



Delek Logistics Partners, LP
310 Seven Springs Way
Suite 500
Brentwood, TN 37027

September 11, 2025

Phil Goetze
New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division, Underground Injection Control Group
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: DKL Field Services, LLC, OGRID No. 372603
Libby Berry AGI No. 1 (API No. 30-025-54599), NMOCD Order No. R-20694

Dear Mr. Goetze,

We have retained Coolsky Energy Solutions, LLC to assist us in the permitting of the subject well and are submitting this permit action in response to your note of September 10, 2025 to Ken McQueen. This letter and attachments are included as a supplement to the electronic submittal uploaded into the NMOCD Permitting portal. We will email you a duplicate of the submittal and Action ID number soon after upload.

We understand that recent submittals from Coolsky, outside of this permit action, addressed the technical gaps your team identified. This permit action includes changes to Action ID 445498 that incorporate casing modifications provided to you on August 27, 2025 and is intended to address the limitations in the permit processing system.

Considering your communications with Coolsky, we believe this permit action includes the necessary elements for the NMOCD team to finalize their review, to obtain the necessary recommendations & conditions from BLM staff, and to provide a recommendation for issuance of the permit to your Director. We understand there are many competing demands on NMOCD's resources and truly appreciate the efforts of your team and other NMOCD staff that have been working on matters related to the subject Order. We are grateful for your expedited review of this permit action and look forward to your feedback on any next steps.

Respectfully,

Harry Lewis
Sr. Direction, EHSS
Delek Logistics Partners, LP
Harry.lewis@deleklogistics.com
(469) 704-7379

Cc: Ken McQueen, Coolsky
Hector Sanchez, DKL

Att: April 9, 2025 NMOCD Approval of February 18, 2025 Request

Delek Logistics Partners, LP : 5850 Granite Parkway, Suite 450 : Plano, TX 75024

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan-Grisham
Governor

Melanie A. Kenderdine
Cabinet Secretary

Ben Shelton
Deputy Secretary (Acting)

Gerasimos "Gerry" Razatos
Division Director (Acting)
Oil Conservation Division



BY ELECTRONIC MAIL ONLY

DKL Field Services, LLC
(OGRID No. 372603)
c/o David A. White, P.G.
Geolex, Incorporated
Email contact: DWhite@geolex.com

RE: Request For Extension to Commence Injection: Third Extension of Commission Order No. R-20694 for Libby Berry AGI No. 1 and Libby Berry AGI No. 2

**Request To Amend Surface Location: Libby AGI No. 1 and Libby AGI No. 2
Originally Approved Through Commission Order No. R-20694**

Greetings Mr. White:

The Oil Conservation Division ("OCD") has reviewed the request dated February 18, 2025, on behalf of DKL Field Services, LLC ("DKL"), to extend the deadline to commence injection into referenced wells and to amend the surface location for the referenced wells approved through Commission Order No. R-20694.

The request for the extension was received prior to the deadline (extended to July 18, 2025) and provided supporting information on efforts by DKL and Delek Logistics Partners, LP to complete and operate the AGI wells. These activities are summarized in a presentation by DKL to OCD that summarized the recent construction activities for expansion of the Libby Gas Complex which will utilize the AGI wells. A copy of the presentation is attached to this order.

The approval of the new surface locations for the Libby AGI No. 1 and No. 2 wells was requested to accommodate a final plant design with improved protection of the AGI wells within the facility. The current surface locations of the wells were approved prior to the final design being implemented. The new surface location of AGI No. 1 is approximately 132 feet to the northeast of the currently approved location and the new AGI No. 2 surface location is approximately 533 feet to the southeast. The change in the deviation distance for the bottom-hole location for the AGI No. 2 is minimal.

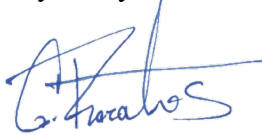
Commission Order No. R-20694
Request for Extension and Request for Changes in Surface Locations
Page 2

In their submittal which is attached, DKL provided the following reviews to determine the impacts of relocation of each AGI well to a new location:

- A revised AOR for the new surface locations show no new affected persons of interest and no new well penetration or revised well status.
- A new Fault Slip Probability model with scenarios conducted to determine that the new surface locations will not cause induced seismicity, and the analysis shows no induced seismicity will be caused by the new surface location
- A new well design was provided, reflective of the new surface location to determine anticipated formation top depths, tubular lengths and cement volumes.

The OCD finds that for reasons stated, the granting of these requests to extend the deadline and amend the surface locations are in the interest of conservation, will prevent waste, and will protect the environment. Having considered the requests and reviewing the submittals, the OCD has recommended to the Director that changes requested by DKL do not warrant a hearing before the Oil Conservation Commission and that the approval of the changes be completed administratively with the Director acting on behalf of Commission.

Therefore, the deadline to commence injection of the Commission Order No. R-20694 is hereby extended until **July 31, 2026**, and the changes to new surface locations, as detailed in the submitted Form C-102s, are approved. Furthermore, the remaining terms and conditions in the referenced order continue in full force and effect, including the requirements for the reduced operation of the Libby Berry Fee SWD No. 1 and the timely completion of the redundant well, Libby Berry AGI No. 2.



Date: 4/9/2025

Gerasimos Razatos
Division Director (Acting) and
Chairperson, Oil Conservation Commission

Attachments:

1. Copy of Geolex, Inc. correspondence dated February 18, 2025
2. Copy of DKL Field Services, LLC Presentation to OCD dated February 20, 2025
3. Copy of Commission Order No. R-20694

GR/mgm



February 18, 2025

Oil Conservation Division
Underground Injection Control
1220 South St. Francis Drive
Santa Fe, NM 87505

VIA ELECTRONIC MAIL

RE: REQUEST TO AMEND SURFACE LOCATION FOR LIBBY AGI #1 AND LIBBY AGI #2
ORIGINALLY APPROVED THROUGH THE ISSUANCE OF NMOCC ORDER R-20694

Mr. Razatos and Mr. Goetze,

On behalf of DKL Field Services, LLC (Delek), we (Geolex, Inc.) are submitting this request for approval to amend the surface location for the Libby AGI #1 and #2 wells (API's TBD). Specifically, we propose a slight change of plans that would relocate the AGI #1 surface location approximately 132 feet to the northeast and the AGI #2 surface location approximately 533 feet to the southeast. This relocation is necessary to ensure the AGI wells are placed in a low-traffic area with respect to the gas treatment facility process units, for which design plans were not finalized at the time of prior permitting activities.

In support of this request, we have (1) completed an updated analysis of the area of review (AOR) for the Libby AGI wells, to ensure there are no new interested parties that have not previously been notified, (2) updated prior Fault Slip Probability modeling scenarios to characterize induced seismicity risk based on the current landscape of injection activity, and (3) prepared well design documents reflective of the anticipated formation top depths, tubular lengths, and cement volumes, for the new AGI well locations.

Additionally, and in accordance with guidance provided by NMOCD, we are also requesting an extension to the duration of Order R-20694, to ensure adequate time is available to Delek to complete drilling and well construction activities (commencing Q2 2025), as well as to ensure the manufacture of surface processing equipment is completed such that injection activities may commence prior to permit expiration. **At this time, and based on the current equipment manufacture lead time, we request NMOCC Order R-20694 be extended until July 31, 2026.**

In the following pages, we provide a summary of attachments included with this submittal and a brief description of the results of our analyses:

ATTACHMENT 1 –REVISED LOCATION MAP, C-102 SURVEY PLAT, AND WELL SCHEMATIC

The new proposed surface locations for the Libby AGI #1 and #2 wells are illustrated in the general location map in Attachment 1. As shown, the new surface positions for the AGI wells are within the facility property boundaries and allow AGI processes to be isolated in a low-traffic area on the property.

As the Libby AGI wells have not yet been issued API numbers, we also include in Attachment 1 the Form C-102 survey plat which provides specific location information for the Libby AGI #1 and AGI #2 wells, as well as the planned well design schematic, which includes specific information relating to anticipated formation tops, tubular lengths, and cement volumes required for the new surface location. As the deviation distance for the AGI #2 bottom-hole location is minimal, a similar well design will be utilized for AGI #2, however, the final well design will be confirmed based on the conditions experienced while drilling AGI #1.



ATTACHMENT 2 – AREA OF REVIEW AND NOTIFICATION OF INTERESTED PARTIES

Our analysis of the Libby AGI wells AOR **confirms that no new interested parties are present within the project area.** All parties have been previously notified in association with the original Form C-108 injection permit application or with prior injection permit extension requests. Included in Attachment 2 of this submittal, we provide location maps summarizing surface ownership and operators within the AOR. All proof of delivery documents (e.g., USPS Certified Mail Green Cards, etc.) can be found as part of the original application, and/or prior injection permit extension requests, which are all publicly available via NMOCD online resources.

Furthermore, analysis of the Libby AGI wells area of review indicate that no new wells have been drilled or permitted that are expected to penetrate the Siluro-Devonian injection reservoir. A tabulated summary of all wells within two miles is included as part of Attachment 2.

ATTACHMENT 3 – INDUCED SEISMICITY RISK ASSESSMENT AND PLUME FOOTPRINT

As part of our evaluation, we have updated the Libby AGI well induced seismicity risk assessment, which assesses the potential for fault slip in response to injection activities within the greater project area. **The results of this updated analysis indicate clearly that the proposed Libby AGI wells will not contribute significantly to the potential for induced seismicity risk,** and furthermore, the total risk for seismicity is lessened, as multiple previously considered injection well projects are no longer proposed in the area. These results are in agreement with and confirm the results of prior assessments conducted in association with the original C-108 application, as well as submitted in support of injection permit extension requests.

Attachment 3 includes relevant Fault Slip Probability modeling results that are based on the proposed new Libby AGI well locations and the current landscape of injection activities in the area.

Regarding the resultant plume footprint, which was evaluated in association with the original C-108 permit application, we do not anticipate any change in the findings of that assessment as a result of the minor relocation of the AGI well surface locations, as we are not seeking any change in the allowable injection volume for these wells.

With this submission, we respectfully request approval to relocate the Libby AGI #1 and #2 wells, as described, as well as approval of our request to extend the duration of NMOCC Order R-20694. Delek remains committed to the fulfillment of all requirements of NMOCC Order R-20694, including the timely construction of the redundant Libby AGI #2 well, and the preparation of a site-specific H2S Contingency Plan, which is currently in development. If you have any questions regarding this request or wish to discuss further, please do not hesitate to contact me at (505) 842-8000 at Geolex, Inc.; 500 Marquette Avenue NW, Suite 1350; Albuquerque, New Mexico.

Sincerely,
Geolex, Inc.®

A handwritten signature in black ink, appearing to read "David A. White".

David A. White, R.G.

Vice President – Consultant to DKL Field Services, LLC

Enclosures: Attachment 1 – Location maps and Libby AGI well design documents
 Attachment 2 – Interested Parties and AOR Analysis
 Attachment 3 – Updates to Induced Seismicity Risk Assessment

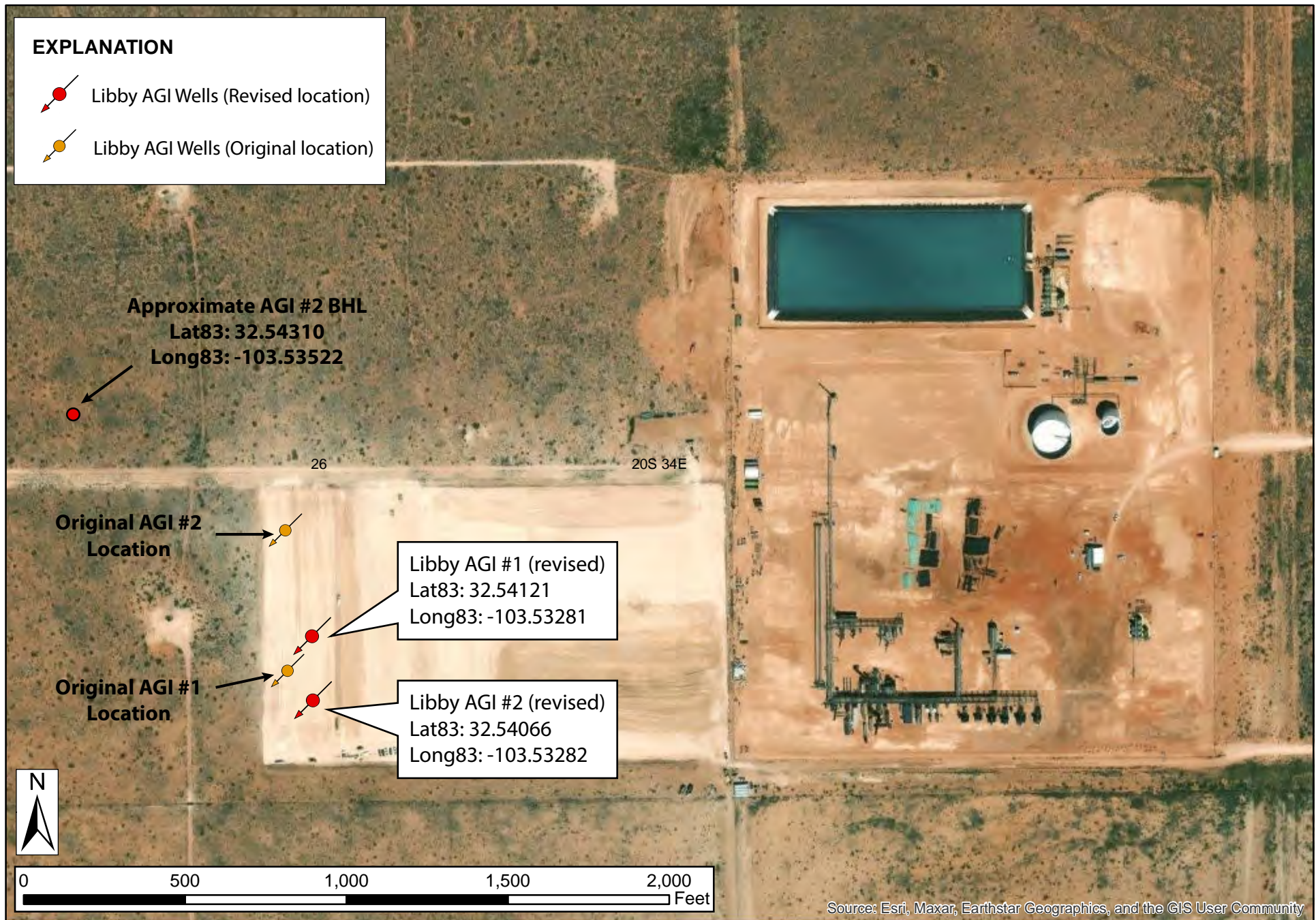
phone: 505-842-8000
fax: 505-842-7380

500 Marquette Avenue NW, Suite 1350
Albuquerque, New Mexico 87102

email: dwhite@geolex.com
web: www.geolex.com


ATTACHMENT 1

Libby AGI #1 and #2 Revised Surface Hole Location Map
Form C-102 Well Location Survey (Libby AGI #1 and #2)
&
Libby AGI #1 Planned Well Design Schematic



Aerial photographic location map showing original and revised Libby AGI surface-hole locations. Delek requests approval to relocate AGI #1 and AGI #2 132 feet northeast and 533 feet southeast, respectively

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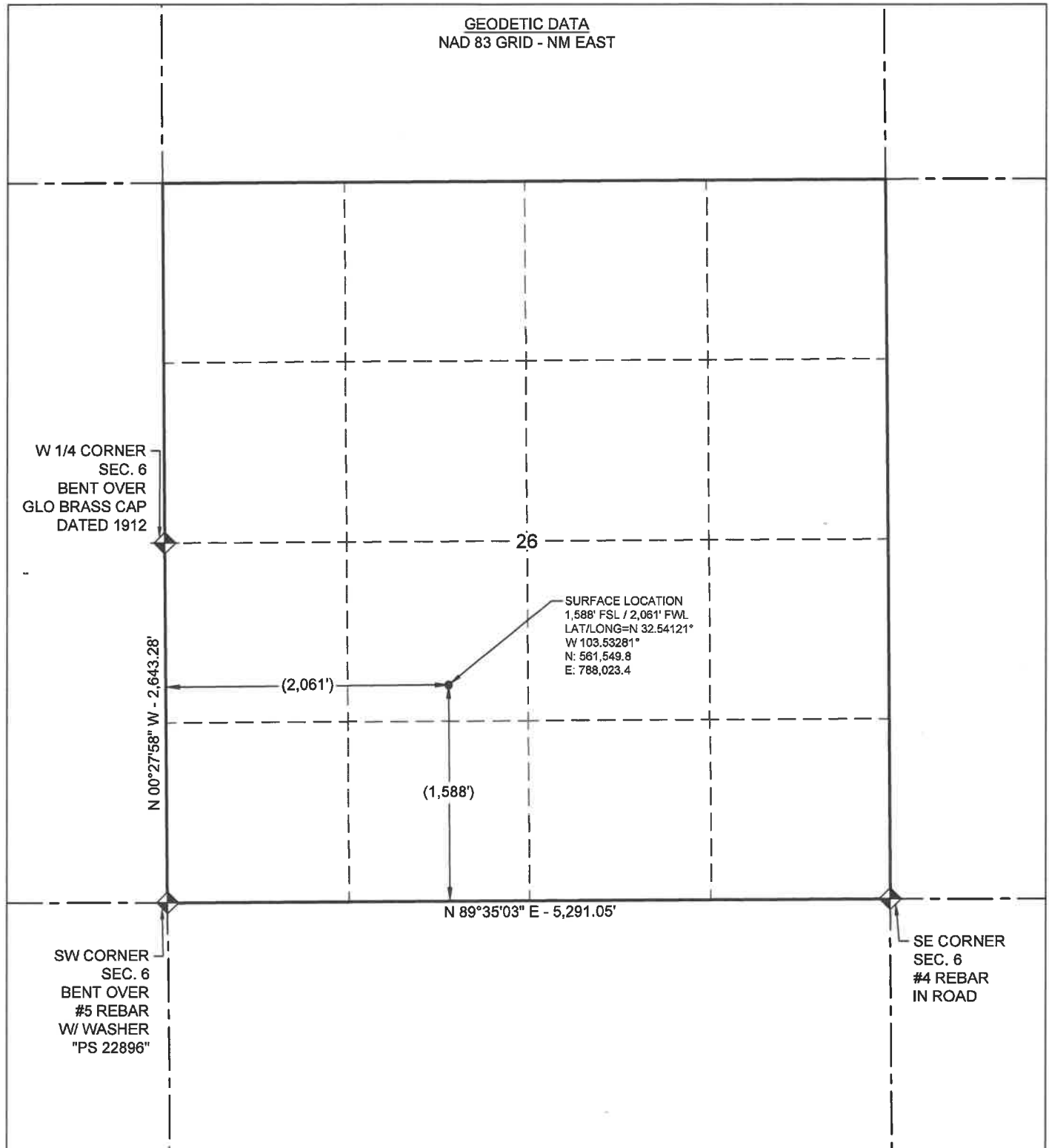
Santa Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116 Online Phone Directory Visit: https://www.emnrd.nm.gov/ocd/contact-us/		State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		C-102 Revised July 9, 2024 Submit Electronically via OCD Permitting					
		Submittal Type:		<input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled					
WELL LOCATION INFORMATION									
API Number		Pool Code 97834		Pool Name AGI: DEVONIAN-FUSSELMAN					
Property Code		Property Name LIBBY AGI			Well Number #1				
OGRID No. 372603		Operator Name DKL FIELD SERVICES, LLC			Ground Level Elevation 3,719.4'				
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal			Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal						
Surface Location									
UL	Section 26	Township 20	Range 34	Lot	Ft. from S 1,588'	Ft. from W 2,061'	Latitude N32.54121°	Longitude W103.53281°	County LEA
Bottom Hole Location									
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
Dedicated Acres		Infill or Defining Well		Defining Well API		Overlapping Spacing Unit (Y/N)		Consolidation Code	
Order Numbers.						Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Kick Off Point (KOP)									
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
First Take Point (FTP)									
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
Last Take Point (LTP)									
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
Unitized Area or Area of Uniform Interest		Spacing Unit Type <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical				Ground Floor Elevation:			
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.					SURVEYOR CERTIFICATIONS I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.				
Signature _____ Date _____					Signature and Seal of Professional Surveyor 				
Printed Name _____					22896 Certificate Number				
Email Address _____					11/12/2024 Date of Survey				


Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



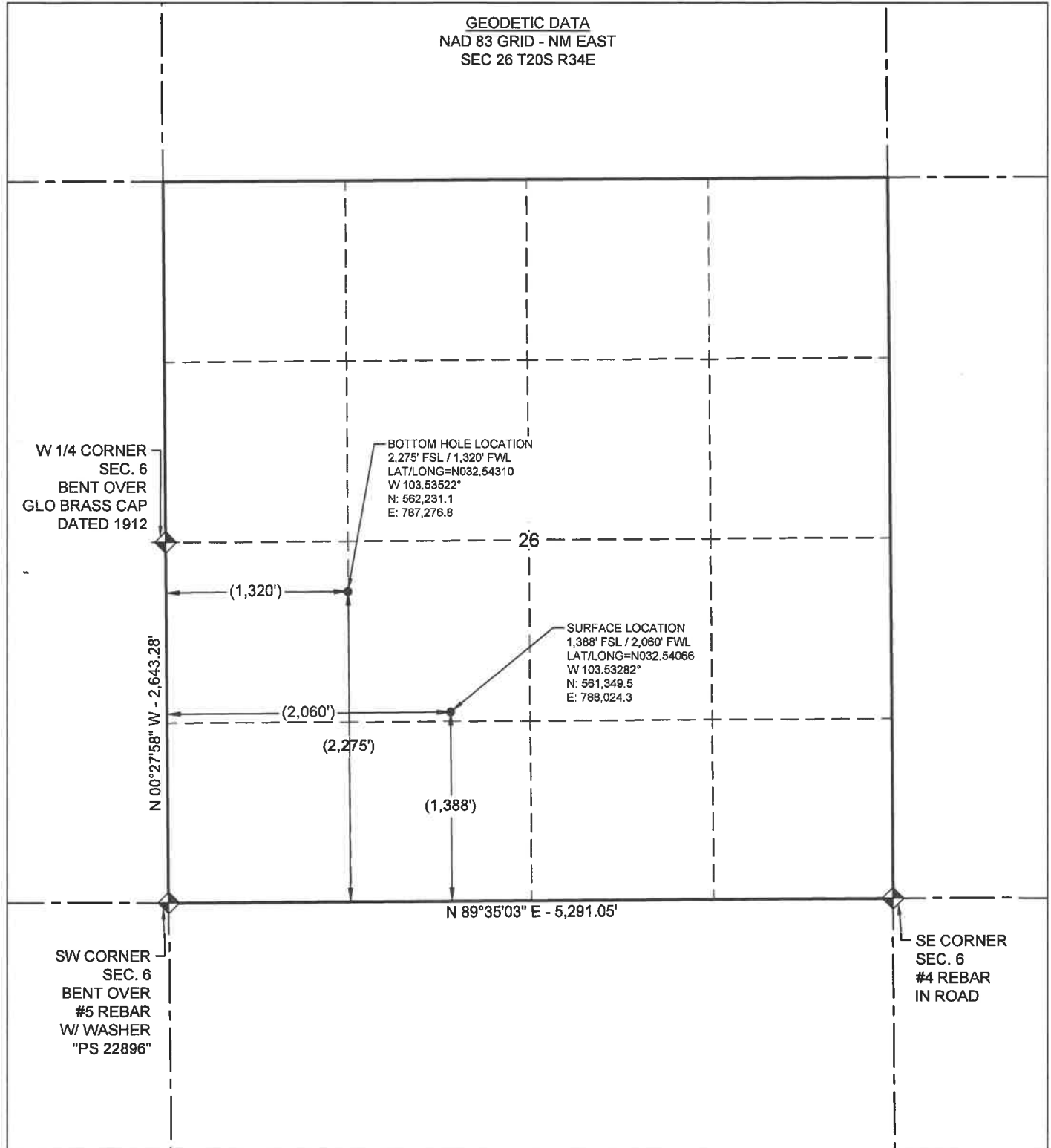
Santa Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116 Online Phone Directory Visit: https://www.emnrd.nm.gov/ocd/contact-us/		State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		C-102 Revised July 9, 2024 Submit Electronically via OCD Permitting					
		Submittal Type:		<input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled					
WELL LOCATION INFORMATION									
API Number		Pool Code 97834		Pool Name AGI: DEVONIAN-FUSSELMAN					
Property Code		Property Name LIBBY AGI			Well Number #2				
OGRID No. 372603		Operator Name DKL FIELD SERVICES, LLC			Ground Level Elevation 3,720.8'				
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal				Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal					
Surface Location									
UL	Section 26	Township 20	Range 34	Lot	Ft. from S 1,388'	Ft. from W 2,060'	Latitude N32.54066°	Longitude W103.53282°	County LEA
Bottom Hole Location									
UL	Section 26	Township 20	Range 34	Lot	Ft. from S 2,275'	Ft. from W 1,320'	Latitude N32.54310°	Longitude W103.53522°	County LEA
Dedicated Acres		Infill or Defining Well		Defining Well API		Overlapping Spacing Unit (Y/N)		Consolidation Code	
Order Numbers.						Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Kick Off Point (KOP)									
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
First Take Point (FTP)									
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
Last Take Point (LTP)									
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
Unitized Area or Area of Uniform Interest		Spacing Unit Type <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical				Ground Floor Elevation:			
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.					SURVEYOR CERTIFICATIONS I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.				
Signature _____ Date _____					Signature and Seal of Professional Surveyor 				
Printed Name _____					22896 Certificate Number		11/12/2020 Date of Survey		
Email Address _____									

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



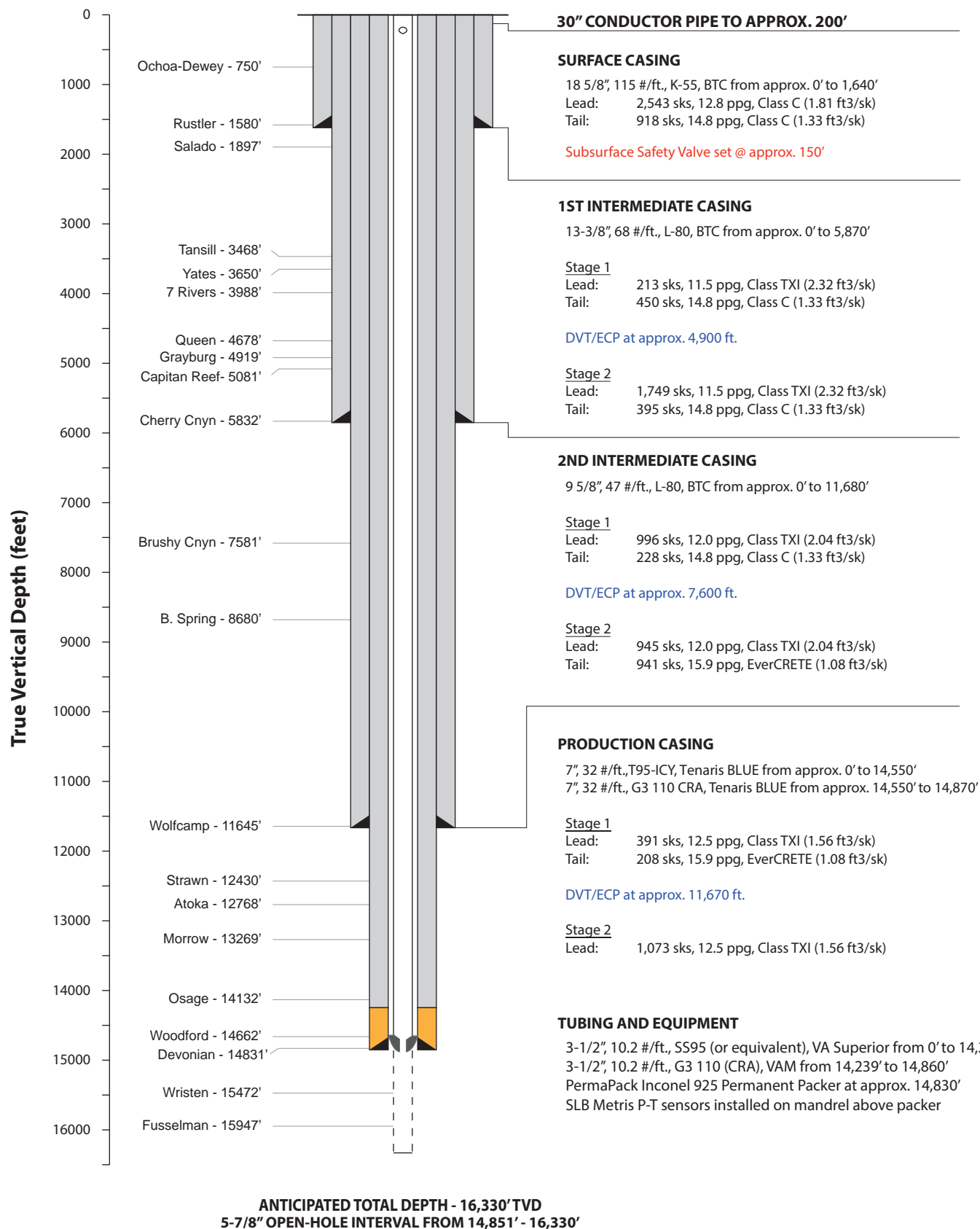


PRELIMINARY WELL SCHEMATIC

LIBBY AGI WELL #001

SEC 26 TWN 20S RNG 34E

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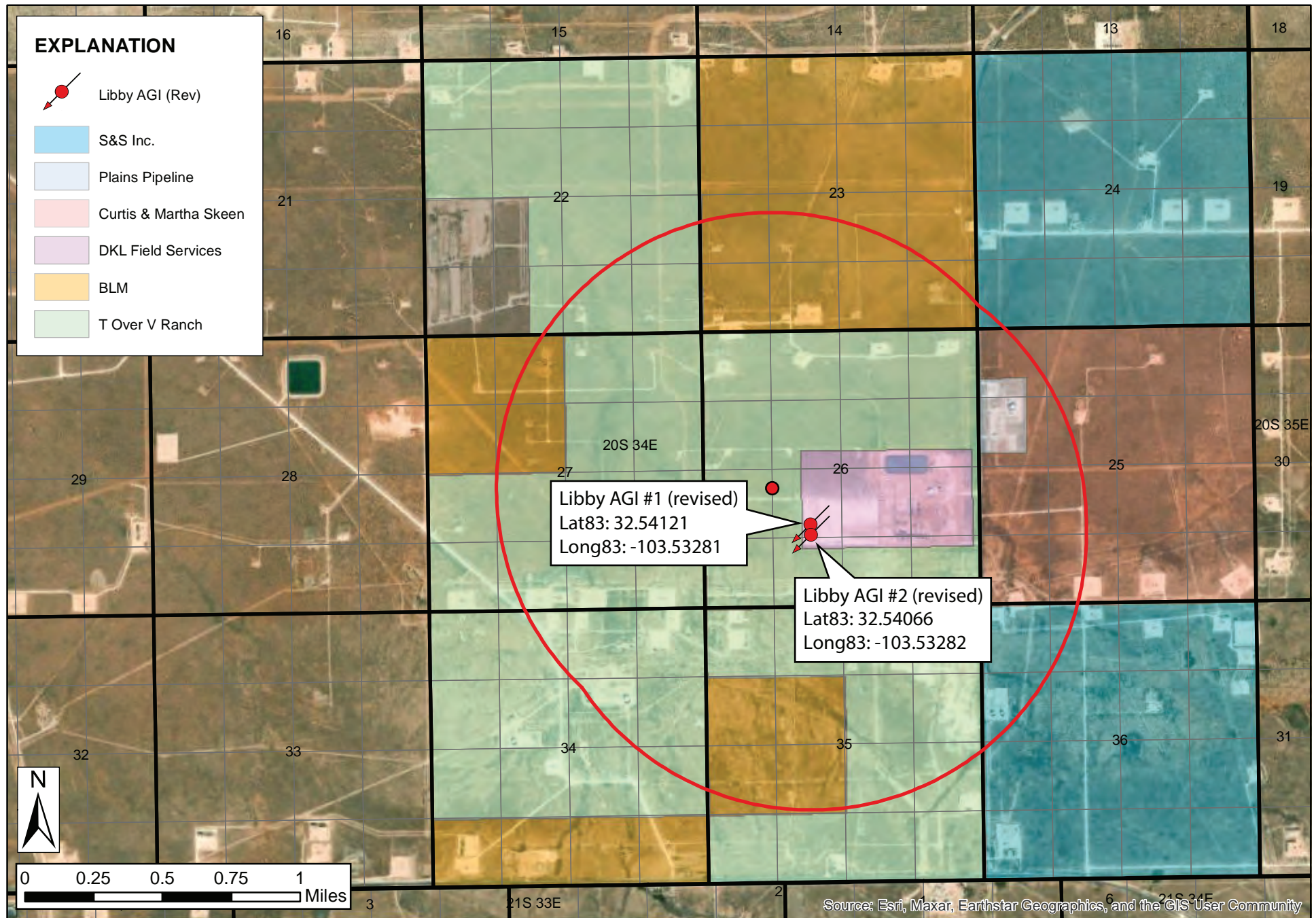
All depths are approximate and subject to change based on drilling and geology encountered

Revision 02/18/2025

ATTACHMENT 2

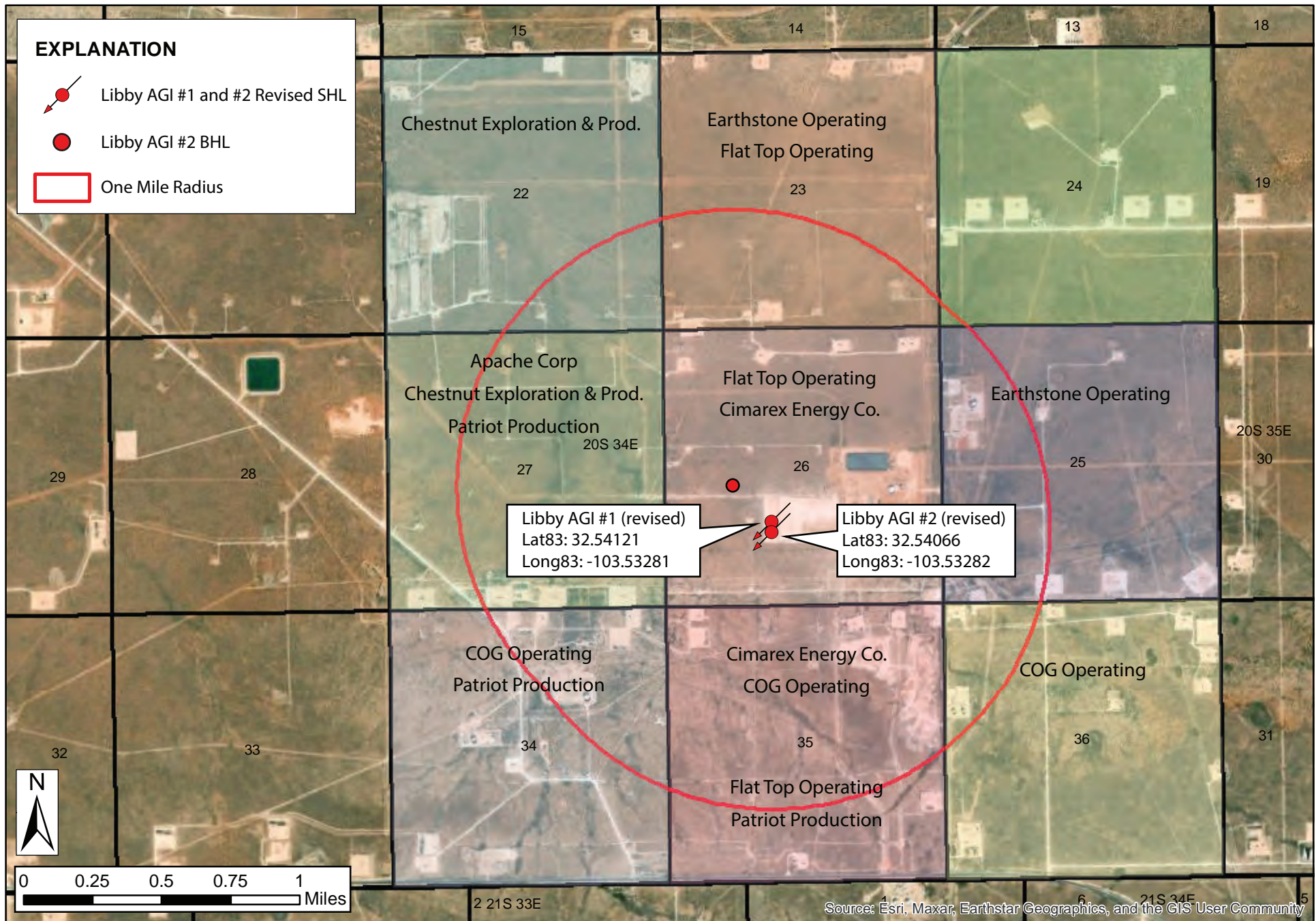
Location Maps Showing Surface Ownership and Active
Operations within One Mile of the Libby AGI Wells

Tabulated Summary of all Wells within Two Miles



Location map showing surface ownership within one mile of the revised Libby AGI well surface-hole locations. All owners have been previously provided notice in association with prior permitting and extension request processes.

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Location map showing operators of active wells within one mile of the Libby AGI #1 and AGI #2 wells. All active operators have been previously notified as part of the original C-108 application process, or as part of subsequent permit extension requests.

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ALL WELLS WITHIN TWO MILES OF THE LIBBY AGI #1, AGI #2, AND AGI #2 BOTTOM-HOLE LOCATION

API Number	Well Name	Well Type	Well Status	Operator Name	Latitude (NAD83)	Longitude (NAD83)	Vertical Depth (ft)	Associated Pools	Plug Date
30-025-02462	CRUCES FEDERAL #006	Oil	Active	Flat Top Operating, LLC	32.54136	-103.53409	3,700	LYNCH, YATES-SEVEN RIVERS	-
30-025-02454	HANSON B #002	Oil	Active	Flat Top Operating, LLC	32.54501	-103.5341	3,744	LYNCH, YATES-SEVEN RIVERS	-
30-025-02455	HANSON B #001	Oil	Active	Flat Top Operating, LLC	32.54501	-103.53794	3,767	LYNCH, YATES-SEVEN RIVERS	-
30-025-02458	CRUCES FEDERAL #002	Oil	Active	Flat Top Operating, LLC	32.54137	-103.53838	3,718	LYNCH, YATES-SEVEN RIVERS	-
30-025-02456	HANSON B #003	Oil	Plugged (site released)	HEXP Operating, LLC	32.54501	-103.52977	3,829	N/A	12/14/1959
30-025-02459	CRUCES FEDERAL #003	Injection	Active	Flat Top Operating, LLC	32.53774	-103.53407	3,730	LYNCH, YATES-SEVEN RIVERS	-
30-025-02463	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.54501	-103.54097	3,797	N/A	N/A
30-025-02457	CRUCES FEDERAL #001	Oil	Active	Flat Top Operating, LLC	32.53774	-103.53836	3,705	LYNCH, YATES-SEVEN RIVERS	-
30-025-02469	PRE-ONGARD WELL #003	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.54136	-103.54266	3,690	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-02460	CRUCES FEDERAL #004	Oil	Active	Flat Top Operating, LLC	32.53774	-103.52977	3,750	LYNCH, YATES-SEVEN RIVERS	-
30-025-44092	MAS FEDERAL COM #001H	Oil	Active	COG OPERATING LLC	32.53632	-103.53736	11,338	BERRY, BONE SPRING, NORTH; WC-025 G-08 S203435D, WOLFCAMP	-
30-025-02468	FLETCHER A DE FEDERAL #002	Oil	Plugged (site released)	MARATHON OIL PERMIAN LLC	32.53774	-103.5405	3,705	LYNCH, YATES-SEVEN RIVERS	7/26/2019
30-025-40327	HANSON 26 FEDERAL #001H	Oil	Active	CIMAREX ENERGY CO.	32.54955	-103.53804	11,186	LEA, BONE SPRING, SOUTH	-
30-025-40819	HANSON 26 FEDERAL COM #002	Oil	Active	CIMAREX ENERGY CO.	32.5499	-103.5332	11,112	LEA, BONE SPRING, SOUTH	-
30-025-20192	PRE-ONGARD WELL #002	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.55045	-103.53411	3,667	N/A	N/A
30-025-30471	FLETCHER A FED #001	Oil	Plugged (site released)	OLSEN ENERGY INC	32.53592	-103.5382	3,860	LYNCH, YATES-SEVEN RIVERS	11/19/1999
30-025-20183	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.55046	-103.5384	3,730	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-44045	BLACK & TAN 27 FEDERAL COM #308H	Oil	Active	APACHE CORPORATION	32.53744	-103.54191	11,125	LEA, BONE SPRING, SOUTH	-
30-025-46075	BLACK & TAN 27 FEDERAL COM #406H	Oil	Active	APACHE CORPORATION	32.53744	-103.54197	11,238	LEA, BONE SPRING, SOUTH; WC-025 G-08 S203435D, WOLFCAMP	-
30-025-44044	#307H	Oil	Active	APACHE CORPORATION	32.53744	-103.54204	11,086	LEA, BONE SPRING, SOUTH	-
30-025-46916	BLACK & TAN 27 FEDERAL COM #204H	Oil	Cancelled	APACHE CORPORATION	32.53744	-103.54217	0	N/A	-
30-025-23578	FEDERAL C #001	Oil	Plugged (site released)	ARLEN L EDGAR	32.53502	-103.533	14,939	LYNCH, YATES-SEVEN RIVERS	8/25/1989
30-025-02492	B V LYNCH A FEDERAL #012	Oil	Active	Patriot Production LLC	32.53592	-103.5405	3,694	LYNCH, YATES-SEVEN RIVERS	-
30-025-41700	LAGUNA 23 FEDERAL COM #004C	Oil	Cancelled	NEARBURG PRODUCING CO	32.5515	-103.53684	0	LEA, BONE SPRING, SOUTH	-
30-025-44214	MAS FEDERAL COM #002H	Oil	Active	COG OPERATING LLC	32.53632	-103.54164	11,415	WC-025 G-08 S203435D, WOLFCAMP	-
30-025-40697	LAGUNA 23 FEDERAL COM #002H	Oil	Active	Earthstone Operating, LLC	32.5515	-103.53743	11,079	LEA, BONE SPRING, SOUTH	-
30-025-02499	NEAL #001	Oil	Active	Flat Top Operating, LLC	32.53555	-103.52975	3,752	LYNCH, YATES-SEVEN RIVERS	-
30-025-46349	LAGUNA 23 2BS FEDERAL COM #004H	Oil	Active	Earthstone Operating, LLC	32.55151	-103.53783	10,540	LEA, BONE SPRING, SOUTH	-
30-025-02507	W H MILNER FEDERAL #004	Salt Water Disposal	Plugged (site released)	HEXP Operating, LLC	32.53411	-103.53407	3,850	SWD, YATES	2/7/2019

