressure drop because pressure drop data is missing from AV calc **Mud Properties** YP Calc (lbf/100ft²) epth (ftKB) Time 13:00 Density (lb/gal) Funnel Viscosity (s/qt) Water Base 28 13,694 8.4 Gel 10 sec (lbf/100ft²) Filter Cake (1/32") Gel 10 min (lbf/100ft²) Filtrate (mL/30min) рН 10.0 Solids (%) 0.7 Percent Oil (%) 0.0 Flectric Stab (V) Pm (mL/mL) Pf (mL/mL) 0.15 WPS (mg/L) Calcium (mg/L) Chlorides (mg/L) 1,000 HTHP Filtrate (mL/30min) HTHP Filter Cake (1/32") Flow Line Temperature (°F 85.0 Low Gravity Solids (%) Magnesium (mg/L) 0/100 ax H2S (ppm) Max Connection Gas Max Trip Gas Min Background Gas Max Background Ga **Mud Additive Amounts** On Lo Returned 8.0 44.0 CAUSTIC SODA 50# SACK 150.0 10.0 FLOZAN 25# SACK 165.0 5.0 SODA ASH 50# SACK 57.0 267 0 GAL 271.0 WILDCAT 360 177.0 15.0 WILDCAT 601 TZ GAL Pump # 1, Triplex End Date Start Date 12/7/2016 06:00 Pump Number F-1600 Bomco Liner Size (in) 5 1/2 Action Type Triplex Pump # 2, Triplex End Date Pump Number Start Date F-1600 Bomco 12/7/2016 06:00 Action Type Triplex er Size (in) 5 1/2

Page 1/2



Date: 12/10/2016 Report #: 41.0

DSS: 38.13

Lat: 32.643951 Long: -103.811116

Well Name: ZIA AGI #2D

Proposed:

urvey Data				1/C (A)	NS (ft)	EW (ft)	DLS (°/100ft)
The state of the s	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	58.99	73.52	
MD (ftKB)	0.80	339.10	14,045.17	94.11			0.
14,048.00			A STATE OF THE PARTY OF THE PAR	94.73	60.25	73.21	
14,142.00	0.80	353.70	14,139.17		61,40	73.14	0
	0.60	359.30	14,233.16	95.43			0
14,236.00			14,326.15	96.27	62.52	73.24	and the second s
14,329.00	0.80	10.20	A STATE OF THE PARTY OF THE PAR		63.98	73.50	0
	1.00	9.90	14,420.14	97.43			0
14,423.00			14,570.12	99.49	66.56	73.95	U
14,573.00	1.00	9.90	14,570.12	80.10			

Wt of Longest Comp (lb/ft) 118.52 A53 Casing Strings Set Depth (ftKB) 120.0 FIT (psi) Grade OD (in) Csg Des 30 106.50 J-55 61.00 J-55 40.00 N-80 29.00 P-110 826.0 Conductor 20 Surface 2,555.5 13 3/8 2,811.6 Intermediate 4,696.0 9 5/8 Intermediate 13,622.0 Production

Last BOP Test Date 11/14/2016 BOPs Nominal ID (in) 13 5/8 Pressure Rating (psi) 10,000.0

Formation Prog Top MD (ftKB) 14,511.00 Formation Name MONTOYA

Fluids, Disposal and Water Returned Cum On Loc Consumed Received Unit Label Supply Item Des

Costs Sum	mary		Cum Fld Est (Cost)	AFE Amt (Cost)	
Billing	Cost Des	Daily Field Est (Cost)			
Category		\$16,000	\$651,000		
209	D-Daywork Contract	\$6,270	\$213,040		
210	D-Directional Drlg Services	\$3,083	\$112,074		
211	D-Fuel & Power	\$700	\$32,710		
212	D-Water	\$2,831	\$108,492		
214	D-Mud & Chemicals	\$1,800	\$73,800		
226	D-Company Sprvsn	\$3,200	\$131,200		
227	D-Contract Sprvsn	\$2,465	\$212,195		
235	D-Rentals-Surface	\$7,775	\$100,185		
236	D-Rentals-Subsrfc	\$2,750	\$224,505		
244	D-Envmntl/Clsd Loop	\$2,750			

Scandrill Freedom

From: Sent: Timothy Smith <TSmith@concho.com> Monday, December 05, 2016 3:29 PM Kevin Hammons; Scandrill Freedom

To: Subject:

Composite bridge plug

The comp bridge plug is set up with SLB. The completion hand will make it up to the baker 20 setting tool and the loggers will just bring it out. They are going to look into an extended gauge ring since we will be passing it through the 32#. The plug is 17" but as long as we get a good gauge ring run and run the plug very slowly through the 32# we should not have an issue.

CONFIDENTIALITY NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you.

Well Name: ZIA AGI #2D Proposed: <typ1>, <de< th=""><th>TD/MD 4</th><th>4 750</th><th></th><th>ily Drill</th><th></th><th></th><th></th><th colspan="5">Date: 12/1/ Report : DSS: Lat: 32.643951 Long: -103.8</th><th>#: 42.0 39.13</th></de<></typ1>					TD/MD 4	4 750		ily Drill				Date: 12/1/ Report : DSS: Lat: 32.643951 Long: -103.8					#: 42.0 39.13
				/p1>, <a< th=""><th></th><th>#/Crew:</th><th>_</th><th>VD, 14,750 OOM</th><th>10/45, 0</th><th></th><th></th><th>Ria Pho</th><th></th><th>432) 853-9909</th><th></th><th>-103.8</th><th>11110</th></a<>		#/Crew:	_	VD, 14,750 OOM	10/45, 0			Ria Pho		432) 853-9909		-103.8	11110
Asset	Group:		ARE BASIN			Area: A						Field N	ame: AC	GI			
	: LEA					State: N		14 750	0				/I: 30-02	5-42207			
Prospe Soud I		1/2/2016	03:00					B); 14,750 D) (ftKB):				Permit		on (ft): 3,547	.00		
Rig Re	lease [Date:						(ft): 177.0				Origina	I KB Ele	vation (ft): 3	,572.00		
		tion: DE	VONIAN			Drilling	Hours	(hr): 3.50	Trustare A.	to the Continue of the Continu		KB-Gro	ound Dis	tance (ft): 2	5.00		
AFE Num 009612									Total AFÉ Am	ount (Cost)							
Job AFE	Amount (0	Cost)		han ng yang ga s		Daily Field		Cost)	Anna and an annual and an	y krane n		Cum Field \$4,337,	Est To Date	e (Cost)			1
Daily A	ctivity	from 12	/10/2016 - 1	12/11/2016		\$49,279						φ4,331,	,300	a tarifar	Decision -		
Operation	ns at Repo	ort Time												ettyr te time y		Anna	
Past 24 F CIRCU STAR	Hours Ope ILATE S ΓΡΙCΚΙ	ration Sumr SAMPLE: NG UP L	S @ 14,753' OGGING TO	, DRLG 6"	' VERTICAI	L F/ 14,7	753' - 14	1,750' TD, C	CIRCULATE	E HIGH	VISC SW	EEPS,	LDDP, D	C'S & DIR TO	OOL'S, R	IG UP &	
LOG V		eport Period															
Incident I No	Reported	Accident f	Reported Daily	Contacts	DRI G FRM	N JOE	HARRIS	s, ; CONTR	ACT DRIG	FRMN	VICTOR	HERNA	NDFZ.				
		1140	1001	VIIVACIL	JIXLO I IXIVI	IV, JOL	HANNE	o, , contre	AOT BILLO	r rayiry,	VIOTOR	11121774	01000,				,, , , ; , , , , , , , , , , , , , , ,
Time I	L og	T	End Depth	т									_		***********		T
Time	Time	Dur (hr)	(ftKB)	OIDO DI	Sub-Activity		OIDOLII	ATE CAME	DI FIO DED	CEOLE		OCICT 6	9 14 E72				NPT?
06:00	08:00	2.00		DRLG W				ATE SAME						'50' MADE 17	7' @ 51	FPH	No
00.00	11.50	3.50	14,750	DILLOV	Wishio			" VERTICA						00 1411 152 17	. @ 0.		
11:30	12:30	1.00	14,750	PUMP S	WEEP		PUMP 8	BO BBL'S H	IGH VISC S	WEEP	& CIRCU	LATE O	UT WHI	LE WORKING	PIPE A	TTD.	No
12:30	13:00	0.50	14,750	RU/RD I	LD MACHIN				RANK'S LA	Y DOWI	N MACHI	NE CRE	W & RIC	UP LAY DO	WN		No
10.00		10.00	11.55				MACHI		III DIDE &	TD							No
13:00 23:00	23:00		1	LDDP PU/LD E	OLIA.			OWN 4" DR			II IZEDO	MM//D T	2000	BIT, MONEL'S	S & MIID		No
23.00	02.30	3.50	14,750	POILDE	DITA		MOTOF		COLLAN	, 01/10	ILIZLINO,	MVVD	OOLO,	SIT, WONLE	o wob		110
02:30	04:00	1.50	14,750		3RD PART	Y	RIG DC	WN LAY D	OWN MAC	HINE &	PULL W	EAR BU	SHING.				No
04.00	100.00	0.00	44.75	EQUIP	10		HOLD	DICM MILE	CULLIMPE	OCED W	VIDEL INIE	DIC II	DILIDDI	CATOR & ST	ADT DIC	KING	No
04:00	06:00	2.00	14,750	LOGGIN	NG		UP LO	GING TO	OL'S FOR 1	ST RUI	N W/ TEL	EMETR	RY CART	RIDGE, SPEC	CTRAL		INO
Bits &	BHAs	e (in)	Make Mo	odel S	N ID	epth in (ft.	Depth C	out Length (ft) Job Drill	HrJob (Circ Hr Av	g ROP (f	. Rot Time ((hr) Slide Time	Nozzies (1	/32")	
14	6		AKER HUG Q	406FX 7	149715 1	3,622.0	14,75	0.0 0.50	23.00	4.00	0 49	0.0	23.00			6/16/16/	The second second
BHA#			Min Weight on 5	Bit (1000lbf)	Max Weigh	nt on Bit (10	000lbf)	Min RPM (rpm))	Max RPI	M (rpm)		2,160.0	Pipe Pressure (psi	2,430		essure (psi
String Le	ength (ft)		<u> </u>			*			Weight of Str	ing in Air (1	1000lbf)		Marian Residen	······································			
14,750 Drill S		ompone	nts			-			249			, , , , , , , , , , , , , , , , , , ,	*				
and the latest and th	lts	Cimpono	into	-	Item De	S					OD (in)		1	_en (ft)		Cum Len (
	438	Drill Pip										4		13,733.66			4,750.10
	5		COLLAR									5 4 3/4		152.81 29.79	The same of the sa		1,016.50
-	24	Drill Co	RLG JARS	-								5		727.48			833.9
-	1	XO Sub		-							_	4 7/8	4437	2.72	2	98-90-1 0-0	106.4
	1		ACK STAB									4 3/4	-	4.63	Mary Property	din 14 th	103.7
	1	NMDC										13/16		30.07			99.0
	1	NMDC	51.65								4	11/16		29.64			69.0 39.3
-	1	UBHO S	OLLER REA	MED					-			4 3/4		5.04			36.3
-	1	Mud M		IVILIA								4 3/4		30.85			31.3
Drillin	1	meters													A		
Wellbor	е	S	tart Depth (ftKB)		d Depth (ftKB)		Cum Depth 1,128.0	Drilled (ft)	Drilling Time 3.50	(hr)	Cum Dr 23.00	illing Time		terval ROP (ft/hr)	Flo 30	w Rate (gpr	m)
	al Hole on Bit (10	The state of the s	4,573.0 PM (rpm)		,750.0 and Pipe Pressu		Orill Str Wt		PU Str Wt (1	000lbf)		Wt (1000lb		rilling Torque	THE RESERVE AND ADDRESS OF THE PARTY.	Bottom Tor	rque
15	•	5	55		430.0		245	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	255		235		6	,300.0	50	0.00	
		lculatio			ower Per Hole	Ann Chaffe	21 Dit 1	et Velocity (ft/s)		T _E	Bit Pressure	Dron (nsi)		Percent	of Pressure	Drop at Bit	t (%)
14.0	aulic Pow	er (np)		0.5	Owel Fel Flole	Area (riphi	102	.5		8	80.0			3			
	sing AV (f	Vmin)		Max Open Hol	le AV (ft/min)		Min (Casing AV (ft/m	in)		Win Open Ho	le AV (ft/m	in)	8.40	d (lb/gal)		
348.7 Error				1/1							11.1			161.75			
Unab		Alberta Control of the Control of th	nular pressu	ure drop be	ecause pre	ssure dr	op data	is missing	from AV ca	lc .	alman construction						
Time	Proper	iles	Туре		Depth (ftK	(B)		Density (lb/ga	1)	Funnel	Viscosity (s/	qt)	PV Calc (cP)	YP Cal	c (lbf/100ft²))
10:00			Water Bas	se	14,721			8.4		28							
Gel 10	sec (lbf/10	Oft²)	Gel 10 min (lb	of/100ft²)	Filtrate (m	nL/30min)		Filter Cake (1)	/32")	рH 10.0			Solids (%))	Lime (II	5/bbl)	
Chlorid	es (mg/L)		WPS (mg/L)		Calcium (mg/L)		Electric Stab ((V)	Pm (mL	L/mL)		Pf (mL/ml	-)	Percen	nt Oil (%)	
Oil Med	na Dotin		Flow Line Tee	nperature (°F)) Vis 6rpm			Low Gravity S	Solids (%)	Magnes	sium (mg/L)		HTHP Filt	rate (mL/30min)	HTHP	Filter Cake ((1/32")
Oil Wai	er Ratio		Flow Line Tel	riperature (r) Vis dipiti			Low Gravity C	ondo (70)	in a gine							
Min Ba	ckground	Gas		ckground Gas		Min Conn	ection Gas	3	Max Connec	tion Gas		Max Trip	Gas	l ₀	Max H2S (p)	om)	
Mud	Additiv	e Amour	75.00			L			1.0.00			15.55		L			
		es Amou		Units			Red	3		Consumed	t		On Lo	ос		Returned	
									1								
	p # 1, 7	riplex		Start Date			End	Date		Ti	Make			Model	1		*
1	Vumber			12/7/2016	06:00			301			Bomco	0.11		F-160	0		
Action									Liner Size (i 5 1/2	n)							
-	p# 2,	Friplex			+			****									
Pump	Number			Start Date	06.00		End	Date			Make Bomco			Model F-160	10		
2 Action	Type		1	12/7/2016	00.00				Liner Size (2011100	-		1, 100	2		
Triple									5 1/2								



Date: 12/11/2016

Report #: 42.0

DSS: 39.13 Lat: 32.643951 Long: -103.811116

Prog Top MD (ftKB)

Well Name: ZIA AGI #2D

Formation Name

Proposed:

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
14,611.00	1.10	5.60	14,608,11	99.52	67.14	73.47	0.36
14,694.00	1.10	17.60	14,691.10	100.81	68.69	73.79	0.28
14,750.00	1.10	17.60	14,747.09	101.75	69.71	74.12	0.00

oasing ourness					
Csg Des	OD (in)	Wt of Longest Comp (lb/ft)	Grade	Set Depth (ftKB)	FIT (psi)
Conductor	30	118.52	A53	120.0	
Surface	20	106.50	J-55	826.0	
Intermediate	13 3/8	61.00	J-55	2,555.5	
Intermediate	9 5/8	40.00	N-80	4,696.0	2,811.6
Production	7	29.00	P-110	13,622.0	

Formation				
Pressure Rating (psi) 10,000.0	Nominal ID (in) 13 5/8	Last BOP Test Da 11/14/2016	te	
BOPs		14.	10 10 10 10 10 10 10 10 10 10 10 10 10 1	
Production	7	29.00 P-110	13,622.0	The State of the S
Intermediate	9 5/8	40.00 N-80	4,696.0	2,811.6
intermediate	13 3/8	61.00 3-55	2,555.5	

	Torriduori Name		the state of the s	riog rop mo (mic)	
MONTOYA					14,511.00
Fluids, Disposal and V	Water				
Supply Item Des	Unit Label	Received	Consumed	Cum On Loc	Returned
CUTTINGS BIN	BIN		1.0	-50.0	
RIG DIESEI	galus		893.0	10,097.0	

Costs Sum	imary			
Billing Category	Cost Des	Daily Field Est (Cost)	Cum Fld Est (Cost)	AFE Amt (Cost)
209	D-Daywork Contract	\$16,000	\$667,000	\$0
210	D-Directional Drlg Services	\$6,270	\$219,310	\$0
211	D-Fuel & Power	\$2,019	\$114,093	\$0
226	D-Company Sprvsn	\$1,800	\$75,600	\$0
227	D-Contract Sprvsn	\$3,200	\$134,400	\$0
235	D-Rentals-Surface	\$7,765	\$219,960	\$0
236	D-Rentals-Subsrfc	\$7,775	\$107,960	\$0
237	D-Trucking/Forklift/Rig Mobil	\$600	\$242,913	\$0
244	D-Envmntl/Cisd Loop	\$3,850	\$228,355	\$0



Date: 12/12/2016

Proposed:			typ1>, <	d TD/	MD, 14,750 #/Cre	_	D/TVD, 14,750 EEDOM	TD/VS,	0	<u> </u>	Ria Pi		: 32.64 (432) 85		Long: -103.	811116
Asset Group: County: LEA			N		Area:	AGI	LLDOM				Field I	Name: A				
rospect:		and the same					(ftKB); 14,750	0.0			Permi		20-4220			
Spud Date: 1 Rig Release D		03:00			BOARD STREET	The second second	(TVD) (ftKB): ress (ft): 0.00	14,747.1					tion (ft): levation			
arget Forma		VONIAN				The second second	urs (hr):	.					istance (
FE Number 109612								Total AFE An	nount (C	ost)						
ob AFE Amount (C					Daily Fie \$35,3		otal (Cost)				Cum Fie \$4,372	ld Est To D 2,720	ate (Cost)			
perations at Repo	rt Time						the state of the state of				2. 1200 - 1112				- Committee of the second	
RIH W/ SIDE V			F/ SECC	ND RU	N @ 14,75)'.	11 2 - 123 20 - 1340					an make	×1			
OGGING WE	LL W/ 1	ST RUN T					RAL GAMMA CALIPER LOC								M CALIPERLOG	3,
perations Next Re	port Period						OALII EN LOC	5, 1 WII IIWIZA	OLIV,	JILD IV	SIN WINO	TAILL C	NDL VVA	LL OOI	NLO.	
cident Reported	Accident R	Reported Dai	ly Contacts				DIO CONTR	AOT DOLG				ANDEZ			to all the complete of the con-	
ime Log	No	ICC	DNTRACT	DRLG	FRMN, JO	E HAF	RRIS, ; CONTR	ACT DRLG	FRM	N, VIC	IOR HERN	ANDEZ,				Market Harrison
Start End	5 4 1	End Depth				T								de de la companya de		T
Time Time 6:00 14:30	8.50	(ftKB) 14,75	0 LOGG	Sub-A	ctivity		NTINUE LOGG									NPT?
4:30 21:00	6.50	14.75	50 LOGG	ING		11000	, NEUTRON D									No
				IIVO		IMA	GER & LOGG	WELL.								
1:00 04:30	7.50	14,75	50 SWC				ROTARY SIDE					OL & C	JT 20 CC	ORES (OUT OF 50.	No
4:30 06:00	1.50	14,75	50 SWC				EAK DOWN SIL				REMOVE .	JAMMED	CORE,	PREP	TOOL & RIH	No
Bits & BHAs it Run Size	(in) In	alta II	tada)	CN	In-at-1-	_ L		a hassa	the Lie	h Oire He	Is - bon #	Tour	# A DE 4		// (POII)	
4 6	70.00	KER HUG	Q406FX	The state of the s	Depth In 13,622	0 14	,750.0 0.50	23.00	4.	.00	Avg ROP (f. 49.0	23.00	(hr) Slide		Nozzles (1/32") 10/10/16/16/16/	Coll Section
HA # 4		Min Weight o	n Bit (1000lb	f) Ma:	Weight on Bit	(1000lbf) Min RPM (rpm) 111	1	Max F	RPM (rpm)	2,160.0		sure (psi)	Max Stand Pipe Pro 2,430.0	essure (psi
tring Length (ft) 4,750.16								Weight of Str 249	ing in Air	r (1000lbf						
orill String Co	mponer	nts			tem Des				4-	OD (in	\ 1		Len (ft)		Cum Len	/ft\
438	Drill Pipe				ion Des					05 (11)	4		13,7	33.66		4,750.16
and the second s	DRILL C	COLLAR RLG JARS	+								4 3/4			29.79		1,016.50 863.69
	Drill Coll	milital min a									5			727.48		833.90
	XO Sub	ACK STAB									4 7/8			2.72 4.63		106.4
	NMDC	1011 0 1715									4 13/16			30.07		99.07
	NMDC UBHO S	LID									4 11/16			29.64		69.00 39.30
		LLER RE	AMER								4 3/4			5.04		36.39
1 Drilling Paran	Mud Mo	tor								-	4 3/4			30.85		31.3
Vellbore		art Depth (ftKE	B) E	nd Depth	(ftKB)	Cum E	Depth Drilled (ft)	Drilling Time	(hr)	Ct	ım Drilling Time	(hr)	nterval ROP	(ft/hr)	Flow Rate (gpr	m)
Veight on Bit (1000	Olbf) RF	PM (rpm)	s	tand Pipe	Pressure (psi)	Drill St	r Wt (1000lbf)	PU Str Wt (1	000lbf)	SC) Str Wt (1000lb	of) (fo	Orilling Torqu	ue	Off Bottom Tor	rque
lydraulic Cal	culation	S						1								
it Hydraulic Power	(hp)		Bit Hydraulic	Power Pe	er Hole Area (hp	fin²) E	Bit Jet Velocity (ft/s)			Bit Pres	sure Drop (psi)		P	ercent of	Pressure Drop at Bit	(%)
lax Casing AV (ft/r	nin)		Max Open H	ole AV (ft/	min)	N	Min Casing AV (ft/min	n)		Min Ope	n Hole AV (ft/m	iin)	E	CD End	(lb/gal)	
тог		Land Company			· · · · · · · · · · · · · · · · · · ·			**						 		
Mud Propertie	es	I T	"	15-	ath (BICD)		Danaiki (lla/gal)		Trunn	al Vinceni	h. (a(at)	PV Calc	(oD)		YP Calc (lbf/100ft²)	
ime		Туре			pth (ftKB)		Density (lb/gal)			el Viscosi	ty (s/qt)	Terramon and the				
Gel 10 sec (lbf/100)	(12)	Gel 10 min (l	bf/100ft²)	Filt	rate (mL/30min		Filter Cake (1/5	32")	pН			Solids (%			Lime (lb/bbl)	
Chlorides (mg/L)		WPS (mg/L)		Ca	lcium (mg/L)		Electric Stab (V)	Pm (r	mL/mL)		Pf (mL/m			Percent Oil (%)	
Oil Water Ratio		Flow Line Te	emperature (°	F) Vis	6rpm		Low Gravity So	olids (%)	Magr	nesium (m	g/L)	HTHP FI	trate (mL/30	Omin)	HTHP Filter Cake ((1/32")
fin Background Ga	as	Max Ba	ackground Ga	as	Min Cor	nection	Gas	Max Connec	tion Gas		Max Trip	Gas		Ма	x H2S (ppm)	
Mud Additive		s	Units				Rec	1	Consum	har		On L	OC .		Returned	
			Office			-	Nec		Oorioani	lou .						
Pump # 1, Tr	iplex		Start Date			I	End Date			Make	1 miles and a second			Model		
Action Type			12/7/2010	6 06:00				Liner Size (in	1)	Bomo	0		ŀ	F-1600		
									-							····
Pump # 2, Tr Pump Number	ipiex		Start Date			1	End Date	and promote the supplier		Make	the second			Model		
action Type			12/7/201	6 06:00				Liner Size (in	٦)	Bomo	0		F	F-1600		
Survey Data	-			-,									-			
MD (ftKB)	50.00	Incl (°	1.10	- 1	Azm (°)		TVD (ftKB) 14,747.09		S (ft)	1.75	NS (ft)	69.71	E	W (ft)	DLS (°.	7100ft) 0.0
14 /	-111111		1 1111													407045



Date: 12/12/2016

Report #: 43.0

DSS: 40.13

Lat: 32.643951 Long: -103.811116

Well Name: ZIA AGI #2D

Proposed:

Casing Strings Wt of Longest Comp (lb/ft) Set Depth (ftKB) 120.0 Grade FIT (psi) Csg Des OD (in) 118.52 A53 Conductor 30 Surface 20 106.50 J-55 826.0 61.00 J-55 2,555.5 13 3/8 Intermediate 40.00 N-80 29.00 P-110 2,811.6 4,696.0 Intermediate 9 5/8 13,622.0 Production

| Production | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.0 | 15,022.

	Formation Name			Prog Top MD (ftKB)	
MONTOYA					14,511.00
Fluids, Disposal and W	ater				
Supply Item Des	Unit Label	Received	Consumed	Cum On Loc	Returned
JET PITS/WORK ON LOCATION	HRS	The state of the s	4.5	-25.0	
MUD/SOLIDS/CMT DISPOSAL	LOAD		20.0	-81.0	
RIG DIESEL	gal us		941.0	9,156.0	

				The state of the s
Costs Sur	mmary			
Billing Category	Cost Des	Daily Field Est (Cost)	Cum Fld Est (Cost)	AFE Amt (Cost)
209	D-Daywork Contract	\$16,000	\$683,000	\$0
211	D-Fuel & Power	\$2,118	\$116,211	\$0
226	D-Company Sprvsn	\$1,800	\$77,400	\$0
227	D-Contract Sprvsn	\$3,200	\$137,600	\$0
235	D-Rentals-Surface	\$2,465	\$222,425	\$0
236	D-Rentals-Subsrfc	\$325	\$108,285	\$0
244	D Enymoti/Cled Loop	1000	\$237 700	\$0



We		e: ZI	A AGI #2		TD/MD 44 750			ng Rep	ort		- 4				#: 44.0 41.13
	osed:			<typ1>, <a< th=""><th>TD/MD, 14,750</th><th>FREEDO</th><th>D, 14,750</th><th>TD/VS, 0</th><th></th><th>Dia Di</th><th></th><th>t: 32.64395 (432) 853-99</th><th></th><th>g: -103.8</th><th>311116</th></a<></typ1>	TD/MD, 14,750	FREEDO	D, 14,750	TD/VS, 0		Dia Di		t: 32.64395 (432) 853-99		g: -103.8	311116
	33.42.56		ARE BAS	SIN	Area: A		/IVI				none #: Name:		09		
	y: LEA				State: 1	The second second				API/U	WI: 30-	025-42207			
Prospe	ect: Date: 11	12/2016	03:00				: 14,750.0			Permi			47.00		
	lease D		03.00			ptn (1VD) rogress (f	(ftKB): 14	+,/4/.1				ation (ft): 3,5 Elevation (ft):		00	
		ion: DE	EVONIAN			Hours (hr	r):			A LEWIS OF THE PERSON NAMED IN COLUMN 1		istance (ft):	The Park of the Pa		
009612							T	otal AFE Amou	nt (Cost)						
Job AFE	Amount (Co	ost)				Est Total (Cos	st)					Date (Cost)		til termination of the state of	
Daily A	Activity f	rom 12	/12/2016	- 12/13/2016	\$176,65	18	first terminal			\$4,549	3,378	- de la Company de la Company	·		
Operation	ns at Repor	t Time					10 - 10 - 10								
Past 24 F	lours Opera	ation Sumn	nary	· · · · · · · · · · · · · · · · · · ·	V-P FED COM 1H JN GUAGE LOG,	400-98	ET BRIDGI	E PLUG @	13,016',	NIPPLE DOC	WN & S	SET OUT BO	P, CAP	OFF WELL	RIG
Operation	ns Next Rep						×					-			
			Reported Da	ED COM 1H				-				***			
No	Contraction of the Contraction o	No			RLG FRMN, JOE	HARRIS, ;	CONTRA	CT DRLG F	RMN, VI	CTOR HERN	ANDEZ,				
Time L	.og														
Start Time	End Time	Dur (hr)	End Dept (ftKB)		Sub-Activity					Com			-		NPT?
06:00	12:30	6.50		50 SWC						OOL, FINISH		NG 30 MORE	CORES	S FOR A	No
40.00	10.00	5.50	44.7	50 L 000 N				Part of the second		RELINE TRU					
12:30	18:00	5.50	14,7	50 LOGGING								RING W/ JU DOWN WIR			No
18:00	04:00	10.00	14,7	50 ND BOP								RAM BLOCK			No
												TUBBING H	EAD CA	PPING	
04:00	06:00	2.00	14.7	50 RD W/CR						0 @ 04:00 AN		FED COM 1H	THIS A	M	No
		2.00		oo itto tiioit		***FINAL F	REPORT**	* USED 46	LOADS F	W, 35 LOAD	SOFB	RINE 98 HRS	STAND	BY/JET	140
Dias 0	DUIA					PITS/WOF	RK ON LO	CATION, 5	1 SOLID	S BINS, 98 LO	DADS M	IUD/CMT, 10	TRANSI	FERS.	
Bits & Bit Run	Size (in) M	lake I	Model SN	Depth In (ft.,	Depth Out	Length (ft)	Job Drill Hr.	Job Circ	Hr Ava ROP (f.	Rot Time	e (hr) Slide Time.	Nozzles	(1/32")	W-Mc-t-
BHA#			[NO NAME OF TAXABLE	77.4400000		Tool									
DIA#			wiin vveignt	on Bit (1000lbf)	Max Weight on Bit (10	DUOIDT) Min	RPM (rpm)		Max RPM (m	om)	Min Stan	d Pipe Pressure (p	osi) Max S	Stand Pipe Pre	ssure (psi)
String Le	ngth (ft)						V	Veight of String	in Air (1000)	bf)					
Drill S	tring Co	mponei	nts							dem - 1, 111, 112, 12		1,100 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			
Jt	is				Item Des				OD	(in)		Len (ft)		Cum Len (ft)
Drilline	g Param	eters			The state of the s						4				
Wellbore			art Depth (ftK)	B) End C	Pepth (ftKB)	um Depth Dril	lled (ft)	nilling Time (hr)		Cum Drilling Time	(hr)	interval ROP (ft/hr	F	low Rate (gpm	1)
Weight o	n Bit (1000l	bf) RF	PM (rpm)	Stand	Pipe Pressure (psi) D	orill Str Wt (100	noihe P	U Str Wt (1000	lhf)	SO Str Wt (1000lb	A I	Drilling Torque		Off Bottom Toro	NIA.
			14341	Otana	Tipe Tressure (psi)	7 VV VV (100	JOID!)	0.00 441(1000		30 3ti W(1000ii	"	Drining Forque		on Bottom Torc	luc
	ulic Calc		S	Dit Hydraulia Day	er Per Hole Area (hp/in	a) Bit Jet Ve	locity (ff/o)		I Bit Do	essure Drop (psi)		Inomon	af Droggu	re Drop at Bit ((0/)
				Dit Hydraulic Fow	rei Fei Tiole Area (ripilir) bit set ve	locity (ibs)		Ditrit	ssaule Diop (psi)		Leiceit	i oi riessu	16 Drop at Bit ((70)
Max Casi	ing AV (ft/m	in)		Max Open Hole A	AV (ff/min)	Min Casir	ng AV (ft/min)		Min O	pen Hole AV (ft/m	in)	ECD E	nd (lb/gal)		
Error				L	en and an and an		10	 			-				***************************************
Mud P	ropertie	9											ligi me		
Time	roportio		Туре	w	Depth (ftKB)	Der	nsity (lb/gal)	T	unnel Visco	sity (s/qt)	PV Calc	(cP)	YP C	alc (lbf/100ft²)	-
Gel 10 se	ec (lbf/100ft	2)	Gel 10 min	(Ihf/100ft²)	Filtrate (mL/30min)	Filte	er Cake (1/32"		оН		Solids (%	6)	Lime	(lb/bbl)	
		,													
Chlorides	(mg/L)		WPS (mg/L)	Calcium (mg/L)	Ele	ctric Stab (V)		Pm (mL/mL)		Pf (mL/m	nL)	Perce	ent Oil (%)	
Oil Water	Ratio		Flow Line To	emperature (°F)	Vis 6rpm	Lov	w Gravity Solid	s (%)	Magnesium ((mg/L)	HTHP Fil	Itrate (mL/30min)	HTHE	Filter Cake (1	/32")
Min Back	ground Gas	s	Max B	ackground Gas	Min Conne	ction Gas	IM	lax Connection	Gas	Max Trip	Gas	i	Max H2S ((mag	
				adingi bana dab	IIIII OSIIII					11100				F.F/	
Mud A	dditive /	The state of the s	s	Unite		Dan		Con	aumad		On L	00		Returned	
	Des	,		Units		Rec		Col	nsumed		OIL	.00		Returned	
Pump	# 1, Tri	plex								A Colposition					
Pump Nu 1	ımber			Start Date 12/7/2016 06	3:00	End Date 12/13/2	2016 06:00		Make Borr	ico		Model F-160	00		
Action Ty	rpe	,		12/1/2010 00	3.00	112/10/2		iner Size (in)	15011	100					
Duman	# 2 Tal	nlev		10, 10, 10, 10, 10, 10, 10, 10, 10, 10,											
Pump No	# 2, Tri	piex		Start Date		End Date			Make			Model			
2				12/7/2016 06	6:00	12/13/2	2016 06:00	-	Borr	ico		F-160	00		
Action Ty								iner Size (in)							
	y Data											4 40 40			LODG!
	MD (ftKB) 14,75	00.00	Incl (1.10	Azm (°) 17.60	TVD (fi	4,747.09	VS (ft	101.75	NS (ft)	69.71	EW (ft)	74.12	DLS (°/1	0.00
Casin	g String				17.00		1	ordings to be a selected		pace men		Zamaletanes			
		Cymhus Neit	0	Dos		0.5) (in)	Wt of Long		Grade		Set Depth (f	KB)	FIT (p	isil
Condu	ctor		Csg	Des	or the second	OL	30 (in)	(lb/	118.52			Set Depth (f	120.0	rii (p	,31)
Surfac							20		106.50	J-55			826.0		No. of the last of
Interm							13 3/8		61.00				,555.5		
Interm							9 5/8		40.00	N-80	-		,696.0	- A James	2,811.6

Nominal ID (in) 13 5/8

Last BOP Test Date 11/14/2016

Report Printed: 12/13/2016

BOPs

Pressure Rating (psi) 10,000.0



Date: 12/13/2016

Report #: 44.0

DSS: 41.13

Well Name: ZIA AGI #2D

Proposed:

Lat: 32.643951 Long: -103.811116

Formation Formation Name Prog Top MD (ftKB) MONTOYA 14,511.00 Fluids, Disposal and Water

Supply Item Des Unit Label Received Consumed Cum On Loc Returned

Costs Summary

Billing Category	Cost Des	Daily Field Est (Cost)	Cum Fid Est (Cost)	AFE Amt (Cost)
209	D-Daywork Contract	\$16,000	\$699,000	\$0
211	D-Fuel & Power	\$2,118	\$118,329	\$0
226	D-Company Sprvsn	\$1,800	\$79,200	\$0
227	D-Contract Sprvsn	\$3,200	\$140.800	\$0
230	D-Logging D-Logging	\$126,600	\$277,550	\$0
235	D-Rentals-Surface	\$13,365	\$235,790	\$0
236	D-Rentals-Subsrfc	\$325	\$108,610	\$0
244	D-Envmntl/Clsd Loop	\$2,750	\$240,549	\$0
414	D-Pckrs/Anchors/Hgrs	\$10,500	\$10,500	\$0



PľUWI 30-025-42207	the second second second second	gal Location (W; SEC19-T1)		id Name 31	County LEA		State NM	Well Configuration Type Vertical
original K5 Elevation (ft) 3,572.00		Head Distance	(ft) Sp.	d Date /2/2016 03:00	Rig Release D		PBTD (All) (fKB)	Total Depth All (TVD) (fix8) Original Hole - 188.0
ob Category COMPLETION		Primary J			Start Date 12/13/2016		End D	
0 Objective		INTIA	COMPLE	NON.	12/13/2010			
ontractor		rew		Rig Typ	e	Rig Start	t Date	Rig Release Date
ARIES FENumber	46		FE+ Supp Amo		oletion/Workover Daily Field Est	12/13/ Total (Cost)	Cun	n Fleid Est To Date (Cost)
009612					\$22,285		\$6	8,685
Daily Readings leport Start Date 12/16/2016					Report End Da 12/17/2018			
ast 24 Hours Operation Summ	CP, FINISH	RIH W/BIT IN 20 MIN.	, TAG CBP , RIH TO 1	@ 12,986' (T 3,020', CIRC.	BG. TALLY DEPTH),	NU TBG. S	TRIPPER, R/U 3.5 P E TO HIGH WINDS.	OWER SWIVEL, BREAK (LOST 30 BBLS, FLUID AFTER
perations at Report Time SDON					CHECK W	it Report Period /ELL PRESS S UP IF NEE		DED, RIH TO TD, MAY CIRC.
Daily Contacts	Job Contact		Ť		Title		1	Mobile
SARY HENRICH, WE		ERVISOR	W	ELLSITE SUP			(575)631-4234	III Addition
Time Log Start Time End Time	Dur (fir)	Activity Code		Activity	Ť		Com	
06:00 19:00	13.00	Aut my Code		racing.			Sull	
Daily Pressures			Pressure (psl)	String	A A		Note	
rocci na Two							IVUIE	
ressure Type DSG			0.0					
							Note	
DSG ressure Type			0.0 Pressure (psi)				Note	
DSG ressure Type			0.0 Pressure (psi)				Note	
DSG ressure Type			0.0 Pressure (psi)				Note	



API'UWI 30-025-42207	Surface Legal Location 1893/S 950/W; SEC1	The second secon	d Name	County LEA		State NM	Well Configuration Type Vertical
Original KB Elevation (ft) 3,572.00	K5-Tubing Head Dist	tance (ff) Spu	Date /2/2016 03:00	Rig Release Da 12/13/2016	ne l	PETD (All) (fix5)	Total Depth All (TVD) (ftX8) Original Hole - 188.0
Job Category		ary Job Type	-1-1	Start Date		End Da	
COMPLETION 100 Objective	lixi	TIAL COMPLE	HON	12/13/2016			
Contractor	#Crew		Rig Type	S AVENUE S	Rig Start Date		Rig Release Date
ARIES AFE Number	46	otal AFE+ Supp Amo		on/Workover Daily Fleid Est 1	12/13/2016 otal (Cost)	Curr	r Fleid Est To Date (Cost)
009612 Daily Readings			morner.	\$18,885		\$87	7,570
Report Start Date 12/17/2016				Report End Date 12/18/2016			
last 24 Hours Operation Summ AOL/HSM, 0# SITP & 717', WORK FREE & LEFT BIT SWINGING Operations at Report Time SDON	CP, RIH W/55 JTS. PULL UP IN TO CS	G., SD FOR 2	P-110 EUE TBG., HRS. FOR WIND	, POOH & LD A T	OTAL OF 146 J	TS. ON PIPE RA	OUT W/TBG. & HUNG UP @ 14 ACKS, SB 226 JTS. IN DERRICE , RIH W/PKR., SET, ND BOP, N
Daily Contacts				TINEL.			
GARY HENRICH, WE	Job Contact LLSITE SUPERVIS	OR W	ELLSITE SUPERV	/ISOR		(575)631-4234	Mobile
Time Log							
Start Time	Dur (nr) Activity (Code	Activity			Com	
Daily Pressures							
Pressure Type CSG		Pressure (psl) 0.0	String		Note		
Pressure Type TBG		Pressure (psi) 0.0	String		Note		



Report # 6.0, Report Date: 12/19/2016

API/UWI 30-025-42207	Surface Le	gai Location AW: SEC19-T19S-R	Fleid Nar 32E AGI	ne .	LEA		State NM		Well Configuration Type Vertical
Original KB Elevation (ft) 3,572.00		Head Distance (ft)	Spud Dat	e 016 03:00	Rig Release Da 12/13/2016		PETD (All) (f	K5)	Total Depth All (TVD) (ftKB) Original Hole - 188.0
ob Category COMPLETION		Primary Job T INITIAL C	pe OMPLETIO	N	Start Date 12/13/2016			End Date	
ob Objective									
Contractor ARIES	#0 48	rew		Rig Type Completio	on/Workover	Rig Start 12/13/			Rig Release Date
VFE Number 009612	- 1	Total AFE+	Supp Amount (C	Cost)	Daily Fleid Est T \$19,885	otal (Cost)		Cum Fleid \$107,4	Est To Date (Cost) 55
Daily Readings									
Report Start Date					Report End Date 12/19/2016				
W/2.25 "F" PROFILE	CP, FINISH ON 314 JTS BOP, INSTA	OF 3.5" P-11 LL 2 WAY CH	0 WS, SET ECK, NU 3	PKR. @ 10,01 1/8" X 5M TRE	5', WAIT 2 HRS. E, TEST VOID 25	FOR TREE	, INSTALL TB 000# HIGH F	G. HANGE OR 10 MIN	BOTTOM & O/O TOOL ON T R, LAND TBG. IN 20 PTS. . EACH, TEST TREE TO 25
Past 24 Hours Operation Sun AOL/HSM, 0# SITP W/2.25 *F* PROFILI COMPRESSION, NI LOW, 5000# HIGH I	CP, FINISH ON 314 JTS BOP, INSTA	OF 3.5" P-11 LL 2 WAY CH	0 WS, SET ECK, NU 3	PKR. @ 10,01 1/8" X 5M TRE	5', WAIT 2 HRS. EE, TEST VOID 26 SG. O 1000# FOR Operations Next MIRU SCH	FOR TREE 50# LOW, 5 10 MIN., C Report Period LUMBERG	, INSTALL TB 000# HIGH F K, SWI, SDO	G. HANGE OR 10 MIN N. E TRUCK,	R, LAND TBG. IN 20 PTS.
Past 24 Hours Operation Sun AOL/HSM, 0# SITP W/2.25 *F* PROFILI COMPRESSION, NI LOW, 5000# HIGH Decrations at Report Time SDON	CP, FINISH ON 314 JTS BOP, INSTA	OF 3.5" P-11 LL 2 WAY CH	0 WS, SET ECK, NU 3	PKR. @ 10,01 1/8" X 5M TRE	5', WAIT 2 HRS. EE, TEST VOID 26 SG. O 1000# FOR Operations Next MIRU SCH	FOR TREE 50# LOW, 5 10 MIN., C Report Period LUMBERG	, INSTALL TB 000# HIGH F 0K, SWI, SDO ER SLICK LIN	G. HANGE OR 10 MIN N. E TRUCK,	R, LAND TBG. IN 20 PTS. . EACH, TEST TREE TO 25
Past 24 Hours Operation Sun AOL/HSM, 0# SITP W/2.25 *F* PROFILI COMPRESSION, NI LOW, 5000# HIGH I Decrations at Report Time SDON Daily Contacts	& CP, FINISH ON 314 JTS BOP, INSTA OR 10 MIN. I	, OF 3.5° P-11 LL 2 WAY CH EACH, ALL OK	0 WS, SET ECK, NU 3 , PULL CHI	PKR. @ 10,01 1/8" X 5M TRE ECK, TEST CS	5', WAIT 2 HRS. E, TEST VOID 26 SG. O 1000# FOR Operations Next MIRU SCH GAUGES F	FOR TREE 50# LOW, 5 10 MIN., C Report Period LUMBERG	, INSTALL TB 000# HIGH F 0K, SWI, SDO ER SLICK LIN L BHP READII	G. HANGE OR 10 MIN N. E TRUCK, NGS.	R, LAND TBG. IN 20 PTS. . EACH, TEST TREE TO 25
Past 24 Hours Operation Sun AOL/HSM, 0# SITP W/2.25 *F* PROFILI COMPRESSION, NI LOW, 5000# HIGH Deparations at Report Time SDON Daily Contacts	& CP, FINISH ON 314 JTS BOP, INSTA OR 10 MIN. I	, OF 3.5° P-11 LL 2 WAY CH EACH, ALL OK	0 WS, SET ECK, NU 3 , PULL CHI	PKR. @ 10,01 1/8" X 5M TRE	5', WAIT 2 HRS. E, TEST VOID 26 SG. O 1000# FOR Operations Next MIRU SCH GAUGES F	FOR TREE 50# LOW, 5 10 MIN., C Report Period LUMBERG	, INSTALL TB 000# HIGH F 0K, SWI, SDO ER SLICK LIN	G. HANGE OR 10 MIN N. E TRUCK, NGS.	R, LAND TBG. IN 20 PTS EACH, TEST TREE TO 25 RIH W/PRESS./TEMP
Past 24 Hours Operation Sun AOL/HSM, 0# SITP W/2.25 *F* PROFILI COMPRESSION, NI LOW, 5000# HIGH I Operations at Report Time SDON Daily Contacts GARY HENRICH, W	& CP, FINISH ON 314 JTS BOP, INSTA OR 10 MIN. I	, OF 3.5° P-11 LL 2 WAY CH EACH, ALL OK	0 WS, SET ECK, NU 3 , PULL CHI	PKR. @ 10,01 1/8" X 5M TRE ECK, TEST CS	5', WAIT 2 HRS. E, TEST VOID 26 SG. O 1000# FOR Operations Next MIRU SCH GAUGES F	FOR TREE 50# LOW, 5 10 MIN., C Report Period LUMBERG	, INSTALL TB 000# HIGH F 0K, SWI, SDO ER SLICK LIN L BHP READII	G. HANGE OR 10 MIN N. E TRUCK, NGS.	R, LAND TBG. IN 20 PTS EACH, TEST TREE TO 25 RIH W/PRESS./TEMP
Past 24 Hours Operation Sun AOL/HSM, 0# SITP W/2.25 *F* PROFILI COMPRESSION, NI LOW, 5000# HIGH Deparations at Report Time SDON Daily Contacts GARY HENRICH, W Time Log Start Time End Tim	& CP, FINISH ON 314 JTS BOP, INSTA OR 10 MIN. I	, OF 3.5° P-11 LL 2 WAY CH EACH, ALL OK	0 WS, SET ECK, NU 3 , PULL CHI	PKR. @ 10,01 1/8" X 5M TRE ECK, TEST CS	5', WAIT 2 HRS. E, TEST VOID 26 SG. O 1000# FOR Operations Next MIRU SCH GAUGES F	FOR TREE 50# LOW, 5 10 MIN., C Report Period LUMBERG	, INSTALL TB 000# HIGH F 0K, SWI, SDO ER SLICK LIN L BHP READII	G. HANGE OR 10 MIN N. E TRUCK, NGS.	R, LAND TBG. IN 20 PTS EACH, TEST TREE TO 25 RIH W/PRESS./TEMP
Past 24 Hours Operation Sun AOL/HSM, 0# SITP W/2.25 *F* PROFILI COMPRESSION, NI LOW, 5000# HIGH Operations at Report Time SDON Daily Contacts GARY HENRICH, W Time Log Start Time End Tim 06:00 21:00	& CP, FINISH ON 314 JTS BOP, INSTA OR 10 MIN. I	OF 3.5° P-11 LL 2 WAY CH FACH, ALL OK	0 WS, SET ECK, NU 3 , PULL CHI	PKR. @ 10,01 1/8" X 5M TRE ECK, TEST CS	5', WAIT 2 HRS. E, TEST VOID 26 SG. O 1000# FOR Operations Next MIRU SCH GAUGES F	FOR TREE 50# LOW, 5 10 MIN., C Report Period LUMBERG	; INSTALL TB 1000# HIGH FO 10K, SWI, SDOO ER SLICK LIN L BHP READII	G. HANGE OR 10 MIN N. E TRUCK, NGS.	R, LAND TBG. IN 20 PTS EACH, TEST TREE TO 25 RIH W/PRESS./TEMP
Past 24 Hours Operation Sun AOL/HSM, 0# SITP W/2.25 *F* PROFILI COMPRESSION, NI LOW, 5000# HIGH Operations at Report Time SDON Daily Contacts GARY HENRICH, W Time Log Start Time End Tim D6:00 21:00 Daily Pressures	& CP, FINISH ON 314 JTS BOP, INSTA OR 10 MIN. I	OF 3.5° P-11 LL 2 WAY CH EACH, ALL OK PERVISOR ACTIVITY Code	0 WS, SET ECK, NU 3 , PULL CHI	PKR. @ 10,01 1/8" X 5M TRE ECK, TEST CS	5', WAIT 2 HRS. E, TEST VOID 26 SG. O 1000# FOR Operations Next MIRU SCH GAUGES F	FOR TREE 50# LOW, 5 10 MIN., C Report Period LUMBERG	; INSTALL TB 1000# HIGH FO 10K, SWI, SDOI 10K, SWI, SWI, SWI, SWI, SWI, SWI, SWI, SWI	G. HANGE OR 10 MIN N. E TRUCK, NGS.	R, LAND TBG. IN 20 PTS EACH, TEST TREE TO 25 RIH W/PRESS./TEMP
Past 24 Hours Operation Sun AOL/HSM, 0# SITP W/2.25 *F* PROFILI COMPRESSION, NI LOW, 5000# HIGH Operations at Report Time SDON Daily Contacts GARY HENRICH, W Time Log Start Time End Tim D6:00 21:00	& CP, FINISH ON 314 JTS BOP, INSTA OR 10 MIN. I	OF 3.5° P-11 LL 2 WAY CH EACH, ALL OK PERVISOR ACTIVITY Code	0 WS, SET ECK, NU 3 , PULL CHI WELL Activi	PKR. @ 10,01 1/8" X 5M TRE ECK, TEST CS	5', WAIT 2 HRS. E, TEST VOID 26 SG. O 1000# FOR Operations Next MIRU SCH GAUGES F	FOR TREE 50# LOW, 5 10 MIN., C Report Period LUMBERG	; INSTALL TB 1000# HIGH FO 10K, SWI, SDOO ER SLICK LIN L BHP READII	G. HANGE OR 10 MIN N. E TRUCK, NGS.	R, LAND TBG. IN 20 PTS EACH, TEST TREE TO 25 RIH W/PRESS./TEMP



Original K5 Elevation (ft) 3,572.00 Job Category COMPLETION Job Objective	Total AFE+ Supp ER SLICKLINE, 0#	Amount (Cost) SITP, RIH W	33:00 Stant 12/1 Rig Type Completion/Wo	orkover Daily Fleid Est Tot \$8,685 Report End Date 12/20/2016	Rig Start Date 12/13/2016	Cur	ate	Total Depth All (TVD) (flx8) Original Hole - 188.0 ease Date late (Cost)
COMPLÉTION Iob Objective Contractor ARIES 4 AFE Number D09612 Daily Readings Report Start Date 12/119/2016 Past 24 Hours Operation Summary AOL/HSM, MIRU SCHLUMBERG POOH MAKING 40 STOPS FOR	INITIAL COMF Crew 6 Total AFE+ Supp ER SLICKLINE, 0#	Amount (Cost) SITP, RIH W	tig Type Completion/Wo	orkover Daily Fleid Est Tot \$8,685 Report End Date 12/20/2016	12/13/2016	Gur	Rig Rei m Field Est To D	100-10-
contractor ARIES 4 ARIES 4 WE Number 009612 Daily Readings Report Start Date 12/19/2016 AOL/HSM, MIRU SCHLUMBERG POOH MAKING 40 STOPS FOR 00000000000000000000000000000000000	Total AFE+ Supp	Amount (Cost) SITP, RIH W	Completion/Wo	Daily Fleid Est Tot \$8,685 Report End Date 12/20/2016	12/13/2016	Cur	m Field Est To D	100-10-
ARIES 4 FE Number 209612 Daily Readings 12/19/2016 ast 24 Hours Operation Summary AOL/HSM, MIRU SCHLUMBERG POOH MAKING 40 STOPS FOR 10 perations at Report Time	Total AFE+ Supp ER SLICKLINE, 0#	Amount (Cost) SITP, RIH W	Completion/Wo	Daily Fleid Est Tot \$8,685 Report End Date 12/20/2016	12/13/2016	Cur	m Field Est To D	100-10-
Daily Readings eport Start Date 2/19/2016 set 24 Hours Operation Summary OL/HSM, MIRU SCHLUMBERG OOH MAKING 40 STOPS FOR perations at Report Time	ER SLICKLINE, 0#	SITP, RIH W	I/PRESS./TEMF	\$8,685 Report End Date 12/20/2016	# (Cost):			ate (Cost)
aport Start Date 2/19/2016 set 24 Hours Operation Summary OL/HSM, MIRU SCHLUMBERG OOH MAKING 40 STOPS FOR	ER SLICKLINE, 0# 5 MIN. GRADIENT	SITP, RIH W S, RD SL, S\	V/PRESS./TEMF	12/20/2016				
2/19/2016 set 24 Hours Operation Summary OL/HSM, MIRU SCHLUMBERG OOH MAKING 40 STOPS FOR perations at Report Time	ER SLICKLINE, 0# 5 MIN. GRADIENT	SITP, RIH W S, RD SL, SI	V/PRESS./TEMF	12/20/2016				
OL/HSM, MIRU SCHLÜMBERG OOH MAKING 40 STOPS FOR verations at Report Time	ER SLICKLINE, 0# 5 MIN. GRADIENT	SITP, RIH W S, RD SL, S	V/PRESS./TEMF	0.00000				
						1,751' (WLM) CC	DLLECT BH	IP & BASELINE TEMP
				Operations Next R START SWA				
aily Contacts								
Job Contact SARY HENRICH, WELLSITE SUI	DERVISOR	WELLSITE	SUPERVISOR			(575)631-4234	Mot	sile
	LIVIOUN	IN ECCOUNT	SOI ENVISOR			(0/0)001-4204		
ime Log Start Time End Time Dur (hr)	Activity Code	Activity	- 1			Cam		
6:00 20:00 14.00	A SECTION OF STREET	1,000.00				250		
aily Pressures								
essure Type SG	Pressure 0.0	(psi) Strin	9		Note			
ressure Type "BG	Pressure 0.0	(psl) Strin	9		Note	î.		



APPUWI 30-025-42207	Surface Legal Local 1893/S 950/W: SEC		Fleid Name AGI	County LEA		State NM		Well Configuration Type Vertical
Original KB Elevation (ft) 3,572.00	K5-Tubing Head Di	stance (ff)	Spud Date 11/2/2016 03:00		Rig Release Date 12/13/2016 04:00			Total Depth All (TVD) (ftKB) Original Hole - 188
ob Category COMPLETION		mary Job Type ITIAL COMPI	LETION	Start Date 12/13/2016		End	Date	
ob Objective								
contractor ARIES	#Crew 46		Rig Typ Comp	e oletion/Workover	Rig Start 12/13/2		Rig Re	elease Date
FE Number 109612		Total AFE+ Supp A	knount (Cost)	Daily Fleid Es \$10,435	Total (Cost)		tum Field Est To 1 126,575	Date (Cost)
Daily Readings								
eport Start Date 12/20/2016				Report End Da 12/21/201				
SETTING DIRTIER I STILL DIRTY W/SME	OOKING & HAS A	GAS SMELL,	(WATER IS WE	EIGHING 8.6 PPG) (FLOWLINE FROM S	NO SIGN OF SWAB TANK	H2S) LAST RUN	WATER WA	
SETTING DIRTIER I STILL DIRTY W/SME operations at Report Time SDON	OOKING & HAS A	GAS SMELL,	(WATER IS WE	EIGHING 8.6 PPG) (FLOWLINE FROM S Operations Ne	NO SIGN OF	H2S) LAST RUN	WATER WA	AS STILL @ 8.6 PPG
GETTING DIRTIER I STILL DIRTY W/SME Operations at Report Time SDON	OOKING & HAS A	GAS SMELL,	(WATER IS WE	EIGHING 8.6 PPG) (FLOWLINE FROM S Operations Ne CON'T SV	NO SIGN OF SWAB TANK at Report Period	H2S) LAST RUN	WATER WA	AS STILL @ 8.6 PPG EZING, SDON.
GETTING DIRTIER I STILL DIRTY W/SME Operations at Report Time SDON Daily Contacts	OOKING & HAS A	GAS SMELL, I2S) SWI, RD	(WATER IS WE	EIGHING 8.6 PPG) (FLOWLINE FROM S Operations Ne CON'T SV	NO SIGN OF SWAB TANK at Report Period	H2S) LAST RUN	WATER WA	AS STILL @ 8.6 PPG
GETTING DIRTIER I STILL DIRTY W/SME Operations at Report Time SDON Daily Contacts GARY HENRICH, W	JOD CONTROL JOD CONTROL JOD CONTROL ELL SITE SUPERVIS	GAS SMELL, 12S) SWI, RD	, (WATER IS WE SWAB, DRAIN	EIGHING 8.6 PPG) (FLOWLINE FROM S Operations Ne CON'T SV	NO SIGN OF SWAB TANK at Report Period	H2S) LAST RUN TO WELL TO PRI	WATER WA	AS STILL @ 8.6 PPG EZING, SDON.
GETTING DIRTIER I STILL DIRTY W/SME Operations at Report Time SDON Daily Contacts GARY HENRICH, W Time Log Start Time End Time	JOD CONTACT LL OF GAS, (NO H JOD CONTACT ELLSITE SUPERVI:	GAS SMELL, 12S) SWI, RD	, (WATER IS WE SWAB, DRAIN	EIGHING 8.6 PPG) (FLOWLINE FROM S Operations Ne CON'T SV	NO SIGN OF SWAB TANK at Report Period	H2S) LAST RUN TO WELL TO PRI	WATER WA	AS STILL @ 8.6 PPG EZING, SDON.
SETTING DIRTIER I STILL DIRTY W/SME SPERATORS AT REPORT TIME SDON Daily Contacts SARY HENRICH, W Fime Log Start Time End Time 26:00 20:00	JOD CONTROL JOD CONTROL JOD CONTROL ELL SITE SUPERVIS	GAS SMELL, 12S) SWI, RD	, (WATER IS WE SWAB, DRAIN WELLSITE SUP	EIGHING 8.6 PPG) (FLOWLINE FROM S Operations Ne CON'T SV	NO SIGN OF SWAB TANK at Report Period	(575)631-423	WATER WA	AS STILL @ 8.6 PPG EZING, SDON.
SETTING DIRTIER I STILL DIRTY W/SME SPERIOR AT REPORT TIME SDON Daily Contacts GARY HENRICH, W Time Log Start Time End Time 06:00 20:00 Daily Pressures	JOD CONTACT LL OF GAS, (NO H JOD CONTACT ELLSITE SUPERVI:	GAS SMELL, 12S) SWI, RD	(WATER IS WE SWAB, DRAIN WELLSITE SUP	EIGHING 8.6 PPG) (FLOWLINE FROM S Operations Ne CON'T SV	NO SIGN OF SWAB TANK of Report Period VABBING.	(575)631-423	WATER WA	AS STILL @ 8.6 PPG EZING, SDON.
GETTING DIRTIER I STILL DIRTY W/SME Operations at Report Time SDON Daily Contacts GARY HENRICH, W Time Log Start Time End Time	JOD CONTACT LL OF GAS, (NO H JOD CONTACT ELLSITE SUPERVI:	GAS SMELL, 12S) SWI, RD	(WATER IS WE) SWAB, DRAIN WELLSITE SUP Activity String	EIGHING 8.6 PPG) (FLOWLINE FROM S Operations Ne CON'T SV	NO SIGN OF SWAB TANK of Report Period VABBING.	(575)631-423	WATER WA	AS STILL @ 8.6 PPG EZING, SDON.



API/UWI 30-025-42207	Surface Legal Location 1893/S 950/W; SEC19-1	Fleid Na 198-R32E AGI	ame	County LEA	State NM	Well Configuration Type Vertical
Original KB Elevation (ft) 3,572.00	K5-Tubing Head Distant	ce (T) Spud Da	ne 2016 03:00	Rig Release Date 12/13/2016 04:0	PETD (All) (fix	
ob Category COMPLETION		Job Type AL COMPLETIO		Start Date 12/13/2016		End Date
lob Objective						
Contractor	#Crew 46		Rig Type Completio		Rig Start Dale 12/13/2016	Rig Release Date
AFE Number 009612		AFE+ Supp Amount (Daily Field Est Total (C \$7,135	ost):	Cum Fleid Est To Date (Cost) \$133,710
Daily Readings						12.000
Report Start Date 12/21/2016				Report End Date 12/22/2016		
SWARTZ W/THE BLN		WITNESS, GE	DLEX CAUGHT	10 SAMPLES IN LAS	T 100 BBLS, SWABBI	EC. IN SWAB TEST 506 BW, (MR. PA ED (WILL TAKE TO CARDINAL LAB
SDFH				SDFH	. Period	
Daily Contacts						
GARY HENRICH, WE	Job Contact LLSITE SUPERVISOR	R WELI	SITE SUPERVI	Title ISOR	(575)631-4	Mobile 4234
Time Log						
Start Time	Dur (hr) Activity Coo	le Acti	nty		Com	l.
Daily Pressures	10.00					
Pressure Type		Pressure (psi)	String		Note	
CSG Pressure Type		0.0 Pressure (psi)	String		Note	
TBG		0.0	120			
		0.0				



Well Name: ZIA AGI #2D

Report # 11.0, Report Date: 12/24/2016

Report Printed: 12/27/2016

API'UWI 30-025-42207	Surface Legal Loca 1893/S 950/W; SE		Fleid Name AGI		LEA .		State NM		Well Configuration Type Vertical
Original KB Elevation (ft) 3,572.00	K5-Tubing Head D	(stance (ft)	Spud Date 11/2/201	6 03:00	Rig Release Dat 12/13/2016		PETD (All)	(flX5)	Total Depth All (TVD) (ftXB) Original Hole - 188.0
Job Category COMPLETION		mary Job Type IITIAL COMP	LETION		Start Date 12/13/2016			End Date	
Job Objective	-				•				
Contractor ARIES	#Crew 46			Rig Type Complet	tion/Workover	Rig Start 12/13/			Rig Release Date
AFE Number 009612		Total AFE+ Supp	Amount (Cos	sit):	Daily Fleid Est To \$3,335	otal (Cost)		S140,3	Est To Date (Cost) 80
Daily Readings									
Report Start Date 12/23/2016					Report End Date 12/24/2016	-			
Past 24 Hours Operation Summ WELL SHUT IN FOR		IDAY, NO A	CTIVITY.						
Operations at Report Time SDFH					Operations Next SDFH	Report Period			
Daily Contacts	7.0								
	Job Contact				Title		10000		Modife
GARY HENRICH, WE	LLSITE SUPERVI	SOR	WELLS	TE SUPER	VISOR		(575)63	31-4234	
Daily Pressures									
Pressure Type CSG		Pressure	(psi)	String			Note		
Pressure Type TBG		Pressure	(psl)	String			Note		



Well Name: ZIA AGI #2D

Report # 12.0, Report Date: 12/25/2016

Report Printed: 12/27/2016

API'UWI 30-025-42207	Surface Legal Location 1893/S 950/W: SEC19-T19S-R	32E AGI	ame	County LEA		State NM	Well Configuration Type Vertical
Original KB Elevation (ft) 3,572.00	K5-Tubing Head Distance (ft)	Spud D: 11/2/.	ate 2016 03:00	Rig Relesse Date 12/13/2016 0	4:00	PSTD (All) (flK5)	Total Depth All (TVD) (ftk8) Original Hole - 188.0
Job Category COMPLETION	Primary Job T INITIAL C		ON	Start Date 12/13/2016		End Date	
Job Objective							
Contractor ARIES	#Crew 46		Rig Type Completio	n/Workover	Rig Start Da 12/13/20		Rig Release Date
AFE Number 009612	Total AFE+	Supp Amount	(Cost)	Daily Fleid Est Tota \$3,335	I (Cost)		Field Est To Date (Cost) 3,715
Daily Readings							
Report Start Date 12/24/2016				Report End Date 12/25/2016			
Past 24 Hours Operation Summ WELL SHUT IN FOR	ary CHRISTMAS HOLIDAY, N	O ACTIVIT	Υ.				
Operations at Report Time SDFH				Operations Next Re SDFH	eport Period		
Daily Contacts						3.	
	Job Contact			Title			Mobile
GARY HENRICH, WE	LLSITE SUPERVISOR	WEL	LSITE SUPERVI	ISOR		(575)631-4234	
Daily Pressures							
Pressure Type CSG	Pre	ssure (psi)	String		No	te	
Pressure Type TBG	Pre	ssure (psl)	String		No	le .	



Well Name: ZIA AGI #2D

Report # 13.0, Report Date: 12/26/2016

API'UWI 30-025-42207	Surface Legal Li 1893/S 950/W; 3	ocation SEC19-T19S-R32E	Fleid Name AGI		LEA .		State NM		Well Configuration Type Vertical
Original KB Elevation (f) 3,572.00	K5-Tubing Hear	d Distance (ff)	Spud Date 11/2/2016	03:00	Rig Relesse Da 12/13/2016		PSTD (All) (tks)	Total Depth All (TVD) (flx8) Original Hole - 188.0
Job Category COMPLETION		Primary Job Type INITIAL COM	PLETION		Start Date 12/13/2016			End Date	
Job Objective									
Contractor ARIES	#Crew 46			Rig Type Completion	/Workover	Rig Start 12/13/			Rig Release Date
AFE Number 009612		Total AFE+ Supp	Amount (Cost)		Daily Fleid Est 1 \$3,335	Fotal (Cost)		S147,05	Est To Date (Cost) O
Daily Readings									
Report Start Date 12/25/2016					Report End Date 12/26/2016				
Past 24 Hours Operation Summ WELL SHUT IN FOR		OLIDAY, NO A	CTIVITY.						
Operations at Report Time SDFH					Operations Next SDFH	Report Period			
Daily Contacts									
	Job Contact				Title				Modife
GARY HENRICH, WE	ELLSITE SUPER	VISOR	WELLSITE	E SUPERVIS	OR		(575)631	-4234	
Daily Pressures									
Pressure Type CSG		Pressure	(psi) Stri	ing			Note		
Pressure Type TBG		Pressure	(psl) Stri	ing			Note		



Well Name: ZIA AGI #2D

Report # 14.0, Report Date: 12/27/2016

API/UWI 30-025-42207	the second second second second	gal Location VW: SEC19-T19S-R32E	Fleid Name AGI	LEA		NM NM		Well Configuration Type Vertical
Original KB Elevation (ft) 3,572.00	K5-Tubing	Head Distance (ff)	Spud Date 11/2/2016 03:00	Rig Release Da 12/13/2016		PBTD (All) (fi	(5)	Total Depth All (TVD) (ftk8) Original Hole - 188.0
Job Category COMPLETION		Primary Job Type INITIAL COM	PLETION	Start Date 12/13/2016			End Date	
lob Objective								
Contractor ARIES	#0 46	rew	Rig Type Compl	etion/Workover	Rig Start 12/13/			Rig Release Date
AFE Number 009612	*	Total AFE+ Supp	Amount (Cost)	Daily Fleid Est 1 \$12,285	otal (Cost)		Cum Fleid 5 \$159,33	Est To Date (Cost) 5
Daily Readings				7.00				
Report Start Date 12/26/2016				Report End Date 12/27/2016				
Past 24 Hours Operation Sum AOL/HSM, 0# SITP 8 ESTABLISH 10 BPM WAS MADE TO SW HOLE W/330 BBLS.	SÍCP, MIRU RATE @280 TCH BACK T FRESH WAT TON TO CS	7#, SWITCH TO A O WATER & PUT ER, STAND BY FO	CID, STARTED SE ACID AWAY, BLEE OR BRINE, KILL TB	EING INCREASE IN ED CSG. DOWN TO G. W/75 BBLS. BRII	CSG. PRE SWAB TAI NE, ND TRI	SSURE, WITH NK & MAINTAI EE, NU 5M HY	1 101 BBLS. N @ 1500# D. BOP, LD	ACID GONE DECISION FLUSHED ACID TO OPEN TBG. HANGER, RELEASE
Past 24 Hours Operation Sum AOL/HSM, 0# SITP 8 ESTABLISH 10 BPM WAS MADE TO SW HOLE W/330 BBLS. PKR., RU HALLIBUR ISIP VAC., SWI, SDO Operations at Report Time	SÍCP, MIRU RATE @280 TCH BACK T FRESH WAT TON TO CS	7#, SWITCH TO A O WATER & PUT ER, STAND BY FO	CID, STARTED SE ACID AWAY, BLEE OR BRINE, KILL TB	EING INCREASE IN ED CSG. DOWN TO G. W/75 BBLS. BRII H, FOLLOWED BY 1	CSG. PRE SWAB TAI NE, ND TRI 60 BBLS. B	SSURE, WITH NK & MAINTAI EE, NU 5M HY RINE DOWN	101 BBLS. N @ 1500# D. BOP, LD CSG. TO F	ACID GONE DECISION FLUSHED ACID TO OPEN TBG. HANGER, RELEASE LUSH ACID TO OPEN HOLI
Past 24 Hours Operation Sum AOL/HSM, 0# SITP & ESTABLISH 10 BPM WAS MADE TO SW HOLE W/330 BBLS. PKR., RU HALLIBUS	SÍCP, MIRU RATE @280 TCH BACK T FRESH WAT TON TO CS	7#, SWITCH TO A O WATER & PUT ER, STAND BY FO	CID, STARTED SE ACID AWAY, BLEE OR BRINE, KILL TB	EING INCREASE IN D CSG. DOWN TO G. W/75 BBLS. BRII H, FOLLOWED BY 1 Operations Next POOH W/7	CSG. PRE SWAB TAI NE, ND TRI 60 BBLS. B	SSURE, WITH NK & MAINTAI EE, NU 5M HY RINE DOWN	101 BBLS. N @ 1500# D. BOP, LD CSG. TO F	ACID GONE DECISION FLUSHED ACID TO OPEN
Past 24 Hours Operation Sum AOL/HSM, 0# SITP 8 ESTABLISH 10 BPM WAS MADE TO SW HOLE W/330 BBLS. PKR., RU HALLIBUR ISIP VAC., SWI, SDO Operations at Report Time SDON Daily Contacts	SÍCP, MIRU RATE @280: TCH BACK T FRESH WAT TON TO CSI	R#, SWITCH TO A O WATER & PUT ER, STAND BY FO G., SI TBG., PUMF	CID, STARTED SE ACID AWAY, BLEE DR BRINE, KILL TB 240 BBLS. FRESH	EING INCREASE IN D CSG. DOWN TO G. W/75 BBLS. BRII H, FOLLOWED BY 1 Operations Next POOH W/1 TBG.	CSG. PRE SWAB TAI NE, ND TRI 60 BBLS. B	SSURE, WITH NK & MAINTAI EE, NU 5M HY RINE DOWN	101 BBLS. N @ 1500# D. BOP, LD CSG. TO F.	ACID GONE DECISION FLUSHED ACID TO OPEN TBG. HANGER, RELEASE LUSH ACID TO OPEN HOLE
Past 24 Hours Operation Sum AOL/HSM, 0# SITP 8 ESTABLISH 10 BPM WAS MADE TO SW HOLE W/330 BBLS. PKR., RU HALLIBUR ISIP VAC., SWI, SDO Operations at Report Time SDON Daily Contacts	SÍCP, MIRU RATE @280: TCH BACK T FRESH WAT TON TO CSI	R#, SWITCH TO A O WATER & PUT ER, STAND BY FO G., SI TBG., PUMF	CID, STARTED SE ACID AWAY, BLEE OR BRINE, KILL TB	EING INCREASE IN D CSG. DOWN TO G. W/75 BBLS. BRII H, FOLLOWED BY 1 Operations Next POOH W/1 TBG.	CSG. PRE SWAB TAI NE, ND TRI 60 BBLS. B	SSURE, WITH NK & MAINTAI EE, NU 5M HY RINE DOWN	101 BBLS. N @ 1500# D. BOP, LD CSG. TO F.	ACID GONE DECISION , FLUSHED ACID TO OPEN) TBG. HANGER, RELEASE LUSH ACID TO OPEN HOLI ESH PKR. HYDRO TESTING
Past 24 Hours Operation Sum AOL/HSM, 0# SITP 8 ESTABLISH 10 BPM WAS MADE TO SWI HOLE W/330 BBLS. PKR., RU HALLIBUR ISIP VAC., SWI, SDO Operations at Report Time SDON Daily Contacts GARY HENRICH, W Time Log	SÍCP, MIRU RATE @280: TCH BACK T FRESH WAT TON TO CSO IN.	P#, SWITCH TO A O WATER & PUT ER, STAND BY FO O S., SI TBG., PUMF	CID, STARTED SE ACID AWAY, BLEE OR BRINE, KILL TB 240 BBLS, FRESH WELLSITE SUPE	EING INCREASE IN D CSG. DOWN TO G. W/75 BBLS. BRII H, FOLLOWED BY 1 Operations Next POOH W/1 TBG.	CSG. PRE SWAB TAI NE, ND TRI 60 BBLS. B	SSURE, WITH NK & MAINTAI EE, NU 5M HY RINE DOWN (R., START IN H	1 101 BBLS. N @ 1500# D. BOP, LD CSG. TO F	ACID GONE DECISION , FLUSHED ACID TO OPEN) TBG. HANGER, RELEASE LUSH ACID TO OPEN HOLI ESH PKR. HYDRO TESTING
Past 24 Hours Operation Sum AOL/HSM, 0# SITP 8 ESTABLISH 10 BPM WAS MADE TO SWI HOLE W/330 BBLS. PKR., RU HALLIBUR ISIP VAC., SWI, SDO Operations at Report Time SDON Daily Contacts GARY HENRICH, W Time Log Start Time End Time	SÍCP, MIRU RATE @280; TCH BACK T FRESH WAT TON TO CSO N. JOB CONTROL ELLISITE SUF	R#, SWITCH TO A O WATER & PUT ER, STAND BY FO G., SI TBG., PUMF	CID, STARTED SE ACID AWAY, BLEE DR BRINE, KILL TB 240 BBLS. FRESH	EING INCREASE IN D CSG. DOWN TO G. W/75 BBLS. BRII H, FOLLOWED BY 1 Operations Next POOH W/1 TBG.	CSG. PRE SWAB TAI NE, ND TRI 60 BBLS. B	SSURE, WITH NK & MAINTAI EE, NU 5M HY RINE DOWN	1 101 BBLS. N @ 1500# D. BOP, LD CSG. TO F	ACID GONE DECISION , FLUSHED ACID TO OPEN) TBG. HANGER, RELEASE LUSH ACID TO OPEN HOLI ESH PKR. HYDRO TESTING
Past 24 Hours Operation Sum AOL/HSM, 0# SITP 8 ESTABLISH 10 BPM WAS MADE TO SWI HOLE W/330 BBLS. PKR., RU HALLIBUR ISIP VAC., SWI, SDO Operations at Report Time SDON Daily Contacts GARY HENRICH, W Time Log Start Time End Time 06:00 21:00	SÍCP, MIRU RATE @280: TCH BACK T FRESH WAT TON TO CSO IN.	P#, SWITCH TO A O WATER & PUT ER, STAND BY FO O S., SI TBG., PUMF	CID, STARTED SE ACID AWAY, BLEE OR BRINE, KILL TB 240 BBLS, FRESH WELLSITE SUPE	EING INCREASE IN D CSG. DOWN TO G. W/75 BBLS. BRII H, FOLLOWED BY 1 Operations Next POOH W/1 TBG.	CSG. PRE SWAB TAI NE, ND TRI 60 BBLS. B	SSURE, WITH NK & MAINTAI EE, NU 5M HY RINE DOWN (R., START IN H	1 101 BBLS. N @ 1500# D. BOP, LD CSG. TO F	ACID GONE DECISION , FLUSHED ACID TO OPEN) TBG. HANGER, RELEASE LUSH ACID TO OPEN HOLI ESH PKR. HYDRO TESTING
Past 24 Hours Operation Sum AOL/HSM, 0# SITP 8 ESTABLISH 10 BPM WAS MADE TO SWI HOLE W/330 BBLS. PKR., RU HALLIBUR ISIP VAC., SWI, SDO Operations at Report Time SDON Daily Contacts GARY HENRICH, W Time Log Start Time End Time	SÍCP, MIRU RATE @280; TCH BACK T FRESH WAT TON TO CSO N. JOB CONTROL ELLISITE SUF	P#, SWITCH TO A O WATER & PUT ER, STAND BY FO O S., SI TBG., PUMF	CID, STARTED SE ACID AWAY, BLEE OR BRINE, KILL TB 240 BBLS, FRESH WELLSITE SUPE	EING INCREASE IN D CSG. DOWN TO G. W/75 BBLS. BRII H, FOLLOWED BY 1 Operations Next POOH W/1 TBG.	CSG. PRE SWAB TAI NE, ND TRI 60 BBLS. B	SSURE, WITH NK & MAINTAI EE, NU 5M HY RINE DOWN (R., START IN H	1 101 BBLS. N @ 1500# D. BOP, LD CSG. TO F	ACID GONE DECISION , FLUSHED ACID TO OPEN) TBG. HANGER, RELEASE LUSH ACID TO OPEN HOLE ESH PKR. HYDRO TESTING