30-025-02503	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.53411	-103.53621	3,715	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-44288	LIBBY BERRY FEE SWD #001	Salt Water Disposal	Active	DKL Field Services, LLC	32.54446	-103.52463	16,000	SWD, MISS-DEVONIAN; SWD, DEVONIAN-SILURIAN	-
30-025-08459	FLETCHER A DE FEDERAL #004	Salt Water Disposal	Plugged (site released)	ARCO PERMIAN	32.54227	-103.54588	3,682	SWD, YATES-SEVEN RIVERS	12/18/1984
30-025-46394	LAGUNA 23 2BS FEDERAL COM #005H	Oil	Active	Earthstone Operating, LLC	32.552	-103.53284	10,525	LEA, BONE SPRING, SOUTH	-
30-025-20284	HANSON C #003	Oil	Active	Flat Top Operating, LLC	32.55227	-103.53412	3,702	LYNCH, YATES-SEVEN RIVERS	-
30-025-40637	HANSON 26 FEDERAL COM #003H	Oil	Active	CIMAREX ENERGY CO.	32.55045	-103.52831	11,141	LEA, BONE SPRING, SOUTH	-
30-025-40742	LAGUNA 23 FEDERAL COM #001H	Oil	Active	Earthstone Operating, LLC	32.55227	-103.53304	10,874	LEA, BONE SPRING, SOUTH	-
30-025-41946	LAGUNA 23 FEDERAL COM #003H	Oil	Active	Earthstone Operating, LLC	32.55227	-103.53256	9,620	LEA, BONE SPRING, SOUTH	-
30-025-40750	LYNCH 35 #002H	Oil	Active	CIMAREX ENERGY CO.	32.53583	-103.5276	11,316	BERRY, BONE SPRING, NORTH	-
30-025-02461	PRE-ONGARD WELL #005	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.53774	-103.52547	3,760	N/A	N/A
30-025-08465	KEOHANE A #001	Oil	Plugged (site released)	BURK ROYALTY CO., LTD.	32.53773	-103.54479	3,760	LYNCH, YATES-SEVEN RIVERS	7/23/2007
30-025-02467	BALLARD DE FEDERAL #004	Oil	Plugged (site released)	MARATHON OIL PERMIAN LLC	32.55045	-103.54268	3,690	LYNCH, YATES-SEVEN RIVERS	10/11/2018
30-025-02451	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.55227	-103.52979	3,601	N/A	N/A
30-025-08464	PRE-ONGARD WELL #002	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.53773	-103.54586	3,341	N/A	N/A
30-025-02501	NEAL #003	Salt Water Disposal	Active	Flat Top Operating, LLC	32.53592	-103.52547	3,805	SWD, YATES	-
30-025-46124	BLACK & TAN 27 FEDERAL COM #405H	Oil	Active	APACHE CORPORATION	32.53744	-103.54622	11,368	LEA, BONE SPRING, SOUTH; WC-025 G-08 S203435D, WOLFCAMP	-
30-025-43988	BLACK & TAN 27 FEDERAL COM #306C	Oil	Cancelled	APACHE CORPORATION	32.53744	-103.54622	0	LEA, BONE SPRING, SOUTH	-
30-025-43940	BLACK & TAN 27 FEDERAL COM #305H	Oil	Active	APACHE CORPORATION	32.53744	-103.54635	3,743	LEA, BONE SPRING, SOUTH	-
30-025-40825	LYNCH 35 #001H	Oil	Active	CIMAREX ENERGY CO.	32.53603	-103.52484	11,293	BERRY, BONE SPRING, NORTH	-
30-025-46915	BLACK & TAN 27 FEDERAL COM #203H	Oil	Cancelled	APACHE CORPORATION	32.53744	-103.54648	0	LEA, BONE SPRING, SOUTH	-
30-025-29669	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.54955	-103.52443	288	N/A	N/A
30-025-46074	BLACK & TAN 27 FEDERAL COM #404H	Oil	Cancelled	APACHE CORPORATION	32.53744	-103.54655	0	LEA, BONE SPRING, SOUTH	-
30-025-08462	PERRY FEDERAL #001	Oil	Plugged (site released)	MACK ENERGY CORP	32.55227	-103.54269	3,669	LYNCH, YATES-SEVEN RIVERS	2/12/1996
30-025-02500	NEAL #002	Oil	Plugged (site released)	HEXP Operating, LLC	32.5323	-103.52975	3,780	LYNCH, YATES-SEVEN RIVERS	6/18/1986
30-025-40804	HANSON 26 FEDERAL COM #004H	Oil	Active	CIMAREX ENERGY CO.	32.55045	-103.52443	11,185	LEA, BONE SPRING, SOUTH	-
30-025-41359	HANSON 26 FEDERAL COM #005H	Oil	Active	CIMAREX ENERGY CO.	32.55045	-103.52385	9,692	LEA, BONE SPRING, SOUTH	-

30-025-42950	MAS FEDERAL #003H	Oil	Active	COG OPERATING LLC	32.53632	-103.54699	11,318	BERRY, BONE SPRING, NORTH	-
30-025-02495	B V LYNCH A FEDERAL #003	Oil	Active	Patriot Production LLC	32.53501	-103.54585	3,745	LYNCH, YATES-SEVEN RIVERS	-
30-025-08460	D AND E FEDERAL #002	Oil	Active	CHESTNUT EXPLORATION AND PRODUCTION, INC.	32.55045	-103.54697	3,701	LYNCH, YATES-SEVEN RIVERS	-
30-025-02506	W H MILNER FEDERAL #003	Oil	Plugged (site released)	HEXP Operating, LLC	32.53048	-103.53406	3,723	LYNCH, YATES-SEVEN RIVERS	3/22/2019
30-025-02510	FEDERAL #001	Oil	Plugged (site released)	HUDSON OIL COMPANY OF TEXAS	32.53048	-103.5362	3,734	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-02496	PRE-ONGARD WELL #004	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.53138	-103.54156	3,797	N/A	N/A
30-025-02452	HANSON FEDERAL #001	Oil	Plugged (site released)	HEXP Operating, LLC	32.53774	-103.52118	3,864	N/A	10/30/1959
30-025-20559	HANSON C #004	Salt Water Disposal	Plugged (site released)	HEXP Operating, LLC	32.5559	-103.53413	3,642	SWD, YATES	8/29/2012
30-025-02464	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.54591	-103.55021	3,683	N/A	N/A
30-025-20157	HANSON C #002	Oil	Plugged (site released)	HEXP Operating, LLC	32.5559	-103.53841	3,672	N/A	N/A
30-025-43482	MAS FEDERAL #004H	Oil	Active	COG OPERATING LLC	32.53632	-103.54875	11,371	BERRY, BONE SPRING, NORTH; WC-025 G-08 S203429P, WOLFCAMP	-
30-025-29572	RETT FEDERAL COM #001Y	Oil	Plugged (site released)	NEARBURG PRODUCING CO	32.55317	-103.52477	13,700	LEA, BONE SPRING, SOUTH; LAGUNA VALLEY, MORROW (GAS)	9/6/2000
30-025-43996	BLACK & TAN 27 FEDERAL COM #304C	Oil	Cancelled	APACHE CORPORATION	32.53744	-103.54953	0	LEA, BONE SPRING, SOUTH	-
30-025-46123	BLACK & TAN 27 FEDERAL COM #403H	Oil	Active	APACHE CORPORATION	32.53744	-103.54953	11,372	LEA, BONE SPRING, SOUTH; WC-025 G-08 S203435D, WOLFCAMP	-
30-025-08461	B V LYNCH B FEDERAL #002	Oil	Active	Patriot Production LLC	32.53864	-103.55019	3,805	LYNCH, YATES-SEVEN RIVERS	-
30-025-43921	BLACK & TAN 27 FEDERAL COM #303H	Oil	Active	APACHE CORPORATION	32.53744	-103.54966	11,145	LEA, BONE SPRING, SOUTH	-
30-025-42037	STRATOSPHERE 36 STATE COM #006H	Oil	Active	COG OPERATING LLC	32.53631	-103.52118	11,393	BERRY, BONE SPRING, NORTH	-
30-025-20349	HANSON C #001	Oil	Plugged (site released)	HEXP Operating, LLC	32.55227	-103.52337	3,700	LYNCH, YATES-SEVEN RIVERS	7/17/2006
30-025-46864	BLACK & TAN 27 FEDERAL COM #202H	Oil	Cancelled	APACHE CORPORATION	32.53744	-103.54972	0	LEA, BONE SPRING, SOUTH	-
30-025-20818	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.55317	-103.52444	10,500	N/A	N/A
30-025-02502	NEAL #004	Oil	Active	Flat Top Operating, LLC	32.5323	-103.52515	3,822	LYNCH, YATES-SEVEN RIVERS	-
30-025-02449	R AND B FEDERAL #001	Oil	Active	CHESTNUT EXPLORATION AND PRODUCTION, INC.	32.55227	-103.54697	3,625	LYNCH, YATES-SEVEN RIVERS	-
30-025-46073	BLACK & TAN 27 FEDERAL COM #402H	Oil	Active	APACHE CORPORATION	32.53744	-103.54985	11,250	LEA, BONE SPRING, SOUTH; WC-025 G-08 S203435D, WOLFCAMP	-
30-025-02465	BALLARD DE FEDERAL #002	Oil	Plugged (site released)	MARATHON OIL PERMIAN LLC	32.55045	-103.54915	3,663	LYNCH, YATES-SEVEN RIVERS	1/9/2019
30-025-41367	LEA SOUTH 25 FEDERAL COM #005H	Oil	Active	Earthstone Operating, LLC	32.53699	-103.5201	11,251	LEA, BONE SPRING, SOUTH	-
30-025-49160	LEA SOUTH 25 FEDERAL COM 2BS #009H	Oil	New	Earthstone Operating, LLC	32.53701	-103.52009	0	LEA, BONE SPRING, SOUTH	-

30-025-02488	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.53048	-103.54263	3,772	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-41859	LEA SOUTH 25 FEDERAL COM #009C	Oil	Cancelled	NEARBURG PRODUCING CO	32.53709	-103.51963	0	LEA, BONE SPRING, SOUTH	-
30-025-02491	B V LYNCH A FEDERAL #011	Salt Water Disposal	Plugged (site released)	OLSEN ENERGY INC	32.53138	-103.54585	3,720	SWD, YATES-SEVEN RIVERS	3/9/1993
30-025-12580	B V LYNCH A FEDERAL #010	Salt Water Disposal	Active	Patriot Production LLC	32.53501	-103.55018	3,734	SWD, YATES-SEVEN RIVERS	-
30-025-02490	B V LYNCH A FEDERAL #009	Oil	Active	Patriot Production LLC	32.53229	-103.5491	3,690	LYNCH, YATES-SEVEN RIVERS	-
30-025-02505	W H MILNER FEDERAL #002	Oil	Plugged (site released)	HEXP Operating, LLC	32.52683	-103.53405	3,747	LYNCH, YATES-SEVEN RIVERS	3/15/2019
30-025-02509	B V LYNCH A FEDERAL #007	Oil	Active	Patriot Production LLC	32.52683	-103.53619	3,707	LYNCH, YATES-SEVEN RIVERS	-
30-025-02448	D AND E FEDERAL #001	Salt Water Disposal	Active	CHESTNUT EXPLORATION AND PRODUCTION, INC.	32.55317	-103.55022	3,703	SWD, SEVEN RIVERS	-
30-025-25566	FLETCHER FEDERAL #001	Oil	Active	HARVARD PETROLEUM COMPANY, LLC	32.54136	-103.55448	3,718	LYNCH, YATES-SEVEN RIVERS	-
30-025-02466	BALLARD DE FEDERAL #003	Salt Water Disposal	Plugged (site released)	MARATHON OIL PERMIAN LLC	32.54863	-103.55343	4,026	SWD, SEVEN RIVERS	10/15/2018
30-025-02512	PRE-ONGARD WELL #002	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.52851	-103.52544	3,825	N/A	N/A
30-025-20811	FEDERAL L #001	Salt Water Disposal	Plugged (site released)	Earthstone Operating, LLC	32.54682	-103.51585	14,700	LEA, BONE SPRING, SOUTH; LEA, PENN (GAS); SWD, YATES-SEVEN RIVERS; LAGUNA VALLEY, DELAWARE	8/2/2021
30-025-02511	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.52683	-103.52972	3,775	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-20071	GULF DE FEDERAL #001	Oil	Plugged (site released)	SUNDOWN ENERGY LP	32.53864	-103.55447	3,720	LYNCH, YATES-SEVEN RIVERS	10/10/2006
30-025-26164	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.53592	-103.5534	3,765	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-02489	B V LYNCH A FEDERAL #008	Salt Water Disposal	Plugged (site released)	OLSEN ENERGY INC	32.52684	-103.54155	3,759	LYNCH, YATES-SEVEN RIVERS; SWD, YATES-SEVEN RIVERS	7/16/2003
30-025-41898	LEA SOUTH 25 FEDERAL COM #006H	Oil	Active	Earthstone Operating, LLC	32.53774	-103.51582	11,174	LEA, BONE SPRING, SOUTH	-
30-025-27496	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.53139	-103.5201	3,878	N/A	11/24/1981
30-025-44018	BLACK & TAN 27 FEDERAL COM #302H	Oil	Plugged (site released)	APACHE CORPORATION	32.53745	-103.55436	11,097	LEA, BONE SPRING, SOUTH	8/3/2022
30-015-44442	NORTH SQUARE LAKE UNIT #209	Oil	Cancelled	Acacia Operating Company, LLC	32.52573	-103.53581	0	SQUARE LAKE, GRAYBURG-SAN ANDRES	-
30-025-44017	BLACK & TAN 27 FEDERAL COM #301H	Oil	Active	APACHE CORPORATION	32.53745	-103.55449	11,512	LEA, BONE SPRING, SOUTH	-
30-025-46914	BLACK & TAN 27 FEDERAL COM #201H	Oil	Cancelled	APACHE CORPORATION	32.53745	-103.55456	0	LEA, BONE SPRING, SOUTH	-
30-025-02487	KINNEY #001	Oil	Active	FULFER OIL & CATTLE LLC	32.53501	-103.55339	3,776	LYNCH, YATES-SEVEN RIVERS	-
30-025-43409	LEA SOUTH 25 FEDERAL COM 2BS #010H	Oil	Active	Earthstone Operating, LLC	32.53777	-103.51544	10,680	LEA, BONE SPRING, SOUTH	-
30-025-46072	BLACK & TAN 27 FEDERAL COM #401H	Oil	Active	APACHE CORPORATION	32.53746	-103.55469	11,383	LEA, BONE SPRING, SOUTH; WC-025 G-08 S203435D, WOLFCAMP	-
30-025-12550	B V LYNCH A FEDERAL #001	Oil	Active	Patriot Production LLC	32.52865	-103.54691	3,916	LYNCH, YATES-SEVEN RIVERS	-

30-025-02446	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.55589	-103.54916	3,763	LYNCH, YATES-SEVEN RIVERS, MIDDLE	N/A
30-025-02450	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.55771	-103.52338	3,736	N/A	N/A
30-025-02445	BALLARD DE FEDERAL #005	Oil	Plugged (site released)	MARATHON OIL PERMIAN LLC	32.55226	-103.55344	3,627	LYNCH, YATES-SEVEN RIVERS	2/28/2019
30-025-42036	STRATOSPHERE 36 STATE COM #005H	Oil	Active	COG OPERATING LLC	32.53631	-103.51511	11,443	BERRY, BONE SPRING, NORTH	-
30-025-21166	PRE-ONGARD WELL #001	Oil	Cancelled	PRE-ONGARD WELL OPERATOR	32.56045	-103.52878	0	N/A	-
30-025-41294	CHUKAR BTA FEDERAL COM #001C	Oil	Cancelled	EOG RESOURCES INC	32.53988	-103.55727	0	LEA, BONE SPRING, SOUTH	-
30-025-02508	B V LYNCH A FEDERAL #006	Oil	Plugged (site released)	OLSEN ENERGY INC	32.52411	-103.53832	3,726	LYNCH, YATES-SEVEN RIVERS	6/20/1995
30-025-41703	BERRY SWD #001	Salt Water Disposal	Active	DKL Field Services, LLC	32.52675	-103.52321	7,062	SWD, CHERRY CANYON; SWD, CHERRY CANYON-BRUSHY CANYON	-
30-025-42985	LEA UNIT #035H	Oil	Active	Avant Operating, LLC	32.5576	-103.51973	10,409	LEA, BONE SPRING	-
30-025-42986	LEA UNIT #039H	Oil	Active	Avant Operating, LLC	32.5576	-103.51957	9,583	LEA, BONE SPRING	-
30-025-02494	B V LYNCH A FEDERAL #002	Salt Water Disposal	Active	Patriot Production LLC	32.52411	-103.54153	4,200	LYNCH, YATES-SEVEN RIVERS; SWD, YATES-SEVEN RIVERS	-
30-025-02504	LYNCH A #001	Salt Water Disposal	Plugged (site released)	C W TRAINER	32.5232	-103.53404	3,805	SWD, YATES-SEVEN RIVERS	2/13/1995
30-025-02472	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.53773	-103.55769	3,840	N/A	N/A
30-015-44440	NORTH SQUARE LAKE UNIT #206	Oil	Cancelled	Acacia Operating Company, LLC	32.52312	-103.53348	0	SQUARE LAKE, GRAYBURG-SAN ANDRES	-
30-025-41644	LYNCH 35 FEDERAL COM #003H	Oil	Active	CIMAREX ENERGY CO.	32.52326	-103.53102	11,318	BERRY, BONE SPRING, NORTH	-
30-025-02473	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.54227	-103.55877	3,731	N/A	N/A
30-025-02498	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.53138	-103.55445	3,808	N/A	N/A
30-025-21346	BALLARD DE FEDERAL #006	Salt Water Disposal	Plugged (site released)	ARCO PERMIAN	32.55589	-103.55344	3,750	SWD, YATES	2/28/1980
30-025-52183	LEA SOUTH 25 FEDERAL COM 2BS #013H	Oil	New	Earthstone Operating, LLC	32.53789	-103.51193	0	LEA, BONE SPRING, SOUTH	-
30-025-43029	LEA SOUTH 25 FEDERAL COM 3BS #007H	Oil	Active	Earthstone Operating, LLC	32.53776	-103.5116	11,298	LEA, BONE SPRING, SOUTH	-
30-025-43076	LEA UNIT #036H	Oil	Active	Avant Operating, LLC	32.5576	-103.51736	10,418	LEA, BONE SPRING	-
30-025-02497	PRE-ONGARD WELL #005	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.52411	-103.54582	3,798	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-43036	LEA SOUTH 25 FEDERAL COM 1BS #011H	Oil	Active	Earthstone Operating, LLC	32.53776	-103.51111	9,702	LEA, BONE SPRING, SOUTH	-
30-025-44733	LEA UNIT #041H	Oil	Active	Avant Operating, LLC	32.5576	-103.5172	9,751	LEA, BONE SPRING	-
30-025-34574	PINON 33 FEDERAL #001	Oil	Cancelled	NEARBURG PRODUCING CO	32.53592	-103.55876	0	N/A	-
30-025-29518	FEDERAL LS #001	Oil	Temporary Abandonment	Earthstone Operating, LLC	32.54975	-103.51122	14,590	LEA, PENN (GAS); LAGUNA VALLEY, DELAWARE	-
30-025-29019	LYNCH 8212 JV-P #002	Gas	Plugged (site released)	BTA OIL PRODUCERS	32.5568	-103.51588	13,522	LEA, BONE SPRING, SOUTH; LEA, PENN (GAS)	9/17/1993