Well Name: ZIA AGI #2D

Report # 15.0, Report Date: 12/28/2016

30-025-4220		1893/S 950	gal Location W; SEC19-T1		Fleid Nam AGI		LEA .		State NM		Well Configuration Type Vertical
riginal KB Eleva ,572.00	tion (fi)	K5-Tubing	Head Distance	(10)	Spud Date 11/2/20	016 03:00	Rig Relesse D 12/13/2010		PBTD (All) (fix)	5)	Total Depth All (TVD) (ftk8) Original Hole - 188.0
ob Category	SM		Primary J		PLETION	ii.	Start Date			End Date	
OMPLETIC to Objective	JN		INITIA	L COMP	PLETIO	й	12/13/2016				
ontractor		#C	rew			Rig Type		Rig Start	Date		Rig Release Date
RIES		46		EE / Sum	Amount (C	Comple	etion/Workover	12/13/		Cue Elais	Est To Date (Cost)
09612			Total A	re+ Supp	Achount (C	osij	\$16,385	Total (Cost)		\$175,72	20
aily Readin							la				
2/27/2016							12/28/2016				
OL/HSM, 0	GE PKR. ON	CP, POOH 13.5" WS	TBG. TES	TING T	O 8000#	FOUND C		JT. #151 FF	ROM SURFACE	FOUND	TBG. TESTERS, RIH. A STRESS CRACK JUST
perations at Rep DON	ort Time						ND BOP, S		TENSION, INS	TALL TB	G. HANGER & LAND TBG., N
Daily Conta		Captan			1		Tito		1		Monto
BARY HENE	RICH, WELL	SITE SUP	ERVISOR		WELLS	SITE SUPER	Title RVISOR		(575)631-4	234	Mobile
ime Log									*		
Start Time	End Time 20:00	Dur (hr) 14.00	Activity Code		Activit	y.			Com		
aily Pressu		14.00									
ressure Type	urca			Pressure	(psl)	String			Note		
SG ressure Type				0.0							
DODGE - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Dracciira	(lost)	String			Note		
				Pressure	(psi)	String			Note		
TBG		_		0.0	(psi)	String			Note		
					(psi)	String			Note		
					(psi)	String			Note		
					(psi)	String			Note		
					(psi)	String			Note		
					(psi)	String			Note		
					(psi)	String			Note		
					(psi)	String			Note		
					(psi)	String			Note		
					(psi)	String			Note		



API/UWI 30-025-42207	7	Surface Legal Loca 1893/S 950/W: SE		Fleid Name AGI		LEA .		State NM		Well Configuration Type Vertical
Original KB Elevation 3,572.00	on (ff)	K5-Tubing Head D	-114	Spud Date 11/2/2016	6 03:00	Rig Relesse Da 12/13/2016		PBTD (All) (1	K5)	Total Depth All (TVD) (ftK8 Original Hole - 188
ob Category COMPLETIO	N		mary Job Type IITIAL COMF	PLETION		Start Date 12/13/2016			End Date	
ob Objective										
Contractor ARIES		#Crew 46			Rig Type Completion	n/Workover	Rig Start 12/13/			Rig Release Date
FE Number 009612			Total AFE+ Supp	Amount (Cost	9:	Daily Fleid Est 1 \$69,385	otal (Cost)		Cum Flex \$245,1	DEST To Date (Cost)
Daily Readin	gs									
Report Start Date 12/28/2016						Report End Date 12/29/2016				
AOL/HSM, 0# RENTAL TRE 6000#, OK, E: ROCK SALT, SWITCH TO 650#/516#/44 WSU & PARK	ESITP & SI EE, TEST T ST. 10 BPN SWITCH T ACID, INCI 2#, MAX PI CON SIDE	CP, SET PKR. I O 250# FOR 10 M RATE, PUMP TO ACID, INCR REASE RATE T) MIN., TEST 87 BFW, SW EASE RATE O 10 BPM, F /G. PRESS.	TO 5000# /ITCH TO TO 10 BPI PUMP 1000	# FOR 10 MII ACID, ACIDI M, PUMP 15, 00 GALS: 209	N., GOOD TEST ZE WELL W/10 000 GALS, 20% & ACID, FLUSH I, AVG. RATE 7	T, PULL 2 W 758 GALS. ACID, RED W/1000 BE 4 BPM, TO	/AY CHECK, I 20% ACID, R DUCE RATE T BLS. FRESH V	RU HALLIE EDUCE RA O 5 BPM, I VATER @	, LAND TBG., NU 3 1/8" X SURTON, TEST LINES TO ATE TO 5 BPM, PUMP 200 PUMP 2000# ROCK SALT 10 BPM, ISIP 992#, 5/10/1 SWI, RD HALLIBURTON,
AOL/HSM, 0# RENTAL TRE 5000#, OK, E: ROCK SALT, SWITCH TO 650#/516#/44 WSU & PARK	ESITP & SI EE, TEST T ST. 10 BPN SWITCH T ACID, INCI 2#, MAX PI CON SIDE	CP, SET PKR. I O 250# FOR 10 M RATE, PUMP TO ACID, INCR REASE RATE T RESS.3556#, A) MIN., TEST 87 BFW, SW EASE RATE O 10 BPM, F /G. PRESS.	TO 5000# /ITCH TO TO 10 BPI PUMP 1000	# FOR 10 MII ACID, ACIDI M, PUMP 15, 00 GALS: 209	N., GOOD TEST ZE WELL W/10 000 GALS, 20% & ACID, FLUSH I, AVG. RATE 7. Operations Next MIRU SCH POOH, RIF	T, PULL 2 W 758 GALS. ACID, RED W/1000 BE 4 BPM, TO Report Period LUMBERGI 1 W/BHP G.	IAY CHECK, I 20% ACID, R JUCE RATE T BLS. FRESH V TAL LOAD 26 ER SLICKLINI AUGES ON C	RU HALLIB EDUCE RA O 5 BPM, VATER @ 92 BBLS., E, RIH W/S	SURTON, TEST LINES TO ATE TO 5 BPM, PUMP 200 PUMP 2000# ROCK SALT 10 BPM, ISIP 992#, 5/10/1 SWI, RD HALLIBURTON, SINKER BARS & TAG TD, ETO 100' ABOVE TD, LET
RENTAL TRE 6000#, OK, E: ROCK SALT, SWITCH TO. 650#/516#/44 WSU & PARK Operations at Repor SDON	# SITP & SI EE, TEST T ST. 10 BPM SWITCH T ACID, INCI 2#, MAX PI (ON SIDE	CP, SET PKR. I O 250# FOR 10 M RATE, PUMP TO ACID, INCR REASE RATE T RESS.3556#, A) MIN., TEST 87 BFW, SW EASE RATE O 10 BPM, F /G. PRESS.	TO 5000# /ITCH TO TO 10 BPI PUMP 1000	# FOR 10 MII ACID, ACIDI M, PUMP 15, 00 GALS: 209	N., GOOD TEST ZE WELL W/10 000 GALS, 20% & ACID, FLUSH I, AVG. RATE 7. Operations Next MIRU SCH POOH, RIF	T, PULL 2 W 758 GALS. ACID, RED W/1000 BE 4 BPM, TO Report Period LUMBERGI 1 W/BHP G.	IAY CHECK, I 20% ACID, R JUCE RATE T BLS. FRESH V TAL LOAD 26 ER SLICKLINI AUGES ON C	RU HALLIB EDUCE RA O 5 BPM, VATER @ 92 BBLS., E, RIH W/S	SURTON, TEST LINES TO ATE TO 5 BPM, PUMP 200 PUMP 2000# ROCK SALT 10 BPM, ISIP 992#, 5/10/1 SWI, RD HALLIBURTON, SINKER BARS & TAG TD,
AOL/HSM, 0# RENTAL TRE 6000#, OK, E: ROCK SALT, SWITCH TO 650#/516#/44 WSU & PARK	SITP & SI E, TEST T ST. 10 BPM SWITCH T ACID, INCI 2#, MAX PI (ON SIDE	CP, SET PKR. I O 250# FOR 10 M RATE, PUMP TO ACID, INCR REASE RATE T RESS.3556#, A) MIN., TEST 87 BFW, SW EASE RATE O 10 BPM, F /G. PRESS.	TO 5000# /ITCH TO TO 10 BPI PUMP 1000	# FOR 10 MII ACID, ACIDI M, PUMP 15, 00 GALS: 209	N., GOOD TEST ZE WELL W/10 000 GALS, 20% & ACID, FLUSH I, AVG. RATE 7. Operations Next MIRU SCH POOH, RIF	T, PULL 2 W 758 GALS. ACID, RED W/1000 BE 4 BPM, TO Report Period LUMBERGI 1 W/BHP G.	IAY CHECK, I 20% ACID, R JUCE RATE T BLS. FRESH V TAL LOAD 26 ER SLICKLINI AUGES ON C	RU HALLIB EDUCE RA O 5 BPM, VATER @ 92 BBLS., E, RIH W/S	SURTON, TEST LINES TO ATE TO 5 BPM, PUMP 200 PUMP 2000# ROCK SALT 10 BPM, ISIP 992#, 5/10/1 SWI, RD HALLIBURTON, SINKER BARS & TAG TD, ETO 100' ABOVE TD, LET
AOL/HSM, 0# RENTAL TRE 6000#, OK, E: ROCK SALT, SWITCH TO .650#/516#/44. WSU & PARK Deparations at Repor	SITP & SITP & SITP & SITP & SITP & SITP & SITP ST. 10 BPM SWITCH 1 ACID, INC: 2#, MAX PI (ON SIDE)	CP, SET PKR. I O 250# FOR 10 M RATE, PUMP TO ACID, INCR REASE RATE T RESS.3556#, A' OF LOC., SDO) MIN., TEST 87 BFW, SW EASE RATE O 10 BPM, F /G. PRESS. N.	TO 5000# /ITCH TO TO 10 BPP PUMP 1000 1740#, MA	# FOR 10 MII ACID, ACIDI M, PUMP 15, 00 GALS: 209	N., GOOD TEST ZE WELL W/10 000 GALS, 20% & ACID, FLUSH I, AVG. RATE 7 Operations Next MIRU SCH POOH, RII GAUGES S	T, PULL 2 W 758 GALS. ACID, RED W/1000 BE 4 BPM, TO Report Period LUMBERGI 1 W/BHP G.	IAY CHECK, I 20% ACID, R JUCE RATE T BLS. FRESH V TAL LOAD 26 ER SLICKLINI AUGES ON C	RU HALLIB EDUCE RA O 5 BPM, VATER @ 92 BBLS., 92 BBLS., E, RIH W/S PTIC LINE RTON & PI	SURTON, TEST LINES TO ATE TO 5 BPM, PUMP 200 PUMP 2000# ROCK SALT 10 BPM, ISIP 992#, 5/10/1 SWI, RD HALLIBURTON, SINKER BARS & TAG TD, E TO 100' ABOVE TD, LET JMP STEP RATE TEST.
AOL/HSM, 0# RENTAL TRE 6000#, OK, E: ROCK SALT, SWITCH TO. 650#/516#/44 WSU & PARK Operations at Repor SDON Daily Contac GARY HENRI Time Log	SITP & SITP & SITP & SITP & SITP & SITP & SITP STANDARD TO SITE SITE SITE SITE SITE SITE SITE SITE	CP, SET PKR. I O 250# FOR 10 M RATE, PUMP TO ACID, INCR REASE RATE T RESS.3556#, A OF LOC., SDO) MIN., TEST 87 BFW, SW EASE RATE O 10 BPM, F VG. PRESS. N.	TO 5000# /ITCH TO TO 10 BP/ PUMP 1000 1740#, MA	# FOR 10 MII ACID, ACIDI M, PUMP 15, 00 GALS, 20° AX RATE 10.1	N., GOOD TEST ZE WELL W/10 000 GALS, 20% & ACID, FLUSH I, AVG. RATE 7 Operations Next MIRU SCH POOH, RII GAUGES S	T, PULL 2 W 758 GALS. ACID, RED W/1000 BE 4 BPM, TO Report Period LUMBERGI 1 W/BHP G.	IAY CHECK, I 20% ACID, R DUCE RATE T BLS. FRESH V TAL LOAD 26 ER SLICKLINI AUGES ON C RU HALLIBUI	RU HALLIB EDUCE RA O 5 BPM, VATER @ 92 BBLS., E, RIH W/S PPTIC LINE RTON & PI	SURTON, TEST LINES TO ATE TO 5 BPM, PUMP 200 PUMP 2000# ROCK SALT 10 BPM, ISIP 992#, 5/10/1 SWI, RD HALLIBURTON, SINKER BARS & TAG TD, E TO 100' ABOVE TD, LET JMP STEP RATE TEST.
AOL/HSM, 0# RENTAL TRE 6000#, OK, E: ROCK SALT, SMITCH TO. 650#/516#/44 WSU & PARK Deparations at Repor SDON Daily Contact GARY HENR Time Log Start Time	SITP & SITE ST T ST. 10 BPM SWITCH T ACID, INCO 2#, MAX PE (ON SIDE TIME) ST. 10 BPM SWITCH T SWITCH	CP, SET PKR. I O 250# FOR 10 M RATE, PUMP TO ACID, INCR REASE RATE T RESS.3556#, A OF LOC., SDO) MIN., TEST 87 BFW, SW EASE RATE O 10 BPM, F /G. PRESS. N.	TO 5000# /ITCH TO TO 10 BPP PUMP 1000 1740#, MA	# FOR 10 MII ACID, ACIDI M, PUMP 15, 00 GALS, 20° AX RATE 10.1	N., GOOD TEST ZE WELL W/10 000 GALS, 20% & ACID, FLUSH I, AVG. RATE 7 Operations Next MIRU SCH POOH, RII GAUGES S	T, PULL 2 W 758 GALS. ACID, RED W/1000 BE 4 BPM, TO Report Period LUMBERGI 1 W/BHP G.	IAY CHECK, I 20% ACID, R JUCE RATE T BLS. FRESH V TAL LOAD 26 ER SLICKLINI AUGES ON C RU HALLIBUI	RU HALLIB EDUCE RA O 5 BPM, VATER @ 92 BBLS., E, RIH W/S PPTIC LINE RTON & PI	SURTON, TEST LINES TO ATE TO 5 BPM, PUMP 200 PUMP 2000# ROCK SALT 10 BPM, ISIP 992#, 5/10/1 SWI, RD HALLIBURTON, SINKER BARS & TAG TD, E TO 100' ABOVE TD, LET JMP STEP RATE TEST.
AOL/HSM, 0# RENTAL TRE S000#, OK, E: ROCK SALT, SWITCH TO. S50#/516#/44 WSU & PARK Operations at Repor SDON Daily Contact GARY HENR Time Log Start Time D6:00 11	SITP & SITP & SITP & SITP & SITP & SITP & SITP STANDARD TO SITE SITE SITE SITE SITE SITE SITE SITE	CP, SET PKR. I O 250# FOR 10 M RATE, PUMP TO ACID, INCR REASE RATE T RESS.3556#, A OF LOC., SDO) MIN., TEST 87 BFW, SW EASE RATE O 10 BPM, F VG. PRESS. N.	TO 5000# /ITCH TO TO 10 BP/ PUMP 1000 1740#, MA	# FOR 10 MII ACID, ACIDI M, PUMP 15, 00 GALS, 20° AX RATE 10.1	N., GOOD TEST ZE WELL W/10 000 GALS, 20% & ACID, FLUSH I, AVG. RATE 7 Operations Next MIRU SCH POOH, RII GAUGES S	T, PULL 2 W 758 GALS. ACID, RED W/1000 BE 4 BPM, TO Report Period LUMBERGI 1 W/BHP G.	IAY CHECK, I 20% ACID, R DUCE RATE T BLS. FRESH V TAL LOAD 26 ER SLICKLINI AUGES ON C RU HALLIBUI	RU HALLIB EDUCE RA O 5 BPM, VATER @ 92 BBLS., E, RIH W/S PPTIC LINE RTON & PI	SURTON, TEST LINES TO ATE TO 5 BPM, PUMP 200 PUMP 2000# ROCK SALT 10 BPM, ISIP 992#, 5/10/1 SWI, RD HALLIBURTON, SINKER BARS & TAG TD, E TO 100' ABOVE TD, LET JMP STEP RATE TEST.
AOL/HSM, 0# RENTAL TRE S000#, OK, E: ROCK SALT, SWITCH TO. S50#/516#/44 WSU & PARK Operations at Repor SDON Daily Contact GARY HENR Time Log Start Time D6:00 11	SITP & SITP & SITP & SITP & SITP & SITP & SITP STANDARD TO SITE SITE SITE SITE SITE SITE SITE SITE	CP, SET PKR. I O 250# FOR 10 M RATE, PUMP TO ACID, INCR REASE RATE T RESS.3556#, A OF LOC., SDO) MIN., TEST 87 BFW, SW EASE RATE O 10 BPM, F VG. PRESS. N.	TO 5000¢ /ITCH TO TO 10 BPI PUMP 1000 1740#, MA	# FOR 10 MII ACID, ACIDI M, PUMP 15, 00 GALS, 20° AX RATE 10.1	N., GOOD TEST ZE WELL W/10 000 GALS, 20% & ACID, FLUSH I, AVG. RATE 7 Operations Next MIRU SCH POOH, RII GAUGES S	T, PULL 2 W 758 GALS. ACID, RED W/1000 BE 4 BPM, TO Report Period LUMBERGI 1 W/BHP G.	IAY CHECK, I 20% ACID, R DUCE RATE T BLS. FRESH V TAL LOAD 26 ER SLICKLINI AUGES ON C RU HALLIBUI	RU HALLIB EDUCE RA O 5 BPM, VATER @ 92 BBLS., E, RIH W/S PPTIC LINE RTON & PI	SURTON, TEST LINES TO ATE TO 5 BPM, PUMP 200 PUMP 2000# ROCK SALT 10 BPM, ISIP 992#, 5/10/1 SWI, RD HALLIBURTON, SINKER BARS & TAG TD, E TO 100' ABOVE TD, LET JMP STEP RATE TEST.
AOL/HSM, 0# RENTAL TRE 6000#, OK, E: ROCK SALT, SMITCH TO, 650#/516#/44 WSU & PARK Deparations at Repor SDON Daily Contac GARY HENR Time Log Start Time	SITP & SITP & SITP & SITP & SITP & SITP & SITP STANDARD TO SITE SITE SITE SITE SITE SITE SITE SITE	CP, SET PKR. I O 250# FOR 10 M RATE, PUMP TO ACID, INCR REASE RATE T RESS.3556#, A OF LOC., SDO) MIN., TEST 87 BFW, SW EASE RATE O 10 BPM, F VG. PRESS. N.	TO 5000¢ /ITCH TO TO 10 BPI PUMP 1000 1740#, MA	# FOR 10 MII ACID, ACIDI M, PUMP 15, 00 GALS, 20° AX RATE 10.1	N., GOOD TEST ZE WELL W/10 000 GALS, 20% & ACID, FLUSH I, AVG. RATE 7 Operations Next MIRU SCH POOH, RII GAUGES S	T, PULL 2 W 758 GALS. ACID, RED W/1000 BE 4 BPM, TO Report Period LUMBERGI 1 W/BHP G.	IAY CHECK, I 20% ACID, R DUCE RATE T BLS. FRESH V TAL LOAD 26 ER SLICKLINI AUGES ON C RU HALLIBUI	RU HALLIB EDUCE RA O 5 BPM, VATER @ 92 BBLS., E, RIH W/S PPTIC LINE RTON & PI	SURTON, TEST LINES TO ATE TO 5 BPM, PUMP 200 PUMP 2000# ROCK SALT 10 BPM, ISIP 992#, 5/10/1 SWI, RD HALLIBURTON, SINKER BARS & TAG TD, E TO 100' ABOVE TD, LET JMP STEP RATE TEST.



Well Name: ZIA AGI #2D

Report # 17.0, Report Date: 12/30/2016

PPUWI 0-025-42207	Surface Legal Location 1893/S 950/W; SEC19-T1	Fleid N 9S-R32E AGI	ame	County LEA	State NM	Well Configuration Type Vertical
riginal KS Elevation (ff) ,572.00	K5-Tubing Head Distance	(ff) Spud D	ate 2016 03:00	Rig Release Date 12/13/2016 04:00	PSTD (All) (fixS)	Total Depth All (TVD) (flK5) Original Hole - 188.0
Category		Job Type		Start Date		ind Date
OMPLETION o Objective	INITIA	L COMPLETION	NC	12/13/2016		
	9.5					· · · · · · · · · · · · · · · · · · ·
ontractor RIES	#Crew 46		Rig Type Completion		lig Start Date 12/13/2016	Rig Release Date
E Number 09612	Total A	FE+ Supp Amount	(Cost)	Daily Field Est Total (Co \$23,735	et)	Cum Fleid Est To Date (Cost) \$268,840
aily Readings				1420,140		3200,010
eport Start Date 2/29/2016				Report End Date 12/30/2016		
WI, REMOVE VALVE	M M M M 7311/223, MAX PRESS	ALVES, PUMP	ED A TOTAL O		ESH WATER, RD HALI	LIBURTON, LEAVE WELL
erations at Report Time FOR 10 DAY FALL	OFF			Operations Next Report WELL SI & BEIN		CHLUMBERGER SL CREW.
aily Contacts	III CIMIN			***		Davis .
	Job Contact LLSITE SUPERVISOR	WEL	LSITE SUPERV	Title ISOR	(575)631-42	Moone 34
ime Log						
Start Time End Time 6:00 22:00	Dur (hr) Activity Code 16.00	Act	vity		Com	
aily Pressures	10.00		- N-			
essure Type SG		Pressure (psl) 650.0	String		Note.	
essure Type		Pressure (psi)	String		Note	
BG		50.0				



Well Name: ZIA AGI #2D

Report # 26.0, Report Date: 1/8/2017

30-025-422	207	Surface Legal Lo 1893/S 950/W; 5	ocation SEC19-T19S-R32E	Fleid Name AGI		LEA .		NM State		Well Configuration Type Vertical
Original KB Ele 3,572.00	wation (ff)	K5-Tubing Head	Distance (ff)	Spud Date 11/2/201	6 03:00	Rig Release Da 12/13/2016		PBTD (All) (ft	(5)	Total Depth All (TVD) (ftKB) Original Hole - 188.0
Job Category COMPLET	ION		Primary Job Type INITIAL COM	PLETION		Start Date 12/13/2016			End Date	
Job Objective										
Contractor ARIES		#Crew 46			Rig Type Completio	on/Workover	Rig Start 12/13/			Rig Release Date
AFE Number 009612			Total AFE + Supp	Amount (Cos	0	S5,035	Total (Cost):		S307,75	Est To Date (Cost) 55
Daily Read	dings									
	ta					Report End Date	e			
1/7/2017 Past 24 Hours C SI FOR 10	Operation Summar DAY FALL C	OFF TEST	MATTING BO	ARDS, PA	RK RIG ON	1/8/2017 SIDE OF LOC.,	SDFW.			
1/7/2017 Past 24 Hours C SI FOR 10 ROAD WS Operations at Re SI	Operation Summar DAY FALL C SU & CREW 1 Report Time	OFF TEST	MATTING BO	ARDS, PA	ARK RIG ON	SIDE OF LOC.,	d Report Period	NITORED BY	SCHLUMB	ERGER SL CREW.
1/7/2017 Past 24 Hours C SI FOR 10 ROAD WS Operations at Re SI	Operation Summar DAY FALL O SU & CREW 1 Report Time	OFF TEST TO LOC., SET	MATTING BO	ARDS, PA	ARK RIG ON	Operations Next	d Report Period	NITORED BY	SCHLUMB	
1/7/2017 Past 24 Hours C SI FOR 10 ROAD WS Operations at R: SI Daily Cont	Operation Summar DAY FALL O SU & CREW 1 deport Time	OFF TEST TO LOC., SET				SIDE OF LOC., Operations Nex WELL SI &	d Report Period	1		ERGER SL CREW.
1/7/2017 Past 24 Hours C SI FOR 10 ROAD WS Operations at R SI Daily Cont	Operation Summar DAY FALL O SU & CREW 1 deport Time	OFF TEST TO LOC., SET			ARK RIG ON	SIDE OF LOC., Operations Nex WELL SI &	d Report Period	ONITORED BY (575)631-		
1/7/2017 Past 24 Hours O SI FOR 10 ROAD WS Operations at Re SI Daily Cont GARY HEN	Operation Summar DAY FALL C SU & CREW 1 Report Time tacts NRICH, WEL	OFF TEST TO LOC., SET	VISOR.	WELLSI		SIDE OF LOC., Operations Nex WELL SI &	d Report Period	(575)631-	4234	
1/7/2017 Past 24 Hours O SI FOR 10 ROAD WS Operations at Re SI Daily Cont GARY HEN Time Log Start Time	Operation Summar DAY FALL C SU & CREW 1 Report Time tacts NRICH, WEL	OFF TEST TO LOC., SET Ob Contact LSITE SUPER				SIDE OF LOC., Operations Nex WELL SI &	d Report Period	1	4234	
1/7/2017 Past 24 Hours C SI FOR 10 ROAD WS Operations at Re SI Daily Cont GARY HEN Time Log Start Time 06:00	Operation Summar DAY FALL C SU & CREW 1 report Time tacts NRICH, WEL End Time 09:00	OFF TEST TO LOC., SET	VISOR.	WELLSI		SIDE OF LOC., Operations Nex WELL SI &	d Report Period	(575)631-	4234	
SI FOR 10 ROAD WS Operations at Re SI Daily Cont GARY HEN Time Log	Operation Summar DAY FALL C SU & CREW 1 Report Time tacts NRICH, WEL End Time 09:00	OFF TEST TO LOC., SET Ob Contact LSITE SUPER	VISOR.	WELLS!		SIDE OF LOC., Operations Nex WELL SI &	d Report Period	(575)631-	4234	



API'UWI 30-025-42207	Surface Legal Location 1893/S 950/W: SEC19-T19S-R32E	Fleid Name AGI	County LEA		ate M	Well Configuration Type Vertical
Original KB Elevation (ff) 3,572.00	K5-Tubling Head Distance (ff)	Spud Date 11/2/2016 03:00	Rig Release Date 12/13/2016 (TD (All) (fKB)	Total Depth All (TVD) (ftK8) Original Hole - 188.
ob Category COMPLETION	Primary Job Type INITIAL COM	PLETION	Start Date 12/13/2016		End Date	
ob Objective			•			
Contractor ARIES	#Crew 46	Rig Type Completi	on/Workover	Rig Start Date 12/13/2016		Rig Release Date
NFE Number 009612	Total AFE+ Sup	Amount (Cost)	Daily Fleid Est To \$134,535	al (Cost)	Cum F S447	leid Est To Dale (Cost) ,325
Daily Readings						
Report Start Date 1/9/2017			Report End Date 1/10/2017			
Past 24 Hours Operation Summ AOL/HSM, MIRU WS & LET WELL EQUAL	nary U, 420# SICP, 20# SITP, BD C IZE, LATCH BACK ON TO PKF PER ON 314 JTS. TO 10,021',	R. & RELEASE, POOH				
Past 24 Hours Operation Summ AOL/HSM, MIRU WS & LET WELL EQUAL BIT & 7° CSG, SCRA Operations at Report Time	U, 420# SICP, 20# SITP, BD C IZE, LATCH BACK ON TO PKE	R. & RELEASE, POOH	Operations Next F	5" TBG, & PKR.	, ALL ELEMENT:	S IN PLACE ON PKR., RIH V
Past 24 Hours Operation Summ AOL/HSM, MIRU WS & LET WELL EQUAL BIT & 7° CSG, SCRA Operations at Report Time SDON	U, 420# SICP, 20# SITP, BD C IZE, LATCH BACK ON TO PKE	R. & RELEASE, POOH	Operations Next F	5" TBG, & PKR.	, ALL ELEMENT:	S IN PLACE ON PKR., RIH V
Past 24 Hours Operation Summ AOL/HSM, MIRU WS & LET WELL EQUAL BIT & 7° CSG, SCRA Operations at Report Time	U, 420# SICP, 20# SITP, BD C IZE, LATCH BACK ON TO PKF PER ON 314 JTS. TO 10,021',	R. & RELEASE, POOH	Operations Next F	5" TBG, & PKR.	, ALL ELEMENT:	S IN PLACE ON PKR., RIH V SCRAPER FROM 13,500' TO SG. IS CLEAN.
Past 24 Hours Operation Summ AOL/HSM, MIRU WS & LET WELL EQUAL BIT & 7° CSG, SCRA Operations at Report Time SDON	U, 420# SICP, 20# SITP, BD C IZE, LATCH BACK ON TO PKE	R. & RELEASE, POOH	Operations Next R FINISH RIH 13,600' A FE	5" TBG, & PKR.	, ALL ELEMENT:	S IN PLACE ON PKR., RIH V
Past 24 Hours Operation SummaOL/HSM, MIRU WS & LET WELL EQUAL BIT & 7" CSG. SCRAID Perations at Report Time SDON Daily Contacts GARY HENRICH, WE	U, 420# SICP, 20# SITP, BD C IZE, LATCH BACK ON TO PKF PER ON 314 JTS. TO 10,021',	R. & RELEASE, POOH SWI, SDON.	Operations Next R FINISH RIH 13,600' A FE	5" TBG, & PKR.	13,600', WORK: NSURE CSG. CS	S IN PLACE ON PKR., RIH V SCRAPER FROM 13,500' TO SG. IS CLEAN.
Past 24 Hours Operation Summa AOL/HSM, MIRU WS & LET WELL EQUAL BIT & 7" CSG. SCRAID COPERATION STATE	U, 420# SICP, 20# SITP, BD C IZE, LATCH BACK ON TO PKF PER ON 314 JTS. TO 10,021', JOB Contact ELLSITE SUPERVISOR	R. & RELEASE, POOH SWI, SDON.	Operations Next R FINISH RIH 13,600' A FE	5" TBG, & PKR.	, ALL ELEMENT: 13,600', WORK: NSURE CSG. CS	S IN PLACE ON PKR., RIH V SCRAPER FROM 13,500' TO SG. IS CLEAN.
Past 24 Hours Operation Summa AOL/HSM, MIRU WS & LET WELL EQUAL BIT & 7" CSG. SCRA Operations at Report Time SDON Daily Contacts GARY HENRICH, WE Time Log Start Time End Time End Time 106;00 20;00	U, 420# SICP, 20# SITP, BD C IZE, LATCH BACK ON TO PKF PER ON 314 JTS. TO 10,021',	R. & RELEASE, POOH SWI, SDON.	Operations Next R FINISH RIH 13,600' A FE	5" TBG, & PKR.	13,600', WORK: NSURE CSG. CS	S IN PLACE ON PKR., RIH V SCRAPER FROM 13,500' TO SG. IS CLEAN.
Past 24 Hours Operation Summa AOL/HSM, MIRU WS & LET WELL EQUAL BIT & 7" CSG. SCRAID Persitions at Report Time SDON Daily Contacts GARY HENRICH, WE Time Log Start Time End Time 206;00 20;00 Daily Pressures	U, 420# SICP, 20# SITP, BD C IZE, LATCH BACK ON TO PKF PER ON 314 JTS. TO 10,021', JOB Contact ELLSITE SUPERVISOR Dur (hr) Activity Code 14,00	WELLSITE SUPERV	Operations Next R FINISH RIH 13,600' A FE	5" TBG. & PKR.	13,600', WORK: NSURE CSG. CS	S IN PLACE ON PKR., RIH V SCRAPER FROM 13,500' TO SG. IS CLEAN.
Past 24 Hours Operation Summa AOL/HSM, MIRU WS & LET WELL EQUAL BIT & 7" CSG. SCRAID COPERATION STATE	U, 420# SICP, 20# SITP, BD C IZE, LATCH BACK ON TO PKF PER ON 314 JTS. TO 10,021', JOB Contact ELLSITE SUPERVISOR	WELLSITE SUPERV	Operations Next R FINISH RIH 13,600' A FE	5" TBG, & PKR.	13,600', WORK: NSURE CSG. CS	S IN PLACE ON PKR., RIH V SCRAPER FROM 13,500' TO SG. IS CLEAN.



Well Name: ZIA AGI #2D

Report # 29.0, Report Date: 1/11/2017

30-025-42207		Surface Legal Location 1893/S 950/W; SEC19-		Fleid Name AGI		LEA .		NM NM		Well Configuration Type Vertical
Original KB Elevation 3,572.00	(10)	K5-Tubing Head Distan	ze (Ħ)	Spud Date 11/2/2016	03:00	Rig Release Dat 12/13/2016		PSTD (All) (tKB)	Total Depth All (TVD) (ffx8) Original Hole - 188.0
lob Category COMPLETION	1		Job Type AL COMP	LETION		Start Date 12/13/2016			End Date	
lob Objective						•				
ARIES		#Crew 46			Rig Type Completio	n/Workover	Rig Start 0 12/13/2		F	Rig Release Date
FE Number 009612		Total	AFE+ Supp A	Amount (Cost)		S10,035	otal (Cost)		S457,360	st To Date (Cost))
Daily Reading	js.									
						Report End Date 1/11/2017				
eport Start Date 1/10/2017						1/11/2017				
eport Start Date 1/10/2017 last 24 Hours Operat AOL/HSM, 0# S 3.5" WS TBG.,	SITP & CF BIT SWIN	P, RIH W/113 JTS. NGING @ 4821', SI			O 13,605', V		FROM 13,	500' TO 13,6	05' SEVERA	L TIMES, POOH LD 277 J
Report Start Date 1/10/2017 Rest 24 Hours Operat AOL/HSM, 0# S 3.5" WS TBG., Operations at Report 1	SITP & CF BIT SWIN	P, RIH W/113 JTS.			O 13,605', V	VORK SCRAPER Operations Next FINISH LD	Report Period WS, SCRAF	PER & BIT, M		/S & RELEASE, SET IN
Report Start Date 1/10/2017 Past 24 Hours Operat AOL/HSM, 0# S 3.5" WS TBG., Operations at Report 1 SDON	SITP & CF , BIT SWIN Time	P, RIH W/113 JTS.			O 13,605', V	VORK SCRAPER Operations Next FINISH LD	Report Period WS, SCRAF	PER & BIT, M	IOVE OUT W	/S & RELEASE, SET IN
Report Start Date 1/10/2017 Rest 24 Hours Operat AOL/HSM, 0# S 3.5" WS TBG., Aperations at Report 1 SDON	SITP & CF , BIT SWIN Time	P, RIH W/113 JTS.			O 13,605', V	VORK SCRAPER Operations Next FINISH LD	Report Period WS, SCRAF	PER & BIT, M	IOVE OUT W	/S & RELEASE, SET IN
Report Start Date 1/10/2017 Rest 24 Hours Operat AOL/HSM, 0# S 3.5" WS TBG., Operations at Report 1 SDON Daily Contacts	SITP & CF , BIT SWIN Time	P, RIH W/113 JTS. NGING @ 4821', SI	WI, SDON		0 13,605', V	OPERATIONS NEXT FINISH LD INJECTION	Report Period WS, SCRAF	PER & BIT, M	IOVE OUT W IULAR & TES	/S & RELEASE, SET IN T.
leport Start Date //10/2017 ast 24 Hours Operat AOL/HSM, 0# \$ 3.5" WS TBG., //perations at Report 1 SDON Daily Contacts GARY HENRIC	SITP & CF , BIT SWIN Time	P, RIH W/113 JTS. NGING @ 4821', SI	WI, SDON			OPERATIONS NEXT FINISH LD INJECTION	Report Period WS, SCRAF	PER & BIT, M TORES ANN	IOVE OUT W IULAR & TES	/S & RELEASE, SET IN T.
eport Start Date //10/2017 ast 24 Hours Operat AOL/HSM, 0# \$ 8.5" WS TBG., //perations at Report 1 SDON Daily Contacts GARY HENRIC Fime Log Start Time 19	SITP & CF, BIT SWIN Time IS Job CH, WELL	P, RIH W/113 JTS. NGING @ 4821', SI	WI, SDON			OPERATIONS NEXT FINISH LD INJECTION	Report Period WS, SCRAF	PER & BIT, M TORES ANN	IOVE OUT W IULAR & TES	/S & RELEASE, SET IN T.
eport Start Date //10/2017 ast 24 Hours Operat AOL/HSM, 0# \$ 8.5" WS TBG., //perations at Report 1 SDON Daily Contacts GARY HENRIC Fime Log Start Time 19	SITP & CF , BIT SWIN Time	P, RIH W/113 JTS. NGING @ 4821', SI	WI, SDON	WELLSITE		OPERATIONS NEXT FINISH LD INJECTION	Report Period WS, SCRAF	PER & BIT, M TORES ANN (575)631	IOVE OUT W IULAR & TES	/S & RELEASE, SET IN T.
Report Start Date 1/10/2017 Rest 24 Hours Operat AOL/HSM, 0# 9 3.5° WS TBG., Operations at Report 1 SDON Daily Contacts GARY HENRIC Time Log Start Time 5 06:00 19: Daily Pressure	SITP & CF, BIT SWIN Time ts Job CH, WELL End Time	P, RIH W/113 JTS. NGING @ 4821', SI Contact SITE SUPERVISO Dur (M) Activity Co.	WI, SDON	WELLSITE		OPERATIONS NEXT FINISH LD INJECTION	Report Period WS, SCRAF	PER & BIT, M TORES ANN (575)631	IOVE OUT W IULAR & TES	/S & RELEASE, SET IN T.
Report Start Date 1/10/2017 Past 24 Hours Operat AOL/HSM, 0# 9 3.5" WS TBG., Operations at Report 1 SDON Daily Contacts GARY HENRIC Finne Log Start Time E	SITP & CF, BIT SWIN Time ts Job CH, WELL End Time	P, RIH W/113 JTS. NGING @ 4821', SI Contact SITE SUPERVISO Dur (M) Activity Co.	WI, SDON	WELLSITE Activity		OPERATIONS NEXT FINISH LD INJECTION	Report Period WS, SCRAF TBG., NU	PER & BIT, M TORES ANN (575)631	IOVE OUT W IULAR & TES	/S & RELEASE, SET IN T.



Report # 30.0 Report Date: 1/12/2017

API/UWI 30-025-42207	Surface Leg	al Location W: SEC19-T19S-R32E	Fleid Name AGI	LEA		NM NM		Well Configuration Type Vertical
Original K5 Elevation (ff) 3,572.00	100000000000000000000000000000000000000	Head Distance (ft)	Spud Date 11/2/2016 03:00	Rig Release Date 12/13/2016 (PETD (All) (fix)	5)	Total Depth All (TVD) (flx8) Original Hole - 188.0
ob Category COMPLETION		Primary Job Type INITIAL COM	PLETION	Start Date 12/13/2016			End Date	
ob Objective				•				
Contractor ARIES	#Cr 46	P/V	Rig Type Completio	on/Workover	Rig Start 0 12/13/2		Rig	g Release Date
NFE Number 009612		Total AFE+ Supp	Amount (Cost)	Daily Fleid Est To \$14,135	tal (Cost)		S471,495	To Date (Cost)
Daily Readings								
Report Start Date				Report End Date				
RACK 3.5° INJECT	& CP, LD 150 J		TBG., 7" CSG. SCRAP	5.0.00.00.00		LEASE WS, PI	PE RACKS 8	HANDLING TOOLS,
Past 24 Hours Operation S AOL/HSM, 0# SITE RACK 3.5° INJECT Operations at Report Time SDON	& CP, LD 150 J		TBG., 7º CSG. SCRAF	Operations Next P	Report Period BURTON V		IH W/GR/JB	HANDLING TOOLS,
Past 24 Hours Operation S AOL/HSM, 0# SITE RACK 3.5° INJECT Operations at Report Time SDON	& CP, LD 150 J ION TBG., SWI		TBG., 7" CSG. SCRAF	Operations Next P MIRU HALL PKR. ASSEN	Report Period BURTON V	WL TRUCK, RI	IH W/GR/JB	TO 13,600', POOH, P/U
Past 24 Hours Operation S AOL/HSM, 0# SITE RACK 3.5" INJECT Operations at Report Time SDON Daily Contacts	& CP, LD 150 J ION TBG., SWI	SDON.	TBG., 7° CSG. SCRAF	Operations Next P MIRU HALLI PKR. ASSEN	Report Period BURTON V	WL TRUCK, RI	IH W/GR/JB 213,565′	
Past 24 Hours Operation S AOL/HSM, 0# SITE RACK 3.5° INJECT Deparations at Report Time SDON Daily Contacts GARY HENRICH, Time Log	& CP, LD 150 J ION TBG., SWI Job Contact VELLSITE SUP	SDON.	WELLSITE SUPERV	Operations Next P MIRU HALLI PKR. ASSEN	Report Period BURTON V	WL TRUCK, RI I, SET PKR. @ (575)631-4	IH W/GR/JB 213,565' 1234	TO 13,600', POOH, P/U
Past 24 Hours Operation S AOL/HSM, 0# SITE	& CP, LD 150 J ION TBG., SWI Job Contact VELLSITE SUP	SDON.		Operations Next P MIRU HALLI PKR. ASSEN	Report Period BURTON V	WL TRUCK, RI I, SET PKR. @	IH W/GR/JB 213,565' 1234	TO 13,600', POOH, P/U
Past 24 Hours Operation S AOL/HSM, 0# SITE RACK 3.5° INJECT Deparations at Report Time SDON Daily Contacts GARY HENRICH, Time Log Start Time End T 06:00 17:00 Daily Pressures	& CP, LD 150 J ION TBG., SWI Job Contact VELLSITE SUP	SDON.	WELLSITE SUPERV	Operations Next P MIRU HALLI PKR. ASSEN	Report Period BURTON V	WL TRUCK, RI I, SET PKR. @ (575)631-4	IH W/GR/JB 213,565' 1234	TO 13,600', POOH, P/U
Past 24 Hours Operation S AOL/HSM, 0# SITE RACK 3.5" INJECT Operations at Report Time SDON Daily Contacts GARY HENRICH, Time Log Start Time End T	& CP, LD 150 J ION TBG., SWI Job Contact VELLSITE SUP	SDON.	WELLSITE SUPERV Activity (psi) String	Operations Next P MIRU HALLI PKR. ASSEN	Report Period BURTON V MBLY & RIH	WL TRUCK, RI I, SET PKR. @ (575)631-4	IH W/GR/JB 213,565' 1234	TO 13,600', POOH, P/U



Well Name: ZIA AGI #2D

Report # 31.0, Report Date: 1/13/2017

API'UWI 30-025-42207	Surface Legal 1893/S 950/V	V; SEC19-T19S-R32E	Fleid Name AGI	LEA	NM State	Well Configuration Type Vertical
Original KB Elevation (ff) 3,572.00	K5-Tubing H	ead Distance (ff)	Spud Date 11/2/2016 03:00	Rig Release Date 12/13/2016 04:00	PBTD (All) (flKB)	Total Depth All (TVD) (ftk8) Original Hole - 188.0
ob Category COMPLETION		Primary Job Type INITIAL COMP	PLETION	Start Date 12/13/2016	End Date	
lob Objective						
Contractor ARIES	#Cre 46			n/Workover 12/	Start Date 13/2016	Rig Release Date
AFE Number 009612		Total AFE+ Supp	Amount (Cost)	Daily Fleid Est Total (Cost) \$6,785	Cum Fil \$478,	eld Est To Date (Cost) 280
Daily Readings						
Report Start Date 1/12/2017				Report End Date 1/13/2017		
AOL/HSM, 0# SICP, N 13,550' TO 13,370', C STARTED PULLING	MRU H.E.S. W ORRELATE T TENSION, WL	O PLATFORM E . ENG. PULLED	XPRESS LOG DATED TO 4000# & PULLED () 12-11-16, CORECT +29 OUT OF ROPE SOCKET), RIH TO 13,605', START	LOGGING UP, AT 13,570' OOD TO 5100#) POOH, RE
AOL/HSM, 0# SICP, N 13,550' TO 13,370', C STARTED PULLING ALL WL, LEFT CCL, O Operations at Report Time	MRU H.E.S. W ORRELATE T TENSION, WL	O PLATFORM E . ENG. PULLED	XPRESS LOG DATED TO 4000# & PULLED (0 12-11-16, CORECT +29 DUT OF ROPE SOCKET DLE, RD WL, SWI, SDON Operations Next Report Per MOVE OUT INJ. T.	9°, RIH TO 13,605°, START (SHOULD HAVE BEEN G . NOTIFIED CONCHO & I	LOGGING UP, AT 13,570' OOD TO 5100#) POOH, REDCP.
AOL/HSM, 0# SICP, N 13,550' TO 13,370', C STARTED PULLING ALL WL, LEFT CCL, O Operations at Report Time SDON	MRU H.E.S. W ORRELATE T TENSION, WL	O PLATFORM E . ENG. PULLED	XPRESS LOG DATED TO 4000# & PULLED (0 12-11-16, CORECT +29 DUT OF ROPE SOCKET DLE, RD WL, SWI, SDON Operations Next Report Per MOVE OUT INJ. T.	P; RIH TO 13,605', START (SHOULD HAVE BEEN G . NOTIFIED CONCHO & I lod BG., SET IN 2 7/8" PH-6 7.	LOGGING UP, AT 13,570' OOD TO 5100#) POOH, REI DCP. .9# P-110 WS TBG., CHANG
AOL/HSM, 0# SICP, N 13,550' TO 13,370', C STARTED PULLING ALL WL, LEFT CCL, 0 Decrations at Report Time SDON Daily Contacts	MIRU H.E.S. W ORRELATE T TENSION, WL GAMMA RAY,	O PLATFORM E . ENG. PULLED JUNK BASKET &	XPRESS LOG DATED TO 4000# & PULLED (& GAUGE RING IN HO	O 12-11-16, CORECT +29 DUT OF ROPE SOCKET DLE, RD WL, SWI, SDON Operations Next Report Per MOVE OUT INJ. T BOP RAMS, RIH W	P; RIH TO 13,605', START (SHOULD HAVE BEEN G . NOTIFIED CONCHO & I lod BG., SET IN 2 7/8" PH-6 7. //BIT TO PUSH TOOLS TO	LOGGING UP, AT 13,570' OOD TO 5100#) POOH, REI DCP. .9# P-110 WS TBG., CHANG
AOL/HSM, 0# SICP, N 13,550' TO 13,370', C STARTED PULLING ALL WL, LEFT CCL, 0 Decrations at Report Time SDON Daily Contacts	MIRU H.E.S. W ORRELATE T TENSION, WL GAMMA RAY,	O PLATFORM E . ENG. PULLED JUNK BASKET &	XPRESS LOG DATED TO 4000# & PULLED (O 12-11-16, CORECT +29 DUT OF ROPE SOCKET DLE, RD WL, SWI, SDON Operations Next Report Per MOVE OUT INJ. T BOP RAMS, RIH W	P; RIH TO 13,605', START (SHOULD HAVE BEEN G . NOTIFIED CONCHO & I lod BG., SET IN 2 7/8" PH-6 7.	LOGGING UP, AT 13,570' OOD TO 5100#) POOH, REI DCP. .9# P-110 WS TBG., CHANG D BOTTOM.
AOL/HSM, 0# SICP, N 13,550' TO 13,370', C STARTED PULLING ALL WL, LEFT CCL, 0 Deviations at Report Time SDON Daily Contacts GARY HENRICH, WE Time Log	MIRU H.E.S. W ORRELATE T TENSION, WL GAMMA RAY,	O PLATFORM E . ENG. PULLED 1 JUNK BASKET 8	XPRESS LOG DATED TO 4000# & PULLED (& GAUGE RING IN HO WELLSITE SUPERV	O 12-11-16, CORECT +29 DUT OF ROPE SOCKET DLE, RD WL, SWI, SDON Operations Next Report Per MOVE OUT INJ. T BOP RAMS, RIH W	P; RIH TO 13,605', START (SHOULD HAVE BEEN G . NOTIFIED CONCHO & I lod BG., SET IN 2 7/8" PH-6 7. //BIT TO PUSH TOOLS TO	LOGGING UP, AT 13,570' OOD TO 5100#) POOH, REI DCP. .9# P-110 WS TBG., CHANG D BOTTOM.
AOL/HSM, 0# SICP, N 13,550' TO 13,370', C STARTED PULLING ALL WL, LEFT CCL, N Operations at Report Time SDON Daily Contacts GARY HENRICH, WE Time Log StartTime End Time	MIRU H.E.S. W ORRELATE T TENSION, WL GAMMA RAY, JOD CONTACT ELLSITE SUPE	O PLATFORM E . ENG. PULLED JUNK BASKET &	XPRESS LOG DATED TO 4000# & PULLED (& GAUGE RING IN HO	O 12-11-16, CORECT +29 DUT OF ROPE SOCKET DLE, RD WL, SWI, SDON Operations Next Report Per MOVE OUT INJ. T BOP RAMS, RIH W	P; RIH TO 13,605', START (SHOULD HAVE BEEN G . NOTIFIED CONCHO & I lod BG., SET IN 2 7/8" PH-6 7. //BIT TO PUSH TOOLS TO	LOGGING UP, AT 13,570' OOD TO 5100#) POOH, REI DCP. .9# P-110 WS TBG., CHANG D BOTTOM.
AOL/HSM, 0# SICP, N 13,550' TO 13,370', C STARTED PULLING ALL WL, LEFT CCL, 0 Operations at Report Time SDON Daily Contacts GARY HENRICH, WE Time Log Start Time End Time 06;00 19;00	MIRU H.E.S. W ORRELATE T TENSION, WL GAMMA RAY,	O PLATFORM E . ENG. PULLED 1 JUNK BASKET 8	XPRESS LOG DATED TO 4000# & PULLED (& GAUGE RING IN HO WELLSITE SUPERV	O 12-11-16, CORECT +29 DUT OF ROPE SOCKET DLE, RD WL, SWI, SDON Operations Next Report Per MOVE OUT INJ. T BOP RAMS, RIH W	P; RIH TO 13,605', START (SHOULD HAVE BEEN G . NOTIFIED CONCHO & I lod BG., SET IN 2 7/8" PH-6 7. //BIT TO PUSH TOOLS TO	LOGGING UP, AT 13,570' GOOD TO 5100#) POOH, REDCP. 9# P-110 WS TBG., CHANG DBOTTOM.
AOL/HSM, 0# SICP, N 13,550' TO 13,370', C STARTED PULLING ALL WL, LEFT CCL, 0 Operations at Report Time SDON Daily Contacts GARY HENRICH, WE Time Log Start Time End Time 06:00 19:00 Daily Pressures	MIRU H.E.S. W ORRELATE T TENSION, WL GAMMA RAY, JOD CONTACT ELLSITE SUPE	O PLATFORM E . ENG. PULLED JUNK BASKET 8 ERVISOR Activity Code	XPRESS LOG DATED TO 4000# & PULLED (& GAUGE RING IN HO WELLSITE SUPERV	O 12-11-16, CORECT +29 DUT OF ROPE SOCKET DLE, RD WL, SWI, SDON Operations Next Report Per MOVE OUT INJ. T BOP RAMS, RIH W	P; RIH TO 13,605', START (SHOULD HAVE BEEN G . NOTIFIED CONCHO & D lod BG., SET IN 2 7/8" PH-6 7. //BIT TO PUSH TOOLS TO (575)631-4234	LOGGING UP, AT 13,570' GOOD TO 5100#) POOH, REDCP. 9# P-110 WS TBG., CHANG DBOTTOM.
13,550' TO 13,370', C STARTED PULLING ALL WL, LEFT CCL, I Operations at Report Time SDON Daily Contacts GARY HENRICH, WE Time Log Start Time End Time	MIRU H.E.S. W ORRELATE T TENSION, WL GAMMA RAY, JOD CONTACT ELLSITE SUPE	O PLATFORM E . ENG. PULLED 1 JUNK BASKET 8	XPRESS LOG DATED TO 4000# & PULLED (& GAUGE RING IN HO WELLSITE SUPERV	O 12-11-16, CORECT +29 DUT OF ROPE SOCKET DLE, RD WL, SWI, SDON Operations Next Report Per MOVE OUT INJ. T BOP RAMS, RIH W	P; RIH TO 13,605', START (SHOULD HAVE BEEN G . NOTIFIED CONCHO & I lod BG., SET IN 2 7/8" PH-6 7. //BIT TO PUSH TOOLS TO	9# P-110 WS TBG., CHANG BOTTOM.



Report # 32.0. Report Date: 1/14/2017

API'UWI 30-025-42207	Surface Legal 1893/S 950/W	Location SEC19-T19S-R32E	Fleid Name AGI		LEA .		State NM		Well Configuration Type Vertical
Original KB Elevation (ft) 3,572.00	K5-Tubing He	ad Distance (ff)	Spud Date 11/2/2016 0	3:00	Rig Release Date 12/13/2016 0		PBTD (All) (fix	5)	Total Depth All (TVD) (ftx8) Original Hole - 188.
ob Category COMPLETION		Primary Job Type INITIAL COMP	PLETION		tart Date 12/13/2016			End Date	
lob Objective									
Contractor ARIES	#Crew 46	1		ig Type Completion/	Workover	Rig Start (12/13/2			Rig Release Date
AFE Number 009612		Total AFE + Supp	Amount (Cost)		S30,685	al (Cost)		S508,96	Est To Date (Cost) 35
Daily Readings									
Report Start Date					Report End Date 1/14/2017				
	MÓVE OUT INJ CUT LIP GUIDI				7/8° 7.9# PH-6, F				N BOP, RIH W/4 11/16* ARS ON 434 JTS. OF WS
Past 24 Hours Operation Sur AOL/HSM, 0# SICP, OVERSHOT W/5 3/4	MÓVE OUT INJ CUT LIP GUIDI				7/8" 7.9# PH-6, F 5" EXTENSION, Operations Next R RIH & TAG F	3 ¾" BUM	PER SUB & 3	M MAY P	ARS ON 434 JTS. OF WS
Past 24 Hours Operation Sun AOL/HSM, 0# SICP, OVERSHOT W/5 3/4 TBG, TO 13,567", SI	MÓVE OUT INJ CUT LIP GUIDI				7/8" 7.9# PH-6, F 5" EXTENSION, Operations Next R RIH & TAG F	3 ¾" BUM	PER SUB & 3	M MAY P	ARS ON 434 JTS. OF WS
Past 24 Hours Operation Sun AOL/HSM, 0# SICP, OVERSHOT W/5 3/4 TBG, TO 13,567°, SI Operations at Report Time SDON Daily Contacts	MÓVE OUT INJ CUT LIP GUIDI VI, SDON.	E DRESSED W/	3 1/8° GRAP	PLE, 4 11/16	7/8" 7.9# PH-6, F 5" EXTENSION, Operations Next R RIH & TAG F TRYING TO	3 ¾" BUM	DT ON BOTTO	M MAY P	ARS ON 434 JTS. OF WS
Past 24 Hours Operation Sun AOL/HSM, 0# SICP, OVERSHOT W/5 3/4 TBG. TO 13,567", SI Operations at Report Time SDON Daily Contacts GARY HENRICH, W	MÓVE OUT INJ CUT LIP GUIDI VI, SDON.	E DRESSED W/	3 1/8° GRAP		7/8" 7.9# PH-6, F 5" EXTENSION, Operations Next R RIH & TAG F TRYING TO	3 ¾" BUM	PER SUB & 3	M MAY P	USH TO BOTTOM IF NOT
Past 24 Hours Operation Sun AOL/HSM, 0# SICP, OVERSHOT W/5 3/4 TBG. TO 13,567", SI Operations at Report Time SDON Daily Contacts GARY HENRICH, W Time Log	MÓVE OUT INJ CUT LIP GUIDI VI, SDON. JOD CONTACT	E DRESSED W/	3 1/8° GRAPI	PLE, 4 11/16	7/8" 7.9# PH-6, F 5" EXTENSION, Operations Next R RIH & TAG F TRYING TO	3 ¾" BUM	OT ON BOTTO ATCH ON TO 1 (575)631-	M MAY PFISH & PO	USH TO BOTTOM IF NOT
Past 24 Hours Operation Sun AOL/HSM, 0# SICP, OVERSHOT W/5 3/4 TBG, TO 13,567", S1 Operations at Report Time SDON Daily Contacts GARY HENRICH, W Time Log Start Time End Time	MÓVE OUT INJ CUT LIP GUIDI VI, SDON. JOD CONTACT	E DRESSED W/	3 1/8° GRAP	PLE, 4 11/16	7/8" 7.9# PH-6, F 5" EXTENSION, Operations Next R RIH & TAG F TRYING TO	3 ¾" BUM	DT ON BOTTO	M MAY PFISH & PO	USH TO BOTTOM IF NOT
Past 24 Hours Operation Sun AOL/HSM, 0# SICP, OVERSHOT W/5 3/4 TBG, TO 13,567", St Operations at Report Time SDON Daily Contacts GARY HENRICH, W Time Log Start Time End Tim 06:00 21:00	MÓVE OUT INJ CUT LIP GUIDI VI, SDON. JOB CONTACT ELLSITE SUPER	E DRESSED W/	3 1/8° GRAPI	PLE, 4 11/16	7/8" 7.9# PH-6, F 5" EXTENSION, Operations Next R RIH & TAG F TRYING TO	3 ¾" BUM	OT ON BOTTO ATCH ON TO 1 (575)631-	M MAY PFISH & PO	USH TO BOTTOM IF NOT
Past 24 Hours Operation Sun AOL/HSM, 0# SICP, OVERSHOT W/5 3/4 TBG. TO 13,567", SI Operations at Report Time SDON Daily Contacts GARY HENRICH, W Time Log Start Time End Time	MÓVE OUT INJ CUT LIP GUIDI VI, SDON. JOB CONTACT ELLSITE SUPER	E DRESSED W/	WELLSITE	PLE, 4 11/16	7/8" 7.9# PH-6, F 5" EXTENSION, Operations Next R RIH & TAG F TRYING TO	3 %" BUM depart Period FISH, IF NO STICK, LA	OT ON BOTTO ATCH ON TO 1 (575)631-	M MAY PFISH & PO	USH TO BOTTOM IF NOT



Well Name: ZIA AGI #2D

Report # 33.0, Report Date: 1/15/2017

API/UWI 30-025-42207	Surface Legal 1893/S 950/W	Location SEC19-T19S-R32E	Fleid Name AGI	LEA .		State NM		Well Configuration Type Vertical
Original KB Elevation (ft) 3,572.00	K5-Tubing He	ad Distance (T)	Spud Date 11/2/2016 03:00	Rig Release Date 12/13/2016		PBTD (All) (fix	5)	Total Depth All (TVD) (ffx8) Original Hole - 188.0
Job Category COMPLETION		Primary Job Type INITIAL COMF	PLETION	Start Date 12/13/2016			End Date	
Job Objective				•				
Contractor ARIES	#Crew 46	,	Rig Type Comple	tion/Workover	Rig Star 12/13		F	Rig Release Date
AFE Number 009612		Total AFE + Supp	Amount (Cost)	Daily Fleid Est To \$14,985	ital (Cost)		Cum Fleid E \$523,950	st To Date (Cost))
Daily Readings Report Start Date								
1/14/2017				Report End Date 1/15/2017				
GO BACK DOWN D	CP, RIH W/9 J ID NOT TAG, C	ONT PUSHING	FISH DOWN HOLE	E, PUSH TO 14,692'	& STACK	ED OUT, ROTA	ATE ON FIS	SH, P/U TO FREE TRAVEL, SH & SET DOWN 6 PTS., P/U
AOL/HSM, 0# SITP & GO BACK DOWN D TO FREE TRAVEL, (FULL RECOVERY) Operations at Report Time	K CP, RIH W/9 J ID NOT TAG, C 30 BACK DOW	ON'T PUSHING N & TAG IN SA	FISH DOWN HOLE ME SPOT, DECIDE	E, PUSH TO 14,692' TO POOH, LD 35 J	& STACK TS., SB 43 S. WS TO Report Period	ED OUT, ROTA 36 JTS. WS, JA 13,584, SWI, S	ATE ON FIS	
AOL/HSM, 0# SITP & GO BACK DOWN D TO FREE TRAVEL, (FULL RECOVERY) Operations at Report Time SDON	K CP, RIH W/9 J ID NOT TAG, C 30 BACK DOW	ON'T PUSHING N & TAG IN SA	FISH DOWN HOLE ME SPOT, DECIDE	E, PUSH TO 14,692' TO POOH, LD 35 J R & RIH ON 435 JTS Operations Next 1	& STACK TS., SB 43 S. WS TO Report Period	ED OUT, ROTA 36 JTS. WS, JA 13,584, SWI, S	ATE ON FIS	SH & SET DOWN 6 PTS., P/U
AOL/HSM, 0# SITP & GO BACK DOWN D TO FREE TRAVEL, (FULL RECOVERY) Operations at Report Time SDON	K CP, RIH W/9 J ID NOT TAG, C 30 BACK DOW	ON'T PUSHING N & TAG IN SA	FISH DOWN HOLE ME SPOT, DECIDE	E, PUSH TO 14,692' TO POOH, LD 35 J R & RIH ON 435 JTS Operations Next 1	& STACK TS., SB 43 S. WS TO Report Period	ED OUT, ROTA 36 JTS. WS, JA 13,584, SWI, S	ATE ON FIS	SH & SET DOWN 6 PTS., P/U
AOL/HSM, 0# SITP & GO BACK DOWN D TO FREE TRAVEL, (FULL RECOVERY) Operations at Report Time	A CP, RIH W/9 J ID NOT TAG, C GO BACK DOW LD FISH & TOC Job Contact	ONT PUSHING IN & TAG IN SAI DLS, MU 6° BIT (FISH DOWN HOLE ME SPOT, DECIDE	E, PUSH TO 14,692' TO POOH, LD 35 J' R & RIH ON 435 JT Operations Next LD WS TBG	& STACK TS., SB 43 S. WS TO Report Period	ED OUT, ROTA 36 JTS. WS, JA 13,584, SWI, S	ATE ON FIS RS, BUMPE DON.	SH & SET DOWN 6 PTS., P/U ER SUB, OVERSHOT & FISH
AOL/HSM, 0# SITP 8 GO BACK DOWN D TO FREE TRAVEL, 1 (FULL RECOVERY) Operations at Report Time SDON Daily Contacts GARY HENRICH, W	A CP, RIH W/9 J ID NOT TAG, C GO BACK DOW LD FISH & TOC Job Contact	ONT PUSHING IN & TAG IN SAI DLS, MU 6° BIT (FISH DOWN HOLE ME SPOT, DECIDE & 7" CSG. SCRAPER	E, PUSH TO 14,692' TO POOH, LD 35 J' R & RIH ON 435 JT Operations Next LD WS TBG	& STACK TS., SB 43 S. WS TO Report Period	ED OUT, ROTA 36 JTS. WS, JA 13,584, SWI, S ER & BIT.	ATE ON FIS RS, BUMPE DON.	SH & SET DOWN 6 PTS., P/U ER SUB, OVERSHOT & FISH
AOL/HSM, 0# SITP 8 GO BACK DOWN D TO FREE TRAVEL, ((FULL RECOVERY) Operations at Report Time SDON Daily Contacts GARY HENRICH, W Time Log Start Time End Time	CP, RIH W/9 J ID NOT TAG, C GO BACK DOW LD FISH & TOC Job Contact ELLSITE SUPER	ONT PUSHING IN & TAG IN SAI DLS, MU 6° BIT (FISH DOWN HOLE ME SPOT, DECIDE & 7" CSG. SCRAPER	E, PUSH TO 14,692' TO POOH, LD 35 J' R & RIH ON 435 JT Operations Next LD WS TBG	& STACK TS., SB 43 S. WS TO Report Period	ED OUT, ROTA 36 JTS. WS, JA 13,584, SWI, S ER & BIT.	ATE ON FIS RS, BUMPE DON.	SH & SET DOWN 6 PTS., P/U ER SUB, OVERSHOT & FISH
AOL/HSM, 0# SITP 8 GO BACK DOWN D TO FREE TRAVEL, ((FULL RECOVERY) Operations at Report Time SDON Daily Contacts GARY HENRICH, W Time Log Start Time End Time	CP, RIH W/9 J ID NOT TAG, C GO BACK DOW LD FISH & TOC Job Contact ELLSITE SUPER	ONT PUSHING N & TAG IN SA DLS, MU 6" BIT (FISH DOWN HOLE ME SPOT, DECIDE & 7° CSG. SCRAPER WELLSITE SUPER	E, PUSH TO 14,692' TO POOH, LD 35 J' R & RIH ON 435 JT Operations Next LD WS TBG	& STACK TS., SB 43 S. WS TO Report Period	ED OUT, ROTA 36 JTS. WS, JA 13,584, SWI, S ER & BIT. (575)631-4	ATE ON FIS RS, BUMPE DON.	SH & SET DOWN 6 PTS., P/U ER SUB, OVERSHOT & FISH
AOL/HSM, 0# SITP 8 GO BACK DOWN D TO FREE TRAVEL, (FULL RECOVERY) Operations at Report Time SDON Daily Contacts GARY HENRICH, W Time Log Start Time End Time 06:00 22:00	CP, RIH W/9 J ID NOT TAG, C GO BACK DOW LD FISH & TOC Job Contact ELLSITE SUPER	ONT PUSHING N & TAG IN SA DLS, MU 6" BIT (FISH DOWN HOLE ME SPOT, DECIDE & 7" CSG. SCRAPER WELLSITE SUPER	E, PUSH TO 14,692' TO POOH, LD 35 J' R & RIH ON 435 JT Operations Next LD WS TBG	& STACK TS., SB 43 S. WS TO Report Period	ED OUT, ROTA 36 JTS. WS, JA 13,584, SWI, S ER & BIT. (575)631-4	ATE ON FIS RS, BUMPE DON.	SH & SET DOWN 6 PTS., P/U ER SUB, OVERSHOT & FISH



Well Name: ZIA AGI #2D

Report # 34.0, Report Date: 1/16/2017

30-025-422	07	Surface Lega 1893/S 950/A	al Location W; SEC19-T19S-R32E	Fleid Name AGI		LEA .		State NM		Well Configuration Type Vertical
Original KB Elevi 3,572.00	ration (ff)	K5-Tubing H	read Distance (ft)	Spud Date 11/2/2016	03:00	Rig Release Date 12/13/2016		PSTD (All) (fix	(5)	Total Depth All (TVD) (ftk8) Original Hole - 188.0
Job Category COMPLETI	ION		Primary Job Type INITIAL COM	PLETION		Start Date 12/13/2016			End Date	
Job Objective						•				
Contractor ARIES		#Cre 46	Biv		Rig Type Completio	n/Workover	Rig Stan 12/13/		,	Rig Release Date
AFE Number 009612			Total AFE+ Supp	Amount (Cost)		Daily Fleid Est To \$8,685	tal (Cost)		S532,638	ist To Date (Cost) 5
Daily Read	ings									
Report Start Date	9					Report End Date 1/16/2017	1 -			
1/15/2017						1/10/2017				
Past 24 Hours Of AOL/HSM, (P, WORK B	IT & SCRAPER 3			-13,584', POOH 8	& LD 435 J	TS. OF WS TE	3G., CSG. S	SCRAPER & BIT, ALL IN
Past 24 Hours Of AOL/HSM, (0# SITP & CI APE, CHANG	P, WORK B				-13,584', POOH &	Report Period IBURTON			
Past 24 Hours O AOL/HSM, (GOOD SHA Operations at Re	0# SITP & CI APE, CHANG sport Time	P, WORK B				-13,584', POOH &	Report Period IBURTON			SCRAPER & BIT, ALL IN ,550', POOH, RIH W/PKR
Past 24 Hours Op AOL/HSM, (GOOD SHA Operations at Re SDON Daily Conta	0# SITP & CI APE, CHANG sport Time acts	P, WORK B GE PIPE RA	MS IN BOP BAC	K TO 3.5°, S	SWI, SDON	Operations Next F MIRU HALL ASSEMBLY	Report Period IBURTON	WL, RIH W/GI	R/JB TO 13	
Past 24 Hours Op AOL/HSM, (GOOD SHA Operations at Re SDON Daily Conta	0# SITP & CI APE, CHANG portTime	P, WORK B GE PIPE RA	MS IN BOP BAC	K TO 3.5°, S		Operations Next F MIRU HALL ASSEMBLY	Report Period IBURTON		R/JB TO 13	,550', POOH, RIH W/PKR
Past 24 Hours Op AOL/HSM, (GOOD SHA Operations at Re SDON Daily Conta	0# SITP & CI APE, CHANG sport Time acts	P, WORK B GE PIPE RA	MS IN BOP BAC	K TO 3.5°, S	SWI, SDON	Operations Next F MIRU HALL ASSEMBLY	Report Period IBURTON	WL, RIH W/GI	R/JB TO 13	,550', POOH, RIH W/PKR
Past 24 Hours O AOL/HSM, (GOOD SHA Operations at Re SDON Daily Conta GARY HEN Time Log Start Time	O# SITP & CI APE, CHANG sport Time acts JRICH, WELL End Time	P, WORK B SE PIPE RA	MS IN BOP BAC	K TO 3.5°, S	SWI, SDON	Operations Next F MIRU HALL ASSEMBLY	Report Period IBURTON	WL, RIH W/GI	R/JB TO 13	,550', POOH, RIH W/PKR
Past 24 Hours Op AOL/HSM, (GOOD SHA Operations at Re SDON Daily Conta GARY HEN Time Log	O# SITP & CI APE, CHANG portTime acts JO IRICH, WELL	P, WORK B SE PIPE RA 00 Contact LSITE SUPE	MS IN BOP BAC	WELLSITE	SWI, SDON	Operations Next F MIRU HALL ASSEMBLY	Report Period IBURTON	WL, RIH W/GI (575)631-	R/JB TO 13	,550', POOH, RIH W/PKR
Past 24 Hours Of AOL/HSM, (GOOD SHA Operations at Re SDON) Daily Contage Cont	O# SITP & CI APE, CHANG sportTime acts JO IRICH, WELL EndTime 19:00	P, WORK B SE PIPE RA	MS IN BOP BAC	WELLSITE	SWI, SDON	Operations Next F MIRU HALL ASSEMBLY	Report Period IBURTON	WL, RIH W/GI (575)631-	R/JB TO 13	,550', POOH, RIH W/PKR
Past 24 Hours O AOL/HSM, (GOOD SHA Operations at Re SDON Daily Conta GARY HEN Time Log Start Time	O# SITP & CI APE, CHANG sportTime acts JO IRICH, WELL EndTime 19:00	P, WORK B SE PIPE RA	MS IN BOP BAC	WELLSITE	SWI, SDON	Operations Next F MIRU HALL ASSEMBLY	Report Period IBURTON	WL, RIH W/GI (575)631-	R/JB TO 13	,550', POOH, RIH W/PKR