30-025-42035	STRATOSPHERE 36 STATE COM #004H	Oil	Active	COG OPERATING LLC	32.53551	-103.51151	11,484	BERRY, BONE SPRING, NORTH	-
30-025-02624	PRE-ONGARD WELL #004	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.52139	-103.53352	3,770	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-02471	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.54998	-103.55932	3,775	N/A	N/A
30-025-25904	WALLEN BASS #003	Oil	Reclamation Fund Approved	RHCJ ENTERPRISES, LLC	32.55317	-103.55772	3,681	LYNCH, YATES-SEVEN RIVERS, MIDDLE	-
30-025-02447	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.56408	-103.54165	3,815	N/A	N/A
30-025-45344	LIBBY BERRY FEE SWD #002	Salt Water Disposal	Active	DKL Field Services, LLC	32.56442	-103.54039	16,194	SWD, DEVONIAN-SILURIAN	-
30-015-44441	NORTH SQUARE LAKE UNIT #208	Oil	Cancelled	Acacia Operating Company, LLC	32.52507	-103.55042	0	SQUARE LAKE, GRAYBURG-SAN ANDRES	-
30-025-44189	OKEANOS SWD #001	Salt Water Disposal	Active	SOLARIS WATER MIDSTREAM, LLC	32.5245	-103.5207	0	SWD, DEVONIAN-SILURIAN	-
30-025-41605	PERRY 22 FEDERAL COM #001H	Oil	Active	CIMAREX ENERGY CO.	32.56497	-103.54057	11,073	LEA, BONE SPRING, SOUTH	-
30-025-41215	MARATHON ROAD 14 MD FEDERAL #001H	Oil	Active	MEWBOURNE OIL CO	32.56543	-103.53688	10,930	LEA, BONE SPRING	-
30-025-41185	LYNCH 23 FEDERAL COM #005C	Oil	Cancelled	CIMAREX ENERGY CO.	32.56498	-103.52956	0	LEA, BONE SPRING, SOUTH	-
30-025-40984	MARATHON ROAD 14 NC FEDERAL #001H	Oil	Active	MEWBOURNE OIL CO	32.56543	-103.53308	10,904	LEA, BONE SPRING	-
30-025-02493	PRE-ONGARD WELL #002	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.55317	-103.55879	3,703	N/A	N/A
30-025-36211	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.52048	-103.53674	3,771	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-23653	PRE-ONGARD WELL #006	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.52048	-103.53729	3,779	N/A	N/A
30-025-40115	LYNCH 23 FEDERAL COM #001H	Oil	Active	CIMAREX ENERGY CO.	32.56498	-103.52827	11,056	LEA, BONE SPRING, SOUTH	-
30-025-31441	SILVER FEDERAL #002	Oil	Active	MULLOY OPERATING, INC.	32.54095	-103.56181	3,684	LYNCH, YATES-SEVEN RIVERS	-
30-025-40726	LYNCH 23 FEDERAL COM #004	Oil	Active	CIMAREX ENERGY CO.	32.56499	-103.52794	9,619	LEA, BONE SPRING, SOUTH	-
30-025-02632	PRE-ONGARD WELL #002	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.52139	-103.54429	3,780	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-02636	PRE-ONGARD WELL #003	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.52048	-103.54102	3,738	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-31183	ALINE 9012 JVP #001	Oil	Active	BTA OIL PRODUCERS, LLC	32.53139	-103.51149	13,760	BERRY, BONE SPRING, NORTH; LAGUNA VALLEY, MORROW (GAS)	-
30-025-01777	PRE-ONGARD WELL #005	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.51957	-103.53567	3,753	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-02627	PRE-ONGARD WELL #002	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.51955	-103.53352	3,763	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-02474	SILVER FEDERAL #001	Oil	Active	MULLOY OPERATING, INC.	32.54227	-103.56305	3,720	LYNCH, YATES-SEVEN RIVERS	-
30-025-40123	LYNCH 23 FEDERAL COM #002H	Oil	Active	CIMAREX ENERGY CO.	32.56498	-103.52448	11,045	LEA, BONE SPRING, SOUTH	-
30-025-50080	PERRY 22 FEDERAL COM #015H	Oil	New	CIMAREX ENERGY CO.	32.56498	-103.54575	0	LEA, BONE SPRING, SOUTH	-

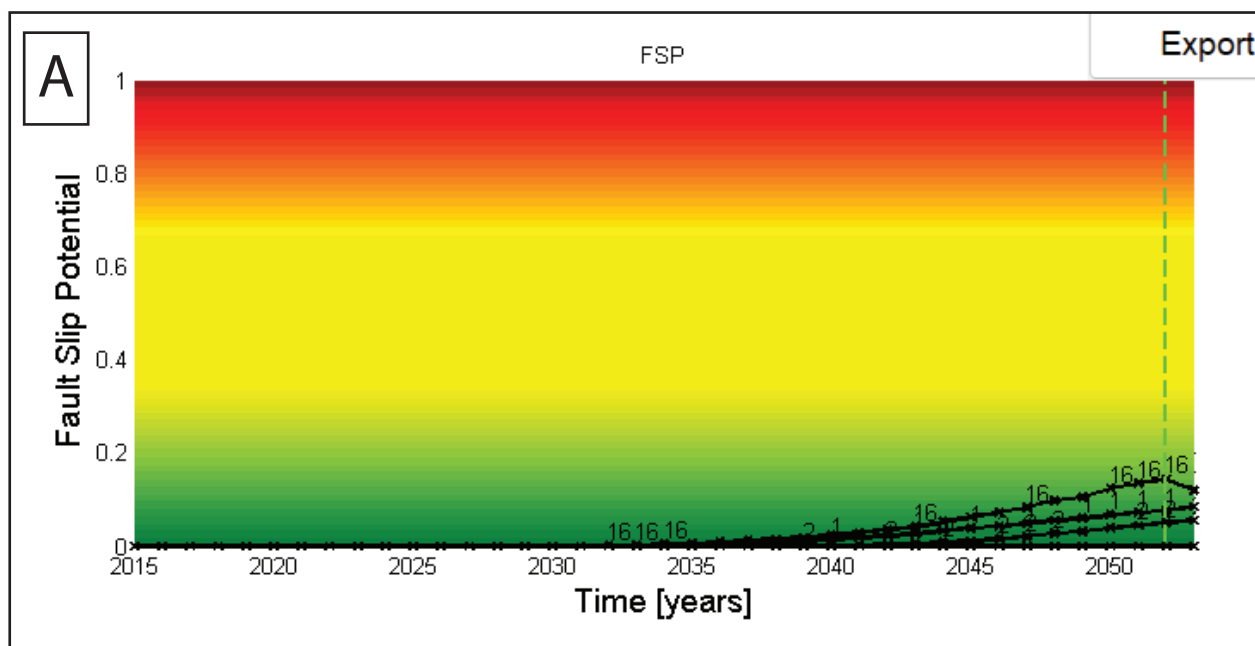
30-025-44475	DELLA 29 FEDERAL #604H	Oil	Active	EOG RESOURCES INC	32.5375	-103.56238	11,173	LEA, BONE SPRING, SOUTH	-
30-025-02453	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.54591	-103.50725	3,825	N/A	N/A
30-025-50175	PERRY 22 FEDERAL COM #016H	Oil	New	CIMAREX ENERGY CO.	32.56498	-103.54588	0	LEA, BONE SPRING, SOUTH	-
30-025-02626	PRE-ONGARD WELL #003	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.51957	-103.53015	3,827	N/A	N/A
30-025-02470	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.54552	-103.56306	3,846	N/A	N/A
30-025-40724	LYNCH 23 FEDERAL COM #003H	Oil	Active	CIMAREX ENERGY CO.	32.56505	-103.52415	10,486	LEA, BONE SPRING, SOUTH	-
30-025-40672	MARATHON ROAD 14 FEDERAL #003H	Oil	New	MEWBOURNE OIL CO	32.56652	-103.52932	0	LEA, BONE SPRING	-
30-025-02476	SILVER FEDERAL #004	Salt Water Disposal	Active	MULLOY OPERATING, INC.	32.53864	-103.56304	3,787	SWD, YATES-SEVEN RIVERS	-
30-025-41606	PERRY 22 FEDERAL COM #002C	Oil	Cancelled	CIMAREX ENERGY CO.	32.56533	-103.54594	0	LEA, BONE SPRING, SOUTH	-
30-025-41195	LYNCH 23 FEDERAL COM #006H	Oil	Active	CIMAREX ENERGY CO.	32.56509	-103.52358	9,606	LEA, BONE SPRING, SOUTH	-
30-025-41166	LYNCH 23 FEDERAL COM #006A	Oil	Cancelled	CIMAREX ENERGY CO.	32.5651	-103.52359	0	LEA, BONE SPRING, SOUTH	-
30-025-41575	MARATHON ROAD 15 PA FEDERAL #001H	Oil	Active	MEWBOURNE OIL CO	32.56672	-103.54058	7,269	LEA, BONE SPRING	-
30-025-28743	LYNCH 8212 JV-P #001	Gas	Active	CAZA OPERATING, LLC	32.5568	-103.51157	13,500	LEA, BONE SPRING, SOUTH; LEA, PENN (GAS)	-
30-025-40723	LEA SOUTH 25 FEDERAL #001C	Oil	Cancelled	NEARBURG PRODUCING CO	32.54136	-103.50616	0	LEA, BONE SPRING, SOUTH	-
30-025-43057	LEA SOUTH 25 FEDERAL #008	Oil	Temporary Abandonment	Earthstone Operating, LLC	32.53777	-103.50676	11,652	LEA, BONE SPRING, SOUTH	-
30-025-28785	LYNCH #001	Oil	Plugged (site released)	C W TRAINER	32.5187	-103.5395	5,918	LYNCH, YATES-SEVEN RIVERS	1/13/1995
30-025-42034	STRATOSPHERE 36 STATE COM #003H	Oil	Active	COG OPERATING LLC	32.53578	-103.50723	11,557	BERRY, BONE SPRING, NORTH	-
30-025-26288	WALLEN BASS #004	Oil	Active	RHCJ ENTERPRISES, LLC	32.55317	-103.562	3,669	LYNCH, YATES-SEVEN RIVERS, MIDDLE	-
30-025-26952	WEST LYNCH DEEP UNIT #001	Gas	Plugged (site released)	EOG Y RESOURCES, INC.	32.53864	-103.56411	13,875	LYNCH, MORROW, WEST (GAS)	1/13/2010
30-025-43110	LEA SOUTH 25 FEDERAL COM WCA #012H	Oil	Active	Earthstone Operating, LLC	32.53777	-103.50627	11,466	LEA, BONE SPRING, SOUTH; WC-025 G-10 S213335I, PERMO UPR PENN; WC-025 G-08 S203435D, WOLFCAMP	-
30-025-52184	LEA SOUTH 25 FEDERAL COM 2BS #014H	Oil	New	Earthstone Operating, LLC	32.53795	-103.50603	0	LEA, BONE SPRING, SOUTH	-
30-025-39077	LEA FEDERAL UNIT TR #029	Gas	Plugged (site released)	Avant Operating, LLC	32.56229	-103.516	13,462	LEA, BONE SPRING; LEA, PENN (GAS)	7/12/2023
30-025-02435	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.56771	-103.52877	4,145	N/A	N/A
30-025-41090	LEA SOUTH 25 FEDERAL #002H	Oil	New	Earthstone Operating, LLC	32.53864	-103.50558	0	LEA, BONE SPRING, SOUTH	-
30-025-45098	LITTLE BEAR FEDERAL COM #001H	Oil	Active	COG OPERATING LLC	32.52339	-103.5544	11,319	BERRY, BONE SPRING, NORTH	-

30-025-43895	LEA SOUTH 25 FEDERAL COM #001C	Oil	Cancelled	Earthstone Operating, LLC	32.55056	-103.50624	0	LEA, BONE SPRING, SOUTH	-
30-025-02486	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.53592	-103.5641	3,777	N/A	N/A
30-025-40671	MARATHON ROAD 14 FEDERAL #002H	Oil	Cancelled	MEWBOURNE OIL CO	32.5668	-103.524	0	LEA, BONE SPRING	-
30-025-20617	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.5577	-103.55988	3,750	N/A	N/A
30-025-41945	MARATHON ROAD 15 B3OB FEDERAL #001H	Oil	Active	MEWBOURNE OIL CO	32.5663	-103.54798	10,927	LEA, BONE SPRING	-
30-025-41607	PERRY 22 FEDERAL COM #003C	Oil	Cancelled	CIMAREX ENERGY CO.	32.56531	-103.55025	0	LEA, BONE SPRING, SOUTH	-
30-025-43092	LEA UNIT #037H	Oil	Active	Avant Operating, LLC	32.55761	-103.50997	10,434	LEA, BONE SPRING	-
30-025-45102	LITTLE BEAR FEDERAL COM #006H	Oil	Active	COG OPERATING LLC	32.52339	-103.55499	11,553	WC-025 G-08 S203435D, WOLFCAMP	-
30-025-44354	LEA UNIT #042H	Oil	Active	Avant Operating, LLC	32.5576	-103.50981	9,585	LEA, BONE SPRING	-
30-025-50081	PERRY 22 FEDERAL COM #029H	Oil	New	CIMAREX ENERGY CO.	32.56475	-103.55179	0	LEA, BONE SPRING, SOUTH	-
30-025-24700	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.56316	-103.55453	3,680	N/A	N/A
30-025-45154	LEA UNIT #066H	Oil	Active	Avant Operating, LLC	32.5576	-103.50965	10,943	LEA, BONE SPRING	-
30-025-34627	GOB 33 FEDERAL #001	Oil	Plugged (site released)	OGS OPERATING CO INC	32.53229	-103.56335	3,874	N/A	7/21/1999
30-025-40694	CHIEF 30 STATE #002H	Oil	Active	CIMAREX ENERGY CO.	32.542	-103.50413	10,796	BERRY, BONE SPRING, NORTH	-
30-025-42771	ALINE 9012 JVP #002	Oil	Active	BTA OIL PRODUCERS, LLC	32.53395	-103.50583	11,488	BERRY, BONE SPRING, NORTH	-
30-025-02633	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.51776	-103.54428	3,807	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-40872	CHIEF 30 STATE #003H	Oil	Active	CIMAREX ENERGY CO.	32.54591	-103.50407	10,897	BERRY, BONE SPRING, NORTH	-
30-025-29381	LEA UNIT #013	Oil	Active	Avant Operating, LLC	32.56044	-103.51158	13,500	LEA, BONE SPRING, SOUTH	-
30-025-02625	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.51648	-103.53352	3,772	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-01776	PRE-ONGARD WELL #004	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.51685	-103.54102	3,785	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-43195	ALINE 9012 JVP #003	Oil	Active	BTA OIL PRODUCERS, LLC	32.53232	-103.50625	11,493	BERRY, BONE SPRING, NORTH	-
30-025-40406	CHIEF 30 STATE #001H	Oil	Active	CIMAREX ENERGY CO.	32.53864	-103.50402	10,845	BERRY, BONE SPRING, NORTH	-
30-025-02619	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.51776	-103.5249	3,960	N/A	N/A
30-025-39546	MARATHON ROAD 14 FEDERAL #001	Gas	Active	MEWBOURNE OIL CO	32.56861	-103.52556	13,400	LEA, PENN (GAS)	-
30-025-42201	MARATHON ROAD 15 NC FEDERAL #001H	Oil	Active	MEWBOURNE OIL CO	32.56638	-103.55081	10,914	LEA, BONE SPRING	-
30-025-41066	CHIEF 30 STATE #004H	Oil	Active	CIMAREX ENERGY CO.	32.54954	-103.50408	10,979	BERRY, BONE SPRING, NORTH	-
30-025-02620	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.51594	-103.53352	3,790	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-02634	PRE-ONGARD WELL #002	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.51595	-103.53781	3,769	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-40906	CHIEF 30 STATE #005	Oil	Plugged (not released)	CIMAREX ENERGY CO.	32.53892	-103.50337	11,395	BERRY, BONE SPRING, NORTH	12/22/2020

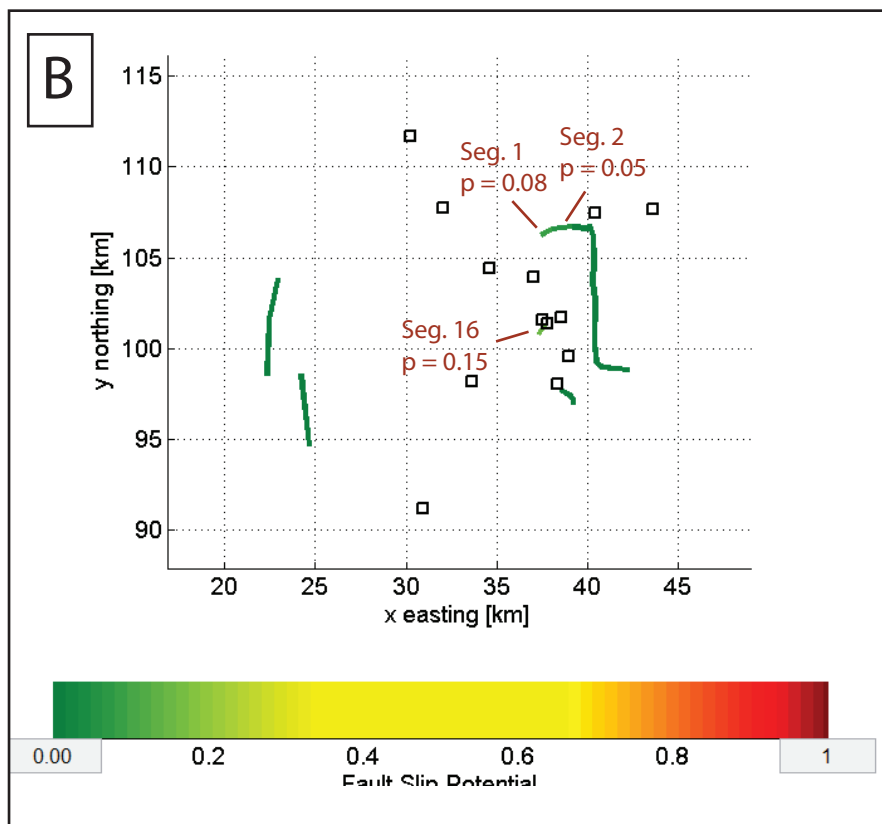
30-025-41608	PERRY 22 FEDERAL COM #004H	Oil	Active	CIMAREX ENERGY CO.	32.56413	-103.55543	11,260	LEA, BONE SPRING, SOUTH; WC-025 G-08 S203435D, WOLFCAMP	-
30-025-43292	CHIEF 30 STATE #006	Oil	Plugged (not released)	CIMAREX ENERGY CO.	32.54331	-103.50256	11,650	BERRY, BONE SPRING, NORTH	11/18/2020
30-025-02475	SILVER FEDERAL #003	Oil	Active	MULLOY OPERATING, INC.	32.53954	-103.56738	3,693	LYNCH, YATES-SEVEN RIVERS	-
30-025-43077	LEA UNIT #038H	Oil	Active	Avant Operating, LLC	32.55761	-103.50732	11,026	LEA, BONE SPRING	-
30-025-02433	PRE-ONGARD WELL #003	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.57073	-103.53381	3,708	N/A	N/A
30-025-43093	LEA UNIT #040H	Oil	Active	Avant Operating, LLC	32.55761	-103.50715	10,430	LEA, BONE SPRING	-
30-025-45149	LITTLE BEAR FEDERAL COM #002H	Oil	Active	COG OPERATING LLC	32.52344	-103.55847	11,266	BERRY, BONE SPRING, NORTH	-
30-025-44329	LEA UNIT #043H	Oil	Active	Avant Operating, LLC	32.5576	-103.50699	9,590	LEA, BONE SPRING	-
30-025-26458	WALLEN BASS #002	Salt Water Disposal	Active	RHCJ ENTERPRISES, LLC	32.55317	-103.56635	3,707	LYNCH, YATES-SEVEN RIVERS, MIDDLE; SWD, YATES-SEVEN RIVERS	-
30-025-40055	LUCY FEDERAL #002	Oil	Active	3R Operating, LLC	32.57134	-103.53845	3,860	LEA, YATES	-
30-025-40471	IGLOO BRR STATE #001C	Oil	Cancelled	CAZA OPERATING, LLC	32.55164	-103.50298	0	LEA, BONE SPRING, SOUTH	-
30-025-43375	MARATHON ROAD 15 B3LD FEDERAL #001H	Oil	Cancelled	MEWBORNE OIL CO	32.56627	-103.55504	0	LEA, BONE SPRING	-
30-025-42361	IGLOO 19 STATE #007C	Oil	Cancelled	CAZA OPERATING, LLC	32.55192	-103.50268	0	LEA, BONE SPRING, SOUTH	-
30-025-02436	HANSON A FEDERAL #001	Oil	Plugged (site released)	PIONEER NATURAL RESOURCES USA INC	32.57133	-103.54166	3,768	LEA, YATES	8/9/1990
30-025-02629	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.51412	-103.53567	3,755	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-22907	PRE-ONGARD WELL #001	Gas	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.57133	-103.5283	14,546	LEA, PENN (GAS)	N/A
30-025-02622	PRE-ONGARD WELL #001	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.51412	-103.53353	3,783	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-08343	PRE-ONGARD WELL #002	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.51412	-103.53781	3,764	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-40618	STRATOSPHERE 36 STATE #001H	Oil	Active	COG OPERATING LLC	32.52774	-103.50522	10,672	BERRY, BONE SPRING, NORTH	-
30-025-40302	LIGHTNING P-38 STATE #002H	Oil	Active	COG OPERATING LLC	32.51685	-103.51848	11,498	BERRY, BONE SPRING, NORTH	-
30-025-42380	IGLOO 19 STATE #008C	Oil	Cancelled	CAZA OPERATING, LLC	32.55192	-103.50203	0	LEA, BONE SPRING, SOUTH	-
30-025-02635	PRE-ONGARD WELL #004	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.51323	-103.54102	3,788	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-02623	PRE-ONGARD WELL #002	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.51231	-103.53353	3,817	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-02631	PRE-ONGARD WELL #003	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.51231	-103.53568	3,780	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-02628	PRE-ONGARD WELL #001Y	Oil	Plugged (site released)	PRE-ONGARD WELL OPERATOR	32.5123	-103.536	3,753	LYNCH, YATES-SEVEN RIVERS	N/A
30-025-41634	STRATOSPHERE 36 STATE #002C	Oil	Cancelled	COG OPERATING LLC	32.5232	-103.50566	0	BERRY, BONE SPRING, NORTH	-

ATTACHMENT 3

Updates to Induced Seismicity Risk Assessment



Panel A. Fault slip probability throughout the entire simulated injection period. Compared to previous modeling investigations (i.e., during initial permitting), slip probability risk is lessened due to previous SWD well applications no longer being pursued.