Well Name: ZIA AGI #2D

Report # 35.0, Report Date: 1/17/2017

API/UWI 30-025-42207			gal Location W; SEC19-T19S-R328	Fleid Nam AGI	e	LEA .		State NM		Well Configuration Type Vertical
Original K5 Elevation (3,572.00	(10)	K5-Tubing	Head Distance (ff)	Spud Date 11/2/20	16 03:00	Rig Release Date 12/13/2016 0	4:00	PBTD (All) (fix	(5)	Total Depth All (TVD) (fix8) Original Hole - 188.0
lob Category COMPLETION	(Primary Job Type INITIAL COM		1	Start Date 12/13/2016			End Date	
Job Objective										The The Control
Contractor ARIES		#C 46	rew		Rig Type Completio	n/Workover	Rig Start 12/13/			Rig Release Date
AFE Number 009612			Total AFE+ Su	pp Amount (Co	ost)	Dally Fleid Est Tota \$85,885	II (Cost)		S618,520	st To Date (Cost) 0
Daily Readings	8									
Report Start Date 1/16/2017						Report End Date 1/17/2017				
Past 24 Hours Operation AOL/HSM, MIRI PU HALLIBURT (INCOLOY 925,6'X 925), PUMP OU	RU HALLII TON 7° 2 5), 6' X 3.5 X 3.5° 9.3 UT PLUG	BURTON 6-32# BWI 5" 9.2# VAI # VAMTOR W/3 PINS	D PERMANENT MTOP BOX X PI P BOX X PIN PU (3.5" 9.2# VAM	PKR. W/4 N PUP JT P JT. INC TOP INC	.00° BORE (IN . (INCOLOY 9. OLOY 925), H. OLOY 925), RI	COLOY 925) W/S 25), HALLIBURTO ALLIBURTON 2.56	EAL BOR N 2. 562° 82° R NIP	E EXT., 4.75" & R NIPPLE 3.5" PLE, 3.5" 9.2#1	RND. BOX 9.2# VAMT VAMTOP B	(X 3.5° 9.2# VAMTOP PIN FOP BOX X PIN (NICKLE OX X PIN (NICKLE ALLOY
Past 24 Hours Operation AOL/HSM, MIRI PU HALLIBURT (INCOLOY 925; ALLOY 925,6' X 925), PUMP OU @ 13,535', POC Operations at Report Ti	RU HALLII TON 7" 2: 5), 6' X 3.5 X 3.5" 9.3: UT PLUG OH W/SE	BURTON 6-32# BWI 5" 9.2# VAI # VAMTOR W/3 PINS	D PERMANENT MTOP BOX X PI P BOX X PIN PU	PKR. W/4 N PUP JT P JT. INC TOP INC	.00° BORE (IN . (INCOLOY 9. OLOY 925), H. OLOY 925), RI	COLOY 925) W/S 25), HALLIBURTO ALLIBURTON 2.56 ECORRELTE TO (Operations Next R	EAL BOR N 2. 562" S2" R NIP OPEN HO	E EXT., 4.75" & R NIPPLE 3.5" PLE, 3.5" 9.2#1	RND. BÓ) 9.2# VAMT VAMTOP B RECTED +	(X 3.5° 9.2# VAMTOP PIN FOP BOX X PIN (NICKLE OX X PIN (NICKLE ALLOY
Past 24 Hours Operation AOL/HSM, MIRI PU HALLIBURT (INCOLOY 925,6'X 925), PUMP OU	RU HALLII TON 7" 2: 5), 6' X 3.5' X 3.5" 9.3: UT PLUG OH W/SE Time	BURTON 6-32# BWI 5" 9.2# VAI # VAMTOR W/3 PINS	D PERMANENT MTOP BOX X PI P BOX X PIN PU (3.5" 9.2# VAM	PKR. W/4 N PUP JT P JT. INC TOP INC	.00° BORE (IN . (INCOLOY 9. OLOY 925), H. OLOY 925), RI	COLOY 925) W/S 25), HALLIBURTO ALLIBURTON 2.56 ECORRELTE TO (Operations Next R	EAL BOR N 2. 562" S2" R NIP OPEN HO	E EXT., 4.75° 8 R NIPPLE 3.5° PLE, 3.5° 9.2# \ DLE LOG, COR	RND. BÓ) 9.2# VAMT VAMTOP B RECTED +	
Past 24 Hours Operation AOL/HSM, MIRI PU HALLIBURT (INCOLOY 925) ALLOY 925,6' X 925), PUMP OU @ 13,535', POC Operations at Report TI SDON	RU HALLÍI TON 7° 2' 5), 6' X 3.6' X 3.5° 9.3' UT PLUG OH W/SE Time	BURTON 6-32# BWI 5" 9.2# VAI # VAMTOR W/3 PINS	D PERMANENT MTOP BOX X PI P BOX X PIN PU (3.5" 9.2# VAM	PKR. W/4 N PUP JT P JT. INC TOP INC	.00° BORE (IN . (INCOLOY 9. OLOY 925), H. OLOY 925), RI	COLOY 925) W/S 25), HALLIBURTO ALLIBURTON 2.56 ECORRELTE TO (Operations Next R	EAL BOR N 2. 562" S2" R NIP OPEN HO	E EXT., 4.75° 8 R NIPPLE 3.5° PLE, 3.5° 9.2# \ DLE LOG, COR	RND. BÓ) 9.2# VAMT VAMTOP B RECTED +	(X 3.5° 9.2# VAMTOP PIN FOP BOX X PIN (NICKLE OX X PIN (NICKLE ALLOY
Past 24 Hours Operation AOL/HSM, MIRI PU HALLIBURT (INCOLOY 925) ALLOY 925,6' X 925), PUMP OU @ 13,535', POC Operations at Report TI SDON Daily Contacts	RU HALLÍI TON 7° 2i 5), 6' X 3.6 X 3.5° 9.3 UT PLUG OH W/SE Time	BURTON 16-32# BWI 6-32# BWI 5" 9.2# VAI # VAMTON W/3 PINS TTING TO	D PERMANENT MTOP BOX X PI P BOX X PIN PU S (3.5* 9.2# VAM OOL, RD WL, SV	PKR, W/4 N PUP JT P JT, INCO TOP INCO VI, SDON.	.00° BORE (IN . (INCOLOY 9. OLOY 925), H. OLOY 925), RI	COLOY 925) W/S 25), HALLIBURTO ALLIBURTON 2.56 ECORRELTE TO (Operations Next Ri RIH W/SEAL	EAL BOR N 2. 562" S2" R NIP OPEN HO	E EXT., 4.75° 8 R NIPPLE 3.5° PLE, 3.5° 9.2# \ DLE LOG, COR	RND. BÓX 9.2# VAMT VAMTOP B RECTED +	X X 3.5° 9.2# VAMTOP PIN FOP BOX X PIN (NICKLE OX X PIN (NICKLE ALLOY 20.5°, SET PKR. ELEMENT
Past 24 Hours Operation AOL/HSM, MIRI PU HALLIBURT (INCOLOY 925) ALLOY 925,6' X 925), PUMP OU (Incolor) (RU HALLÍI TON 7° 2i 5), 6' X 3.6 X 3.5° 9.3 UT PLUG OH W/SE Time	BURTON 16-32# BWI 6-32# BWI 5" 9.2# VAI # VAMTON W/3 PINS TTING TO	D PERMANENT MTOP BOX X PI P BOX X PIN PU S (3.5* 9.2# VAM OOL, RD WL, SV	PKR, W/4 N PUP JT P JT, INCO TOP INCO VI, SDON.	.00° BORÉ (IN . (INCOLOY 9: OLOY 925), H. OLOY 925), Ri	COLOY 925) W/S 25), HALLIBURTO ALLIBURTON 2.56 ECORRELTE TO (Operations Next Ri RIH W/SEAL	EAL BOR N 2. 562" S2" R NIP OPEN HO	E EXT., 4.75° 8 R NIPPLE 3.5° PLE, 3.5° 9.2# ' DLE LOG, COR	RND. BÓX 9.2# VAMT VAMTOP B RECTED +	X X 3.5° 9.2# VAMTOP PIN FOP BOX X PIN (NICKLE OX X PIN (NICKLE ALLOY 20.5°, SET PKR. ELEMENT
Past 24 Hours Operation AOL/HSM, MIRI PU HALLIBURT (INCOLOY 925,6' X 925), PUMP OU @ 13,535', POC Operations at Report Ti SDON Daily Contacts GARY HENRICH	RU HALLÍI TON 7° 2i 5), 6' X 3.6 X 3.5° 9.3 UT PLUG OH W/SE Time	BURTON 16-32# BWI 6-32# BWI 5" 9.2# VAI # VAMTON W/3 PINS TTING TO	D PERMANENT MTOP BOX X PI P BOX X PIN PU S (3.5* 9.2# VAM OOL, RD WL, SV	PKR, W/4 N PUP JT P JT, INCO TOP INCO VI, SDON.	.00° BORÉ (IN . (INCOLOY 9. OLOY 925), H. OLOY 925), RI	COLOY 925) W/S 25), HALLIBURTO ALLIBURTON 2.56 ECORRELTE TO (Operations Next Ri RIH W/SEAL	EAL BOR N 2. 562" S2" R NIP OPEN HO	E EXT., 4.75° 8 R NIPPLE 3.5° PLE, 3.5° 9.2# ' DLE LOG, COR	RND. BÓ) 9.2# VAMT VAMTOP B RECTED +	X X 3.5" 9.2# VAMTOP PIN FOP BOX X PIN (NICKLE OX X PIN (NICKLE ALLOY 20.5", SET PKR. ELEMENT
Past 24 Hours Operation AOL/HSM, MIRI PU HALLIBURT (INCOLOY 925,6' X 925), PUMP OU @ 13,535', POC Operations at Report Ti SDON Daily Contacts GARY HENRICH	RU HALLÍI TON 7° 2i 5), 6' X 3.8 X 3.5° 9.3 UT PLUG OH W/SE Time S UT, WELL	BURTON 16-32# BWR 5* 9.2# VAI 5* 9.2# VAI # VAIMTOR W/3 PINS TTING TO	D PERMANENT MTOP BOX X PI P BOX X PIN PU S (3.5" 9.2# VAM OOL, RD WL, SV	PKR. W/4 N PUP JT P JT. INC TOP INC VI, SDON.	.00° BORÉ (IN . (INCOLOY 9. OLOY 925), H. OLOY 925), RI	COLOY 925) W/S 25), HALLIBURTO ALLIBURTON 2.56 ECORRELTE TO (Operations Next Ri RIH W/SEAL	EAL BOR N 2. 562" S2" R NIP OPEN HO	E EXT., 4.75° 8 R NIPPLE 3.5° PLE, 3.5° 9.2# ° DLE LOG, COR DLY & INJECTIO (575)631-4	RND. BÓ) 9.2# VAMT VAMTOP B RECTED +	X X 3.5° 9.2# VAMTOP PIN FOP BOX X PIN (NICKLE OX X PIN (NICKLE ALLOY 20.5°, SET PKR. ELEMENT
Past 24 Hours Operation AOL/HSM, MIRI PU HALLIBURT (INCOLOY 925) ALLOY 925,8' X 925), PUMP OU (Incolory 925,8' X 925), PUMP OU (Incolory 925,8' X 925), PUMP OU (Incolory 925,8' X 925) Daily Contacts GARY HENRICH Time Log Start Time E 106:00 00:00	RU HALLÍI TON 7° 2i 5), 6' X 3.8 X 3.5° 9.3 UT PLUG OH W/SE Time S CH, WELL End Time	BURTON) 6-32# BWI 6-32# VAI 5" 9.2# VAI # VAMTOR W/3 PINS ETTING TO	D PERMANENT MTOP BOX X PI P BOX X PIN PU S (3.5" 9.2# VAM OOL, RD WL, SV	PKR. W/4 N PUP JT P JT. INC TOP INC VI, SDON.	.00° BORÉ (IN . (INCOLOY 9. OLOY 925), H. OLOY 925), RI	COLOY 925) W/S 25), HALLIBURTO ALLIBURTON 2.56 ECORRELTE TO (Operations Next Ri RIH W/SEAL	EAL BOR N 2. 562" S2" R NIP OPEN HO	E EXT., 4.75° 8 R NIPPLE 3.5° PLE, 3.5° 9.2# ° DLE LOG, COR DLY & INJECTIO (575)631-4	RND. BÓ) 9.2# VAMT VAMTOP B RECTED +	X X 3.5° 9.2# VAMTOP PIN FOP BOX X PIN (NICKLE OX X PIN (NICKLE ALLOY 20.5°, SET PKR. ELEMEN
Past 24 Hours Operation AOL/HSM, MIRI PU HALLIBURT (INCOLOY 925), ALLOY 925,6' X 925), PUMP OU @ 13,535', POC Operations at Report Ti SDON Daily Contacts GARY HENRICH Time Log Start Time E	RU HALLÍI TON 7° 2i 5), 6' X 3.8 X 3.5° 9.3 UT PLUG OH W/SE Time S CH, WELL End Time	BURTON) 6-32# BWI 6-32# VAI 5" 9.2# VAI # VAMTOR W/3 PINS ETTING TO	D PERMANENT MTOP BOX X PI P BOX X PIN PU S (3.5" 9.2# VAM OOL, RD WL, SV	PKR. W/4 N PUP JT P JT, INC TOP INC VI, SDON. WELLS	.00° BORÉ (IN . (INCOLOY 9. OLOY 925), H. OLOY 925), RI	COLOY 925) W/S 25), HALLIBURTO ALLIBURTON 2.56 ECORRELTE TO (Operations Next Ri RIH W/SEAL	EAL BOR N 2. 562" S2" R NIP OPEN HO	E EXT., 4.75° 8 R NIPPLE 3.5° PLE, 3.5° 9.2# ° DLE LOG, COR DLY & INJECTIO (575)631-4	RND. BÓ) 9.2# VAMT VAMTOP B RECTED +	X X 3.5° 9.2# VAMTOP PIN FOP BOX X PIN (NICKLE OX X PIN (NICKLE ALLOY 20.5°, SET PKR. ELEMEN



Report # 36.0. Report Date: 1/18/2017

API/UWI 30-025-42207	Surface Lega 1893/S 950/A	Location V; SEC19-T19S-R32E	Fleid Name AGI		County LEA		State NM		Well Configuration Type Vertical
Original K5 Elevation (ft) 3,572.00	K5-Tubing H	ead Distance (ff)	Spud Date 11/2/2016 (Rig Release Date 12/13/2016 04	:00	PBTD (All) (fix	(5)	Total Depth All (TVD) (flx8) Original Hole - 188.
ob Category COMPLETION		Primary Job Type INITIAL COM	PLETION	Start D 12/13	3/2016			End Date	
ob Objective									
Contractor ARIES	#Cre 46	N/		Rig Type Completion/Wor	rkover	Rig Start Date 12/13/201		RI	g Rélease Date
NFE Number 009612		Total AFE+ Supp	Amount (Cost)		Daily Fleid Est Total 36,985	(Cost)		S625,505	To Date (Cost)
Daily Readings									
Report Start Date 1/17/2017 Past 24 Hours Operation Summ AOL/HSM, 0# SICP, F SHOW, CALLED FRA	REP. TO RIH NKS & THEY	HAD IT ON BOO	OKS FOR TH	CTION TBG., ST HURSDAY INSTE	EAD OF TUES				N MACHINE, DID NOT REW & EQUIPMENT ON
Report Start Date 1/17/2017 Past 24 Hours Operation Summ AOL/HSM, 0# SICP, F SHOW, CALLED FR/ THE W/ETA OF 3:00 Operations at Report Time	REP. TO RIH NKS & THEY	HAD IT ON BOO	OKS FOR TH	1 CTION TBG., ST HURSDAY INSTE M RIGGED UP &	1/18/2017 TAND BY FOR EAD OF TUES	DAY, THE	Y SAID WO		
Report Start Date 1/17/2017 Past 24 Hours Operation Summ AOL/HSM, 0# SICP, F SHOW, CALLED FR/ THE W/ETA OF 3:00 Operations at Report Time SDON	REP. TO RIH NKS & THEY	HAD IT ON BOO	OKS FOR TH	1 CTION TBG., ST HURSDAY INSTE M RIGGED UP &	1/18/2017 TAND BY FOR EAD OF TUES & SDON. Operations Next Rep	DAY, THE	Y SAID WO		
Report Start Date 1/17/2017 Past 24 Hours Operation Summ AOL/HSM, 0# SICP, F SHOW, CALLED FR/ THE W/ETA OF 3:00 Operations at Report Time SDON Daily Contacts	PREP, TO RIH NKS & THEY PM, DECISIO	HAD IT ON BOO N WAS MADE T	OKS FOR THE	CTION TBG., ST HURSDAY INSTE M RIGGED UP &	1/18/2017 TAND BY FOR EAD OF TUES & SDON. Operations Next Rep RIH W/SEAL A	DAY, THE	Y SAID WO		
Report Start Date 1/17/2017 Past 24 Hours Operation Summ AOL/HSM, 0# SICP, F SHOW, CALLED FR/ THE W/ETA OF 3:00 Operations at Report Time SDON Daily Contacts	PREP, TO RIH NKS & THEY PM, DECISIO	HAD IT ON BOO N WAS MADE T	OKS FOR THE	CTION TBG., ST HURSDAY INSTE M RIGGED UP &	1/18/2017 TAND BY FOR EAD OF TUES & SDON. Operations Next Rep RIH W/SEAL A	DAY, THE	Y SAID WO	ULD GET CF	REW & EQUIPMENT ON
Report Start Date 1/17/2017 Past 24 Hours Operation Summ AOL/HSM, 0# SICP, F SHOW, CALLED FRA THE W/ETA OF 3:00 Deparations at Report Time SDON Daily Contacts GARY HENRICH, WE	PREP, TO RIH NKS & THEY PM, DECISIO	HAD IT ON BOO N WAS MADE T	OKS FOR THE	CTION TBG., ST HURSDAY INSTE M RIGGED UP &	1/18/2017 TAND BY FOR EAD OF TUES & SDON. Operations Next Rep RIH W/SEAL A	DAY, THE	Y SAID WO	ULD GET CF	REW & EQUIPMENT ON
Report Start Date 1/17/2017 Past 24 Hours Operation Summ AOL/HSM, 0# SICP, F SHOW, CALLED FRA THE W/ETA OF 3:00 Operations at Report Time SDON Daily Contacts GARY HENRICH, WE Time Log Start Time End Time	PREP. TO RIH NKS & THEY PM, DECISIO Job Contact ELLSITE SUPE	HAD IT ON BOO N WAS MADE T	OKS FOR THE	CTION TBG., ST HURSDAY INSTE M RIGGED UP &	1/18/2017 TAND BY FOR EAD OF TUES & SDON. Operations Next Rep RIH W/SEAL A	DAY, THE	Y SAID WO	ULD GET CF	REW & EQUIPMENT ON
Report Start Date 1/17/2017 Past 24 Hours Operation Summ AOL/HSM, 0# SICP, F SHOW, CALLED FRA THE W/ETA OF 3:00 Degrations at Report Time SDON Daily Contacts GARY HENRICH, WE Time Log Start Time End Time D6:00 19:00	PREP. TO RIH NKS & THEY PM, DECISIO	HAD IT ON BOO N WAS MADE TO REVISOR	WELLSITE	CTION TBG., ST HURSDAY INSTE M RIGGED UP &	1/18/2017 TAND BY FOR EAD OF TUES & SDON. Operations Next Rep RIH W/SEAL A	DAY, THE	% TBG. (575)631-	ULD GET CF	REW & EQUIPMENT ON
Report Start Date 1/17/2017 Iast 24 Hours Operation Summ AOL/HSM, 0# SICP, F SHOW, CALLED FRA THE W/ETA OF 3:00 Inperations at Report Time SDON Daily Contacts GARY HENRICH, WE Time Log Start Time End Time D6:00 19:00 Daily Pressures	PREP. TO RIH NKS & THEY PM, DECISIO Job Contact ELLSITE SUPE	HAD IT ON BOON WAS MADE TO	WELLSITE	CTION TBG., STHURSDAY INSTE	1/18/2017 TAND BY FOR EAD OF TUES & SDON. Operations Next Rep RIH W/SEAL A	ODAY, THE	& TBG. (575)631-	ULD GET CF	REW & EQUIPMENT ON
Report Start Date 1/17/2017 Past 24 Hours Operation Summ AOL/HSM, 0# SICP, F SHOW, CALLED FRA THE W/ETA OF 3:00 Operations at Report Time SDON Daily Contacts GARY HENRICH, WE Time Log Start Time End Time	PREP. TO RIH NKS & THEY PM, DECISIO Job Contact ELLSITE SUPE	HAD IT ON BOO N WAS MADE TO REVISOR	WELLSITE Activity (psi) Strin	CTION TBG., STHURSDAY INSTEM RIGGED UP & THE SUPERVISOR	1/18/2017 TAND BY FOR EAD OF TUES & SDON. Operations Next Rep RIH W/SEAL A	DAY, THE	& TBG. (575)631-	ULD GET CF	REW & EQUIPMENT ON



Original KB Elevation (ft) KB-Tubing Head Distance (ft) Spud Date Rig Release Date PBTD (All) (ftXB) Total Depth All (TVD) (ftXB)	API'UWI 30-025-42207	Surface Legal Location 1893/S 950/W; SEC19	1.00	Name	County LEA		State NM		Well Configuration Type Vertical
Primary Job Type	Original KB Elevation (ff)		nce (ff) Spud I						Total Depth All (TVD) (ft/S) Original Hole - 188.0
Rig Type	ob Category	Prima	ry Job Type	ON			E	nd Date	
ARIES 46 Completion/Workover 12/13/2016 FE Number 10sts AFE+ Supp Amount (Cost) Daily Field Est Total (Cost) Sign	1.5-3-1.5-5.1	lixii	IAL COMPLET	ON	12/13/2010				
Total AFE + Supp Amount (Cost) Daily Fleid Est Total (Cost) S8,865 S634,370					Name of the last				Rig Release Date
abily Readings sport Start Date Report End Date 1/19/2017	FE Number		al AFE+ Supp Amoun		Daily Field Est To		116		
Report End Date 1/19/2017			1000		\$8,865			\$634,37	0.
Section Summary	eport Start Date								
CONTINUE RIH W/INJECTION TBG.	OL/HSM, 0# SICP, F UP JT., HAL ROC P NCONEL TBG., 3.5"	INISH RIGGING UP TGAUGE MANDREL 9.3# BTS-8 BOX X 3	ASSEMBLY, 3 .5° 9.2# VAMTO	5" 9.2# VAMTOF P PIN L-80 PUP	JT., 61 JTS. OF	SURTON 2.5	62" R NIPPLE,	9 JTS. C	F 3.5" 9.2# VAMTOP
Daily Contacts							CTION TRG		
GARY HENRICH, WELLSITE SUPERVISOR (575)631-4234	37.13/61				CONTINUE	IXIII YV/IIAOL	CHON 100.		
Start Time	SARVHENRICH WE		IR WE	LSITE SLIDERVI			(575)631.42	3.4	Mobile
Start Time		LLSITE SUPERVISC	AK IVVE	LSITE SUPERVI	ISON		(0/0)031-42	34	
Daily Pressures Pressure (psi) String Note CSG 0.0 String Note ressure Type Pressure (psi) String Note	Start Time End Time		ode Ac	tivity			Com		
Pressure Type Pressure (psl) String Note CSG 0.0 String Note Pressure Type Pressure (psl) String Note		14.00		1					
Pressure Type Pressure (psi) String Note	Pressure Type			String		No	ne.		
				String		No	ote		
			0.0	17.2					



Well Name: ZIA AGI #2D

Report # 38.0, Report Date: 1/20/2017

API/UWI 30-025-42207	the state of the s	al Location W; SEC19-T19S-R32E	Fleid Name AGI	County LEA		State NM		Well Configuration Type Vertical
Original K5 Elevation (ft) 3,572.00	K5-Tubing	Head Distance (ff)	Spud Date 11/2/2016 03:00	Rig Release Dat 12/13/2016		PBTD (All) (ft	KB)	Total Depth All (TVD) (ftk8) Original Hole - 188.0
ob Category COMPLETION		Primary Job Type INITIAL COM	PLETION	Start Date 12/13/2016			End Date	
lob Objective								
Contractor ARIES	#C 46		Rig Type Comple	etion/Workover	Rig Start 12/13/			Rig Release Date
AFE Number 009612		Total AFE + Supp	Amount (Cost)	Daily Fleid Est To \$16,915	otal (Cost)		S651,28	Est To Date (Cost) 35
Daily Readings								
Report Start Date				Report End Date				
Past 24 Hours Operation S AOL/HSM, 0# SITE CLAMPING TEC L	% CP, RESUMI INE W/1 CLAMF	PER JT. RUN 1		1/20/2017 E TBG. TO SPEC., E 00 JTS. IN HOLE, BT				E CONNECTIONS &
Past 24 Hours Operation S AOL/HSM, 0# SITE CLAMPING TEC L TALLY REST OF T Operations at Report Time	% CP, RESUMI INE W/1 CLAMF	PER JT. RUN 1		E TBG. TO SPEC., E 10 JTS. IN HOLE, BT	M OF SEA	L ASSEMBLY	@ 6058',	E CONNECTIONS &
CLAMPING TEC L TALLY REST OF T Operations at Report Time SDON	% CP, RESUMI INE W/1 CLAMF	PER JT. RUN 1		E TBG. TO SPEC., E 10 JTS. IN HOLE, BT	M OF SEA		@ 6058',	E CONNECTIONS &
Past 24 Hours Operation S AOL/HSM, 0# SITE CLAMPING TEC L TALLY REST OF T Operations at Report Time SDON	% CP, RESUMI INE W/1 CLAMF	PER JT. RUN 1		E TBG. TO SPEC., E 10 JTS. IN HOLE, BT	M OF SEA	L ASSEMBLY	@ 6058',	HE CONNECTIONS &
Past 24 Hours Operation S AOL/HSM, 0# SITE CLAMPING TEC L TALLY REST OF T Operations at Report Time	P & CP, RESUMI INE W/1 CLAMP BG., SWI, SDO	PPER JT. RUN 1		E TBG. TO SPEC., E 10 JTS. IN HOLE, BT Operations Next CON'T. RUI	M OF SEA	L ASSEMBLY	@ 6058',	
Past 24 Hours Operation S AOL/HSM, 0# SITE CLAMPING TEC L TALLY REST OF T Operations at Report Time SDON Daily Contacts GARY HENRICH,	P & CP, RESUMI INE W/1 CLAMP BG., SWI, SDO	PPER JT. RUN 1	20 JTS. TODAY, 19	E TBG. TO SPEC., E 10 JTS. IN HOLE, BT Operations Next CON'T. RUI	M OF SEA	L ASSEMBLY	@ 6058',	
Past 24 Hours Operation S AOL/HSM, 0# SITE CLAMPING TEC L TALLY REST OF T Operations at Report Time SDON Daily Contacts GARY HENRICH, Time Log Start Time End T End T	P & CP, RESUMINE W/1 CLAMP BG., SWI, SDO Job Contact WELLSITE SUP	PPER JT. RUN 1	20 JTS. TODAY, 19	E TBG. TO SPEC., E 10 JTS. IN HOLE, BT Operations Next CON'T. RUI	M OF SEA	L ASSEMBLY	@ 6058', 4234	
Past 24 Hours Operation S AOL/HSM, 0# SITE CLAMPING TEC L TALLY REST OF T Operations at Report Time SDON Daily Contacts GARY HENRICH, Time Log Start Time End T 06:00 20:00	Job Contact	P PER JT. RUN 1	20 JTS. TODAY, 19	E TBG. TO SPEC., E 10 JTS. IN HOLE, BT Operations Next CON'T. RUI	M OF SEA	L ASSEMBLY JECTION TBG (575)631-	@ 6058', 4234	
Past 24 Hours Operation S AOL/HSM, 0# SITE CLAMPING TEC L TALLY REST OF T Operations at Report Time SDON Daily Contacts GARY HENRICH, Time Log Start Time End T 06:00 20:00 Daily Pressures	P & CP, RESUMINE W/1 CLAMP BG., SWI, SDO Job Contact WELLSITE SUP	P PER JT. RUN 1	20 JTS. TODAY, 19 WELLSITE SUPER	E TBG. TO SPEC., E 10 JTS. IN HOLE, BT Operations Next CON'T. RUI	M OF SEA	L ASSEMBLY JECTION TBG (575)631-	@ 6058', 4234	
Past 24 Hours Operation S AOL/HSM, 0# SITE CLAMPING TEC L TALLY REST OF T Operations at Report Time SDON Daily Contacts GARY HENRICH, Time Log Start Time End T	P & CP, RESUMINE W/1 CLAMP BG., SWI, SDO Job Contact WELLSITE SUP	P PER JT. RUN 1	20 JTS. TODAY, 19 WELLSITE SUPER	E TBG. TO SPEC., E 10 JTS. IN HOLE, BT Operations Next CON'T. RUI	M OF SEA	L ASSEMBLY JECTION TBG (575)631-	@ 6058', 4234	



Well Name: ZIA AGI #2D

Report # 39.0, Report Date: 1/21/2017

API/UWI 30-025-42207	Surface Leg 1893/S 950	al Location W; SEC19-T19S-R32E	Fleid Name AGI	County LEA		NM State		Well Configuration Type Vertical
Original KB Elevation (ft) 3,572.00	K5-Tubing	Head Distance (11)	Spud Date 11/2/2016 03:00	Rig Release D 12/13/201		PBTD (All) (fixe	5)	Total Depth All (TVD) (ftKB) Original Hole - 188.0
ob Category COMPLETION		Primary Job Type INITIAL COM	PLETION	Start Date 12/13/2016			End Date	
lob Objective								
Contractor ARIES	#C 46		Rig Ty Com	pe pletion/Workover	Rig Start 12/13/		Rig	Release Date
FE Number 009612		Total AFE+ Supp	Amount (Cost)	Daily Field Est \$59,515	Total (Cost)		5710,800	To Date (Cost)
Daily Readings								
				Report End Da	le .			
1/20/2017 Past 24 Hours Operation S AOL/HSM, 0# SITE	& CP, RESUM			1/21/2017 UE TBG. TO SPEC., 344 JTS TOTAL IN				
/20/2017 ast 24 Hours Operation S AOL/HSM, 0# SITE CLAMPING TEC L perations at Report Time	& CP, RESUM			UE TBG. TO SPEC., 344 JTS. TOTAL IN Operations Ne FINISH RI	HOLE, BTM	OF SEAL ASSE	MBLY @ 10,	
I/20/2017 last 24 Hours Operation S AOL/HSM, 0# SITE CLAMPING TEC L Operations at Report Time SDON	& CP, RESUM			UE TBG. TO SPEC., 344 JTS. TOTAL IN Operations Ne FINISH RI	HOLE, BTM of Report Period H, STING IN	OF SEAL ASSE	MBLY @ 10,	894', SWI, SDON.
J/20/2017 Jast 24 Hours Operation S AOL/HSM, 0# SITE CLAMPING TEC L Aperations at Report Time SDON Daily Contacts	& CP, RESUM NE W/1 CLAMF	PER JT. RUN 1		Operations Ne FINISH RU	HOLE, BTM of Report Period H, STING IN	OF SEAL ASSE	MBLY @ 10,	894', SWI, SDON.
J20/2017 ast 24 Hours Operation S AOL/HSM, 0# SITE CLAMPING TEC L Operations at Report Time SDON Daily Contacts GARY HENRICH,	& CP, RESUM NE W/1 CLAMF	PER JT. RUN 1	54 JTS. TODAY,	Operations Ne FINISH RU	HOLE, BTM of Report Period H, STING IN	OF SEAL ASSE N TO PKR., TES JID.	MBLY @ 10,	894', SWI, SDON. RE IN, STING OUT, SP.
1/20/2017 Past 24 Hours Operation S AOL/HSM, 0# SITE CLAMPING TEC L Operations at Report Time SDON Daily Contacts GARY HENRICH, Time Log Start Time EndT	Job Contact WELLSITE SUP	PER JT. RUN 1	54 JTS. TODAY,	Operations Ne FINISH RU	HOLE, BTM of Report Period H, STING IN	OF SEAL ASSE I TO PKR., TES JID.	MBLY @ 10,	894', SWI, SDON. RE IN, STING OUT, SP.
/20/2017 ast 24 Hours Operation S AOL/HSM, 0# SITE CLAMPING TEC L APPEARANCE INTERPRETATION PER SITE SITE SITE SITE SITE SITE SITE SITE	& CP, RESUMI NE W/1 CLAMP Job Contact WELLSITE SUP	PER JT. RUN 1	54 JTS. TODAY,	Operations Ne FINISH RU	HOLE, BTM of Report Period H, STING IN	OF SEAL ASSE I TO PKR., TES JID. (575)631-4	MBLY @ 10,	894', SWI, SDON. RE IN, STING OUT, SP.
/20/2017 ast 24 Hours Operation S AOL/HSM, 0# SITE CLAMPING TEC L APPEARANCE INTERPRETATION PER SITE SITE SITE SITE SITE SITE SITE SITE	Job Contact WELLSITE SUP	P PER JT. RUN 1 ERVISOR Activity Code	WELLSITE SUF	Operations Ne FINISH RU	HOLE, BTM of Report Period H, STING IN	OF SEAL ASSE I TO PKR., TES JID. (575)631-4	MBLY @ 10,	894', SWI, SDON. RE IN, STING OUT, SP.
CLAMPING TEC L Operations at Report Time SDON Daily Contacts GARY HENRICH, Time Log Start Time EndT	Job Contact WELLSITE SUP	PER JT. RUN 1	WELLSITE SUF	Operations Ne FINISH RU	HOLE, BTM of Report Period H, STING IN	OF SEAL ASSE I TO PKR., TES JID. (575)631-4	MBLY @ 10,	894', SWI, SDON. RE IN, STING OUT, SP.



Report # 40.0 Report Date: 1/22/2017

API/UWI 30-025-42207	100000000000000000000000000000000000000	egal Location OW: SEC19-T19S-R32E	Fleid Name AGI		County LEA	State NM		Well Configuration Type Vertical
Original KS Elevation (fl) 3,572.00	100000	Head Distance (ff)	Spud Date 11/2/2016 03	3:00	Rig Relesse Date 12/13/2016 04:00	PSTD (All) (1	(KB)	Total Depth All (TVD) (ftK8) Original Hole - 188.0
ob Category COMPLETION		Primary Job Type INITIAL COM	PLETION		Date 13/2016		End Date	
ob Objective								
Contractor ARIES		Crew 6		Type ompletion/Wo		Start Date /13/2016	Rig	g Release Date
NFE Number 009612		Total AFE + Sup	p Amount (Cost)		Dally Field Est Total (Cost) \$10,415		S721,215	To Date (Cost)
Daily Readings								
Report Start Date 1/21/2017					Report End Date 1/22/2017			
					STING IN TO PKR.		20# GEL PILL	POLLOWED BY 200 BBLS
OF DIESEL PKR.	FLUID, TORUS			ABORT JOB,	STING IN TO PKR. Operations Next Report Pe LAY LINE TO FRA 30 BBL. HIGH VIS. BBLS. DIESEL BA(, SWI, SDON. Flod C TANK, STING PILL & FOLLOW CK TO TANK, SW FLUID ALL THE	OUT OF PKR. W/DIESEL PI	, CONVENTIONALLY PUM KR. FLUID, DISPLACE 190
OF DIESEL PKR. Operations at Report Time SDON	FLUID, TORUS			ABORT JOB,	STING IN TO PKR. Operations Next Report Pe LAY LINE TO FRA 30 BBL. HIGH VIS. BBLS. DIESEL BAC CIRCULATE PKR.	, SWI, SDON. Flod C TANK, STING PILL & FOLLOW CK TO TANK, SW FLUID ALL THE	OUT OF PKR. W/DIESEL PI	, CONVENTIONALLY PUM KR. FLUID, DISPLACE 190 TO BLOW DOWN TANK & D, STING IN TO PKR.,
OF DIESEL PKR. Operations at Report Time SDON Daily Contacts	FLUID, TORUS e Job Contact	ANNULAR FAILE	D & HAD TO A	ABORT JOB,	STING IN TO PKR. Operations Next Report Pe LAY LINE TO FRA 30 BBL. HIGH VIS. BBLS. DIESEL BA(CIRCULATE PKR. INSTALL TBG. HA	, SWI, SDON. Flod C TANK, STING (PILL & FOLLOW CK TO TANK, SW FLUID ALL THE NGER & LAND T	OUT OF PKR. WIDIESEL PI ITCH FLOW T WAY AROUNI BG.	, CONVENTIONALLY PUM KR. FLUID, DISPLACE 190 TO BLOW DOWN TANK &
OF DIESEL PKR. Operations at Report Time SDON Daily Contacts	FLUID, TORUS e Job Contact	ANNULAR FAILE	D & HAD TO A	ABORT JOB,	STING IN TO PKR. Operations Next Report Pe LAY LINE TO FRA 30 BBL. HIGH VIS. BBLS. DIESEL BA(CIRCULATE PKR. INSTALL TBG. HA	, SWI, SDON. Flod C TANK, STING PILL & FOLLOW CK TO TANK, SW FLUID ALL THE	OUT OF PKR. WIDIESEL PI ITCH FLOW T WAY AROUNI BG.	, CONVENTIONALLY PUM KR. FLUID, DISPLACE 190 TO BLOW DOWN TANK & D, STING IN TO PKR.,
OF DIESEL PKR. Operations at Report Time SDON Daily Contacts GARY HENRICH, Time Log	Job Contact , WELLSITE SU	PERVISOR	WELLSITE S	ABORT JOB,	STING IN TO PKR. Operations Next Report Pe LAY LINE TO FRA 30 BBL. HIGH VIS. BBLS. DIESEL BA(CIRCULATE PKR. INSTALL TBG. HA	, SWI, SDON. FIOR TANK, STING (PILL & FOLLOW CK TO TANK, SW FLUID ALL THE (NGER & LAND T	OUT OF PKR. W/DIESEL PI ITCH FLOW WAY AROUNI BG.	, CONVENTIONALLY PUM KR. FLUID, DISPLACE 190 TO BLOW DOWN TANK & D, STING IN TO PKR.,
OF DIESEL PKR. Operations at Report Time SDON Daily Contacts GARY HENRICH, Time Log Start Time End	Job Contact , WELLSITE SU	PERVISOR	D & HAD TO A	ABORT JOB,	STING IN TO PKR. Operations Next Report Pe LAY LINE TO FRA 30 BBL. HIGH VIS. BBLS. DIESEL BA(CIRCULATE PKR. INSTALL TBG. HA	, SWI, SDON. Flod C TANK, STING (PILL & FOLLOW CK TO TANK, SW FLUID ALL THE NGER & LAND T	OUT OF PKR. W/DIESEL PI ITCH FLOW WAY AROUNI BG.	, CONVENTIONALLY PUM KR. FLUID, DISPLACE 190 TO BLOW DOWN TANK & D, STING IN TO PKR.,
OF DIESEL PKR. Operations at Report Time SDON Daily Contacts GARY HENRICH, Time Log Start Time End* 06:00 22:00	Job Contact , WELLSITE SU	PERVISOR	WELLSITE S	ABORT JOB,	STING IN TO PKR. Operations Next Report Pe LAY LINE TO FRA 30 BBL. HIGH VIS. BBLS. DIESEL BA(CIRCULATE PKR. INSTALL TBG. HA	, SWI, SDON. FIOR TANK, STING (PILL & FOLLOW CK TO TANK, SW FLUID ALL THE (NGER & LAND T	OUT OF PKR. W/DIESEL PI ITCH FLOW WAY AROUNI BG.	, CONVENTIONALLY PUM KR. FLUID, DISPLACE 190 TO BLOW DOWN TANK & D, STING IN TO PKR.,
OF DIESEL PKR. Operations at Report Time SDON Daily Contacts GARY HENRICH, Time Log Start Time End	Job Contact , WELLSITE SU	PERVISOR	WELLSITE S	ABORT JOB,	STING IN TO PKR. Operations Next Report Pe LAY LINE TO FRA 30 BBL. HIGH VIS. BBLS. DIESEL BA(CIRCULATE PKR. INSTALL TBG. HA	, SWI, SDON. FIOR TANK, STING (PILL & FOLLOW CK TO TANK, SW FLUID ALL THE (NGER & LAND T	OUT OF PKR. W/DIESEL PI ITCH FLOW WAY AROUNI BG.	, CONVENTIONALLY PUM KR. FLUID, DISPLACE 190 TO BLOW DOWN TANK & D, STING IN TO PKR.,



Daily Completion and Workover

Well Name: ZIA AGI #2D

Report # 41.0, Report Date: 1/23/2017

API-UWI 30-025-42207	Surface Legal	Location SEC19-T19S-R32E	Fleid Name AGI		County LEA		State NM		Well Configur Vertical	ation Type
Original KB Elevation (ff) 3,572.00	1,000,000,000,000	ad Distance (ff)	Spud Date 11/2/201	6 03:00	Rig Release Date 12/13/2016 (PSTD (All) (f	K5)	Total Depth Al	(TVD) (ftKB) Hole - 188.0
ob Category COMPLETION		Primary Job Type INITIAL COM	PLETION		Start Date 12/13/2016			End Date		
lob Objective					•					
Contractor ARIES	#Crea 46	v		Rig Type Completio	on/Workover	Rig Start 12/13/			Rig Release Date	
AFE Number 009612		Total AFE + Supp	Amount (Cost	Y	S503,915	tal (Cost)		S1,225	Est To Date (Cost) ,130	
Daily Readings										
Report Start Date 1/22/2017					Report End Date 1/23/2017	1				
TANK, SD, SWITCH F SCAVENGER, BIOCII TEST TO 5000#, OK, & BOP, NU 5M TREE CHECK IN TBG. HAN	LOW TO BLO DES & WATER FEED TEC LIF TORQUE TO GER, TEST TI	W DOWN TAN SCAVENGER, IE & HYD. LINE SPEC., MAKE I REE SHELL TO	K, RESUM STING IN THROUG HYD. & TE 250# FOR	TO PKR., R TO PKR., R H TBG. HAI C LINE SUR (10 MIN., 50	ING, PUMP A TO ED HALLIBURTON NGER, LAND TBG RFACE CONNECT 000# FOR 10/MIN.	TAL OF 50 I, INSTALL S. IN 26 PC TONS, TES , OK, REM	0 BBLS. RED TBG. HANGE DINTS COMPE ST HYD. LINE IOVE CHECK	DIESEL C ER, TORQ RESSION TO 6000# R/U HALL	ONTAINING OX UE TO SPEC., E (20 PTS. @ PKR FOR MIN., INST IBURTON TO C	YGEN EXTERNALLY .) ND TORU: TALL 2 WAY ESG.,
TANK, SD, SWITCH F SCAVENGER, BIOCII TEST TO 5000#, OK, & BOP, NU 5M TREE CHECK IN TBG. HAN PERFORM 500# PRE 5/10/15- 1161/1156/11 Operations at Report Time	LOW TO BLO DES & WATER FEED TEC LII TORQUE TO GER, TEST TI LIMINARY MIT	W DOWN TAN SCAVENGER, IE & HYD. LINE SPEC., MAKE I REE SHELL TO TEST FOR 30	K, RESUM STING IN THROUG HYD. & TE 250# FOR MIN., OK,	TO PKR., R TO PKR., R H TBG. HAI C LINE SUR (10 MIN., 50	ING, PUMP A TO ID HALLIBURTON NGER, LAND TBG RFACE CONNECT 100# FOR 10/MIN. 3. & PUMP PLUG Operations Next #	TAL OF 50 I, INSTALL B. IN 26 PC TIONS, TE: OK, REM OUT OF F Report Period LEAN LOC	0 BBLS. RED. TBG. HANGE DINTS COMPE ST HYD. LINE IOVE CHECK, PKR. @ 3000#	DIESEL C ER, TORQ RESSION TO 6000# R/U HALL FLUSH V	ONTAINING OX UE TO SPEC., E (20 PTS. @ PKR FOR MIN., INST IBURTON TO C	YGEN EXTERNALLY .) ND TORU: TALL 2 WAY SG., L, ISIP 1262
AOL/HSM, LAY FLOV TANK, SD, SWITCH F SCAVENGER, BIOCII TEST TO 5000#, OK, & BOP, NU 5M TREE CHECK IN TBG. HAN PERFORM 500# PRE 5/10/15- 1161/1156/11	LOW TO BLO DES & WATER FEED TEC LII TORQUE TO GER, TEST TI LIMINARY MIT	W DOWN TAN SCAVENGER, IE & HYD. LINE SPEC., MAKE I REE SHELL TO TEST FOR 30	K, RESUM STING IN THROUG HYD. & TE 250# FOR MIN., OK,	TO PKR., R TO PKR., R H TBG. HAI C LINE SUR (10 MIN., 50	ING, PUMP A TOTAL INGER, LAND TBG REACE CONNECT 000# FOR 10/MIN. 3. & PUMP PLUG Operations Next. RD WSU, C	TAL OF 50 I, INSTALL B. IN 26 PC TIONS, TE: OK, REM OUT OF F Report Period LEAN LOC	0 BBLS. RED. TBG. HANGE DINTS COMPE ST HYD. LINE IOVE CHECK, PKR. @ 3000#	DIESEL C ER, TORQ RESSION TO 6000# R/U HALL FLUSH V	ONTAINING OX UE TO SPEC., E (20 PTS. @ PKR FOR MIN., INST IBURTON TO C 1/5 BBLS. DIESE	YGEN EXTERNALLY .) ND TORU: TALL 2 WAY SG., L, ISIP 1262
TANK, SD, SWITCH F SCAVENGER, BIOCII TEST TO 5000#, OK, & BOP, NU 5M TREE CHECK IN TBG. HAN PERFORM 500# PRE 5/10/15- 1161/1156/11 Operations at Report Time SDON	FLOW TO BLC DES & WATER FEED TEC LIN TORQUE TO GER, TEST TI LIMINARY MIT 56#, SWI, RD	W DOWN TAN SCAVENGER, IE & HYD. LINE SPEC., MAKE! REE SHELL TO TEST FOR 30 HALLIBURTON	K, RESUM STING IN THROUG HYD. & TE 250# FOR MIN., OK, I, SDON.	TO PKR., R TO PKR., R H TBG. HAI C LINE SUR (10 MIN., 50	ING, PUMP A TOTED HALLIBURTON NGER, LAND TBG RFACE CONNECT 000# FOR 10/MIN. S. & PUMP PLUG Operations Next.* RD WSU, C WELL OVER	TAL OF 50 I, INSTALL B. IN 26 PC TIONS, TE: OK, REM OUT OF F Report Period LEAN LOC	0 BBLS. RED. TBG. HANGE DINTS COMPE ST HYD. LINE IOVE CHECK, PKR. @ 3000#	DIESEL C ER, TORQ RESSION I TO 6000# R/U HALL FLUSH V	ONTAINING OX UE TO SPEC., E (20 PTS. @ PKR FOR MIN., INST IBURTON TO C 1/5 BBLS. DIESE	YGEN EXTERNALLY .) ND TORU: TALL 2 WAY SG., L, ISIP 1262
TANK, SD, SWITCH F SCAVENGER, BIOCII TEST TO 5000#, OK, & BOP, NU 5M TREE CHECK IN TBG. HAN PERFORM 500# PRE 5/10/15- 1161/1156/11 Operations at Report Time SDON Daily Contacts GARY HENRICH, WE Time Log	FLOW TO BLC DES & WATER FEED TEC LIF TORQUE TO GER, TEST TI LIMINARY MIT 56#, SWI, RD	W DOWN TAN SCAVENGER, IE & HYD. LINE SPEC., MAKE I REE SHELL TO TEST FOR 30 HALLIBURTON	K, RESUM STING IN THROUG HYD. & TE 250# FOR MIN., OK, I, SDON.	IE DISPLAC TO PKR., R IH TBG. HAI C LINE SUR 10 MIN., 50 RU/TO TBG	ING, PUMP A TOTED HALLIBURTON NGER, LAND TBG RFACE CONNECT 000# FOR 10/MIN. S. & PUMP PLUG Operations Next.* RD WSU, C WELL OVER	TAL OF 50 I, INSTALL B. IN 26 PC TIONS, TE: OK, REM OUT OF F Report Period LEAN LOC	0 BBLS. RED. TBG. HANGE DINTS COMPE ST HYD. LINE IOVE CHECK, PKR. @ 3000#	DIESEL C ER, TORQ RESSION I TO 6000# R/U HALL FLUSH V	ONTAINING OX UE TO SPEC., E (20 PTS. @ PKR. FOR MIN., INST IBURTON TO C 1/5 BBLS. DIESE	YGEN EXTERNALLY .) ND TORU: TALL 2 WAY SG., L, ISIP 1262
TANK, SD, SWITCH F SCAVENGER, BIOCII TEST TO 5000#, OK, & BOP, NU 5M TREE CHECK IN TBG. HAN PERFORM 500# PRE 5/10/15- 1161/1156/11 Operations at Report Time SDON	FLOW TO BLC DES & WATER FEED TEC LIF TORQUE TO GER, TEST TI LIMINARY MIT 56#, SWI, RD	W DOWN TAN SCAVENGER, IE & HYD. LINE SPEC., MAKE! REE SHELL TO TEST FOR 30 HALLIBURTON	K, RESUM STING IN THROUG HYD. & TE 250# FOR MIN., OK, I, SDON.	IE DISPLAC TO PKR., R IH TBG. HAI C LINE SUR 10 MIN., 50 RU/TO TBG	ING, PUMP A TOTED HALLIBURTON NGER, LAND TBG RFACE CONNECT 000# FOR 10/MIN. S. & PUMP PLUG Operations Next.* RD WSU, C WELL OVER	TAL OF 50 I, INSTALL B. IN 26 PC TIONS, TE: OK, REM OUT OF F Report Period LEAN LOC	0 BBLS. RED. TBG. HANGE DINTS COMPI ST HYD. LINE IOVE CHECK, PKR. @ 3000#	DIESEL C ER, TORQ RESSION I TO 6000# R/U HALL FLUSH V	ONTAINING OX UE TO SPEC., E (20 PTS. @ PKR. FOR MIN., INST IBURTON TO C 1/5 BBLS. DIESE	YGEN EXTERNALLY .) ND TORU: TALL 2 WAY SG., L, ISIP 1262
TANK, SD, SWITCH F SCAVENGER, BIOCII TEST TO 5000#, OK, & BOP, NU 5M TREE CHECK IN TBG. HAN PERFORM 500# PRE 5/10/15- 1161/1156/11 Operations at Report Time SDON Daily Contacts GARY HENRICH, WE Time Log Start Time End Time	FLOW TO BLC DES & WATER FEED TEC LIN TORQUE TO GER, TEST TI LIMINARY MIT 56#, SWI, RD Job Contact LLSITE SUPE	W DOWN TAN SCAVENGER, IE & HYD. LINE SPEC., MAKE I REE SHELL TO TEST FOR 30 HALLIBURTON	K, RESUM STING IN THROUG HYD. & TE 250# FOR MIN., OK, I, SDON.	IE DISPLAC TO PKR., R IH TBG. HAI C LINE SUR 10 MIN., 50 RU/TO TBG	ING, PUMP A TOTED HALLIBURTON NGER, LAND TBG RFACE CONNECT 000# FOR 10/MIN. S. & PUMP PLUG Operations Next.* RD WSU, C WELL OVER	TAL OF 50 I, INSTALL B. IN 26 PC TIONS, TE: OK, REM OUT OF F Report Period LEAN LOC	0 BBLS. RED. TBG. HANGE DINTS COMPE ST HYD. LINE IOVE CHECK, PKR. @ 3000#	DIESEL C ER, TORQ RESSION I TO 6000# R/U HALL FLUSH V	ONTAINING OX UE TO SPEC., E (20 PTS. @ PKR. FOR MIN., INST IBURTON TO C 1/5 BBLS. DIESE	YGEN EXTERNALLY .) ND TORU: TALL 2 WAY SG., L, ISIP 1262
TANK, SD, SWITCH F SCAVENGER, BIOCII TEST TO 5000#, OK, & BOP, NU 5M TREE CHECK IN TBG. HAN PERFORM 500# PRE 5/10/15- 1161/1156/11 Operations at Report Time SDON Daily Contacts GARY HENRICH, WE Time Log Start Time End Time 06:00 00:00	FLOW TO BLC DES & WATER FEED TEC LIN TORQUE TO GER, TEST TI LIMINARY MIT 56#, SWI, RD Job Contact LLSITE SUPE	W DOWN TAN SCAVENGER, IE & HYD. LINE SPEC., MAKE I REE SHELL TO TEST FOR 30 HALLIBURTON	K, RESUM STING IN THROUG HYD. & TE 250# FOR MIN., OK, I, SDON.	IE DISPLAC TO PKR., R IH TBG. HAI C LINE SUR 10 MIN., 50 RU/TO TBG	ING, PUMP A TOTED HALLIBURTON NGER, LAND TBG RFACE CONNECT 000# FOR 10/MIN. S. & PUMP PLUG Operations Next.* RD WSU, C WELL OVER	TAL OF 50 I, INSTALL B. IN 26 PC TIONS, TE: OK, REM OUT OF F Report Period LEAN LOC	0 BBLS. RED. TBG. HANGE DINTS COMPE ST HYD. LINE IOVE CHECK, PKR. @ 3000#	DIESEL C ER, TORQ RESSION I TO 6000# R/U HALL FLUSH V	ONTAINING OX UE TO SPEC., E (20 PTS. @ PKR. FOR MIN., INST IBURTON TO C 1/5 BBLS. DIESE	YGEN EXTERNALLY .) ND TORU: TALL 2 WAY SG., L, ISIP 1262



Daily Completion and Workover

API-UWI 30-025-42207	to all or	gal Location NW: SEC19-T19S-I	Fleid Name R32E AGI		County LEA				Well Configuration Type Vertical	
riginal KB Elevation (fl) 3,572.00	K5-Tubing Head Distance (ff)			Spud Date 11/2/2016 03:00		Rig Release Date 12/13/2016 04:00		5)	Total Depth All (TVD) (ft/d8) Original Hole - 188.0	
ob Category Primary Job Type COMPLETION INITIAL COM			Type COMPLETION	PLETION Start Date 12/13/201				End Date 1/23/2017		
o Objective										
ntractor RIES	#C 46	rev		Rig Type Complet	tion/Workover	Rig Start 12/13/			Rélesse Date 23/2017	
E Number 09612		Total AFE	+ Supp Amount (Cas	ST)	Daily Fleid Est 1 \$2,400	rotal (Cost)			Cum Fleid Est To Date (Cost) \$1,227,530	
aily Readings										
eport Start Date /23/2017					1/24/2017					
sst 24 Hours Operation Sum OL/HSM, RD WSU.		., MOVE OFF	LOC., RELEA	ASE ALL RE	ENTALS, TURN W	ELL OVER	TO DCP, FINA	L REPORT.		
perations at Report Time					Operations Next	Report Period				
aily Contacts									1000	
	Job Contact			WELLSITE SUPERVISOR			- III		Modife	
SARY HENRICH, W	ELLSITE SUP	ERVISOR	WELLSI	TE SUPER	VISOR		(575)631-	1234		
ime Log										
Start Time End Time 6:00 10:00	Dur (hr) 4.00	Activity Code	Activity				Com			
aily Pressures	4.00			-						
		Pr	essure (psl)	String			Note			
ressure Type SG				String			Note			

APPENDIX B H₂S CONTINGENCY PLAN APPROVED FOR ZIA II GAS PLANT, JULY 2016

Jared Smith (Geolex)

From: Chavez, Carl J, EMNRD < CarlJ.Chavez@state.nm.us>

Sent: Friday, February 24, 2017 7:28 AM

To: jwg@geolex.com

Cc: 'Alberto A. Gutierrez'; Jared Smith {Geolex}; Griswold, Jim, EMNRD; Brown, Maxey G,

EMNRD

Subject: RE: DCP Midstream, LP (H2S-063) "Zia Gas Plant H2S Contingency Plan-Revised" (July

2016) Sec. 19 T19S R32E Lea County, New Mexico

Julie, et al.:

Thank you for the update.

Mr. Carl J. Chavez, CHMM (#13099) New Mexico Oil Conservation Division Energy Minerals and Natural Resources Department 1220 South St Francis Drive Santa Fe, New Mexico 87505 Ph. (505) 476-3490

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"Why not prevent pollution, minimize waste to reduce operating costs, reuse or recycle, and move forward with the rest of the Nation?" (To see how, go to: http://www.emnrd.state.nm.us/OCD and see "Publications")

From: Julie W. Gutierrez [mailto:jwg@geolex.com]
Sent: Thursday, February 23, 2017 10:07 PM

To: Chavez, Carl J, EMNRD < Carl J. Chavez@state.nm.us>

Cc: 'Alberto A. Gutierrez' "aag@geolex.com">"aag@geolex.com">"ared Smith (Geolex) <jsmith@geolex.com">"jsmith@geol

Subject: DCP Midstream, LP (H2S-063) "Zia Gas Plant H2S Contingency Plan-Revised" (July 2016) Sec. 19 T19S R32E Lea

County, New Mexico

Hi Carl,

I am writing to update you concerning the status of the new AGI well (Zia AGI D #2) at the DCP Zia Gas Plant. The approved H2S was prepared in anticipation of the installation of a second AGI well at the plant. That second AGI well has been drilled, completed, and was brought into service as of February 2, 2017. The well is functioning as anticipated with no problems.

The final surface location of the well is: Section 19 T19S-R32E, 1,893' FSL and 950' FWL. The approved H2S Plan identified the proposed surface location of the

well as: Section 19 T19S-R32E, 1900' FSL, and 950' FWL (within 17' of the projected

location).

The well was drilled to a TD of 14,750', and acid gas is being injected into the Siluro-Devonian formation, as the approved H2S plan anticipated.

All other parameters of both wells remain the same as described in the Revised H2S plan approved on July 22, 2016, including injection volume, H2S concentration and, thus, ROE calculations.

Please let me know if you have any questions.

Julie

Julie W. Gutiérrez Geolex, Incorporated[®] 500 Marquette Avenue, NW Suite 1350 Albuquerque, NM 87102 505-842-8000 505-842-7380 Fax 505-235-7158 (Cell)

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H₂S Contingency Plan

Zia II Gas Plant

DCP Midstream, LP

July 2016

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Location of Plant

ZIA II GAS PLANT

DCP Midstream, LP (DCP) has constructed a new gas processing plant in southeastern New Mexico. In addition to processing gas, DCP will also operate two acid gas injection (AGI) and CO₂ sequestration wells at the gas plant which is located in Section 19, Township 19S, Range 32E in Lea County, New Mexico, approximately 35 miles west of Hobbs (Figure 1). The Plant and AGI wells are located on land leased from the Federal Bureau of Land Management (BLM) by DCP.

Physical/Mailing Address:

89 Lusk Road Lovington, NM 88260

Driving Directions from Hobbs, New Mexico to the Plant:

Take Highway 62-180 west out of Hobbs, New Mexico for approximately 34 miles to State Road 243 – turn right (north) onto Road 243. Continue on State Road 243 approximately 4.5 miles to CR 126a – Maljamar Road. Turn right (north) onto CR 126a and proceed 5.5 miles to CR 126/248 – Lusk Road; turn left onto 126/248. Continue on 126/248 approximately 1 mile to the first Lease Road on the left (south). Turn left and continue south on the Lease Road for approximately ¼ mile. Plant site will be on the left (east) side of the road.

Coordinates for Plant:

Latitude: 32.643 Longitude: -103.809

ACID GAS INJECTION WELLS

The Zia II AGI Wells (Zia AGI Wells #1 and #2) are located on the northwest corner of the Plant (see Figure 1b)

Surface Locations are:

AGI #1: 2100' FSL, 950' FWL Section 19, T19S, R32 E

Latitude: 32.64459881, Longitude: -103.8111449 (API # 30-025-42208)

AGI #2:_1900' FSL, 950' FWL, Section 19, T19S, R32E

Latitude 32.64403555, Longitude: -103.8111449 (API # 30-025-42207)

GLOSSARY OF ACRONYMS UTILIZED IN THE PLAN

ACGIH	American Conference of Governmental Industrial Hygienists					
AGI	Acid Gas Injection					
ANSI	American National Standards Institute					
API	American Petroleum Institute					
CO ₂	Carbon Dioxide					
DCS	Distributed Control System					
DOT	Department of Transportation					
ERO	Emergency Response Officer					
ESD	Emergency Shut-Down					
H_2S	Hydrogen Sulfide					
IC	Incident Commander					
ICS	Incident Command System					
ICC	Incident Command Center					
IDLH	Immediately Dangerous to Life or Health					
LEL	Lower Explosive Limit					
LEPC	Local Emergency Planning Committee					
MSDS	Materials Safety Data Sheets					
NACE	National Association of Corrosive Engineers					
NCP	National Contingency Plan					
NIIMS	National Interagency Incident Management System					
NIOSH	National Institute for Occupational Safety and Health					
NGL	Natural Gas Liquid					
NMAC	New Mexico Administrative Code					
NMED	New Mexico Environment Department					
NMOCC	New Mexico Oil Conservation Commission					
OCD	Oil Conservation Division					
OSHA	Occupational Safety and Health Administration					
PLC	Programmable Logic Controller					
PPE	Personal Protective Equipment					
PPM	Parts Per Million					
ROE	Radius of Exposure					
SCBA	Self-Contained Breathing Apparatus					
SERC	State Emergency Response Commission					
SO ₂	Sulfur Dioxide					
STEL	Short Term Exposure Limit					
TLV	Threshold Limit Value					
TWA	Time Weighted Average					

I. INTRODUCTION [NMAC 19.15.11 et. seq.][API RP-55 7.1 RP-49, RP-68]

DCP Midstream has just constructed the new Zia II Plant in order to process natural gas that will be coming into the plant from various gathering systems in the area. The Zia II Gas Plant (hereinafter the "Plant") is a natural gas processing plant which processes field gas containing hydrogen sulfide (H₂S) and handles and/or generates sulfur dioxide (SO₂). The Zia II Plant has two associated Acid Gas Injection wells (Zia II AGI #1 and Zia II AGI #2) which will be utilizing for disposal of H₂S. Thus, this Hydrogen Sulfide Contingency Plan (the "H₂S Plan" or "the Plan") is being submitted to document procedures that are to be followed in the event of an H₂S release that occurs at any location on the Plant or at the AGI Processing area where AGI #1 or #2 are located.

This plan complies with New Mexico Oil Conservation Division (OCD) Rule 11(§ 19.15.11 et. seq. NMAC). The plan and operation of the DCP Zia Plant conform to standards set forth in API RP-55 "Recommended Practice for Oil and Gas Producing and Gas Processing Plant Operations Involving Hydrogen Sulfide" as well as API RP 49 "Recommended Practice for Drilling and Well Servicing Operations Involving Hydrogen Sulfide" and API RP 68 "Oil and Gas Well Servicing and Workover Operations involving Hydrogen Sulfide", and applicable NACE standards for sour gas service and current best management practices. The Plant does not have any storage tanks in which H₂S or other gas or gas products are stored, and thus, API regulations and OCD regulations (specifically 19.15.11.12.E NMAC) relative to those types of storage are not applicable for this plant. Drilling and completion of the Zia II Plant AGI Wells was done in compliance with NMAC 19.15.11.11. The terms used in this Plan are used as defined in Title 19 Chapter 15 Part 11 of the New Mexico Administrative code (19.15.11.7-Definitions) unless otherwise defined herein. Safety precautions in the event of a release could include placement of road blocks, evacuation along designated routes or instructions to shelter-in-place. When the term "shelter-in-place" is used in this Plan, it means that individuals should go inside homes, businesses, etc., turn off heating and air conditioning systems, close windows and doors and put towels or tape around doors and/or windows that are not sealed and wait for further instruction.

II. SCOPE [API RP-55 7.2]

This Plan is specific to the Zia II Gas Processing Plant and AGI Wells. It contains procedures to provide an organized response to an unplanned release of H₂S from the Plant or the AGI Wells contained within the Plant and documents procedures that would be followed to alert and protect any members of the public, residents in surrounding areas and/or contractors working on or around the plant in the event of an unplanned release. This H₂S Contingency Plan has been prepared to minimize the hazard resulting from an H₂S release. It will be used to inform company personnel, local emergency responders and the public of actions to be taken before, during and after an H₂S release. All operations shall be performed with safety as the primary goal. The primary concern of the Zia II Gas Plant, during an H₂S release, is to protect company employees, contractors and the public; the secondary concern is to minimize the damage and other adverse effects of the emergency. In the event of a release, any part of the Plant operation that might compromise the safety of individuals will cease until the operation can be re-evaluated and the proper engineering controls to assure safety can be implemented. No individual should place the protection of the Plant property above his or her own personal safety.

It must be kept in mind that in a serious situation involving an H₂S release, not only Zia II personnel are involved, but local Fire Departments, Law Enforcement, BLM, County and even State of New Mexico agencies may be interested parties. Cooperation will expedite all decisions. In any emergency situation

involving a H₂S release, delegation of duties will be made to appropriate employees and groups. These duties will be reviewed on an annual basis to ensure complete understanding and facilitate a well-coordinated response by all involved personnel to the emergency situation.

III. PLAN AVAILABILITY [API RP-55 7.3]

The H_2S Plan shall be available to all personnel responsible for implementation, regardless of their normal location assignment. A copy of the Plan will be maintained at the Zia II Plant Control Room, in the Plant Supervisor's office at the plant, in the Asset Manager's office at the Hobbs office, and at the Permian Region Safety Manager's office in Midland, Texas. See Appendix E for the H_2S Plan Distribution List, which lists all the additional entities that will be provided a copy of the H_2S Plan.

IV. EMERGENCY PROCEDURES [NMAC 19.15.11.9.B(2)(a)] [API RP-55 7.4 a] [29 CFR 1910.1200]

RESPONSIBILITIES AND DUTIES OF PERSONNEL DURING AN EMERGENCY

It is the responsibility of all personnel on-site to follow the safety and emergency procedures outlined in this H_2S Contingency Plan as well as the following documents:

- DCP Midstream Safe Work Practices
- DCP Midstream Zia II Plant Emergency Response Plan, Groundwater Discharge Plan, and Oil Spill Contingency Plan; and
- DCP Midstream Environmental Policies and Programs.

The Plant uses the Incident Command System (ICS) for emergency response (see Figure 7 for a diagram of the DCP command structure). The ICS structure used is based on the National Interagency Incident Management System (NIIMS), and is consistent with the National Contingency Plan (NCP). All Plant employees shall be prepared to respond to an H₂S emergency at the Plant and the AGI Wells. In the event of an accidental release that results in the activation of the H₂S Plan all personnel will have been evacuated out of the affected area, and the Plant Supervisor, or designee, will be the on-scene Incident Commander (IC in this Plan). The IC will contact and coordinate with DCP Midstream's management.

The Plant Supervisor or his designee shall determine:

- 1) Plant Shutdowns
- 2) Isolation of pipeline segments
- 3) Repairs, tests or restarts as required

If an emergency occurs, the Plant Supervisor, or designee, shall be notified first, and that individual shall notify the Southeast New Mexico Asset Director who will notify the Regional Operations Vice President; the Regional Operations Vice President shall contact the Permian Business Unit President to activate the DCP Midstream Crisis Management Plan. If any person in this chain of command is unavailable, the DCP Midstream employee shall elevate the communication to the next level. The intention of this process is to allow the IC to make one phone call and then be able to focus on the incident response.

Site Security [NMAC 19.15.11.12.B]

In order to have an accurate listing of all personnel on-site in the event of an emergency, a daily sign-in log sheet shall be utilized. The sign-in log sheet shall include at a minimum the person's name, the company name, the time of arrival, and the time of departure. All personnel are required to sign in at the Plant Office/Control Room. The Incident Commander shall be responsible for assuring that all personnel sign-in upon arrival and sign-out upon departure from the job site. The Incident Commander may, at his discretion, assign the responsibilities for the daily sign-in log sheet to the individual designated as the Record Keeper or another designee. At the discretion of the Incident Commander, a security coordinator and/or a security team may be established, and the access to the job site restricted. In compliance with 19.15.11.12.B NMAC the Plant and AGI Wells are contained within a secure fenced area with locking gates.

Discovery and Internal Reporting

All personnel, including contractors who perform operations, maintenance and/or repair work in sour gas areas within the Plant wear personal H₂S monitoring devices to assist them in detecting the presence of unsafe levels of H₂S. When any person, while performing such work, discovers a leak or emission release they are to attempt to resolve the issue as long as H₂S levels remain below 10 ppm. The personal monitoring devices they wear will give off an audible alarm at 10 ppm. If the response action needed to resolve the issue is more than simply closing a valve or stopping a small leak, the personnel who have discovered the leak shall notify the Plant Supervisor or his designee, initiate and maintain a Chronologic Record of Events Log (See Appendix F) which records the time, date and summary of events, and convey, at a minimum, the following information:

- Name, telephone number, and location of person reporting the situation
- Type and severity of the emergency
- Location of the emergency and the distance to surrounding equipment and/or structures
- The cause of the spill or leak, name and quantity of material released, and extent of the affected area including the degree of environmental hazard
- Description of injuries and report of damage to property and structures

If any person detects H₂S levels of 10 ppm or greater, either as a result of an alarm from their personal monitoring device or one of the plant fixed monitors, they will immediately report this to the Control Room Operator who will contact the Plant Supervisor for assistance, and the responding Operator will put on the 30-minute Self Contained Breathing Apparatus (SCBA). All non-essential persons shall be notified of the release and evacuated from the area. The responding Operator, wearing the SCBA, will first help any persons requiring assistance during the evacuation, then attempt to resolve the issue. The Control Room Operator is responsible for notifying the Plant Supervisor or his designee so that the H₂S Contingency Plan can be activated, if necessary.

Once the Plant Supervisor/IC is contacted, he or his designee is to contact the appropriate DCP management and Plant emergency response personnel and notify them of the existing situation. Local emergency response providers will also be contacted as deemed necessary by the IC. If necessary, the Control Room Operator will then conduct the notifications of federal and state regulatory agencies including the BLM Field Office in Carlsbad, the NMOCD District Office and emergency response agencies listed in Appendix C. DCP operations personnel are to advise any contractor and all others onsite or attempting to enter the Plant that the H₂S Plan has been activated.

IMMEDIATE ACTION PLAN

Immediate Action Plans outlining procedures and decision processes to be used in the event of an H_2S release are contained in Appendix A. These procedures and decision processes have been designed to ensure a coordinated, efficient and immediate action plan for alerting and protecting operating personnel and the public as well as to prevent or minimize environmental hazards and damage to property. Emergency response actions may be taken for a variety of situations that may occur. The Plan is activated in progressive levels (Levels 1, 2 and 3), based on the concentration and duration of the H_2S release. Response Flow Diagrams illustrating these Immediate Action Plans are contained in Appendix B.

Zia II Plant Operators are authorized to elevate the level of response based on observed conditions if they feel a lower level response may not be effective in protecting personnel, the public, or the environment. Additional or long-term response actions will be determined on a case-by-case basis, if needed, once the Incident Command Center (ICC) and System (ICS) are established following the immediate response.

TELEPHONE NUMBERS, COMMUNICATION METHODS AND MEDIA SITE

Telephone Numbers and Communication Methods

In the event of activation of the Plan, emergency responders, public agencies, local government, BLM and other appropriate public authorities must be contacted. Telephone contact information for those entities in included in Appendix C.

Media Site

If a Level 2 Response occurs, the Media Site will be located adjacent to Emergency Assembly Area 2 (see Figure 4). If a Level 3 Response occurs, the Media Site will be located adjacent to Emergency Assembly Area 3 (see Figure 4). The IC will designate a Media Site adjacent to the Emergency Assembly Area. The IC will also designate an individual to assume the duties of Media Liaison Officer. Under no circumstances will media personnel be allowed inside the warm or hot zone (road blocked area). Media personnel will only be allowed inside the road blocked area once the area has been monitored and restored to a cold zone (less than 10 ppm H₂S) and the IC has approved their entry. Media personnel shall not be allowed to enter DCP Midstream property without the approval of the DCP Midstream Asset Manager or his designee, and shall be escorted by DCP Midstream personnel at all times.

LOCATION OF NEARBY RESIDENCES, ROADS AND MEDICAL FACILITIES

Public awareness and communication is a primary function of this Plan. DCP has compiled a list of various public, private, federal, state, and local contacts that are to be notified at various phases during the activation of the Plan. The Level 1, 2 and 3 Immediate Action Plans and the Response Flow diagrams contained in Appendices A and B indicate when certain entities are to be contacted in event of activation of this Plan. There are no businesses, residences, medical facilities or other public places located within the 500 or 100 ppm ROE of the Plant; only producers are located within the ROE. Appendix C contains a listing of all producers with wells within the 500 ppm and 100 ppm ROE who will be contacted in the event of activation of the H₂S Plan. DCP will inform all state and local response organizations if the H₂S Plan is activated; contact information for them is also contained in Appendix C. All entities contacted will be advised of the following:

- The nature and extent of the release/emergency at the Plant and recommendations for protective actions, such as evacuation or shelter-in-place.
- Any other event-specific information that is necessary to protect the public.

• Updated status of the release and continued safety measures to be taken, including but not limited to when to evacuate and/or when it is safe to return to the area.

Public Roads

There are three public roads located within the 500 ppm ROE: Lusk Plant Road (CR 248), Dry Lake Road (CR 126) and Maljamar Road (CR 126a). All three of these roads also have sections within the 100 ppm ROE. There are emergency trailers, equipped with flashing lights, windsocks, and roadblock signs for use in alerting the public of hazardous conditions on any of these three roads. In the event of activation of this Plan, Zia personnel will be dispatched to establish roadblocks on these roads to prevent entrance into the 500 and/or 100 ppm ROE, depending on the response level and as designated by the IC (see Figure 4). Roadblocks will be established at the designated locations regardless of wind direction in anticipation that variations in wind conditions can occur. Signs warning of the potential presence of H₂S have been installed where the 500 and 100 ppm ROEs of the Plant intersect the above referenced public roads. (See Figure 4 for the location of these signs, and see Figure 8 for a photograph of one of these signs).

Businesses or Other Public Areas

The Plant and AGI wells are located on land leased from the Federal Bureau of Land Management (BLM) by DCP, however, there are no businesses or other public areas within the 500 ppm or 100 ppm ROE. The DCP Lusk Booster Station (just north of the Zia II Plant) is located within the 500 ppm ROE but was closed and abandoned when the new Zia II Plant was brought on-line. The original Zia Plant is also located inside the 500 ppm ROE, but it has been closed and abandoned for a number of years.

In addition to notifying operators (listed in Appendix C) DCP personnel, as designated by the IC, will make a visual inspection of the ROE area to insure that no individuals are seen inside the ROE. If any are observed, they will be advised to evacuate immediately to the designated Emergency Evacuation Area described above (see Figure 4).

Medical Facilities

There are no medical facilities located within the ROE.

EVACUATION ROUTES, EMERGENCY ASSEMBLY AREAS AND ROAD BLOCK LOCATIONS

Evacuation Routes and Emergency Assembly Areas

Figure 1b shows the Plant plot plan and schematic of the Plant and location of the AGI Wells, and Figure 2e shows internal plant evacuation routes. Figure 4 shows the locations of Emergency Assembly Areas and recommended evacuation routes. Evacuation for all visitors and all personnel that are not operators begins at the 10 ppm H₂S intermittent alarm and flashing yellow beacons. The responding Plant operator(s) are to put on the 30-minute SCBA and first determine if any personnel are in distress and assist any distressed personnel to evacuate to Emergency Assembly Area 1. Emergency services (911) will be contacted if there are injuries or as otherwise deemed necessary. Responding operators, wearing the SCBAs, will then investigate the cause of the release. At the sound of the alarm and flashing yellow beacons, all other personnel in the Plant are to stop work, check the prevailing wind direction (using visible windsocks) and immediately proceed along designated evacuation routes and/or upwind to the predesignated Emergency Assembly Areas shown in Figure 4. Prevailing winds for the area are from the southwest. Personnel should evacuate along the designated route unless that route is downwind of the release (based on the wind directions observed at the windsocks); in that event all evacuees should

proceed along a route that is perpendicular to the release and then upwind to the designated Emergency Assembly Area.

Roll call shall be conducted at the Emergency Assembly Area to ensure all personnel (including contractors and visitors) are accounted for and have evacuated safely. The Zia II Plant is a Process Safety Management (PSM) facility and requires all personnel to check-in and sign-in at the Plant Office or Plant Control Room before entering the Plant. The sign-in sheet will be used at the Emergency Assembly Areas to make a full accounting of all personnel and visitors.

At each Emergency Assembly Area, the ambient air quality will be monitored for H_2S concentration to ensure the area remains at less than 10 ppm. If the H_2S concentration rises to 10 ppm or greater, the assembly area will be relocated as detailed in the immediate action plan section of this document (see Appendix A).

Road Block Locations

Pre-planned road block locations (which would be utilized in the event of a Level 2 or Level 3 response) are shown on the ROE Map (Figure 4). Each location will have portable road barriers and flashing lights and warning signs. The IC will designate representatives to staff each of the roadblocks. If deemed necessary by the IC, the State or Local Police will be asked to assist with maintaining the roadblocks.

MONITORING EQUIPMENT, ALARM SYSTEMS, SAFETY EQUIPMENT AND SUPPLIES

Emergency Shutdown Systems [NMAC 19.15.11.12.D(1)]

DCP Midstream has installed an emergency shutdown (ESD) system at the Zia II Plant and AGI Wells. The ESD system is a fail-safe hardwired system that provides logic solving via a Foxboro Ticonex Safety System. Twenty ESD manual pull stations are placed throughout the Plant. Operators in consultation with the IC will determine if an H₂S release situation warrants ESD of the plant. When activated the ESD System is designed to perform the following actions through the use of a hardwired interface:

- Close all hydrocarbon inlet and outlet valves to and from the Plant and AGI Wells.
- Initiate a distinct alarm and/or light which is separate from the general plant alarm.
- Shut off fuel at all individual fuel users.
- Isolate NGL storage tanks and NGL product pumps.
- Shut down all electric motors (with exceptions such as lube oil pumps, flare blowers, instrument air compressors, etc.).
- Shut down rotating equipment (engine-driven equipment, expander/compressors, pumps, etc.)
- Isolate fuel to engine-driven equipment.

The locations of the ESD buttons and Isolation Valves are shown in Figures 2a and 3. The ESD systems are designed to prevent a Level 3 response. Block valves on incoming lines can be closed where they enter the Plant perimeter (see Figure 3). Additional isolating block valves outside the Plant perimeter on the incoming lines can be closed to prevent further gas flow into the Plant. The block valves furthest upstream can isolate the entire system from the field gathering lines coming into the Plant. At the discretion of the IC, operations personnel may be designated to close valves at field locations on inlet gas pipelines to insure that incoming gas is shut off.

AGI compressors will be shut-down if two or more of the H₂S sensors located in the fenced AGI Well area go into high alarm (90 ppm). When AGI compressors are shut-down isolation valves upstream and downstream of the units will close as well as those located on the wellhead.

The Plant ESD can be activated at any time by the Zia II Plant Operators and is to be activated if efforts to control the release have failed or if a catastrophic release has occurred.

ALARMS, VISIBLE BEACONS AND WIND INDICATORS

Colored beacons, horns, and wind direction indicators and ESD stations are situated in various locations throughout the Plant and are shown on Figures 2, 2a and 2b and 3. The audible signal for an emergency response is an intermittent alarm that sounds at 10 ppm H₂S. Flashing yellow beacons are also activated at 10 ppm H₂S. The alarm will become continuous when the concentration of the H₂S release is 90 ppm or higher, and evacuation of the Plant will be initiated. As per 19.15.11.12.C, wind direction indicators which are visible night and day are installed throughout the Plant as shown in Figure 2b. At least one wind direction indicator can be seen from any location within the Plant as well as from any point on the perimeter of the Plant.

SIGNS AND MARKERS [NMSA 19.15.11.10]

The Plant and AGI Wells (which are contained totally within the Plant boundaries) have readily readable warning, caution and notice signs which conform to the current ANSI standard Z535.1-2002 (Safety Color Code). These signs contain language warnings about the presence of H₂S/Poisonous Gas and high pressure gas; they are posted at the Plant entrance and around the perimeter of the Plant and where isolation/block valves are located (see Figure 3). The signs are of sufficient size to be readable at a distance of 50 feet and contain the words "Caution Poison Gas". Emergency response phone numbers are also posted at the entrance to the Plant, and there are signs at the Plant entrance requiring that all visitors sign-in at the Plant office. DCP does not have the authority to require individual operators who send gas to the Plant for processing to conform to OCD and/or Department of Transportation (DOT) regulations relative to placement of warning signs at individual wells or on gathering lines. It is the responsibility of these individual operators to conform to appropriate regulations and to certify compliance with those regulations to those regulating agencies, as required. Signs warning of the potential presence of H₂S have been installed where the 500 and 100 ppm ROEs of the Plant intersects the above referenced public roads. (See Figure 4 for the location of these signs, and see Figure 8 for a photograph of one of these signs).

EMERGENCY EQUIPMENT

Emergency Trailers

Emergency trailers, equipped with flashing lights and windsocks will be utilized at public road locations to establish roadblocks (as shown in Figure 4) to alert the public in the event of hazardous conditions.

First Aid Equipment

The first aid stations are located at the all Emergency Assembly Area (see Figure 4) and at other strategic locations throughout the plant.

GAS DETECTION EQUIPMENT

Fixed Monitors

DCP Midstream has installed 65 ambient hydrogen sulfide detectors strategically throughout the Plant to detect possible leaks. Upon detection of hydrogen sulfide at 10 ppm at any detector, visible beacons are activated and an alarm is sounded. Upon detection of hydrogen sulfide at 90 ppm at any detector, an evacuation alarm is sounded throughout the Plant at which time all personnel will proceed immediately to a designated evacuation area. The Plant utilizes fixed-point monitors to detect the presence of H₂S in ambient air. The sensors are connected to the Control Room alarm panel's Programmable Logic

Controllers (PLCs), and then to the Zia II Distributed Control System (DCS). The monitors are equipped with a yellow flashing beacon. The yellow flashing beacon is activated at 10 ppm. The plant and AGI Well horns are activated with an intermittent alarm at 10 ppm and a continuous alarm at 90 ppm.

The Plant operators are able to monitor the ppm level of H₂S of all the Plant and AGI Well sensors on the DCS located in the control room. The AGI system monitors can also be viewed on the PLC displays located at the Plant. These sensors are all shown on the plot plans (see Figure 2). All sensors must be acknowledged and will not clear themselves. This requires immediate action for any occurrence or malfunction. All H₂S sensors are calibrated quarterly.

Personal and Handheld H₂S Monitors

All personnel working at the Zia II Plant wear personal H_2S monitors. The personal monitors are set to alarm and vibrate at 10 ppm. Handheld gas detection monitors are available at strategic locations around the Plant so that plant personnel can check specific areas and equipment prior to initiating maintenance or work on the process or equipment. The handheld gas detectors have sensors for oxygen, LEL (explosive hydrocarbon atmospheres), H_2S and carbon dioxide (CO_2).