Fault Slip Potential

Fault Selector:

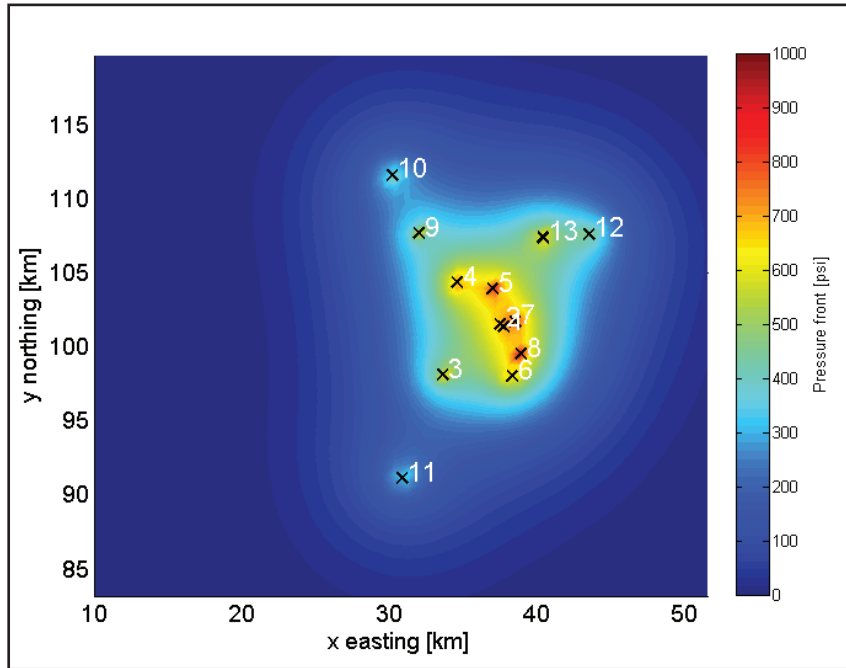
All Faults	
Fault #1,	0.08 FSP
Fault #2,	0.05 FSP
Fault #3,	0.00 FSP
Fault #4,	0.00 FSP
Fault #5,	0.00 FSP
Fault #6,	0.00 FSP
Fault #7,	0.00 FSP
Fault #8,	0.00 FSP
Fault #9,	0.00 FSP
Fault #10,	0.00 FSP
Fault #11,	0.00 FSP
Fault #12,	0.00 FSP
Fault #13,	0.00 FSP
Fault #14,	0.00 FSP
Fault #15,	0.00 FSP
Fault #16,	0.15 FSP
Fault #17,	0.00 FSP
Fault #18,	0.00 FSP
Fault #19,	0.00 FSP

Panels B and C. Map view illustrating model-estimated slip potential of faults within the project area (B) and a tabulated summary of model-predicted slip probability for all model fault segments (C).

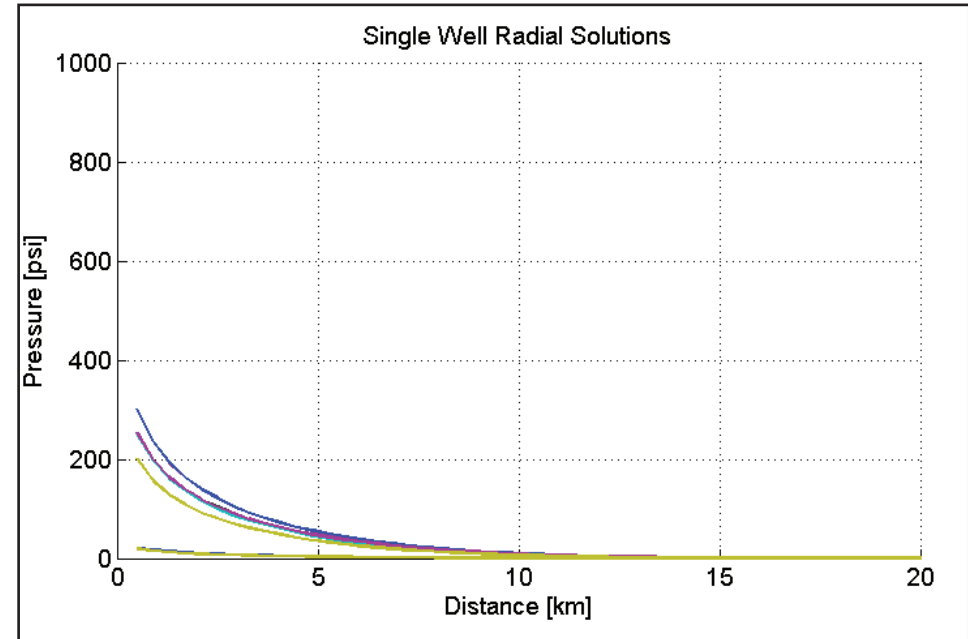


Summary of Model-Predicted Pressure Effects in Response to Simulated Scenario Injection Well Scenario

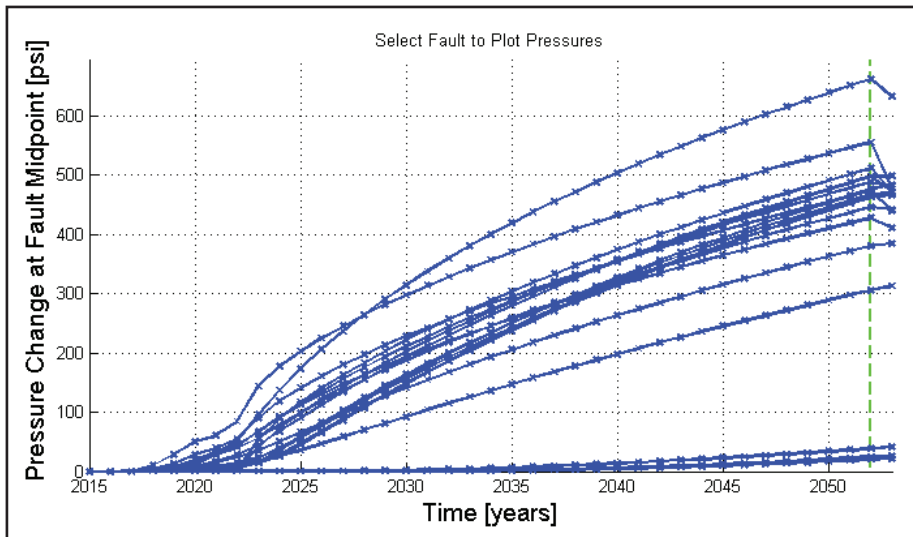
GEOLEX
INCORPORATED



Panel A. Resultant pressure front after 30 years of injection operations at the maximum anticipated rates, as reported in NMOCD records.



Panel B. Single well radial solutions, as determined by the FSP model.



Panel C. Model-predicted pressure change through time at the midpoint of each fault segment included in the simulation

Injection Wells Considered by Simulation:

Lease Name:	API #:	Volume (bbls/day)
Libby AGI #1	TBD	3800
Libby AGI #2	TBD	3800
Corazon 4 St. SWD #2	30-025-42527	25000
Quail 16 St. SWD #9	30-025-43422	30000
Libby Berry Fee SWD #2	30-025-45344	25000
Lightning 1 St. SWD #2	30-025-43474	25000
Libby Berry Fee SWD #1	30-025-44288	25000
Okeanos SWD #1	30-025-44189	25000
Smith Ranch SWD #1	30-025-42974	20000
Smith Ranch SWD #2	30-025-45470	25000
Dagger St. SWD #1	30-025-45815	25000
Klein 4 SWD #1	30-025-46747	25000
Klein 6 SWD #1	TBD	30000



Delek Logistic Partners, LP
DKL Field Services, LLC
AGI Well Update for NMOCD

February 20, 2025



AGI well Updates for NMOCD:

Agenda

- Attendees and Introductions
- DKL Growth Story
 - ☐ Inorganic Growth
 - ☐ Organic Growth
- Request for Extension to Inject
 - ☐ Authorization to Inject Timelines
 - ☐ Project & Supply Chain Timelines
- Request for Design Changes
 - ☐ Inward Change to Surface Location
 - ☐ Improvements to Design
- Deliverables to NMOCD
 - ☐ DKL Field Services, LLC
 - ☐ Geolex
- Timing for NMOCD Response



AGU well Updates for NMOCD:

Introductions

➤ Attendees and Introductions

☐ NMOCD

☐ Geolex

✓ David White

☐ DRC

✓ David Catanach

☐ DKL

✓ Michael Odigie, SVP, Operations (joined DKL in 2018)

- BS in Eng, Materials & Metallurgical Engineering as well as a PhD in Quality Systems (Technology Management)
- Licensed & certified in 10+ areas (Including Texas Board of Professional Engineers)

✓ Harry Lewis; Sr. Director, EHS (joined DKL in 2019)

- BS in Chemistry
- 25 years experience in Midstream, Downstream, and Specialty Chemicals/Petrochemical industries



AGI well Updates for NMOCD:

DKL Story - Before Entry into NM

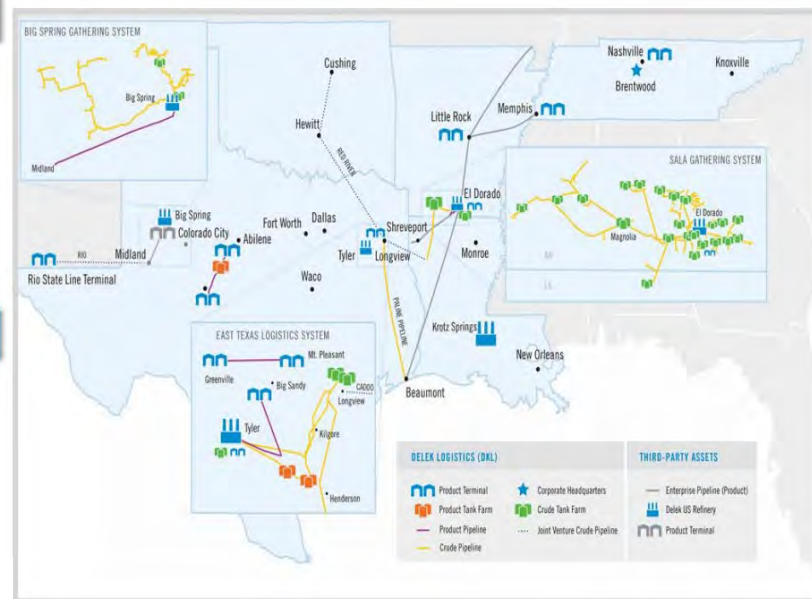
- New company in 2012
- Majority owned by Delek US
- Separately Publicly Traded on NYSE as DKL
- Consistently strong return
- Crude oil pipelines and bulk fuel terminals < 2022

Pipelines/Transportation Segment

- ~805 miles⁽¹⁾ of crude and product transportation pipelines, including the 195-mile crude oil pipeline from Longview to Nederland, TX
- ~600-mile crude oil gathering system in AR
- ~200-mile Gathering System in the Midland Basin
- Storage facilities with 10 million barrels of shell capacity
- Rail offloading facilities

Wholesale/Terminalling Segment

- Wholesale and Marketing business in West Texas
- 10 light product terminals in TX, TN, AR
- Approx. 1.4 million barrels of shell capacity



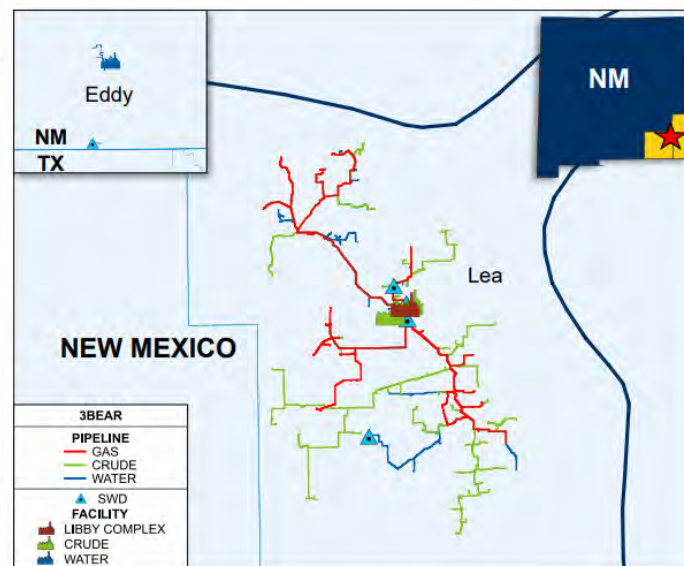
AGI well Updates for NMOCD:

DKL Story - Entry into NM

- Diversify Midstream O&G Operations
- Acquisition of 3 Bear in Jun 2022

Asset Overview	
<input type="checkbox"/>	3Bear Delaware Holding - NM, LLC ("3Bear") is a premier, three-stream midstream business located in the core of Northern Delaware Basin (Lea & Eddy County, New Mexico)
<input type="checkbox"/>	Integrated crude, gas, and water infrastructure
<input type="checkbox"/>	Anchored by a diversified, high-quality customer base with ~350,000 dedicated acres
<input type="checkbox"/>	Activity underpinned by producer development capital and 100% fixed-fee contracts
<input type="checkbox"/>	Connectivity to multiple 3 rd party oil, gas, and NGL downstream interconnects offering customers access to key USGC markets

Key Statistics			
	Gas Gathering & Processing	Crude Gathering & Storage	Water Gathering & Disposal
Dedicated Acreage	57,600	160,160	132,480
Avg. Remaining Contract Tenor (Yr.)	11	9	9
Current Volumes 12/31	48 MMcf/d	65kbpd	80kbpd
System Capacity	88 MMcf/d Processing	120 Mbbl Storage	200kbpd Disposal
Pipeline Capacity	150 MMcf/d	140kbpd	220kbpd
Miles of Pipeline	95	220	170



Diversified, Delaware Focused Customer Base	
<input type="checkbox"/>	Diverse customer base of investment grade, public, and private operators
<input type="checkbox"/>	18+ customers across the 3Bear systems
<input type="checkbox"/>	<6% average customer concentration based 3Bear's dedicated acreage portfolio

AGU well Updates for NMOCD:

DKL Story – The Libby Complex in Lea County

- Three distinct operations at the Libby Complex
- Room for continued growth

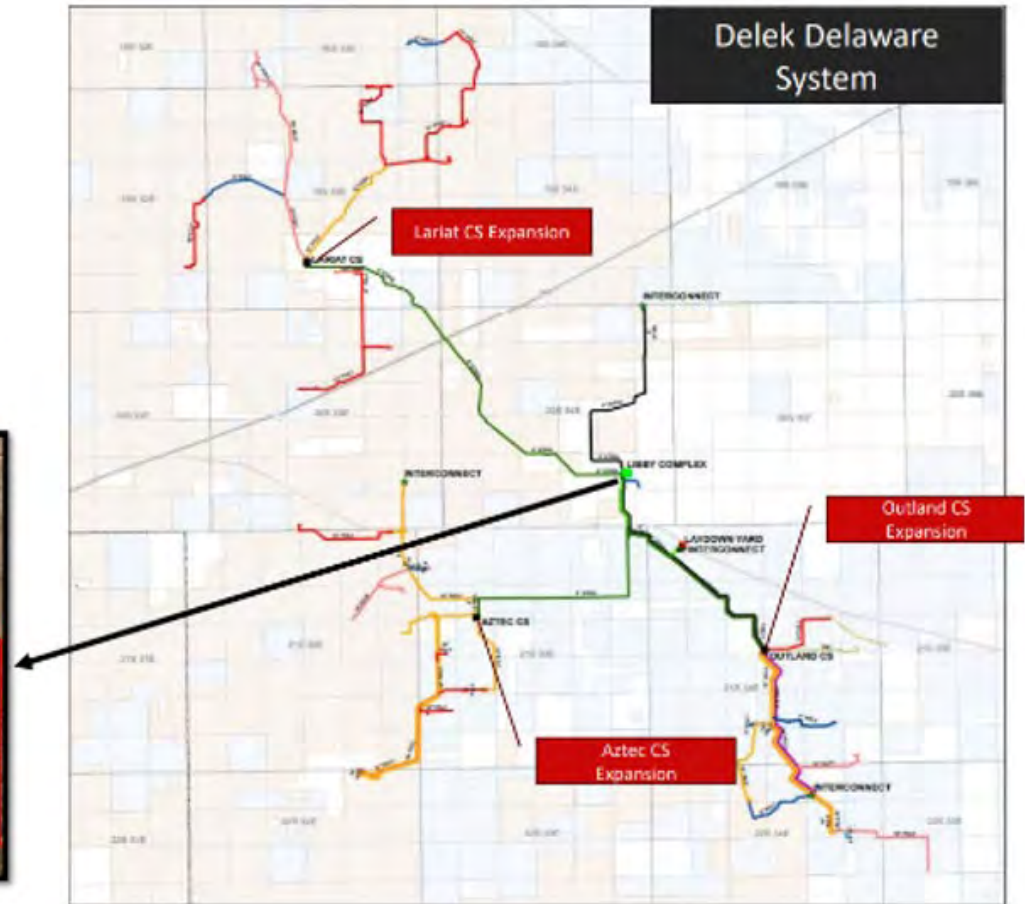
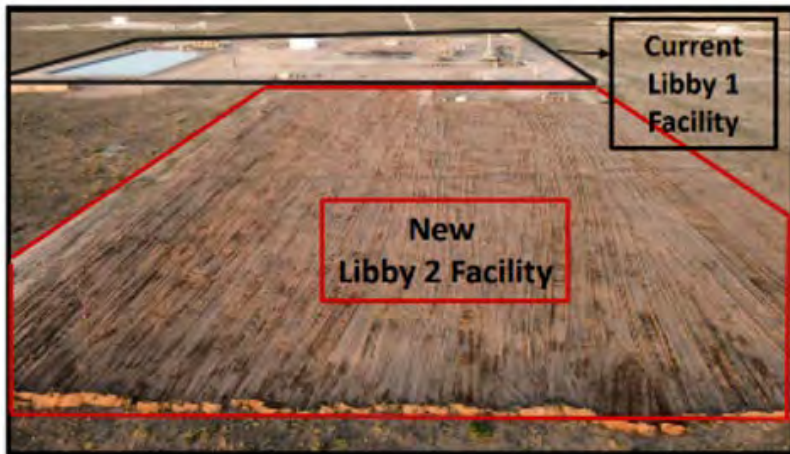


36

AGU well Updates for NMOCD:

DKL Story – The Libby Gas Complex

- Began construction of Libby 2 in Aug 2024
- Addition of 120MM SCFD Capacity



AGU well Updates for NMOCD:

DKL Growth – Libby Gas Plant



➤ Expansion of Libby Gas Plant

❑ Expansion of Libby Gas Plant

- ✓ Impact of WEG Lawsuit v. NMED re: LGP M3 Air Permit
- ✓ Appeals court affirmed M3 Air Permit Dec 2023
- ✓ Construct Libby 2: Aug 2024
- ✓ Startup Libby 2: Apr 2025
- ✓ Libby 3 and Additional Sour Gas Compression: 1H2026



AGI Updates for NMOCD:

Request for Extension to Inject

➤ Request for Extension to Inject After Jul 18, 2025

☐ AGI Well #1

- ✓ Casing Design: Dec 2024 (SLB)
- ✓ Casing & Tubing, & Completion Equipment sourcing: Jan 2025 – Feb 2025
- ✓ Rig Sourcing: Jan 2025 – Feb 2025 (Nabors)
- ✓ Spud, Construct, Complete & Test: Apr 28, 2025 – Jul 11, 2025 (SLB)
- ✓ Purchase Order commitments at 30% of project

☐ AGI Facilities

- ✓ Compression* Specification & Sourcing: Oct 2024 – Apr 2025 (Journey)
- ✓ Long Lead Electrical Equipment* Specification & Sourcing: Jan 2025 – Apr 2025 (Journey)
- ✓ FEED: Feb 2025 - Mar 2025 (ZAP)
- ✓ Sourcing of Detailed Design & Construction Contractor : Apr 2025 – May 2025
- ✓ Detailed Design & Construction: May 2025 – Jul 2026
- ✓ Commissioning and TAG Injection: Jul 2026

* ~ 50-week delivery based on current market intelligence



AOR well Updates for NMOCD:

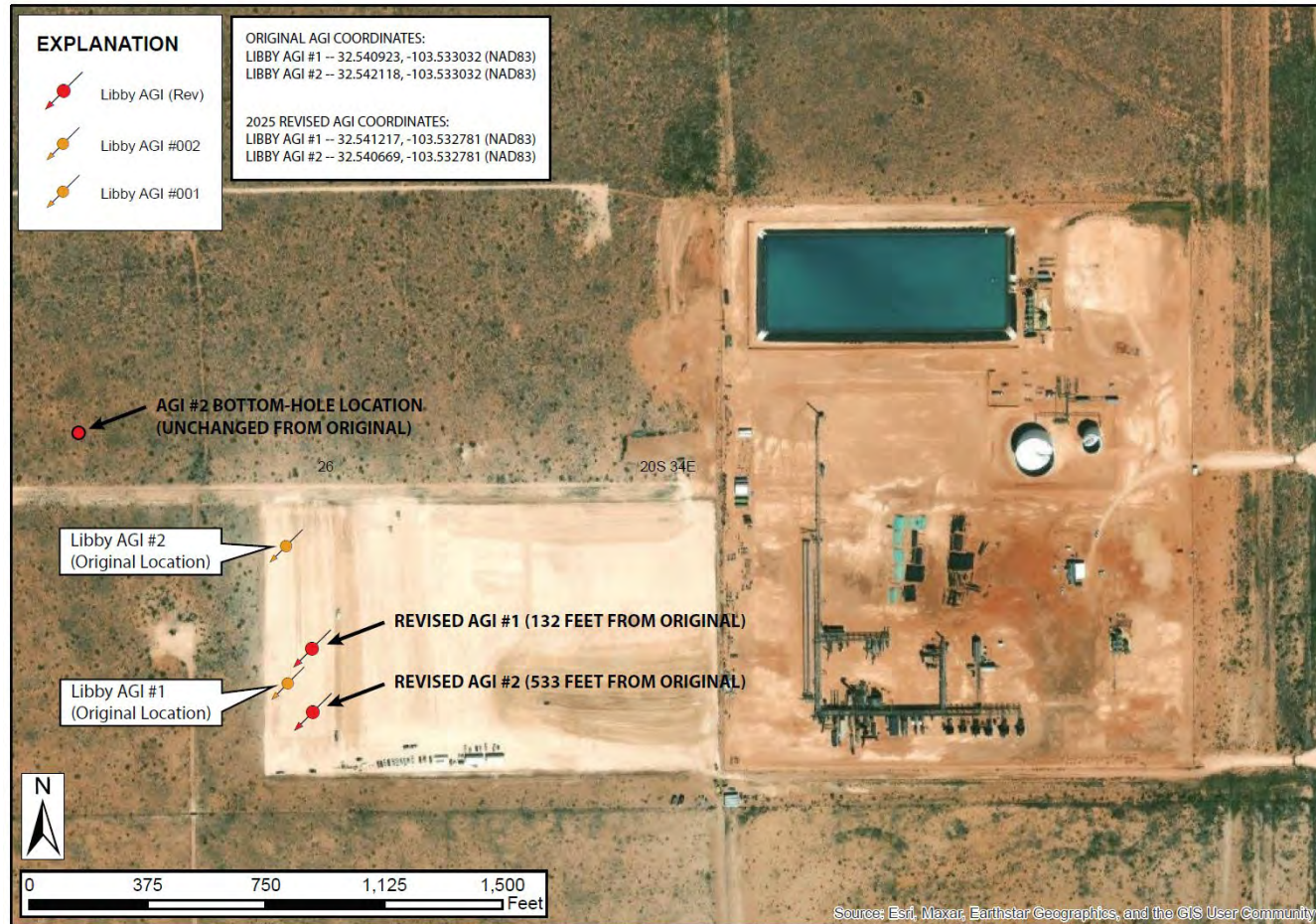
Request for Design Changes

- Geolex Proposed Changes
 - ☐ Inward change to surface locations
 - ✓ Moving away from property boundary
 - ✓ Updated Survey before Mar 31?
 - ☐ Updated Area of Review for nearby owners/operators
 - ✓ No new Os/Os since Jun 2024 AOR
 - ☐ Validated Fault Slip Potential analysis confirms prior results
 - ☐ Changes in location do not negatively impact injection plumes
 - ☐ Upgrades to casing design strengthen design
 - ☐ Request for extension to permit duration to accommodate drilling activities and avoid need to submit emergency request due to well installatoin delays
 - ☐ Submittal of Blanket Bond for Wells shows adequate coverage
 - ☐ Submittal of H2S Contingency Plan before Jun 30



AGI well Updates for NMOCD:

Request for Design Changes



Aerial photographic location map illustrating original and revised Libby AGI well locations and currently anticipated bottom-hole location for Libby AGI #2



Delek Logistic Partners, LP
DKL Field Services, LLC
AGI Well Update for NMOCD

February 20, 2025



**STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION COMMISSION**

**IN THE MATTER OF THE HEARING CALLED BY
THE OIL CONSERVATION COMMISSION FOR
THE PURPOSE OF CONSIDERING:**

**APPLICATION OF 3BEAR FIELD SERVICES, LLC
FOR AUTHORIZATION TO INJECT ACID GAS INTO
THE PROPOSED LIBBY AGI #1 AND AGI #2 WELLS,
SECTION 26, TOWNSHIP 20 SOUTH, RANGE 34 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO**

**CASE NO. 20409
ORDER NO. R-20694**

ORDER OF THE COMMISSION

THIS MATTER came before the New Mexico Oil Conservation Commission ("Commission") on the application of 3Bear Field Services, LLC ("3 Bear" or the "Applicant"). The Commission, having conducted a public hearing on June 6, 2019 in Santa Fe, New Mexico, and considered the testimony and the record in this case, as well as the arguments of the parties, and being otherwise fully advised, enter the following findings, conclusions and order on this 18th day of July, 2019.

FINDS THAT:

1. Notice has been given of the application and the hearing of this matter, and the Commission has jurisdiction of the parties and the subject matter herein.

2. On March 5, 2019, 3Bear filed an application (OCD Form C-108 and attachments), seeking authority to inject treated acid gas ("TAG") consisting of carbon dioxide ("CO₂") and hydrogen sulfide ("H₂S") from its Libby Gas Plant (the "Plant") into its proposed Libby Acid Gas Injection ("AGI") No. 1 well and its proposed Libby Acid Gas Injection ("AGI") No. 2 Well. The proposed Libby AGI No. 1 well will be a vertical well with a surface and bottom hole location at 1970 feet from the West line and 1475 feet from the South line of Section 26, Township 20 South, Range 34 East. The proposed Libby AGI No. 2 well will be a deviated well with a surface location at 1970 feet from the West line and 1910 feet from the South line of Section 26, Township 20 South, Range 34 East, and a bottom hole location of 1320 feet from the West line and 2275 feet from the South line of Section 26, Township 20 South, Range 34 East, N.M.P.M., Lea County, New Mexico. The target injection zones are located in the Devonian, Upper Silurian Wristen, and Fusselman formations, at an approximate depth interval of 14,900 feet to 16,400 feet below the surface at a maximum allowable surface operating pressure of 4,525 psig, for a maximum injection rate of 8 million standard cubic feet per day ("MMSCFD").

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3. The Form C-108 Application was complete and contains all the information necessary to grant approval.

4. The surface on which the two wells are to be drilled is owned by the Applicant and the minerals owned by the federal government. The adjacent operators and the U.S. Bureau of Land Management support 3Bear's application.

5. The purpose of the proposed Class II injection wells is to dispose of natural gas processing wastes consisting of CO₂ and H₂S from the Applicant's Libby Gas Plant by injecting TAG into the target zones. It is estimated the TAG will consist of approximately 10-15 percent H₂S and 85-90 percent CO₂, although the relative concentrations will vary with inlet gas composition.

6. The two wells are intended as redundant wells to assure continuous operation of the Plant should one well require repairs. Under normal operations both wells may be operated simultaneously, or may be used independently.

7. The surface location of both wells will be located within the boundary of the Plant premises.

8. Applicant's Pre-Hearing Statement filed April 4, 2019, and Amended Pre-Hearing Statement filed May 30, 2019, both included a corrected page 11 evidencing the execution of the Application by Geolex, Inc. on behalf of Applicant.

9. Applicant provided personal notice via certified mail, return receipt requested, of its Application and the Commission hearing to all operators, surface owners, and lessees within a combined one-mile radius of the location for the proposed wells.

10. Pursuant to 19.15.4.9.B(3) NMAC, the Division provided public notice by publishing notice of 3Bear's application and the Commission hearing in a newspaper of general circulation in Lea County.

11. As of the date of this order, no objections to the application were filed. The Division entered an appearance in this matter, and presented five exhibits in support of the testimony offered by the Division's witness, Mr. Phillip Goetze. Mr. Goetze testified in support of approval of the application subject to incorporating the conditions set forth in the Division's Exhibit 5.

12. In support of its application, 3Bear presented direct testimony from two witnesses: one fact witness, Mr. Michael Solomon, 3Bear's Senior Vice President Engineering and Operations, and a technical witness, Mr. Alberto Gutierrez, RG President of Geolex, Inc.

13. Mr. Solomon provided background information for 3Bear, and testified that the Libby Gas Plant has been operating since the 3rd Quarter of 2018, and has a permanent full-time staff of about 19 people, with plans for future growth.

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14. Mr. Solomon testified that currently there is an extensive LP/HP gathering line in place meeting industry standards for transporting sour gas, and all new steel pipes will be constructed and tested from compressor station to plant built to meet NACE SSC Region 3 Specs, including a metering system with electronic flow measurement and real-time SCADA communications aiding in leak detection and loss prevention.

15. Mr. Solomon further testified regarding 3Bear's proposed gas processing expansion for the Libby Plant which includes new compressor stations designed to meet NACE SSC Region 3 Specs, and compression (including AGI compressors) designed for Ariel Sour Level 2 Service.

16. Mr. Solomon testified as to the environmental and economic benefits of the Libby Plant including: (i) permanent sequestration of greenhouse gases, reducing the carbon footprint of oil and gas development by eliminating sulfur compounds and reducing GHG emissions to the atmosphere; (ii) providing construction jobs for building the facility and AGI wells; (iii) permanent operations jobs for the plant; (iv) improving worker safety at the Plant; and (iv) allowing increased royalties to flow to the State of New Mexico and federal government by increasing production capacity through providing additional gas treatment capacity.

17. Mr. Solomon testified that the proposed AGI wells are integral to the Libby Plant if the Plant is to significantly reduce net GHG emissions in southeast New Mexico, and that the two AGI wells will create redundancy by allowing the Plant to be operated without interruption should one well require maintenance or repairs.

18. The expert witness for 3Bear, Mr. Alberto Gutierrez, RG, testified that the injection of TAG through the proposed AGI wells will be at a maximum rate of 8.0 MMSCF per day, at a maximum operating surface pressure of 4,525 psig.

19. Mr. Gutierrez testified that with a safety factor of 100 percent, with total injection into a single well at 8.0 MMSCFD, the radius of influence for either well after injecting for 30-years will be 0.38 mile (2,027 feet).

20. Mr. Gutierrez testified the proposed injection zone is into the Silurian, Fusselman, Wrysten and Devonian formations at depths of approximately 14,900 to 16,400 feet subsurface, and the zone provides a sufficient capacity and geologic seal to contain the injected TAG and prevent its migration into other zones. The injection zone is sufficiently isolated from any protectable groundwater sources and there is no evidence injection will impair existing or potential hydrocarbon production in the area. No faults or other geologic or manmade conduits will allow the treated injected acid gas to migrate out of the injection zone.

21. Fresh water will be protected by surface casing, which will extend to approximately 1950 feet below the surface. The salt zone, including the Salado formation, will be isolated by the first intermediate casing to approximately 3350 feet below the surface. All casing strings will be cemented to the surface, pressure tested and verified using 360-degree

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cement bond logs. The casing and cement program will meet all U.S. Bureau of Land Management guidelines and requirements, in addition to all Division requirements.

22. The AGI wells annular space will be filled with corrosion-inhibited and biocide-treated diesel fuel.

23. Annular and injection tubing pressures and temperatures will be continuously monitored and recorded. The well will also be equipped with downhole pressure and temperature monitoring equipment. As detailed in the C-108, 3Bear also will do the following:

- a. Obtain initial bottomhole pressure and temperature values after drilling and prior to commencing injection.
- b. Perform a step-rate test and ten-day fall-off test prior to injection to provide baseline reservoir data.
- c. Monitor injection pressure, temperature, injection rate, and annular pressure.
- d. Use bottomhole reservoir and surface pressure/temperature data to develop a well-specific empirical relationship between observed surface and bottomhole data.
- e. Use TAG and/or wellbore models to predict bottomhole pressure/temperature conditions based on measured surface data, and tested against the empirical relationships established by measured surface and bottomhole data.
- f. In the event of any data gaps or bottomhole sensor failures, 3Bear will use TAG and/or wellbore models with empirical data to fill in missing bottomhole data.
- g. In the event of an extended bottomhole pressure/temperature sensor failure 3Bear may perform periodic bottomhole pressure monitoring using slickline pressure tools only if data from such temporary device is necessary to fill in data for relevant analyses, and only at times when the well(s) is/are off-line.
- h. After approximately five years of operation, 3Bear may perform additional testing to compare with the baseline measured prior to injection.
- i. 3Bear will use the data obtained through the foregoing activities to conduct the periodic five-year reservoir performance analysis comparing actual reservoir performance against 3Bear's predicted performance.

24. 3Bear presented evidence that injection of the proposed TAG stream will protect the environment and human health, and will not cause waste or impair correlative rights.

25. The revised H₂S Contingency Plan for the Libby Plant is being prepared and will be submitted for approval by the Division prior to the commencement of operations.

26. Phillip Goetze, P.G. with the Division's Engineering Bureau, submitted the following exhibits to the Commission: (1) a plat depicting pending applications and approved SWD orders as of May 30, 2019 as based on the OCD's GIS database; (2) a copy of a letter to Mr. Goetze dated May 3, 2019 from Mr. Gutierrez and the results of the seismic survey review and fault slip probability assessment conducted by Geolex, Inc. enclosed with the letter (also

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submitted by 3Bear as Exhibit 5); (3) a 2019 inventory of UIC Class II Acid Gas Injection Wells located in New Mexico; (4) the curriculum vitae of Mr. Goetze; and (5) a list of the Division's 18 conditions for approval of the application recommended by Mr. Goetze.

27. Mr. Goetze testified that the Division recommended 3Bear's application be approved as submitted subject to the standard conditions for Acid Gas Injection (UIC Class II Disposal Wells) and the additional conditions set forth in the Division's Exhibit 5.

28. The Division's additional conditions for approval, as modified at hearing by the Commissioners, are as follows:

- a. Conduct a mechanical integrity test (MIT) on the proposed AGI well annually.
- b. Conduct continuous monitoring of surface treated acid gas (TAG) injection pressure, temperature and rate, surface annular pressure and bottom-hole [i.e. "end of tubing"] temperatures and pressures inside the tubing and in the annulus.
- c. Conduct a step-rate test and fall-off test on the completed well before commencing injection. The maximum injection pressure for the proposed well may be appropriately adjusted after a step-rate test with the approval of the Division Director.
- d. Include a biocide and corrosion inhibited diesel in the annular fluid of the wells.
- e. Keep a maintenance log that includes volumes of annular fluid (diesel) replacement activities in the annulus of the wells.
- f. Incorporate temperature-activated controls to govern the temperatures of injected fluid within parameters set by the operator and provide an alarm system for those controls should the parameters be exceeded.
- g. Equip the wells with a pressure-limiting device as well as a one-way safety valve (with the proper interior drift diameter) on the tubing approximately 250 feet below the surface.
- h. Provide summary data on injection parameters monitored in Condition b. above, as requested by the Division, in quarterly reports. After one year of operation and if requested by the operator, the Division may approve submission of such reports on an annual cycle.
- i. Prior to commencing injection, the operator shall prepare and secure approval of the Division's Environmental Bureau (Santa Fe office) of a hydrogen-sulfide contingency plan that complies with Rule 19.15.11.9 NMAC, and

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provide a map of associated gathering lines with a GIS overlay to the Division as part of the plan.

- j. Thirty days prior to commencing injection, the operator shall coordinate with the Division to establish immediate notification parameters for annulus pressure and tubing and casing differential pressure at a set injection temperature.
- k. Ninety days after commencing injection, the operator shall review the pre-injection immediate notification parameters with the Division. If the Division determines that the parameters require modification, new immediate notification parameters shall be developed and implemented in coordination with the Division.
- l. The immediate notification parameters shall be reviewed jointly by the operator and the Division periodically, but not less frequently than once a year.
- m. All well drilling logs (including mudlogs, electric logs and daily logs) and the static bottom-hole pressure measured at completion of drilling the well shall be submitted to the Division's District Office.
- n. The operator shall every five years, once injection begins, provide the Division with a report that compares the reservoir pressures, volumes injected and projected TAG plume extent to those estimated in the C-108 application, together with summarizing the AGI wells' performance (including, but not limited to, injected volumes by fluid type and reservoir pressures) and potential calibration of models due to information collected during the prior five-year period. 3Bear will use data collected and analyses conducted pursuant to Paragraph 23, above, to prepare this analysis. The report shall include an updated model of current and projected plume migration and shall use the modeling technology in standard use at the time of the report and any available information about plume migration. At the request of the Commission, the operator shall provide in-person presentations of its data and analysis regarding the AGI wells' performance.
- o. Concurrent with the report to be provided to the Division under Paragraph 28.n., above, the operator of the AGI wells will present modeling, if necessary, to demonstrate that the AGI wells are not influencing adjacent salt water disposal wells.
- p. All casing should have cement circulated to the surface, with an additional casing string through the Salado formation at an estimated depth of 2,100 feet to 3,350 feet from the surface.

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- q. Well construction should be designed for exposure to corrosive environment including, but not limited to, casing, casing cement, and the packer in proximity of injection interval.
- r. The final reservoir evaluation should confirm that the open-hole portion of the AGI wells does not intersect the fault plane of any identified fault especially for those wells having the Devonian and Silurian sections for disposal intervals.
- s. A requirement for the installation of a redundant AGI well within three years of injection commencing in the first AGI well.
- t. Provide to the Division documentation of 3Bear's current bond in place with the Bureau of Land Management.
- u. In the event 3Bear transfers ownership of the Libby AGI No. 1 and/or Libby AGI No. 2 wells, 3Bear shall seek approval of such change in ownership from the Division pursuant to 19.15.9.9 NMAC.
- v. After thirty (30) years from the date of the Commission's order in this case, the authority granted by this order shall terminate unless applicant, or its successor in interest, shall make application before the Commission for an extension of its authority to inject.
- w. At least ninety days prior to commencing injection or before Division approval of any transfer of ownership, 3Bears will submit a request with OCD to amend Administrative Order SWD-1728-A to include a condition that the amount of salt water injected per day into the Libby Berry Fee Salt Water Disposal Well No.1 (API 30-025-44288) not exceed 20,000 barrels. Concurrent with the 5 year report to be provided to the Division above, the operator may seek approval of the Division to increase the SWD injection limits by sufficiently demonstrating that the AGI wells are not negatively influencing adjacent salt water disposal wells.

CONCLUSIONS

- 1. The Commission has jurisdiction over the parties and the subject matter of this case.
- 2. Proper public notice has been given.
- 3. Proper individual notice has been given to all operators, surface owners, and lessees within a one-mile radius of the proposed injection well.

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4. 3Bear's request for a maximum allowable operating pressure for injection of 4,525 pounds per square inch (psi) should be approved.

5. 3Bear's injection of CO₂ and H₂S can be conducted in a safe manner without causing waste, impairing correlative rights, negatively impacting oil and gas producing zones, or endangering fresh water, public health, or the environment.

6. 3Bear's proposed injection of CO₂ and H₂S is an environmentally superior means of disposing of CO₂ and H₂S because it will result in a net reduction in overall air emissions, including greenhouse gases, from the Libby Gas Plant and 3Bear facilities.

IT IS THEREFORE ORDERED THAT:

1. 3Bear Field Services, LLC's application is approved as provided in the Form C-108 as modified by the conditions addressed below. 3Bear is hereby authorized to drill and operate the Libby AGI No. 1 and Libby AGI No. 2 wells to be located in Section 26, Township 20 South, Range 34 East, N.M.P.M., Lea County, New Mexico, to dispose of TAG containing CO₂ and H₂S from 3Bear's Libby Gas Plant through injection into the Devonian, Upper Silurian, Wristen, and Fusselman formations at a maximum allowable surface operating pressure of 4,525 pounds per square inch and a maximum daily injection rate of 8 million standard cubic feet per day ("MMSCFD").

2. The Libby AGI No. 1 and Libby AGI No. 2 wells shall be constructed substantially in accordance with the description in the Form C-108 filed by the Applicant in this case, as amended, and as modified by the conditions set out in Findings Paragraph No. 28, above.

3. The maximum allowable operating pressure for each of the Libby AGI No. 1 and Libby AGI No. 2 wells shall be 4,525 psig. 3Bear shall conduct a step-rate test and fall-off test on the completed wells before commencing injection. Based on the step-rate test, the Division Director may allow an increase in the maximum allowable operating pressure.

4. The operator shall be required to conduct a MIT in accordance with the Division rules on each of the Libby AGI No. 1 and Libby AGI No. 2 wells once every year.

5. The casing-tubing annulus of each of the Libby AGI No. 1 and Libby AGI No. 2 wells shall be loaded with diesel fluid treated with corrosion inhibitors and biocides and each well equipped with a pressure gauge or approved leak-detection device to detect any leakage in the casing, tubing, or packer.

6. The operator shall keep a maintenance log that includes volumes of annular fluid (diesel) replacement activities in the annulus of the wells.

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7. Thirty days prior to commencing injection, the operator shall coordinate with the Division to establish immediate notification parameters for annulus pressure and tubing and casing differential pressure at a set injection temperature. The operator shall provide an alarm system for those controls should the parameters be exceeded.

8. Equip the wells with a pressure-limiting device as well as a one-way safety valve (with the proper interior drift diameter) on the tubing approximately 250 feet below the surface.

9. Ninety days after commencing injection, the operator must review the pre-injection immediate notification parameters with the Division. If the Division determines that the parameters require modification, new immediate notification parameters shall be developed and implemented in coordination with the Division.

10. The immediate notification parameters shall be reviewed jointly by the operator and the Division periodically, but not less than once a year.

11. The operator shall continuously monitor and record injection data including injection rates, injection and annular pressures, injection temperature, bottom hole injection pressure and temperature on a continuous basis and provide a quarterly report to the Engineering Bureau in the Division's Santa Fe Office and to the Division's District I Office. Each such report shall include the well name, location, API number and the number of this order. After one year 3Bear may apply to the Division to submit such data annually.

12. Prior to commencing injection, the operator shall prepare and secure approval of the Division's Environmental Bureau (Santa Fe office) of a hydrogen-sulfide contingency plan that complies with Rule 19.15.11.9 NMAC, and provide a map of associated gathering lines with a GIS overlay to the Division as part of the plan.