RESPIRATORS

There are 30 minute SCBA respirators and cascade hose reel systems strategically located throughout the Plant. The cascade hose reel systems have 2-4 compressed air cylinders hooked up in series to provide a sustained supply of breathing air for extended work time in a hazardous atmosphere. Each cylinder will supply a person 6-8 hours of breathing air at normal workloads or 3 hours at medium/heavy workloads. Several hose reels and masks may be attached to a cascade system. The system is equipped with a low pressure alarm to allow workers to safely exit the hazardous area with plenty of reserve air capacity. The respirator containers and equipment locations are shown in Figure 2c. All Plant personnel are trained and fit tested annually to use the SCBA respirators.

PROCESS PURGE SYSTEM

All vessels, pumps, compression equipment, and piping in the acid gas injection process are designed and equipped to allow purging with pipeline quality gas to remove the acid gas prior to conducting maintenance or inspection work. The purge gas stream with residual acid gas is routed safely into the acid gas flares located at the plant. Operating procedures include this purging of all equipment to avoid acid gas exposure to personnel and to prevent acid gas from escaping to the environment.

FIRE FIGHTING EQUIPMENT

Plant personnel are trained only for incipient stage fire-fighting. The fire extinguishers located in the Plant process areas, compressor buildings, process buildings, and company vehicles are typically a 30# dry chemical fire extinguisher. The Zia II Plant is also equipped with portable fire extinguishers that may be used in an emergency, and air packs which can be utilized for escape or rescue located throughout the plant in key locations.

V. CHARACTERISTICS OF HYDROGEN SULFIDE (H₂S), SULFUR DIOXIDE (SO₂) CARBON DIOXIDE (CO₂) [NMAC 19.15.11.9.B(2)(b)] [API RP-55 7.4 b.]

HYDROGEN SULFIDE (H₂S)

The current inlet gas streams into the Plant contain approximately 1.0 ppm (or 0.9992 mole percent) of H₂S based on data generated from the sampling of the combined inlet gas stream. The current inlet to the AGI pipeline, and injection well contains 14.2853 mole percent H₂S. H₂S is a colorless, toxic and flammable gas, and has the odor of rotten eggs. It is heavier than air and presents a significant health hazard by paralyzing the respiratory system resulting in serious injury or death.

Н	lydrogen S	ulfide	e Properties and Characteristics		
CAS No.			7783-06-4		
Molecular Formula			H ₂ S		
Molecular Weight			34.082 g/mol		
Ceiling Concentration			20 ppm (OSHA)		
Ceiling Peak Concentration			50 ppm (OSHA)		
Threshold Limit Value (TLV)			15 ppm (ACGIH)		
Time Weighted Average (TWA)			10 ppm (NIOSH)		
Short Term Exposure Level (ST)	EL)		15 ppm (ACGIH)		
Immediately Dangerous to Life of		LH)	100 ppm		
Specific Gravity Relative to Air	(Air=1.0)		1.189		
Boiling Point			-76.5F		
Freezing Point			-121.8F		
Vapor Pressure			396 psia		
Auto-ignition Temperature			518F		
Lower Flammability Limit			4.3%		
Upper Flammability Limit			46.0%		
Stability			Stable		
pH in water			3		
Corrosivity			Reacts with metals, plastics, tissues and nerves		
·			ts of Hydrogen Sulfide		
Concentratio		1	Physical Effects		
Ppm	%				
1	0.00010		n be smelled (rotten egg odor)		
10	0.0010		vious & unpleasant odor; Permissible exposure level; safe for		
	0.00		our exposure		
20	0.0020	Acc	eptable ceiling concentration		
15	.005	Shor	rt Term Exposure Limit (STEL); Safe for 15 minutes of		
		expo	osure without respirator		
50	0.0050		ss of sense of smell in 15 minutes		
100 0.0100 Imm			mediately dangerous to life and health (IDLH) loss of sense		
			smell in 3-15 minutes; stinging in eyes & throat; Altered		
			athing		
200	0.0200		s smell rapidly; stinging in eyes & throat		
500	0.0500		ziness; Unconscious after short exposure; Need artificial		
			iration		
700	0.0700		onscious quickly; death will result if not rescued promptly		
1000	0.1000	Insta	ant unconsciousness; followed by death within minutes		

SULFUR DIOXIDE (SO₂)

 SO_2 is produced as a by-product of H_2S combustion. The waste gas stream consisting of H_2S and CO_2 is routed to the plant acid gas flare during abnormal conditions when the acid gas injection equipment is out of service. Waste gas is routed to the acid gas flare at the AGI Well sites during maintenance operations when equipment needs to be blown down. It is colorless, transparent, and is non-flammable, with a pungent odor associated with burning sulfur. SO_2 is heavier than air, but can be picked up by a breeze and carried downwind at elevated temperatures. It can be extremely irritating to the eyes and mucous membranes of the upper respiratory tract.

Sulfur Dioxide Properties & Characteristics						
CAS No.		7446-09-5				
Molecular Formula		SO ₂				
Molecular Weight		64.07 g/mol				
Permissible Exposure Limit (PEL)		5 ppm(OSHA)				
Time Weighted Average (TWA)		2 ppm(ACGIH)				
Short Term Exposure Level (STEL)		5 ppm(ACGIH)				
Immediately Dangerous to Life and	Health (IDLH)	100 ppm				
Specific Gravity Relative to Air (Air	r = 1.0)	2.26				
Boiling Point		14°F				
Freezing Point		-103.9°F				
Vapor Pressure		49.1 psia				
Auto-ignition Temperature		N/A				
Lower Flammability Limit		N/A				
Upper Flammability Limit		N/A				
Stability		Stable				
Corrosivity		Could form an acid rain in aqueous solutions				
P	hysical Effects of					
Concentration		Effect				
1 ppm		nay cause respiratory changes				
2 ppm		osure limit; Safe for an 8 hour exposure				
3-5 ppm	Pungent odor; n	normally a person can detect SO ₂ in this range				
5 ppm	Short Term Exposure Limit (STEL); Safe for 15 minutes of					
	exposure					
12 ppm Throat irritatio		n, coughing, chest constriction, eyes tear and burn				
100 ppm	Immediately Da	ely Dangerous To Life & Health (IDLH)				
150 ppm	So irritating that	t it can only be endured for a few minutes				
500 ppm	Causes a sense of	of suffocation, even with first breath				
1,000 ppm	Death may result	It unless rescued promptly.				

CARBON DIOXIDE (CO₂)

The projected inlet gas streams to the Plant contain approximately 6% CO₂. The inlet to the AG pipeline and injection well is projected to contain approximately 85.7 mole percent of CO₂. CO₂ is a colorless, odorless and non-flammable. It is heavier than air.

	Carbon Dioxide Properties	& Characteristics			
CAS No.		124-38-9			
Molecular Formula		CO_2			
Molecular Weight		44.010 g/mol			
Time Weighted Average (TWA)		5,000 ppm			
Short Term Exposure Level (ST)	EL)	30,000 ppm			
Immediately Dangerous to Life a	and Health (IDLH)	40,000 ppm			
Specific Gravity Relative to Air	(Air = 1.0)	1.5197			
Boiling Point		-109.12°F			
Freezing Point		-69.81°F			
Vapor Pressure		830 psia			
Auto-ignition Temperature		N/A			
Lower Flammability Limit		N/A			
Upper Flammability Limit		N/A			
Stability		Stable			
pH in Saturated Solution		3.7			
Corrosivity		Dry gas is relatively inert & not corrosive; can be corrosive to mild steels in aqueous solutions			
	Physical Effects of Car	bon Dioxide			
Concentration		Effect			
1.0 %	Breathing rate increases sli	ghtly			
2.0 %	_	50% above normal level. Prolonged exposure can			
	cause headache, tiredness				
3.0 %	_	twice normal rate and becomes labored. Weak			
		earing, headache, increased blood pressure and			
	pulse rate				
4 – 5 %		roximately four times normal rate, symptoms of			
	intoxication become evident, and slight choking may be felt				
5 – 10 %		noticeable. Very labored breathing, headache,			
	-	ging in the ears. Judgment may be impaired,			
	followed within minutes by				
10 – 100 %		ore rapidly above 10% level. Prolonged exposure			
	to high concentrations may	eventually result in death from asphyxiation			

VI. RADII OF EXPOSURE [NMAC 19.15.11.7. K]

WORST CASE SCENARIOS: See Appendix D for actual ROE calculations. The basis for worst case scenario calculations is as follows:

- The worst case ROE for this Plan has been calculated utilizing the maximum inlet and TAG flow rates (24-hour rate) contained in the permit issued by OCD for this Plant which is 200 MMCFD. The ROE calculation in this Plan utilizes that inlet flow rate and an H₂S concentration for inlet gas of .9992 mole percent. Based on this inlet flow analysis, the calculated TAG flow rate from the amine unit to the AGI well is 13.9892 MMCFD with an H₂S concentration of 14.2853 mole percent. Although the H₂S concentration is lower in the inlet gas than in the TAG stream, the flow rate is much higher for the inlet gas than for the TAG stream. The calculated ROE's for the inlet gas and TAG streams are identical as shown in the calculations in Appendix D.
- The worst case scenario ROE assumes an uncontrolled instantaneous release of a 24-hour volume of gas at the Plant. Because the Plant is a throughput process plant, it is impossible that the entire 24 hour-throughput volume of the Plant could be released instantaneously as is assumed in the worst case scenario calculations of the ROE. Further, the Plant's ESD systems would be activated in the event of a catastrophic emergency and would prevent the flow of gas into the Plant and would isolate the AGI compressors and equipment and route the acid gas safely to the Plant acid gas flare. To comply with NMAC 19.15.11, the worst case scenario calculations (assuming an instantaneous release of the 24-hour processing and/or TAG volume) are utilized here (see Appendix C for actual calculations).

The formulas for calculating the radius of exposure (ROE) are as follows:

100 ppm ROE Calculation (as per 19 NMAC 15.11.7.K.1):

X=[(1.589)(hydrogen sulfide concentration)(Q)](0.6258)

500 ppm ROE Calculation (as per 19 NMAC 15.11.7.K.2):

X=[(0.4546)(hydrogen sulfide concentration)(Q)](0.6258)

Where:

X = radius of exposure in feet

"hydrogen sulfide concentration" = the decimal equivalent of the mole or volume fraction of hydrogen sulfide in the gaseous mixture

Q = Escape rate expressed in cubic feet per day (corrected for standard conditions of 14.73 psi absolute and 60 degrees Fahrenheit)

ROE FOR ZIA II PLANT WORST CASE SCENARIO

500-ppm ROE 5,354 feet (1.01 miles) 100-ppm ROE 11,717 feet (2.22 miles)

The ROE for the Plant and AGI Wells are shown on Figure 4. This ROE pattern is designed to include the 100 ppm and 500 ppm radii for a potential worst case failure at any point in the system.

VII. FACILITY DESCRIPTION, MAPS AND DRAWINGS [NMAC 19.15.11.9.B (2)(c)] [API RP-55 7.4 c.]

DESCRIPTION OF PLANT OPERATIONS AND ZIA #1 AND #2 AGI WELLS

The Plant and AGI Wells are in operation and are manned 24-hours-a-day, 7-days-a week. The Plant operations include gas compression, treating and processing. The Plant gathers and processes produced natural gas from Lea and Eddy Counties in New Mexico. Once gathered at the Plant, the produced natural gas is compressed, dehydrated to remove the water content and processed to remove and recover natural liquids. The processed natural gas and recovered natural gas liquids are then sold and shipped to various customers. The inlet gathering lines and pipelines that bring gas into the plant are regulated by DOT, NACE other applicable standards which require that they be constructed and marked with appropriate warning signs along their respective right-of-ways.

Because the natural gas that is gathered and processed at the Plant contains H₂S ("sour gas"), it must be treated or processed to remove these and other impurities. The CO₂ and H₂S stream that is removed from the natural gas in the amine treating process is compressed to approximately 1,500 – 2,644 psi. This is accomplished using electric driven, reciprocating compressors. Water vapor contained in the gas stream is removed during compression and cooling and is disposed of through a wastewater disposal system. The compressed acid gas is transported via an overhead stainless stainless-steel, corrosion-resistant, NACE-compliant pipe, approximately 1,050 feet in length, from the compressor to the AGI Wells. AGI #1 injects into the lower Cherry Canyon (5,470 to 5,670 feet) and upper Brushy Canyon (5,670 to 6,070 feet) Formations. AGI #2 will inject into the Siluro-Devonian between 13,700 and 14,650 feet. The pipe between the compressors and the AGI Wells is contained totally within the boundaries of the Plant and does not cross any public roads. H₂S sensors are located at critical junctions along the pipe which is run on an overhead pipe rack. The pressure in the pipe is monitored continuously so that the acid gas injection process could be stopped should there be any unusual variations in pressure.

The AGI Wells are integral components of the Zia Gas Plant design. Both of the wells are constructed using the materials shown in Figures 5a and 5b. The overall schematic of the AGI wells is shown in Figure 6. The intermediate casing of each well extends to 4,600 feet to assure the protection of the Capitan Aquifer and the Upper Delaware Group. Each string of the telescoping casing is cemented to the surface and includes the "downhole" subsurface safety valves (SSVs) which are located approximately 250 feet below the surface on the production tubing to assure that fluid cannot flow back out of the well in the event of a failure of the injection equipment. In addition, the annular space between the production tubing and the well bore are filled with diesel fuel (an inert fluid) as a further safety measure which is consistent with injection well designs that have been approved by NMOCD for acid gas injection.

Per National Association of Corrosion Engineers (NACE) specifications, downhole components including the SSV and packer are constructed of Inconel 925. Corrosion Resistant Alloy (CRA) joints are constructed of a similar nickel alloy manufactured by Sumitomo. The gates, bonnets and valve stems within the Christmas tree are nickel coated as well. The rest of the Christmas tree is made of standard carbon steel components and outfitted with annular pressure gauges that remotely reports operating pressure conditions in real time to a gas control center. Pursuant to NMAC 19.15.11.12.D(2), in the case of abnormal pressures or any other situation requiring immediate action, the acid gas injection process can be stopped at the compressor, and the wellhead can be shut in using a hydraulically operated wing valve on the Christmas tree. The Plant operator or IC may also shut the SSV. In addition, the well has profile nipples which provide the ability to insert a blanking plug into the base of the well below the packer which would allow for the safe reentry of the well. These safety devices provide for downhole

accessibility and reentry under pressure for permanent well control. The SSV provides a redundant safety feature to shut in the wells in case the wing valves do not close properly (see Figures 5 and 6).

MAPS AND FIGURES

Figures 1 and 1a show the location of the Zia II Plant as well as AGI #1 and #2. Figure 1b shows the plot plan of the Plant. Figure 2, 2a, 2b, 2c and 2d show the locations of safety equipment at the plant. Figure 4 shows the 100 and 500 ppm ROE, escape routes, roadblock locations and emergency assembly areas. The design schematic of the AGI Wells is shown in Figures 5, and the schematic of the AGI Wells' tie-in to the Zia Plant is shown in Figure 6.

VIII. TRAINING AND DRILLS [NMAC 19.15.11.9.B(2)(d)] [API RP-55 7.4 d.]

DCP will conduct annual training for its own personnel as well as for the public and emergency responders, as detailed below. Training will include:

- Characteristics of H₂S and safety precautions
- An overview of the Zia II Plant and AGI operations
- A review of their roles in responding to activation of the Zia II H₂S Contingency Plan
- Location of the Radii of Exposure and how to protect the public within the Radii of Exposure
- Potential roadblock locations, potential evacuation routes, and how they can assist in implementing the Plan.

TRAINING OF ESSENTIAL PERSONNEL

Annual training for DCP personnel shall include plant operators, mechanics, instrument and electrical technicians, and maintenance support personnel. Plant Operators will be responsible for initiating and implementing the Plan. In addition, all Plant personnel will receive:

- Annual training on the H₂S Contingency Plan. This training will include a review of all aspects of the Plan and will include, at a minimum, one table top drill involving activation of the H₂S Contingency Plan.
- Plant Orientation Training All Plant personnel, visitors, and contractors must attend a Plant
 overview orientation prior to obtaining permission to enter the Plant. A refresher course on this
 training is required annually for all persons. Included as part of this orientation is how to respond and
 evacuate safely in the event of a H₂S alarm or release. This training also complies with the
 requirements of the DCP and Zia II Plant's Process Safety Management Program and Procedures
 Manuals.
- All Plant personnel are also trained annually on the Zia II Emergency Response Plan.
- H₂S and SO₂ Training All Plant personnel receive annual refresher training on H₂S and SO₂, which is conducted by DCP personnel. If an individual is unable to attend, they may be required to attend a third party training session. All contract employees are required to have had H₂S training and to provide the Plant a copy of their certification card prior to obtaining permission to enter the Plant.
- Respirators All Plant personnel are trained annually on the proper use of respirators. In addition to the annual training, all Plant personnel are fit tested annually on the respirators. All Plant personnel must have medical clearance for respirator use.
- Hazard Communication All Plant personnel are trained annually on Hazard Communication. The annual training includes, at a minimum, the use of material safety data sheets (MSDS) for those materials that are present at the Plant.

• Personal Protective Equipment (PPE) - All Plant personnel are trained annually on the DCP requirements for PPE. The training includes, at a minimum, a review of all the types and levels of personal protective equipment and how to select the correct equipment for the job.

ON-SITE OR CLASSROOM EMERGENCY RESPONSE DRILLS

- The Plant will conduct, at least, a tabletop drill annually. Multiple drills during the year may be scheduled at the discretion of the Plant Supervisor.
- The annual drill will execute this Plan and include, at a minimum, the Public Officials and Local Emergency Response Agencies listed below.
- Annual training a will also include making contact with the entities including any that are identified
 as being within the 500 ppm and 100 ppm ROE (see Appendix C) to make sure contact information
 for them in Appendix C is current. Appendix C will be verified and updated annually by DCP to be
 sure any changes of occupancy, ownership or new commercial and/or residential buildings are
 reflected, and all owners/occupants receive training on protective measures.
- The drills will also include briefing of public officials on issues such as evacuation or shelter-in-place plans.

NOTIFICATION AND TRAINING OF PRODUCERS LOCATED WITHIN THE ROE

DCP Midstream will provide annual training to the producers listed in Appendix C that includes:

- An overview of the Zia II Plant and AGI operations
- Design and operating safety features on the Zia II Plant
- A review of the H₂S alarms and significance
- Notification procedures
- Roadblock locations
- Potential evacuation routes
- Procedures for sheltering in place
- Radii of exposure

TRAINING OF PUBLIC OFFICIALS AND EMERGENCY RESPONSE AGENCIES

All of the Emergency Response Agencies listed in Appendix C will have copies of the H₂S Contingency Plan, and DCP Midstream will provide annual training to the following Emergency Response Agencies:

- NM State Police-Hobbs and Carlsbad Offices
- Eddy County 911 Emergency Response
- Eddy County Emergency Planning Committee
- Hobbs, Artesia and Carlsbad Police Department
- Lea County Sherriff's Department
- Hobbs, Artesia and Carlsbad Fire Department
- New Mexico Oil Conservation Division-Hobbs District Office
- Bureau of Land Management (BLM) Carlsbad Field Office

Training will include:

- An overview of the Zia II Plant and AGI operations
- Design and operating safety features on the Zia II Plant
- A review of the H₂S alarms and significance
- Notification procedures
- Roadblock locations
- Potential evacuation routes
- Procedures for sheltering in place
- Radii of exposure

DCP Midstream will also conduct, at a minimum, one annual tabletop drill involving the Emergency Response Organizations listed above on the activation of the Zia II Plant H₂S Contingency Plan.

TRAINING AND ATTENDANCE DOCUMENTATION [NMAC 19.15.11.9 G]

Per NMAC 19.15.11.9.G drill training will be documented, and those records will be maintained at the Plant and will be available to an OCD representative upon request. The documentation shall include at a minimum the following:

- Description or scope of the drill, including date and time
- Attendees and Participants in the drill
- Summary of activities and responses
- Post-drill debriefing and reviews

IX. COORDINATION WITH STATE EMERGENCY PLANS [NMAC 19.15.11.9.B(2)(e)]

NOTIFICATIONS AND REPORTS

The Plant has various notification and reporting obligations. Some are related to its state air quality permit that is overseen by NMED as well as state and federal spill reporting obligations. In addition to the regulatory obligations noted above, Plant personnel also have internal and external notification and reporting obligations associated with the activation of this Plan. Reporting obligations are as follows:

New Mexico Oil Conservation Division (OCD) [NMAC 19.15.11.16]

As soon as possible, but no later than four hours after plan activation, (recognizing that a prompt response should supersede notification), OCD will be notified by the IC or the IC's designee via email or fax to the District II Office of the activation of the H₂S Contingency Plan. In the event of a power failure, a phone call will be made within four hours. A full report of the incident to the OCD, utilizing Form C-141 shall be made no later than 15 days following the release (see Appendix G).

New Mexico State Police/ New Mexico Hazardous Materials Emergency Response Plan

The New Mexico State Police are responsible for overall scene management and coordination of all resources. A designated Emergency Response Officer (ERO) will establish the National Interagency Incident Management System (NIIMS) Incident Command System (ICS) as the Incident Commander (IC) and be responsible for management of all response resources on scene. Off-scene coordination of

response resources will be handled through designated Headquarters Emergency Response Officers. Law enforcement-related activities will be coordinated by State Police.

Bureau of Land Management (BLM)

The BLM will also be contacted (see Appendix C for phone number) in the event of activation of the plan since the Plant is located on land leased from BLM by DCP Midstream.

X. PLAN ACTIVATION [NMAC 19.15.11.9.C] [API RP-55 7.4 d]

The plan will be activated as described in the Immediate Action Plans and Response Flow Diagrams in Appendix A. At a minimum, Per NMAC 19.15.11.8.C, the Plan also shall be activated at Level 3 (see Appendices A and B for detail) whenever a release may create an H₂S concentration of more than 100 ppm in a public area, 500 ppm at a public road or 100 ppm 3,000 feet from the site of release.

ACTIVATION LEVELS

The Plan has three activation levels that are described in detail in the Immediate Action Plan Section of this Plan (see Appendix A) and in outline form in the Response Flow Diagrams (see Appendix B).

- **Level 1** Intermittent alarm sounded and flashing yellow beacons activated for H₂S greater than 10 ppm at personal or fixed monitor. (See Appendices A, Level 1, and B Level 1 for detail.)
- **Level 2** Continuous alarm sounded and flashing yellow beacons activated for H₂S greater than 90 ppm; when corrective actions at Level 1 have been unsuccessful or when Operators activate ESD. Notification of operators, businesses, public, BLM and state agencies is initiated. (See Appendices A, Level 2 and B, Level 2 for detail.)
- **Level 3** Catastrophic release; fire; explosion; a continuous release of maximum volume for 24 hours; or Rule 11 mandatory activation for 100 ppm in any defined public area; 500 ppm at any public road; or 100 ppm at a distance greater than 3000 feet from the site or the release. Notification of operators, businesses, public, and state agencies is initiated. (See Appendices A, Level 3 and B, Level 3 for detail.)

As soon as the Plan has been activated based on the criteria above, the Plant Supervisor, or his designee will be notified.

EVENTS THAT COULD LEAD TO A RELEASE OF H₂S

- Inlet and plant piping failure
- Amine still failure (This would be a leak in the amine process equipment, or amine still utilized to separate methane from H₂S and CO₂.)
- Flange/gasket leaks on inlet and plant piping
- Flange/gasket leak on the acid gas compressors
- Flange/gasket or valve packing leak at the AGI Well or associated piping
- Valve packing failure
- Seal failure on acid gas compressors
- Failure of flare to ignite during Plant emergency blow down
- Damage to AGI Wellhead

XI. SUBMISSION OF H₂S CONTINGENCY PLANS [NMAC 19.15.11.9.D]

SUBMISSION

DCP Midstream, LP submitted this H₂S Contingency Plan to the OCD for review and approval in June 2015.

RETENTION

DCP Midstream shall maintain a copy of the contingency plan at the Zia II Gas Plant, at DCP Headquarters in Hobbs, NM and at DCP Headquarters office in Denver, CO. The plan as approved by the OCD will be readily accessible for review by the OCD at the facility upon request.

REVISIONS TO THE PLAN

The H₂S Plan will be reviewed annually and revised at that time as necessary to address changes to the Plant facilities, operations, or training requirements, contact information and the public areas including roads, businesses, or residents potentially affected by the operations of the Plant and AGI Wells, specifically those areas within the radii-of-exposure.

ANNUAL INVENTORY OF CONTINGENCY PLANS

DCP Midstream, LP will file an annual inventory of wells, facilities and operations for which H_2S Contingency Plans are on file with the OCD with the appropriate Local Emergency Planning Committee (LEPC) and the State Emergency Response Commission as per NMAC 19.15.11.9H. The inventory shall include the name, address, telephone number, and point of contact for all operations for which H_2S Contingency Plans are on file with the OCD.

FIGURES

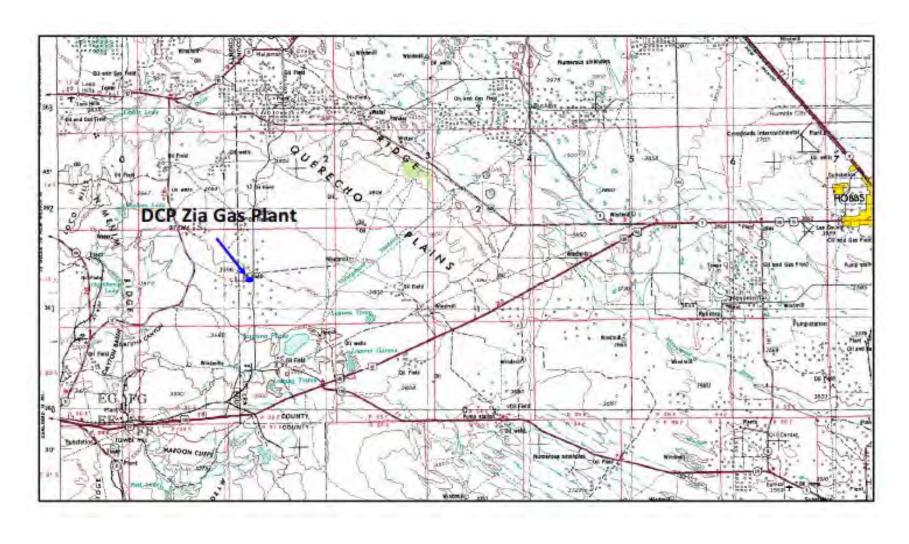


Figure 1: Location of the DCP Zia Gas Plant and AGI Wells (USGS 1:250,000)

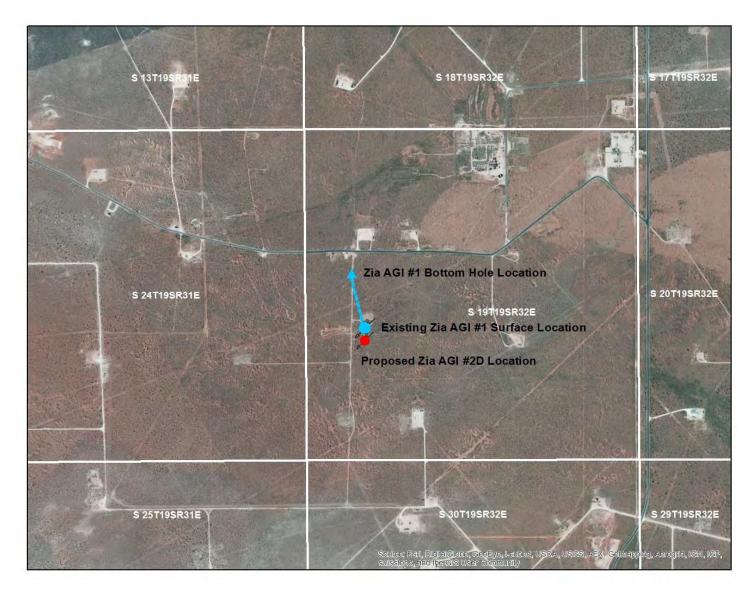


Figure 1a: Surface and Bottom Hole Locations of Zia AGI #1 and AGI #2

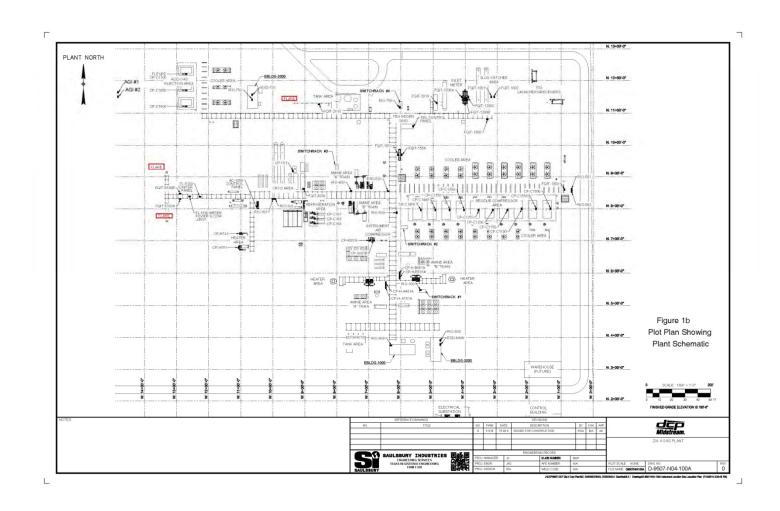


Figure 1b: Plot Plan Showing Plant Schematics

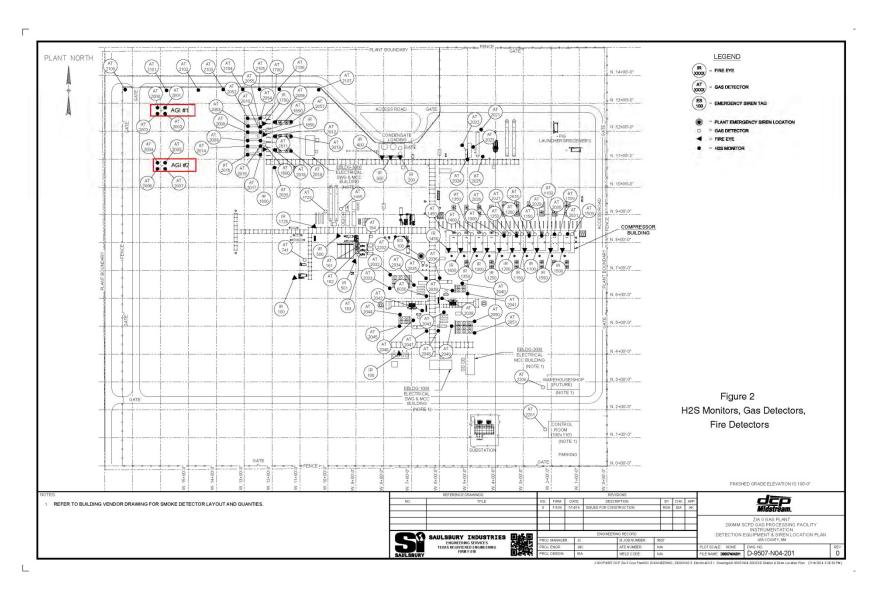


Figure 2: H2S Monitors, Gas Detectors and Fire Detectors

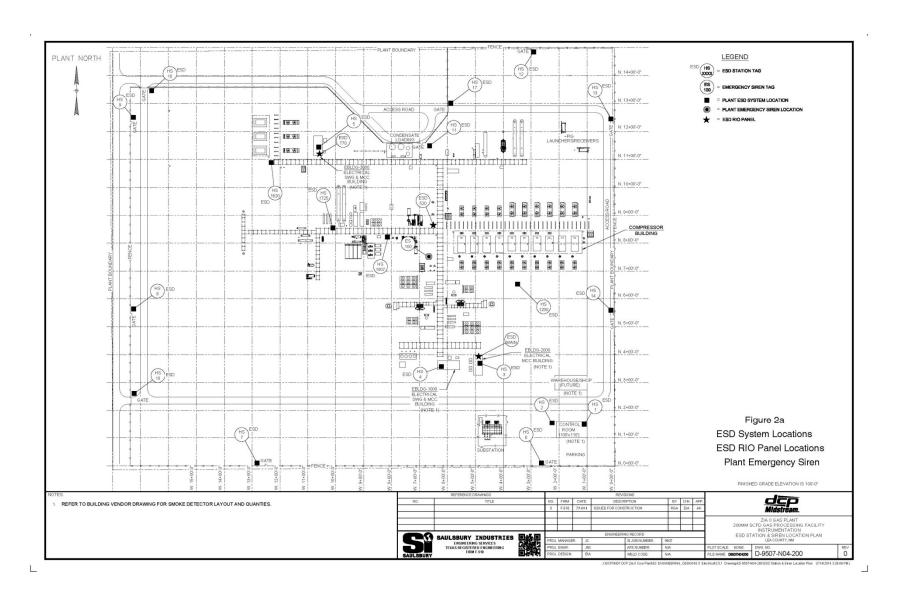


Figure 2a: ESD System Locations, ESD RIO Panel Locations and Plant Emergency Siren

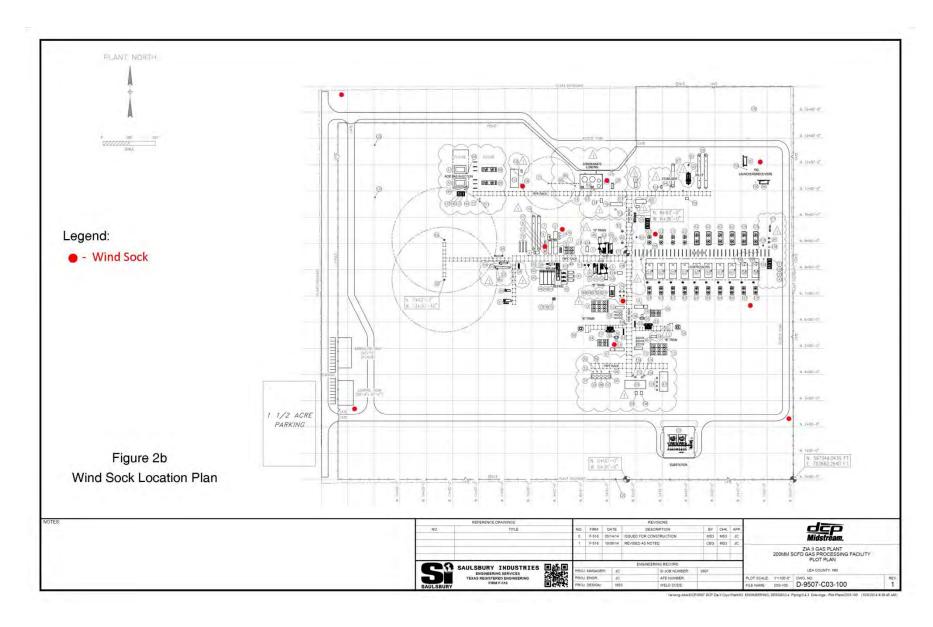


Figure 2b: Wind Sock Location Plan

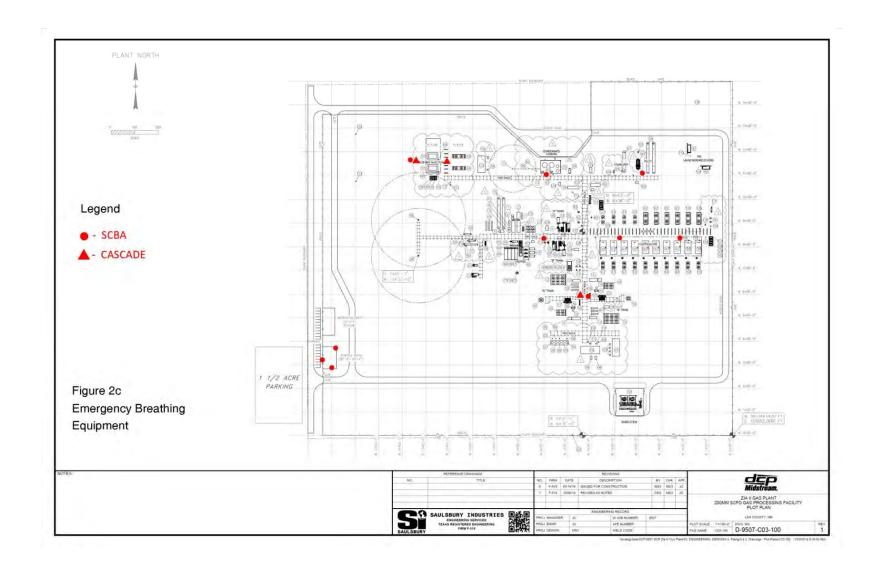


Figure 2c: Emergency Breathing Equipment

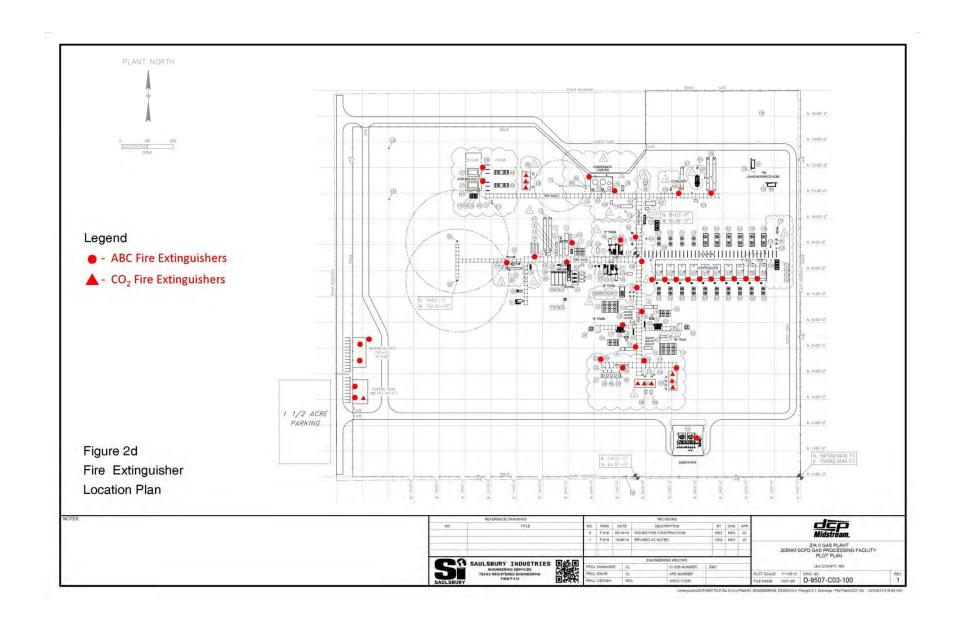


Figure 2d: Fire Extinguisher Location Plan

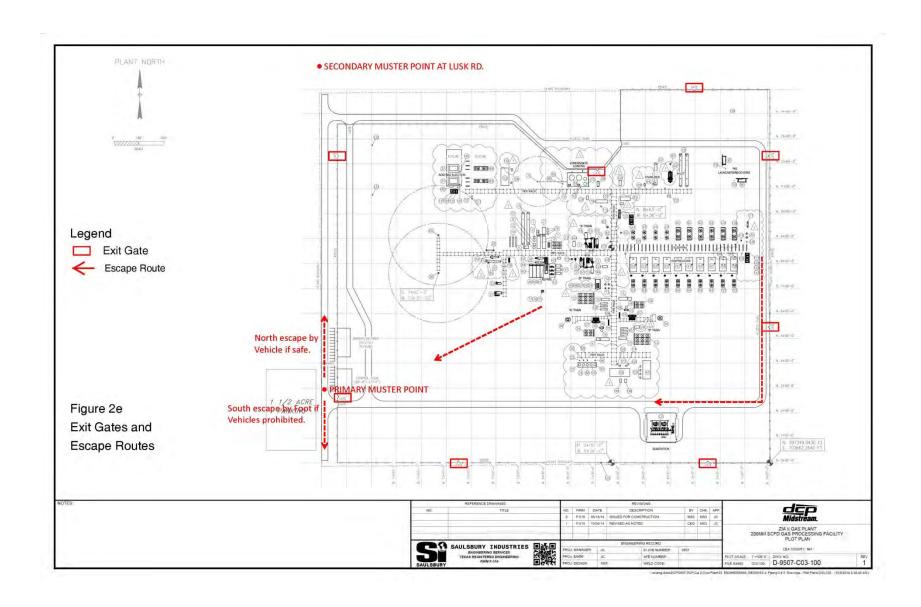


Figure 2e: Exit Gates and Escape Routes

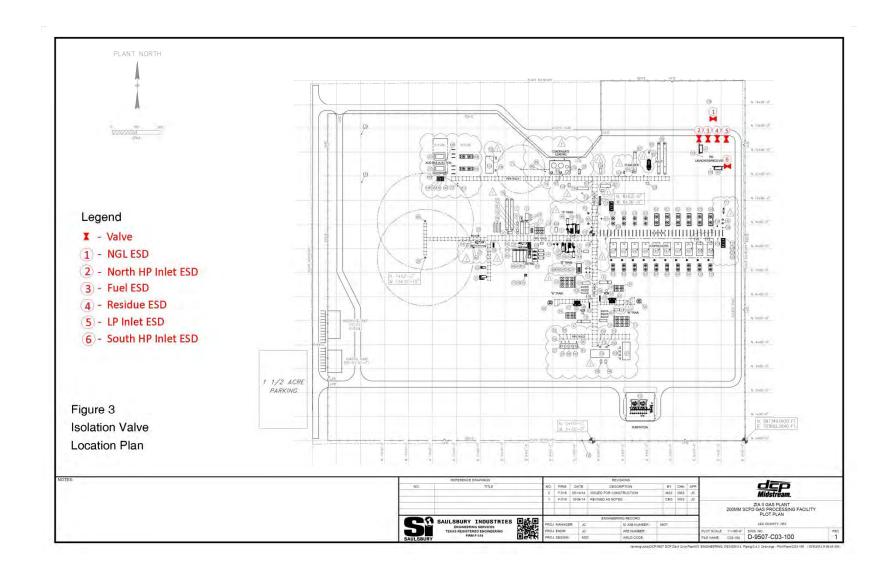


Figure 3: Isolation Valve Location Plan

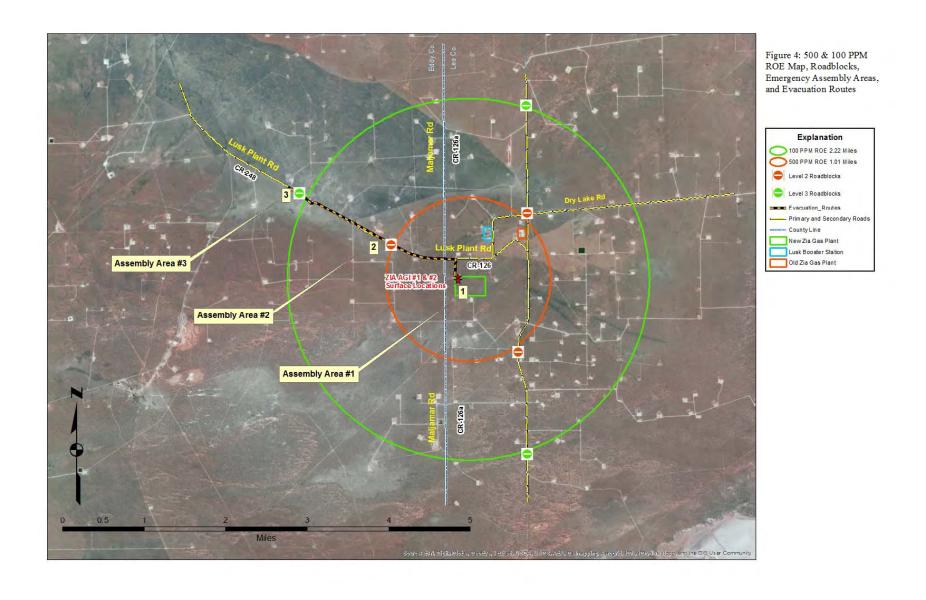


Figure 4: 500 and 100 ppm ROE Map, Roadblocks, Emergency Assembly Areas and Evacuation Routes