13. The operator shall every five years, once injection begins, provide the Division with a report that compares the reservoir pressures, volumes injected and projected TAG plume extent to those estimated in the C-108 application, together with summarizing the AGI wells' performance (including, but not limited to, injected volumes by fluid type and reservoir pressures) and potential calibration of models due to information collected during the prior five-year period. 3Bear may use data collected and analyses conducted pursuant to Paragraph 23, above, to prepare this analysis. The report shall include an updated model of current and projected plume migration and shall use the modeling technology in standard use at the time of the report and any available information about plume migration. At the request of the Commission, the operator shall provide in-person presentations of its data and analysis regarding the AGI wells' performance.

14. The operator's final reservoir evaluation should confirm that the open-hole portion of the AGI wells does not intersect the fault plane of any identified fault especially for those wells having the Devonian and Silurian sections for disposal intervals.

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15. The operator shall install a redundant AGI well within three years of injection commencing in the first AGI well.

16. 3Bears shall provide to the Division documentation of its current bond in place with the Bureau of Land Management.

17. In the event 3Bear transfers ownership of the Libby AGI No. 1 and/or Libby AGI No. 2 wells, 3Bear shall seek approval of such change in ownership from the Division pursuant to 19.15.9.9 NMAC.

18. Concurrent with the report to be provided to the Division under Paragraph 28.n., above, the operator of the AGI wells will present modeling, if necessary, to demonstrate that the AGI wells are not influencing adjacent salt water disposal wells.

19. At least ninety days prior to commencing injection or before Division approval of any transfer of ownership, 3Bears shall submit a request with OCD to amend Administrative Order SWD-1728-A to include a condition that the amount of salt water injected per day into the Libby Berry Fee Salt Water Disposal Well No.1 (API 30-025-44288) not exceed 20,000 barrels. Concurrent with the 5 year report to be provided to the Division above, the operator may seek approval of the Division to increase the SWD injection limits by sufficiently demonstrating that the AGI wells are not negatively influencing adjacent salt water disposal wells.

20. The Division Director shall have discretion to determine whether any modifications to this order that may be requested by 3Bear, or imposed by the U.S Bureau of Land Management, may be administratively approved by the Division or if a hearing before the Commission is required.

21. The injection authority herein granted shall terminate three years after the effective date of this order if the operator has not commenced injection operations pursuant hereto. The Division Director, upon written request of the operator submitted prior to the expiration of this order, may extend this time for good cause shown.

22. Compliance with this order does not relieve the operator of the obligation to comply with other applicable federal, state, or local laws or rules, or to exercise due care for the protection of fresh water, public health and safety and the environment.

23. Jurisdiction over this case is retained for the entry of such further orders as the Commission may deem necessary.

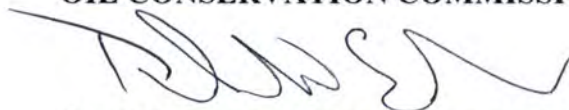
Case No. 20409

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DONE at Santa Fe, New Mexico, on this 18th day of July 2019

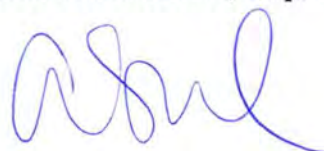
**STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION**



DR. THOMAS ENGLER, P.E., MEMBER



JORDAN KESSLER, Esq., MEMBER



ADRIENNE SANDOVAL, M.E., CHAIR



SEAL

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<https://www.emnrd.nm.gov/oed/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 450202

CONDITIONS

Operator: NEW MEXICO ENERGY MINERALS & NATURAL RESOURCE 1220 S St Francis Dr Santa Fe , NM 87504	OGRID: 264235
	Action Number: 450202
	Action Type: [HEAR] Post Hearing Statement (POST HEARING STATEMENT)

CONDITIONS

Created By	Condition	Condition Date
pgoetze	None	4/9/2025



3.4.7 Drilling Fluid Program

Drilling Fluid Interval Summary

28,000 in HOLE, 24,000 in SURFACECASING, 1650.00 ft / 1650.00 ft											
FLUID SYSTEM	Freshwater - Water Based										
OPERATION	Surface stack activities - Misc without parameter										
KEY PRODUCTS	DUO-VIS, M-I GEL, Lime, SODA ASH, WALNUT NUT PLUG MEDIUM, M-I PAC UL										
POTENTIAL PROBLEMS											
SOLIDS CONTROL											
INTERVAL DRILLING FLUID PROPERTIES (Rec / Min - Max)											
Measured Depth (ft)	Density (lbm/gal)	Funnel Viscosity (s)	Plastic Viscosity (cP)	Yield Point (lb/100ft2)	6 RPM Dial Reading	pH	Brine Salinity (wt%) @ Salt Type	API Fluid Loss (mL/30min)	%LGS (%)	MBT (lbm/bbl)	Total Hardness as Calcium (mg/L)
152.50 - 1650.00	8.40 / 8.40 - 9.70	35.00 / 32.00 - 38.00	3.00 / 1.00 - 5.00	8.00 / 6.00 - 10.00	4.00 / 3.00 - 6.00	9.50 - 10.00	0.00 / 0.00 - 0.00 @ None	- 100.00	5.00 / 3.00 - 8.00	- 15.00	- 400.00
Interval Recommendations											
<ul style="list-style-type: none">• Drill out the conductor with Gel Mud.• Sapp and Soap Sticks may be used down drill string every connection.• Sweeps can be used for hole cleaning with one of the following every 400 ft:<ul style="list-style-type: none">• Duo-Vis Sweep• Rapid Sweep Sticks (1 – 2 sticks at connections)• Pre-Hydrated Gel Sweep• Maintain pH 9.5 – 10.0 with additions of LIME• Walnut Fine / Medium to aid in eliminating bit balling.• Important notes for Pre-Hydrated Bentonite using the following recipe: <u>DO NOT ADD LIME TO PREMIX RECIPE.</u><ul style="list-style-type: none">• Fresh Water to fill Pre-Mix• Ensure Chlorides are less than 5,000 mg/L, preferably as low as possible.• SODA ASH for <240mg/L Ca++ (Do not over treat with Soda Ash. Check Ca++)• M-I GEL 30-35 ppb (allow to hydrate before utilizing)• Duo-Vis may be used after GEL Hydration to add additional viscosity 0.75 – 1.5 ppb. Adding Duo-Vis slowly to hopper is critical for the proper application.• Run all solids control equipment as much as possible.• Have some LCM ready to mix on location. LCM can be mixed with kill mud prior to pump or can be mixed and pumped before the kill mud if needed. This will mitigate fluid lost issues after pumping kill mud.• If water flow occurs, recommend attack the issue ASAP and kill the well to prevent more produce water going to the system and create more contamination.• Maintain hardness below 400 mg/l if possible at all times. This will allow the use of Duo-vis to increase the viscosity if needed.• If H2S is present, treat system with H2S Scavenger.• Upon reaching TD, sweep hole with a 50 bbl (80 sec/qt) sweep prior to pulling out of hole to run casing.• Plan to spot Starch Pill in lower open hole prior POOH for casing unless active is already sufficiently treated.											
Hole Cleaning & LCM Sweeps:											
<ul style="list-style-type: none">• Pump Hi-Vis Sweeps with Duo-Vis / My-Lo-Jel for hole cleaning as needed.											



- LCM concentration and particle size should be taken into consideration depending on use of Down Hole Motors and Bit Jet sizes.
- LCM can be added as needed if losses occur (3 – 4 ppb of each).Ensure LCM totals are consulted with MWD and Directional prior to pumping with higher total concentrations
 - Safe-Carb 250
 - Tiger Bullets
 - Nut Plug F/M
 - M-I-X II F

Well Control:

- Monitor pits for gains and losses.
- Keep enough barite on location to increase active system mud weight by 1 pound per gallon.
- Have a load of sack barite along with the Bulk barite on location all the time.

Corrosion/H2S:

- Increase pH to ≥ 9.5 with lime (0.5 – 1.0 ppb) to combat corrosion and buffer H2S intrusions.
- Add corrosion inhibitor to mud system
- Use H2S Scavenger **SAFE-SCAV HSW** if necessary
- See the **SAFE-SCAVE HSW** Product Sheet for usage recommendations.

22,000 in HOLE, 18,625 in CASING, 3700.00 ft / 3700.00 ft

FLUID SYSTEM	Freshwater - Water Based
OPERATION	Drilling run - Trip In
COMMENT	Fresh Water + Hi-Vis Sweeps for hole cleaning
KEY PRODUCTS	SODIUM CHLORIDE BRINE, DEFOAM-X, DUO-VIS, MY-LO-JEL, Lime, M-I WATE, M-I PAC UL
POTENTIAL PROBLEMS	
SOLIDS CONTROL	

INTERVAL DRILLING FLUID PROPERTIES (Rec / Min - Max)											
Measured Depth (ft)	Density (lbm/gal)	Funnel Viscosity (s)	Plastic Viscosity (cP)	Yield Point (lb/100ft2)	6 RPM Dial Reading	pH	Brine Salinity (wt%) @ Salt Type	API Fluid Loss (mL/30min)	%LGS (%)	MBT (lbm/bbl)	Total Hardness as Calcium (mg/L)
1650.00 - 3700.00	10.00 / 10.00 - 10.00	28.00 / 28.00 - 32.00	2.00 / 1.00 - 5.00	4.00 / 2.00 - 8.00	1.00 / 1.00 - 1.00	9.50 - 10.00	0.00 / 0.00 - 0.00 @ None	0.00 - 100.00	5.00 / 3.00 - 6.00	- 20.00	0.00 - 1600.00

Interval Recommendations:

- The objective of this interval is to drill the 22" using saturated brine from 1,650' until interval TD, where the 18.625" Salt Section casing will be set.
- Drill out the 24" casing with Saturated Brine 10.0 ppg MW.
- Keep Saturated brine in the system to avoid excessive washout and chemical contamination from Salado formation.
- Maintain pH 10 with additions of Lime.
- Monitor volumes closely and have plenty of reserve Brine in frac tanks during this interval. Refer to LCM Decision Tree as needed.
- Have some LCM ready to mix on location. LCM can be mixed with kill mud prior to pump or can be mixed and pumped before the kill mud if needed. This will mitigate fluid lost issues after pumping kill mud.
- If water flow occurs, recommend attack the issue ASAP and kill the well to prevent more produce water going to the system and create more contamination.
- Maintain hardness below 400 mg/l if possible at all times. This will allow the use of Duo-vis to increase the viscosity if needed.
- If H2S is present, treat system with H2S Scavenger.
- Upon reaching TD, sweep hole with a 50 bbl (80 sec/qt) sweep prior to pulling out of hole to run casing.



- Plan to spot Starch Pill in lower open hole prior POOH for casing unless active is already sufficiently treated.

Hole Cleaning & LCM Sweeps:

- Pump Hi-Vis Sweeps with **Duo-Vis / My-Lo-Jel** for hole cleaning as needed.
- LCM concentration and particle size should be taken into consideration depending on use of Down Hole Motors and Bit Jet sizes.
- LCM can be added as needed if losses occur (3.0 – 4.0 ppb of each). Ensure LCM totals are consulted with MWD and Directional prior to pumping with higher total concentrations
 - Safe-Carb 250
 - Tiger Bullets
 - Nut Plug F/M

Well Control:

- Monitor pits for gains and losses.
- Keep enough barite on location to increase active system mud weight by 1 pound per gallon.
- Have a load of sack barite along with the Bulk barite on location all the time.

Corrosion/H2S:

- Increase pH to ≥ 9.5 with lime (0.5 – 1.0 ppb) to combat corrosion and buffer H2S intrusions.
- Add corrosion inhibitor to mud system
- Use H2S Scavenger **SAFE-SCAV HSW** if necessary
- See the **SAFE-SCAVE HSW** Product Sheet for usage recommendations.

10,500 in HOLE, 13,375 in CASING, 5880.00 ft / 5880.00 ft

FLUID SYSTEM	Cut Brine - Water Based
OPERATION	Drilling run - Trip In
COMMENT	NaCL cut brine
KEY PRODUCTS	DEFOAM-X, DUO-VIS, POLY-PLUS, MY-LO-JEL, Lime, M-I WATE, SODA ASH
POTENTIAL PROBLEMS	
SOLIDS CONTROL	

INTERVAL DRILLING FLUID PROPERTIES (Rec / Min - Max)

Measured Depth (ft)	Density (lbm/gal)	Funnel Viscosity (s)	Plastic Viscosity (cP)	Yield Point (lb/100ft ²)	6 RPM Dial Reading	pH	Brine Salinity (wt%) @ Salt Type	Total Chlorides (mg/L)	API Fluid Loss (mL/30min)	%LGS (%)	MBT (lbm/bbl)	Total Hardness as Calcium (mg/L)
3700.00 - 5880.00	10.00 / - 10.00	28.00 / 28.00 - 32.00	1.00 / 1.00 - 5.00	2.00 / 2.00 - 8.00	3.00 / 3.00 - 5.00	10.00 - 11.00	11.90 / 11.90 - 14.50 @ NaCl (Sodium Chloride)	78014	0.00 - 100.00	3.00 / 1.00 - 6.00		600.00 - 1600.00

Interval Recommendations:

- The objective of this interval is to drill the 16.5" using saturated brine from 3,700' until interval TD, where the 13.375" intermediate # 1 casing will be set.
- Drill out the 18.625" casing with Saturated Brine 10.0 ppg MW.
- Keep Saturated brine in the system to avoid excessive washout and chemical contamination from Salado formation.
- Maintain pH 10 with additions of **Lime**.
- Monitor volumes closely and have plenty of reserve Brine in frac tanks during this interval. Refer to LCM Decision Tree as needed.
- Have some LCM ready to mix on location. LCM can be mixed with kill mud prior to pump or can be mixed and pumped before the



kill mud if needed. This will mitigate fluid lost issues after pumping kill mud.

If water flow occurs, recommend attack the issue ASAP and kill the well to prevent more produce water going to the system and create more contamination.

Maintain hardness below 400 mg/l if possible at all times. This will allow the use of Duo-vis to increase the viscosity if needed.

If H2S is present, treat system with H2S Scavenger.

Upon reaching TD, sweep hole with a 50 bbl (80 sec/qt) sweep prior to pulling out of hole to run casing.

Plan to spot Starch Pill in lower open hole prior POOH for casing unless active is already sufficiently treated.

Hole Cleaning & LCM Sweeps:

Pump Hi-Vis Sweeps with **Duo-Vis / My-Lo-Jel** for hole cleaning as needed.

LCM concentration and particle size should be taken into consideration depending on use of Down Hole Motors and Bit Jet sizes.

LCM can be added as needed if losses occur (3.0 – 4.0 ppb of each). Ensure LCM totals are consulted with MWD and Directional prior to pumping with higher total concentrations

Safe-Carb 250

Tiger Bullets

Nut Plug F/M

Well Control:

Monitor pits for gains and losses.

Keep enough barite on location to increase active system mud weight by 1 pound per gallon.

Have a load of sack barite along with the Bulk barite on location all the time.

Corrosion/H2S:

Increase pH to ≥ 9.5 with lime (0.5 – 1.0 ppb) to combat corrosion and buffer H2S intrusions.

Add corrosion inhibitor to mud system

Use H2S Scavenger **SAFE-SCAV HSW** if necessary

See the **SAFE-SCAVE HSW** Product Sheet for usage recommendations.

12.250 in HOLE, 9.625 in CASING, 11690.00 ft / 11690.00 ft

FLUID SYSTEM

Cut Brine - Water Based

OPERATION

Drilling run - Trip In

COMMENT

NaCL Cut Brine

KEY PRODUCTS

DEFOAM-X, DUO-VIS, POLY-PLUS, Lime, SODA ASH, M-I WATE

POTENTIAL PROBLEMS

SOLIDS CONTROL

INTERVAL DRILLING FLUID PROPERTIES (Rec / Min - Max)

Measured Depth (ft)	Density (lbm/gal)	Funnel Viscosity (s)	Plastic Viscosity (cP)	Yield Point (lb/100ft²)	6 RPM Dial Reading	pH	Brine Salinity (wt%) @ Salt Type	Total Chlorides (mg/L)	API Fluid Loss (mL/30min)	% LGS (%)	MET (lbm/bbl)	Total Hardness as Calcium (mg/L)
5880.00 - 11690.00	10.00 / 10.00 - 11.50	28.00 / 28.00 - 35.00	1.00 / 1.00 - 8.00	2.00 / 2.00 - 15.00	3.00 / 2.00 - 6.00	10.00 - 11.00	11.90 / 11.90 - 14.50 @ NaCl (Sodium Chloride)	78014	0.00 - 100.00	3.00 / 2.00 - 6.00		

Interval Recommendations:

The objective of this interval is to drill the 12.25" using Saturated brine from 5,880' until interval TD, where the 9.625" Intermediate # 2 casing will be set.

3 Well Information

4



- Drill out the 13.375" casing with saturated brine, 10.0 ppg MW.
 - Run all solids control equipment as much as possible.
 - Maintain pH 10 with additions of **Lime**.
 - Monitor volumes closely and have plenty of reserve Brine in frac tanks during this interval. Refer to LCM Decision Tree as needed.
 - Have some LCM ready to mix on location. LCM can be mixed with kill mud prior to pump or can be mixed and pumped before the kill mud if needed. This will mitigate fluid lost issues after pumping kill mud.
 - If water flow occurs, recommend attack the issue ASAP and kill the well to prevent more produce water going to the system and create more contamination.
 - Maintain hardness below 400 mg/l if possible at all times. This will allow the use of Duo-vis to increase the viscosity if needed.
 - Increase mud weight up to 11.5 ppg progressively to control formation pressure. Use Duo-VIS to adjust viscosity before adding barite.
 - If H2S is present, treat system with H2S Scavenger.
 - Upon reaching TD, sweep hole with a 50 bbl (80 sec/qt) sweep prior to pulling out of hole to run casing.
 - Plan to spot Starch Pill in lower open hole prior POOH for casing unless active is already sufficiently treated.
- Hole Cleaning & LCM Sweeps:
- Pump Hi-Vis Sweeps with **Duo-Vis / My-Lo-Jel** for hole cleaning as needed.
 - LCM concentration and particle size should be taken into consideration depending on use of Down Hole Motors and Bit Jet sizes.
 - LCM can be added as needed if losses occur (3 – 4 ppb of each).Ensure LCM totals are consulted with MWD and Directional prior to pumping with higher total concentrations
 - Safe-Carb 250
 - Tiger Bullets
 - Nut Plug F/M
 - M-I-X II F
- Well Control:
- Monitor pits for gains and losses.
 - Keep enough barite on location to increase active system mud weight by 1 pound per gallon.
 - Have a load of sack barite along with the Bulk barite on location all the time.
- Corrosion/H2S:
- Increase pH to ≥ 9.5 with lime (0.5 – 1.0 ppb) to combat corrosion and buffer H2S intrusions.
 - Add corrosion inhibitor to mud system
 - Use H2S Scavenger **SAFE-SCAV HSW** if necessary
 - See the **SAFE-SCAVE HSW** Product Sheet for usage recommendations.

8,500 in HOLE, 7,000 in PRODUCTIONCASING, 14880.00 ft / 14880.00 ft										
FLUID SYSTEM	MEGADRIL OBM - Oil Based									
OPERATION	Drilling run - Trip In									
KEY PRODUCTS	Calcium Chloride, CLEAN UP, MUL P, MUL S, Lime, M-I WATE, VERSATROL HT, VERSAMOD, VG-PLUS									
POTENTIAL PROBLEMS										
SOLIDS CONTROL										
INTERVAL DRILLING FLUID PROPERTIES (Rec / Min - Max)										
Measured Depth (ft)	Density (lbm/ gal)	Plastic Viscosity (cP)	Yield Point (lb/100ft2)	6 RPM Dial Reading	Excess Lime (lbm/ bbl)	Brine Salinity (wt%) @ Salt Type	Electrical Stability (V)	OWR (%)	HTHP Fluid Loss (mL/30min)	%LGS (%)



11690.00 - 14880.00	11.50 / 11.50 - 13.00	12.00 / 10.00 - 20.00	10.00 / 10.00 - 18.00	5.00 / 4.00 - 6.00	2.00 / 2.00 - 5.00	20.00 / 20.00 - 25.00 @ CaCl2 (Calcium Chloride)	650.00 - 1000.00	70.00 / 70.00 - 80.00	3.00 - 8.00	3.00 / 2.00 - 8.00		
Interval Recommendations <ul style="list-style-type: none">The objective of this interval is to drill the well from 11,690' to 14,880' with MEGADRIL OBM system where the 7" production casing will be set.After dumping WBM from the previous interval and cleaning pits displace to Megadril OBM, Have all OBM on location and weighted as per customer prior to displacement ~ 11.5 ppg. <u>Same mud weight should be maintained till TD. We will check with Management and MPD teams if we need to adjust the Mud Weight up to 13.0 ppg before rigging down MPD equipment. Offset well have been analyzed with a final MW of 12.5 ppg with no kicking events.</u>Run both centrifuges during drilling operations to remove drill solids.Stay on top of bulk barite consumption and orders through TD.No barite recovery will be run. Slow and steady strip on active fluid during circulation. Maintain proper PPG in active the additions of bulk barite.Maintain the following mud properties throughout the interval:<ul style="list-style-type: none">Oil/Water ratio at 70/30 – 80/20 with diesel and waterSalt concentration at 20-25% by weight with CALCIUM CHLORIDE.Electrical stability at >650 volts (as long as no water appears in the filtrate) with additions of MUL P and MUL S @ 2.5 to 1 ratioHTHP fluid loss at <10 ml/30min @ 250°F with VERSATROL MYield point at 10-18 lb/100ft² with VG-Plus6 rpm readings in the 6 – 10 range with VERSAMODMaintain Excess Lime 2 – 3 ppb with Lime. Additional Excess Lime should be maintained while experiencing high gas units <p>After reaching total depth (TD) and prior to pulling out of the hole (POOH), mix and spot a Csg-go Pill to enhance lubricity during the casing run. Incorporate 10 ppb of ALPINE DRILL BEADS into the mixture. The volume of the pill will be determined in coordination with the Company Man based on the required length.</p>												
5.875 in HOLE, OPENHOLE, 16400.00 ft / 16400.00 ft												
FLUID SYSTEM	Dispersed WBM - Water Based											
OPERATION	Drilling run - Trip In											
KEY PRODUCTS	M-I PAC UL, DUO-VIS, SAFE-CARB 250, SAFE-CARB 20											
POTENTIAL PROBLEMS												
SOLIDS CONTROL												
INTERVAL DRILLING FLUID PROPERTIES (Rec / Min - Max)												
Measured Depth (ft)	Density (lbm/gal)	Funnel Viscosity (s)	Plastic Viscosity (cP)	Yield Point (lb/100ft²)	6 RPM Dial Reading	pH	Brine Salinity (wt%) @ Salt Type	Total Chlorides (mg/L)	API Fluid Loss (mL/30min)	%LGS (%)	MBT (lbm/bbl)	Total Hardness as Calcium (mg/L)
14880.00 - 16400.00	10.00 / 10.00	45.00 / 35.00 - 50.00	5.00 / 5.00 - 10.00	12.00 / 10.00 - 15.00	6.00 / 4.00 - 6.00	9.00 - 10.00	0.00 / 0.00 - 0.00 @ KCl (Potassium Chloride)	0	- 8.00	2.00 / 2.00 - 4.00	- 5.00	- 1000.00
Interval Recommendations: <ul style="list-style-type: none">The objective of this interval is to drill the 5.875" using Clear Brine to interval TD.Perform displacement prior to Csg Shoe depth to Clear Brine.Drill out the 7" casing with Clear Brine, 10.0 ppg MW.Maintain pH 10 with additions of CAUSTIC SODA.												