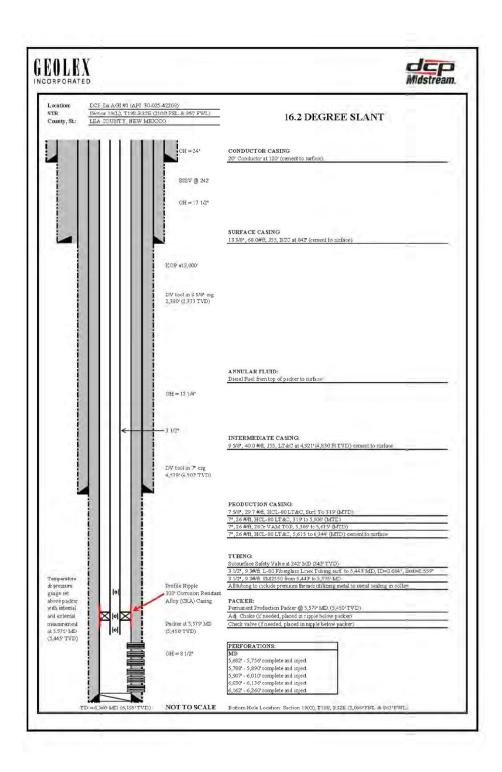


Figure 5a: Well Design Schematic – Zia AGI #1

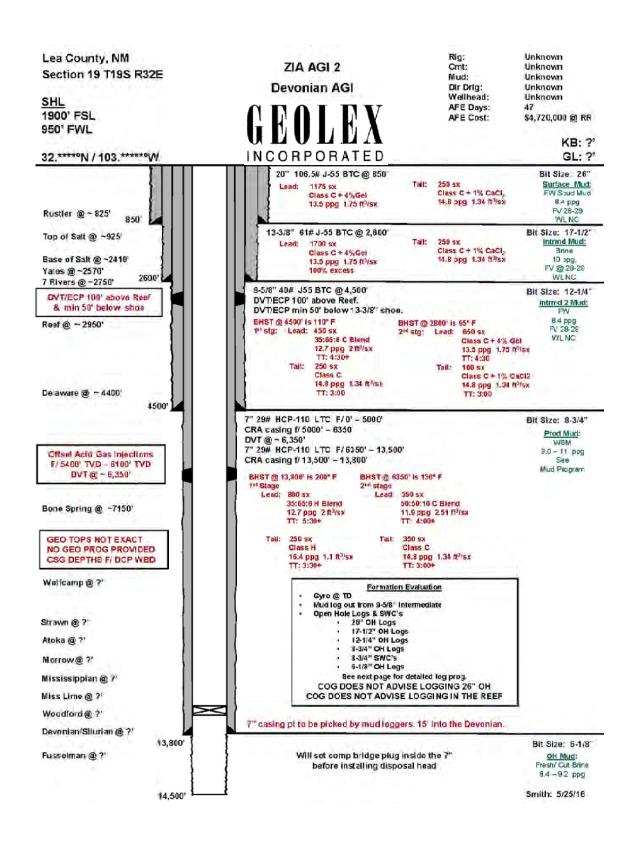


Figure 5b: Schematic of Proposed Zia AGI #2D Well Design

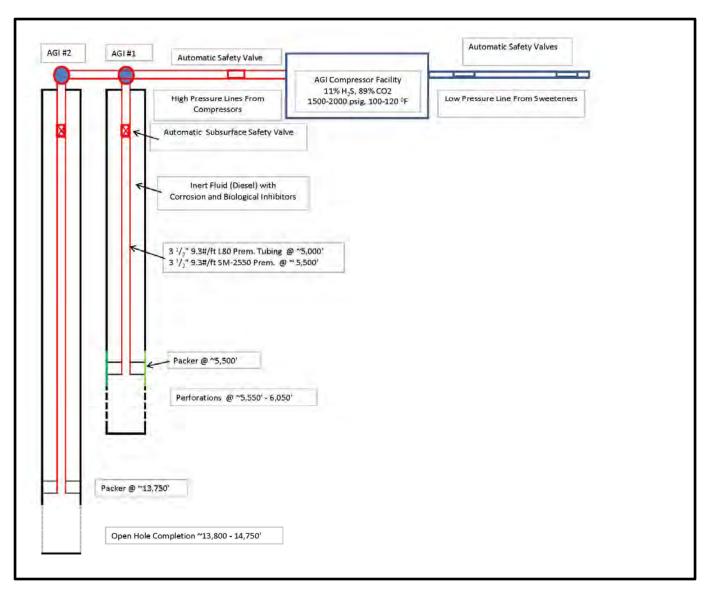


Figure 6: Generalized Zia AGI Facility and General Injection Well Design

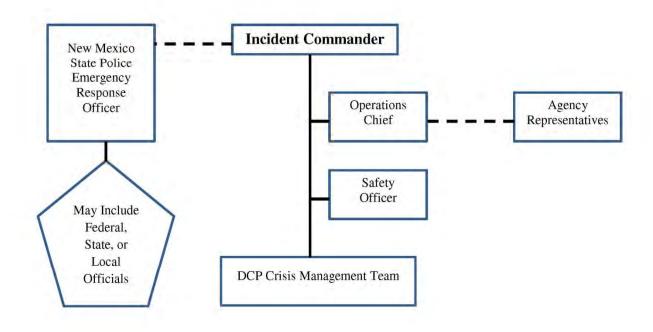


Figure 7: Incident Command System Structure

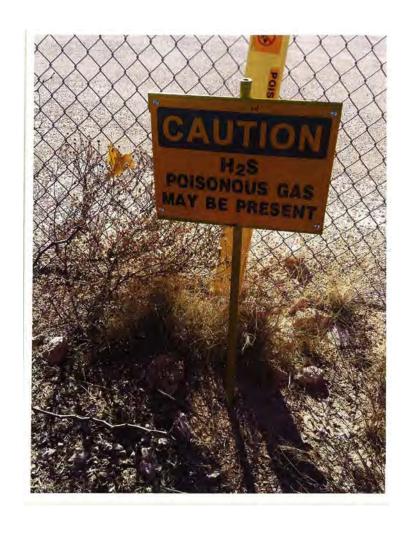


Figure 8: Photograph of H2S Warning Sign

APPENDICES

APPENDIX A

IMMEDIATE ACTION PLANS

LEVEL 1 ACTIVATION

Activating Conditions:

• H₂S of 10 ppm or greater detected at any fixed monitor.

Alarms and Automated Activations:

- Flashing yellow lights or beacons and an intermittent horn are activated if any fixed monitor senses H₂S at 10 ppm or greater. The horn and flashing yellow lights are redundant systems which function independently of one another so that should one system fail, the other would remain active. These systems incorporate backup battery capabilities as recommended in API RP 55 which insure their operation in the event of a power failure.
- A computer in the Control Room and in the office of the Plant Supervisor establishes the location of the monitor(s) at the Plant or Wellsite that has activated the alarm and flashing yellow beacons.
- All employees also wear personal monitors that sound an audible alarm at 10 ppm H₂S or greater.

Actions:

- 1. At the initial sound of an audible alarm or the sight of a flashing yellow beacon, responding Operator(s) in the vicinity of the alarm will put on 30 minute Self-Contained Breathing Apparatus (SCBA) and help any person in distress evacuate to Emergency Assembly Area 1.
- 2. All other personnel in the Plant complex shall immediately proceed to Emergency Assembly Area 1 (see Figures 2c and 4).
- 3. Control Room Operator and Plant Supervisor will be notified of the release. Plant Supervisor or designee will assume the role of IC. Control Room Operator will remain in the control room, identify the location(s) of the alarms and monitor H₂S concentrations throughout the Plant.
- 4. If a perimeter monitor (see Figure 2) detects 10 ppm H₂S or greater, all entities and individuals located within the 500 ppm ROE (see Figure 4) will be notified by the IC or designee that a release is occurring and to stand by for further instructions. Entities will be advised to alert their employees and any third parties working for them, or imminently scheduled to work in the area, of the release and to leave the area and not return until further notice. (Phone numbers are listed in Appendix C).
- 5. If deemed necessary, Plant personnel as designated by the IC will contact local emergency response service providers (phone numbers provided in Appendix C).
- 6. All personnel will be accounted for at Emergency Assembly Area 1 using the Plant sign in sheet and air quality will be monitored for H₂S concentrations. If H₂S concentrations reach 10 ppm or greater at Emergency Assembly Area 1, all personnel will be evacuated to Emergency Assembly Area 2 using the designated routes (see Figures 2C and 4).
- 7. If the concentration of H₂S in the control room reaches 10 ppm, the Control Room Operator will also put on a 30 minute SCBA.
- 8. Responding Operator(s) wearing SCBAs will assess the location of the alarm and attempt to make an initial determination of its cause and rule out potential false alarms based on sensor malfunction or other conditions. If the cause of the release is a minor problem such as a packing or seal leak, the Operator(s) will attempt to take the necessary steps to correct the situation and eliminate the source of the release.
- 9. IC will designate secondary re-entry teams in 30-minute SCBA's to re-enter and resolve the situation. Reentry will occur in 15-minute increments at the direction of the IC until the problem is resolved or the Emergency Shutdown (ESD) is activated.
- 10. If corrective actions are successful, and the release is resolved and monitored H₂S levels in the Plant return to less than 10 ppm, the IC or designee will signal all clear, and personnel will be allowed to sign in and reenter the Plant to resume work.
- 11. If the release is not resolved and H₂S levels continue to rise IC will initiate a Level 2 Response and/or instruct Operators to initiate Plant ESD.
- 12. The IC will initiate and maintain a Chronologic Record of Events Log (see Appendix F).
- 13. The Plant Supervisor or designee will contact the Oil Conservation Division (OCD) district office within 4 hours of a release that activates the plan at Level 1. **Per 19.15.11.16 NMAC**, **notification of Contingency Plan implementation will be submitted to the OCD via form C-141 within 15 days of release.**

LEVEL 2 ACTIVATION

Activating Conditions:

- Corrective actions at Level 1 are unsuccessful;
- 90 ppm of H₂S or greater is detected at any fixed monitor.
- Operators activate ESD.

Alarm and Automated Activations:

• Continuous horn and flashing yellow lights will be activated. The horn and flashing lights are redundant systems which function independently of one another so that should one system fail, the other would remain active. These systems incorporate backup battery capabilities as recommended in API RP 55 which insure their operation in the event of a power failure.

Actions:

- 1. The responding Operator(s), will put on SCBAs and help any persons in distress to evacuate to Emergency Assembly Area 2 (see Figure 4).
- 2. The Plant Supervisor and the Control Room Operator will be notified. The Plant Supervisor, or designee, will assume the role of IC. The Control Room Operator will put on SCBA, remain in the control room and monitor H_2S concentrations throughout the Plant.
- 3. All personnel will be evacuated to Emergency Assembly Area 2 via designated routes (see Figure 4).
- 4. At Emergency Assembly Area 2, all personnel will be accounted for using the Plant sign-in list, and air quality will continue to be monitored for H₂S at Emergency Assembly Area 2.
- 5. If two or more monitors within the AGI fenced area or around the AGI compressor (see Figure 2) detect 90 ppm H₂S or greater, AGI compression will be shut down.
- 6. Plant ESD can be activated at any time by the Zia II Plant Operators as they and the IC determine that conditions are appropriate for such action.
- 7. Incident Command Center (ICC) will be established at Emergency Assembly Area 2.
- 8. A media staging area adjacent to Emergency Assembly Area 2 will be established and all media will be directed to it.
- 9. IC will designate personnel with H₂S monitors and emergency trailers to move to the designated Level 2 (500 ppm ROE) roadblock areas shown on ROE map. Lusk Plant Road (CR-248), Dry Lake Road (CR 126) and Maljamar Road (CR 126a) will be blocked to prevent entry into the 500 ppm ROE (see Figure 4). Air quality will be monitored at each road block.
- 10. Emergency Responders, local law enforcement BLM and state agencies, including the OCD District Office (phone numbers provided in Appendix C) will be notified of the release and the status of containment by the IC or designee.
- 11. Designated personnel will notify all entities, individuals and producers within the 500 and 100 ppm ROE (phone numbers provided in Appendix C) of the nature of the release and the status of containment. All will be instructed to evacuate, or shelter in place, depending on the nature of the release and the prevailing wind conditions. They will be instructed to immediately alert all company personnel, third party contractors and/or service companies working in the area and those imminently scheduled to work in the area of the Plant evacuation status and advise them to leave and not reenter the Plant vicinity until further notice. All will be advised of the roadblocks on Lusk Plant Road (CR-248), Dry Lake Road (CR 126) and Maljamar Road (CR 126a).
- 12. Re-entry will occur in full SCBA and at 15-minute increments at the direction of the IC until IC determines problem has been resolved.
- 13. If release is resolved and monitored levels of H₂S in the Plant are less than 10 ppm, IC or designee may authorize personnel to return to the Plant.
- 14. All entities and individuals previously notified will be informed that the release has been resolved and advised of the current monitored H₂S levels. Roadblocks will be recalled, and traffic will be restored.
- 15. If monitored H₂S levels at Emergency Assembly Area 2 or Level 2 roadblocks exceed 10 ppm, all personnel will evacuate to General Emergency Assembly Area 3 via designated route, ICC and media staging area will also be moved to Assembly Area 3.
- 16. If the release is not resolved or H₂S levels continue to increase, IC will initiate a Level 3 Response.
- 17. The IC will initiate and maintain a Chronologic Record of Events log. (Appendix F)
- 18. The Plant Supervisor or designee will contact the Oil Conservation Division (OCD) district office within 4 hours of a release that activates the plan at Level 1. **Per 19.15.11.16 NMAC, notification of Contingency Plan implementation will be submitted to the OCD via form C-141 within 15 days of release.**

LEVEL 3 ACTIVATION

Activating Conditions:

- Corrective actions at Level 2 are unsuccessful;
- H₂S concentrations reach 10 ppm or greater at Emergency Assembly Area 2;
- H₂S concentrations reach 10 ppm or greater at Level 2 roadblocks;
- A catastrophic release, fire or explosion has occurred;
- A continuous release of maximum volume for 24 hours occurs;
- As per NMAC 19.15.11 there is indication of 100 ppm H₂S in any defined public area, 500 ppm at any public road, or 100ppm at a distance greater than 3,000 feet from the site of the release.

Actions:

- 1. All personnel should be evacuated to and accounted for at Emergency Assembly Area 3 using the Plant sign in sheet, and air quality will be monitored for H₂S concentrations (see Figure 4).
- 2. IC shall have activated or will immediately activate Plant ESD.
- 3. The ICC and media staging area shall be established and/or moved to Emergency Assembly Area 3.
- 4. Dispatch personnel with emergency trailers to move or establish designated Level 3 roadblocks at Lusk Plant Road (CR-248), Dry Lake Road (CR 126) and Maljamar Road (CR 126a) to prevent entry into the 100 ppm ROE (see Figure 4). Monitor H₂S concentrations at the roadblocks.
- 5. Local emergency responders, BLM, and state agencies, including the OCD District Office, will be notified of the release and status of containment (phone numbers provided in Appendix C).
- 6. All individuals and entities within the 100 ppm ROE will already have been notified to evacuate or shelter in place. IC will review the status of evacuation, and make the final decision whether individuals within the 100 ppm ROE should evacuate or shelter in place based on, but not limited to H₂S concentration, wind conditions and whether a safe evacuation can be implemented. If individuals within the 100 ppm ROE are instructed to evacuate, IC will recommend an evacuation route. All entities will be instructed to immediately alert all company personnel, third party contractors and/or service companies working in the area and those imminently scheduled to work in the area of the Plant evacuation status and advise them to leave and not enter, or re-enter the Plant vicinity until further notice. All will be advised of the roadblocks on Lusk Plant Road (CR-248), Dry Lake Road (CR 126) and Maljamar Road (CR 126a).
- 7. If escaping vapors have been ignited, the vapors should be allowed to continue to burn unless the fire endangers personnel, the public, other property, or other equipment.
- 8. Re-entry will occur in full SCBA and cascade breathing air systems at the direction of the IC until IC determines problem has been resolved.
- 9. Once release is resolved and monitored levels of H₂S in the Plant are less than 10 ppm, IC or designee may authorize personnel to sign in and return to the Plant.
- 10. All entities and individuals previously notified will be informed that the release has been resolved and advised of the current monitored H_2S levels at the Plant. Roadblocks will be recalled and traffic will be restored.
- 11. The IC will initiate and maintain a Chronologic Record of Events log. (Appendix F)
- 12. The Plant Supervisor or designee will contact the Oil Conservation Division (OCD) district office within 4 hours of a release that activates the plan at Level 1. **Per 19.15.11.16 NMAC, notification of Contingency Plan implementation will be submitted to the OCD via form C-141 within 15 days of release.**

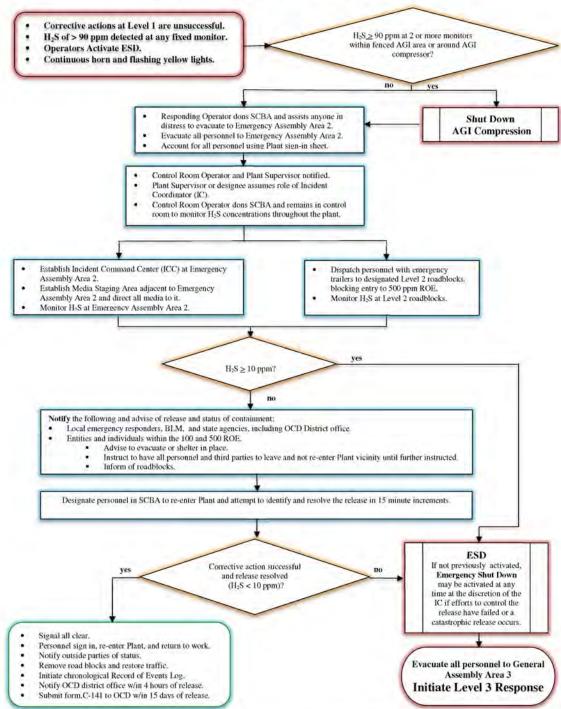
APPENDIX B

RESPONSE FLOW DIAGRAMS

ZIA II Gas Plant-Level 1 Activation Response Flow H_2S of ≥ 10 ppm detected at any fixed monitor Flashing yellow lights and intermittent horn Responding Operator dons SCBA and assists anyone in distress to evacuate to Emergency Assembly Area 1. Evacuate all personnel to Emergency Assembly Area 1. Account for all personnel using Plant sign-in sheet. Control Room Operator and Plant Supervisor notified. Plant Supervisor or designee assumes role of Incident Coordinator (IC) IC or designee notifies emergency responders if deemed necessary. Control Room Operator stays in control room, verifies the location of the alarm/release, and monitors H₂S concentrations and communicates with responding Operator(s). Is ≥ 10 ppm alarming monitor a perimeter monitor? Notify all entities and individuals within 500 ppm ROE of release and advise to stand by for further instructions. Notify local emergency responders if deemed necessary by IC Monitor air quality for H2S concentrations at Emergency Assembly Area 1. no H₂S concentration ≥ 10 ppm? Control Room Operator dons SCBA and continues to monitor H-S Concentrations from the Responding Operator in SCBA attempts to determine the control room. All personnel evacuate to source of the release and take corrective action. Emergency Assembly Area 2, Use plant sign in sheet to account for all personnel. Corrective action successful ESD and release resolved? (H₂S < 10 ppm) Activate Emergency Shut Down. Initiate Personnel sign in and reenter Plant to resume work. Notify outside parties of status and recall roadblocks. Level 2 Initiate chronological Record of Events Log. Response Notify OCD district office w/in 4 hours of release. Submit form C-141 to OCD w/in 15 days of release.

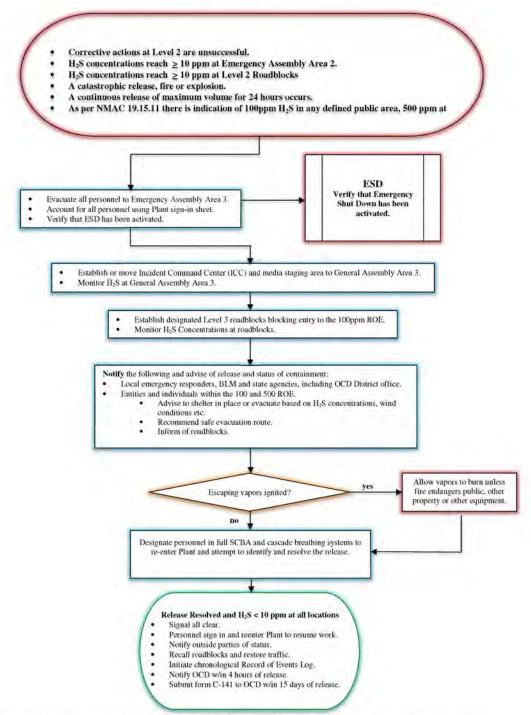
P:\14-007\Reports\H2S Contingency Plan\Appendices\Appendix B Response Flow Diagrams\ZIA FlOWCHART- LEVEL 1 RESPONSE.doex

ZIA II Gas Plant —Level 2 Activation Response Flow



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ZIA II Gas Plant-Level 3 Activation Response Flow



P:\14-007\Reports\H2S Contingency Plan\Appendices\Appendix B Response Flow Diagrams\ZIA FlOWCHART-LEVEL 3 RESPONSE.docx

APPENDIX C TELEPHONE NUMBERS EMERGENCY CALL LIST

BUSINESSES AND PUBLIC RECEPTORS WITHIN THE ROE There are none

PRODUCERS WITH WELLS WITHIN THE ROE

PRODUCER	OFFICE LOCATION	Office Phone
500 ppm ROE		
Chisos, Ltd.	670 Dona Ana Rd SW Deming, NM 88030	575-546-8802
COG Operating LLC	600 W. Illinois Ave One Concho Center Midland, TX 79701	575-748 6940
Devon Energy	333 W Sheridan Ave Oklahoma City, OK 73102	405- 235-3611
Oxy USA, Inc.	1017 W Stanolind Rd Hobbs, NM 88240	575-397-8237
Shackelford Oil Co	203 W Wall St #200 Midland, TX 79701	432-682-9784
Tandem Energy Corp	200 N Loraine, Suite 500 Midland, TX 77210	432-686-7136
Tom R. Cone	1304 W Broadway Pl Hobbs, NM 88240	575-396-3681
100 ppm ROE		
Apache Corp.	303 Veterans Airpark Ln Suite 3000 Midland, TX 79705	432-838-1062
BOPCO, LP	3104 E Greene St Carlsbad, NM 88220	575-887-7329
Cimarex Energy Company of Colorado	600 N. Marienfeld Street, Suite 600 Midland, TX 79701	432-571-7800
Endurance Resources, LLC	11382 Lovington Hwy Artesia, NM 88210	575-308-0722
Lynx Petroleum Consultants, Inc.	3325 N Enterprise Dr Hobbs, NM 88240	575-392-6950
Ray Westall Operating, Inc.	PO Box 1 Loco Hills, NM 88255	575-677-2376
Yates Petroleum Corporation	105 South 4th Street Artesia, NM 88210	575-748-1471

DCP COMPANY INTERNAL NOTIFICATIONS

NAME	TITIE	OFFICE	CELL
Todd Allison	Zia II Plant Supervisor		361-318-3275
Charlie Joslin	Hobbs Plant Supervisor		575-802-5101
Russ Ortega	SENM Asset Director	575-597-5598	575-390-7160
Lionel Torrez	SENM Asset Safety Coordinator	575-677-5227	575-618-9475
Jackie Strickland	GM Operations Permian Region	432-620-4066	979-732-7893
Bryan Frederick	President G&P Business Unit	713-735-3667	713-503-3130
	Safety Manager Permian Region	432-620-4009	
	DCP Gas Control, Houston, TX	800-435-1679	N/A
Brad Griffith	PSM Coordinator	575-677-5223	575-499-6873

EMERGENCY RESPONDERS

AGENCY	PHONE
Emergency Dispatch	911
Hobbs Fire Department	575-397-9308
Hobbs Police Department	575-397-9265
Hobbs Ambulance Service	575-397-9308
New Mexico State Police (Hobbs)	575-392-5580
Lea County Sheriff's Office	575-396-3611
Hobbs-Lea Regional Medical Center	575-492-5000
Lubbock University Medical Center (UMC)	806-345-9911
(Level 1 Trauma Center)	
New Mexico Poison Control (Albuquerque)	800-222-1222
HELICOPTER SERVICES	
AeroCare (Lubbock)	800-823-1991
Air Med (El Paso)	800-527-2767

COUNTY AND LOCAL LAW ENFORCEMENT AND PUBLIC AGENCIES

AGENCY	PHONE NUMBER
Oil Conservation Division	
Santa Fe Office	505-476-3440
District 1 Office, Lea County (Hobbs)	575-370-3186
Local Emergency Planning Committee (LEPC)	
Lea County	575-396-8607
New Mexico State Police (Hobbs)	575-392-5580

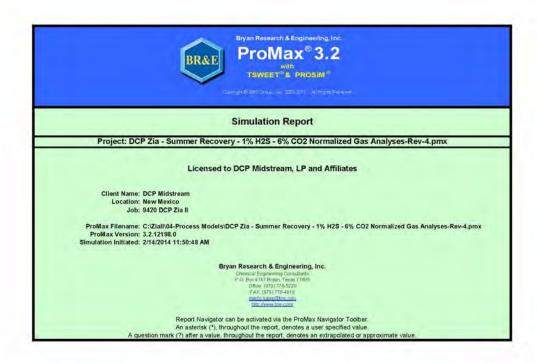
Lea County Sheriff's Office	575-396-3611
National Response Center (NRC)	800-424-8802
New Mexico Department of Homeland Security & Emergency	505-476-9600
Management (NMDHSEM)	
New Mexico Emergency Response Commission in NMDHSEM	505-476-9640
New Mexico Department of Public Safety	505-827-9282
Bureau of Land Management (Carlsbad Office)	575-234-5972

APPENDIX D

RADIUS OF EXPOSURE (ROE) CALCULATIONS

If data is provided in r	nole% use calculator	below for gettin	g ppm		
Enter Mole % in cell C5	Mole %	ppm			
Convert mole% to ppm	0.9992	9992			
If data is provided in r			getting pp	m	
Enter Mole Fraction in cell C10 Convert mole fraction to ppm	Mole Fraction	ppm			
Jse ppm derived from	H,S Concentration	(ppm)	data belov	W	
500 ppm ROE calculati X _{500ppm} Where: X = radius of exposure	on (as per 19 NMAC 1 , = [(1.589)(Conc _{H2S})(C on (as per 19 NMAC 1 , = [(0.4546)(Conc _{H2S})((ft)	15.11.7.K.1) (2)]^(0.6258) 15.11.7.K.2) (Q)]^(0.6258)	TAN-S		
Conc _{H2S} = the decimal Q = daily plant through				in the gas	
Plant parameters					
Q =	200 MMSCFD =	200000000 5	_		
u-	9992 ppm =	0.9992	Nole %=	0.009992 N	Nole Fraction
	2225 hhiii -				
Conc _{H2S} =	9992 ppm =				
Conc _{H2S} = ROE calculation:	9)*(0.009992)*(20000	00000)]^(0.6258)			
Conc _{H2S} = ROE calculation:		00000)]^(0.6258) 2.22 r			
Conc _{H2S} = ROE calculation: X _{100ppm} = [(1.589)	9)*(0.009992)*(20000	2.22 r	niles		

DCP					
MIDSTREAM ZI	A II PLANT TAG Stream	ROE CALCULA	ATIONS PURSUAN	NT TO RULE 11	
f data is provided	in mole% use calculato	r below for gett	ting ppm		
Enter Mole % in cell C5	Mole %	ррті			
Convert mole% to ppm	14.285	142853	3		
If data is provided	l in mole fraction use cal	lculator below f	for getting ppm		
Enter Mole Fraction in co	ell C10 Mole Fraction	ррт			
Convert mole fraction to	ppm		O .		
lice nom derived	from either of above cal	culations to inn	ut data below		
Input Data Here	H,S Concentration		142853		37
input buta nere	24 Hour Through	STATE OF THE OWNER, WHEN	13.9892		
		, , , , , , , , , , , , , , , , , , , ,			4
The radius of expo	sure is calculated using t	the following eq	juations:		
100 ppm ROE calc	ulation (as per 19 NMAC	15.11.7.K.1)			
X ₁	$_{00ppm} = [(1.589)(Conc_{H25})($	(Q)]^(0.6258)			
500 ppm ROE calc	ulation (as per 19 NMAC	15.11.7.K.2)			
X ₅	$_{00ppm} = [(0.4546)(Conc_{H2S})]$)(Q)]^(0.6258)			
577					
Where:	AND THE				
X = radius of expo			e cues a		
	mal equivalent of the mo			ne gas	
Q = daily plant thr	oughput corrected to sta	indard condition	is (SCFD)		
Plant parameters					
Q=	13.9892 MMSCFD =	13989200	SCFD		
Conc _{H2S} =	142853 ppm =	14.2853	Mole %= 0.14	12853 Mole Fra	action
	3.500				
ROE calculation:					
X _{100ppm} = [(1	1.589)*(0.142853)*(1398	89200)]^(0.6258	()		
X _{100ppm} =	11717 ft =	2.22	2 miles		
X _{500ppm} = [(0	0.4546)*(0.142853)*(139	989200)]^(0.625	(8)		



Component	Mol %
ydrogen Sulfide	0.9992
litrogen	2,2311
lethane	68.3532
arbon Dioxide	5.9954
thane	12.6577
ropane	6.1254
Butane	0.6925
-Butane	1.6637
Pentane	0.3755
-Pentane	0.3703
eohexane	0.0035
cyclopentane	0.0357
-Methylpentane	0.0707
-Methylpentane	0.0405
lexane	0.0776
lethylcyclopentane	0.0493
enzene	0.0458
vclohexane	0.0463
-Methylhexane	0.0094
-Methylhexane	0.0128
cyclopentane, 1,1-Dimethyl-	0.0203
leptane	0.0144
lethylcyclohexane	0.0248
cyclopentane, 1,1,2-Trimethyl-	0.0012
oluene	0.0169
-Methylheptane	0.0062
-Methylheptane	0.0012
yclohexane, 1,1-Dimethyl-	0.0036
Octane	0.0023
thylbenzene	0.0013
-Xylene	0.0016
-Xylene	0.0003
volooctane	0.0021
octane, 3-Methyl-	0.0030
lonane	0.0004
ecane	0.0001
Indecane	0.0004
odecane	0.0003
Vater	0.0439
GA	0.0000
IDEA	0.0000
iperazine	0.0000
EG	0.0000
Total	100

DCP ZIA GAS PLANT CONVERSION OF INLET GAS TO TREATED AID GAS

Inlet Gas	Inlet Gas	TAG %
		(calculated
H2S	0.9992	14.2853
C02	5,9954	85,7147
Various	93.0054	town.
Total	100.0000	100.0000
Flow Rate	200	13.9892

APPENDIX E H₂S PLAN DISTRIBUTION LIST

New Mexico Oil Conservation Division, Santa Fe Office

New Mexico Department of Public Safety (State Office)

Lea County LEPC/Emergency Manager*

Zia II Plant Supervisor's Office

Zia II Plant Control Room

DCP SENM Asset Manager's Office

DCP Permian Region Safety Manager's Office, Midland, TX

Zia II Plant Emergency Trailers

New Mexico State Police, Hobbs Office

State of New Mexico Emergency Response Commission (SERC)

Bureau of Land Management (BLM) Carlsbad Field Office

*Note: Lea County LEPC Emergency Manager will make and send copies of this plan to appropriate entities within his jurisdiction, including the Hobbs Fire Department.

APPENDIX F

CHRONOLOGIC RECORD OF EVENTS LOG

CHRONOLOGIC RECORD OF EVENTS LOG

Incident Name	2. Opera	ational Period (Dat	e/Time)		5 (A OTI) (IT) (I O O
	F		т		UNI	F/ACTIVITY LOG ICS 214
2 Individual Name	From:	4 ICC Continu	To:	F Assissance	t/l costion	
3. Individual Name		4. ICS Section		5. Assignmen	n/Location	
6. Activity Log		<u>l</u>		 F	Page	of
TIME			M	IAJOR EVENTS	S	
					_	
7. Prepared by:					Date/Time	
UNIT/ACTIVITY LOG						ICS 214
	1				1	

APPENDIX G

NEW MEXICO OIL CONSERVATION DIVISION FORM C-141

District 1
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

			Rel	ease Notifi	cation	and Co	orrective A	ction	1			
					- V	OPERA'	FOR		☐ Initi	al Report		Final Rep
Name of Co	ompany					Contact						
Address						[elephone]						
Facility Na	me				1	acility Typ	96					
Surface Ow	ner			Mineral	Owner				API No	D.		
				LOC		OF RE						
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/	West Line	County		
	1		La	titude	1	Longitud	le			Li.		
				NA'	TURE	OF REL	EASE					
Type of Rele						Volume of	Release		Volume	Recovered		
Source of Re	elease						Iour of Occurren	ce	Date and	Hour of D	iscover	У
Was Immedi	ate Notice		Yes [No □ Not I	Required	If YES, To	Whom?					
By Whom?						Date and I	lour	15.				
Was a Water	course Rea		Yes [] No		If YES, Vo	olume Impacting	the Wat	ercourse.			
Describe Are	ea Affected		Action Tal	ken * e is true and com			knowledge and t					
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