- Monitor volumes closely and have plenty of reserve Brine in frac tanks during this interval. Refer to LCM Decision Tree as needed.
 - Have some LCM ready to mix on location. LCM can be mixed with kill mud prior to pump or can be mixed and pumped before the kill mud if needed. This will mitigate fluid lost issues after pumping kill mud.
 - If water flow occurs, recommend attack the issue ASAP and kill the well to prevent more produce water going to the system and create more contamination.
 - Maintain hardness below 400 mg/l if possible at all times. This will allow the use of Duo-vis to increase the viscosity if needed.
 - If H2S is present, treat system with H2S Scavenger.
 - Upon reaching TD, sweep hole with a 50 bbl (80 sec/qt) sweep prior to pulling out of hole to run casing.
 - Plan to spot Starch Pill in lower open hole prior POOH for casing unless active is already sufficiently treated.
- Hole Cleaning & LCM Sweeps:
- Pump HI-Vis Sweeps with Duo-Vis for hole cleaning as needed.
 - LCM concentration and particle size should be taken into consideration depending on use of Down Hole Motors and Bit Jet sizes.
 - LCM can be added as needed if losses occur (3 – 5 ppb of each). Ensure LCM totals are consulted with MWD and Directional prior to pumping with higher total concentrations.
- Safe-Carb 250
 - Safe-Carb 40
 - Safe-Carb 20
- Well Control:
- Monitor pits for gains and losses.
 - Keep enough barite on location to increase active system mud weight by 1 pound per gallon.
 - Have a load of sack barite along with the Bulk barite on location all the time.
- Corrosion/H2S:
- Increase pH to ≥ 9.5 with lime (0.5 – 1.0 ppb) to combat corrosion and buffer H2S intrusions.
 - Add corrosion inhibitor to mud system
 - Use H2S Scavenger **SAFE-SCAV HSW** if necessary
 - See the **SAFE-SCAVE HSW** Product Sheet for usage recommendations.



3.4.6 Formation Tests

Reference	Test Type	Test Equivalent Mud Weight (lbm/gal)	Fluid Density (lbm/gal)	Surface Test Pressure (psi)	Fracture Pressure (EMW) (lbm/gal)	Comments
22 in Salt Section Previous Casing Shoe MD/TVD: 1640.00 ft / 1640.00 ft Test Depth MD/TVD: 1660.00 ft / 1660.00 ft	FTT	14.50	10.00	383.38	14.81	Refer to the Formation Test Check and SOP List in the link below WGC-WC-CL-001 After - Review Formation Pressure Test Readiness CL WGC-WC-SOP-003 Formation Integrity and Leak Off Tests SOP
16.5 in Intermediate Section 1 Previous Casing Shoe MD/TVD: 3690.00 ft / 3690.00 ft Test Depth MD/TVD: 3710.00 ft / 3710.00 ft	FTT	13.00	9.20	728.42	13.28	
12.25 in Intermediate Section 2 Previous Casing Shoe MD/TVD: 5870.00 ft / 5870.00 ft Test Depth MD/TVD: 5890.00 ft / 5890.00 ft	FTT	12.30	9.50	853.82	11.36	
8.5 in Protection Section Previous Casing Shoe MD/TVD: 11680.00 ft / 11680.00 ft Test Depth MD/TVD: 11700.00 ft / 11700.00 ft	FTT	14.40	9.50	2973.09	14.61	
5.875 in Injection Section Previous Casing Shoe MD/TVD: 14870.00 ft / 14870.00 ft Test Depth MD/TVD: 14890.00 ft / 14890.00 ft	FTT	11.50	9.00	1931.17	14.71	

Santa Fe Main Office
Phone: (505) 476-3441
General Information
Phone: (505) 629-6116

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised July 18, 2013

☐ AMENDED REPORT

Online Phone Directory Visit:
<https://www.emnrd.nm.gov/ocd/contact-us/>

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address DKL FIELD SERVICES 310 Sevens Springs Way, Suite 500 Brentwood, TN 37027		² OGRID Number 372603
		³ API Number 30-025-54599
⁴ Property Code 337198	⁵ Property Name LIBBY AGI	⁶ Well No. 001

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
K	26	20S	34E		1588	SOUTH	2061	WEST	LEA

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
K	26	20S	34E		1588	SOUTH	2061	WEST	LEA

9. Pool Information

ACID GAS INJECTION	Pool Name	Pool Code 97834
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Additional Well Information

¹¹ Work Type N	¹² Well Type AGI	¹³ Cable/Rotary ROTARY	¹⁴ Lease Type FEE	¹⁵ Ground Level Elevation 3719.4'
¹⁶ Multiple N	¹⁷ Proposed Depth 16400'	¹⁸ Formation DEVONIAN-FUSSELMAN	¹⁹ Contractor SLB/NABORS	²⁰ Spud Date
Depth to Ground water 200'		Distance from nearest fresh water well NA		Distance to nearest surface water NA

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
SURFACE	28"	24"	186	1,640	1050	SURFACE
SALT STRING	22"	18 5/8"	115	3,690'	2200	SURFACE
#1 INT	16.5"	13 3/8"	68	5,870'	2500	SURFACE
#2 INT	12 1/4"	9 5/8"	47	11,680'	940	SURFACE
PROD	8 1/2"	7"	32	14,870'	450	SURFACE

Casing/Cement Program: Additional Comments

5 7/8" OPEN HOLE TO 16,400'

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
ANNULAR	5000	5000	SHAFFER
DOUBLE RAM	10000	10000	SHAFFER

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐ if applicable.

Signature: 

Printed name: Hector J. Sanchez

OIL CONSERVATION DIVISION

Approved By:

Title:

Title: HSER- Sr. Manager		Approved Date:	Expiration Date:
E-mail Address: hector.sanchez@deleklogistics.com			
Date: 9/11/25	Phone: 432 238-6465	Conditions of Approval Attached	

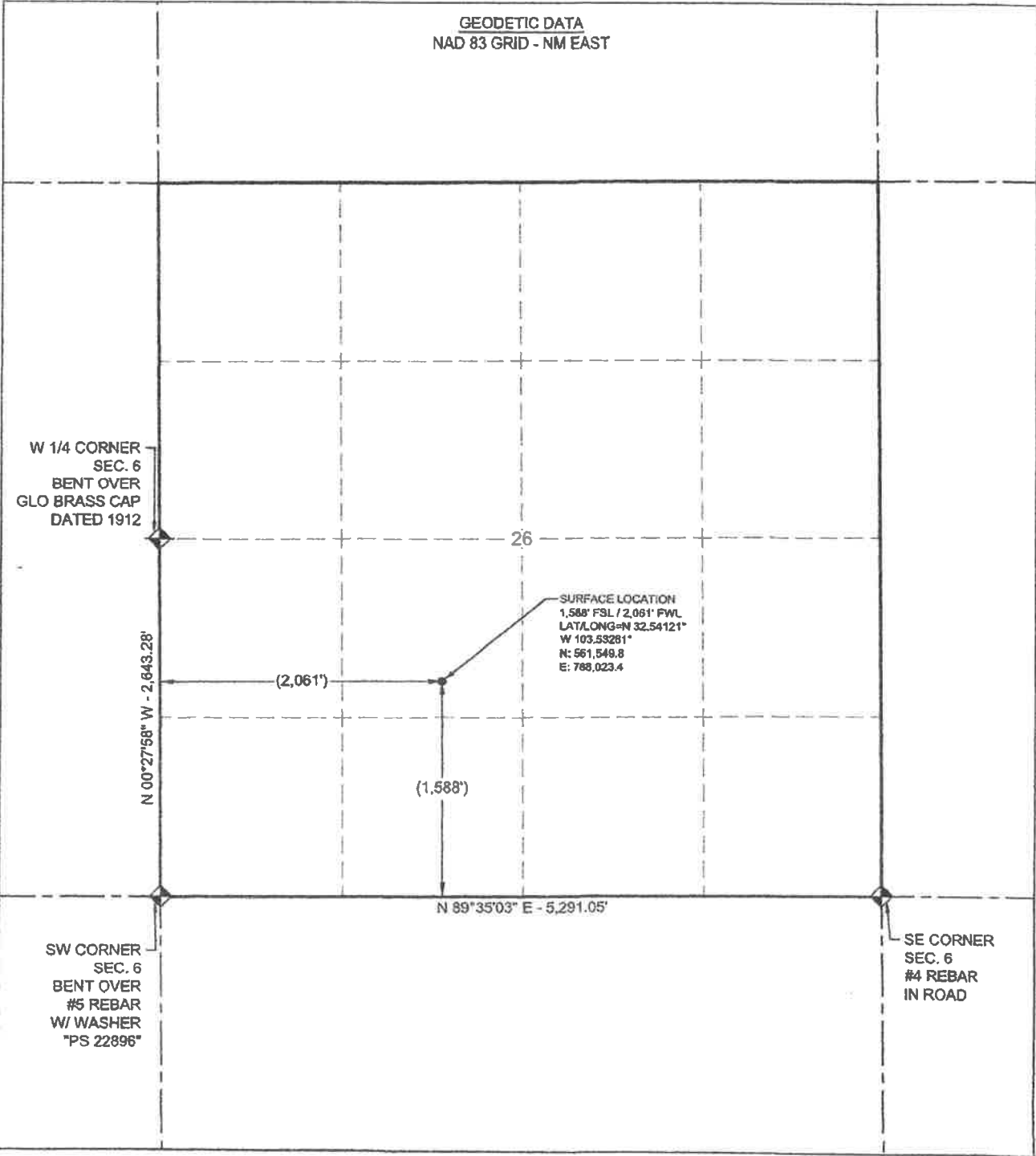
Santa Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116 Online Phone Directory Visit: https://www.emnrd.nm.gov/oed/contact-us/		State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		C-102 Revised July 9, 2024 Submit Electronically via OCD Permitting					
		Submittal Type:		<input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled					
WELL LOCATION INFORMATION									
API Number		Pool Code 97834		Pool Name AGI: DEVONIAN-FUSSELMAN					
Property Code		Property Name LIBBY AGI			Well Number #1				
OGRID No. 372603		Operator Name DKL FIELD SERVICES, LLC			Ground Level Elevation 3,719.4'				
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal			Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal						
Surface Location									
UL	Section 26	Township 20	Range 34	Lot	Ft. from S 1,588'	Ft. from W 2,061'	Latitude N32.54121°	Longitude W103.53281°	County LEA
Bottom Hole Location									
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
Dedicated Acres		Infill or Defining Well		Defining Well API		Overlapping Spacing Unit (Y/N)		Consolidation Code	
Order Numbers.				Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No					
Kick Off Point (KOP)									
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
First Take Point (FTP)									
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
Last Take Point (LTP)									
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
Unitized Area or Area of Uniform Interest		Spacing Unit Type <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical			Ground Floor Elevation:				
OPERATOR CERTIFICATIONS					SURVEYOR CERTIFICATIONS				
<p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</p> <p><i>[Signature]</i> 9/11/25 Signature Date Hector J. Sanchez Printed Name hector.sanchez@delteklogistics.com Email Address</p>					<p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p><i>[Signature]</i> Signature and Seal of Professional Surveyor 22896 Certificate Number 11/12/2024 Date of Survey</p> <p>THOMAS G. CARLSON NEW MEXICO 22896 11/23/25 PROFESSIONAL SURVEYOR</p>				

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.





3.4.3 Casing Program

Section	Type	Tubular	OD (in)	ID (in)	Drift ID (in)	Start MD (ft)	End MD (ft)	TOC (ft)	Grade	Connection
30 Conductor	Conductor	30" Casing 118.65 lbm/ft X56 MIJ	30.000	29.250	29.062	32.50	152.50		X56	MIJ
28 in Surface Section	Surface Casing	24" Casing 186.41 lbm/ft X56 XLF	24.000	22.500	22.312	32.50	1640.00	32.50	X56	XLF
22 in Salt Section	Casing	18.625" Casing 115 lbm/ft K55 BTC	18.625	17.437	17.250	32.50	1700.00	32.50	K55	BTC
22 in Salt Section	Tapered	18.625" Casing 115 lbm/ft J55 BTC	18.625	17.437	17.250	1700.00	3690.00	32.50	J55	BTC
16.5 in Intermediate Section 1	Casing	13.375" Casing 68 lbm/ft L80 BTC	13.375	12.415	12.259	32.50	5870.00	32.50	L80	BTC
12.25 in Intermediate Section 2	Casing	9.625" Casing 47 lbm/ft L80HC BTC	9.625	8.681	8.525	32.50	11680.00	32.50	L80	BTC
8.5 in Protection Section	Production Casing	7in 32lb-ft VASS95 VA SUPERIOR	7.000	6.094	5.969	32.50	14570.00	32.50	VA SS95	VASuperior
8.5 in Protection Section	Tapered	7in, 32lb-ft Nickel Alloy G3 110 Tenaris BLUE	7.000	6.094	5.969	14570.00	14870.00	32.50	G3-110	Blue
5.875 in Injection Section	Open Hole					14880.00	16400.00			



3.4.4 Cement Program

Reference	Fluid Type	Description	Density (lbm/gal)	Yield (ft3/sack)	Top of Fluid MD / TVD (ft)	Excess Volume (%)	Total Volume (bbl)	Dry Cement (sack)	Comments
Wellbore: Libby AGI #1 Hole: 28.000 in Surface Casing: 24.000 in MD/TVD: 1640.00 / 1640.00 ft	Wash	Gelled Water	8.33		Returns		50.00		
	Lead	Class C	12.80	1.81	32.50 / 32.50	100.00	512.47	1589.68	
	Tail	Class C	14.80	1.33	1340.00 / 1340.00	100.00	142.95	603.45	
Wellbore: Libby AGI #1 Hole: 22.000 in Casing: 18.625 x 18.625 in MD/TVD: 3690.00 / 3690.00 ft	Wash	Gelled Water	8.33		Returns		50.00		
	Lead	Class C	12.80	1.81	32.50 / 32.50	100.00	720.85	2236.06	
	Tail	Class C	14.80	1.33	3390.00 / 3390.00	100.00	92.63	391.04	
Wellbore: Libby AGI #1 1st Stage Hole: 16.500 in Casing: 13.375 in MD/TVD: 5870.00 / 5870.00 ft	Wash	MUDPUSH Express LCM	9.40		4679.50 / 4679.50		20.00		
	Lead	Class TXI	11.50	2.32	4900.00 / 4900.00	150.00	106.56	257.89	
	Tail	Class C	14.80	1.33	5370.00 / 5370.00	150.00	126.36	533.43	
Wellbore: Libby AGI #1 2nd Stage Stage MD/TVD: 4900.00 / ft Hole: 16.500 in Casing: 13.375 in MD/TVD: 5870.00 / 5870.00 ft	Wash	MUDPUSH Express LCM	10.50		Returns		50.00		
	Lead	Class TXI	11.50	2.32	32.50 / 32.50	150.00	610.84	1478.29	
	Tail	Class C	14.80	1.33	4400.02 / 4400.02	150.00	113.36	478.55	
Wellbore: Libby AGI #1 1st Stage Hole: 12.250 in Casing: 9.625 in MD/TVD: 11680.00 / 11680.00 ft	Wash	MUDPUSH Express LCM	11.80		7101.60 / 7101.60		28.92		
	Lead	Class TXI	12.00	2.04	7620.00 / 7620.00	80.00	376.02	1034.90	
	Tail	Class C	14.80	1.33	11365.00 / 11365.00	80.00	37.98	160.34	
Wellbore: Libby AGI #1 2nd Stage Stage MD/TVD: 7600.00 / ft Hole: 12.250 in Casing: 9.625 in MD/TVD: 11680.00 / 11680.00 ft	Wash	MUDPUSH Express LCM	11.80		Returns		40.00		
	Lead	Class TXI	12.00	2.04	32.50 / 32.50	0.00	343.31	944.87	
	Tail	EverCRETE	15.90	1.08	5780.00 / 5780.00	80.00	181.22	942.08	
Wellbore: Libby AGI #1 1st Stage Hole: 8.500 in Production Casing: 7.000 x	Wash	MUDPUSH Express + PNET	11.50		8886.00 / 8886.00		75.35		
	Lead	Class TXI	12.50	1.56	11815.00 / 11815.00	100.00	108.09	389.04	



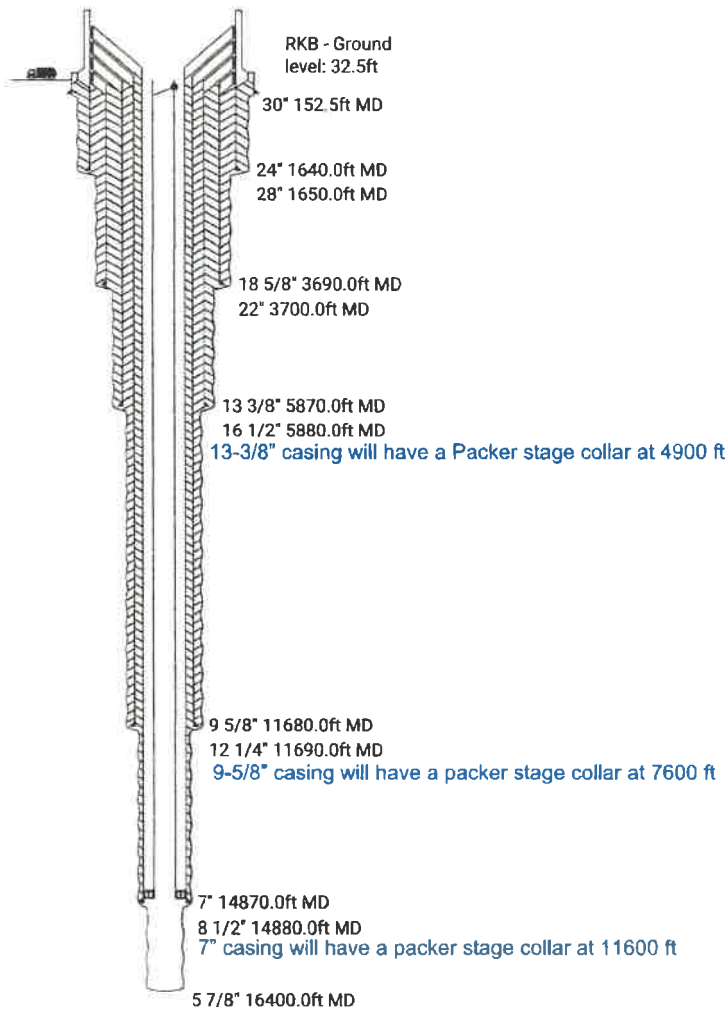
7.000 in MD/TVD: 14870.00 / 14870.00 ft	Tail	EverCRETE	15.90	1.08	14208.00 / 14208.00	100.00	32.75	170.23	
Wellbore: Libby AGI #1 2nd Stage Stage MD/TVD: 11585.00 / ft Hole: 8.500 in Production Casing: 7.000 x 7.000 in MD/TVD: 14870.00 / 14870.00 ft	Wash	MUDPUSH Express + PNET	11.50		Returns	0.00	40.00		
	Lead	Lead TXI	12.50	1.56	32.50 / 32.50	0.00	295.82	1064.68	

The 18-5/8" cement jobs are planned to be single-stage jobs. This job should consider a bottom plug to reduce contamination, as in these wells, it is essential that cement is shown to surface to fulfill the OCD requirements.

**For the 18-5/8" cement job, cement will be pumped until pure cement is returned to the surface. For the other sections, a caliper log will be taken, and the final excess will be on top of the caliper volume. Excess may be changed depending on the result of the caliper.



3.4.1 Wellbore Schematic

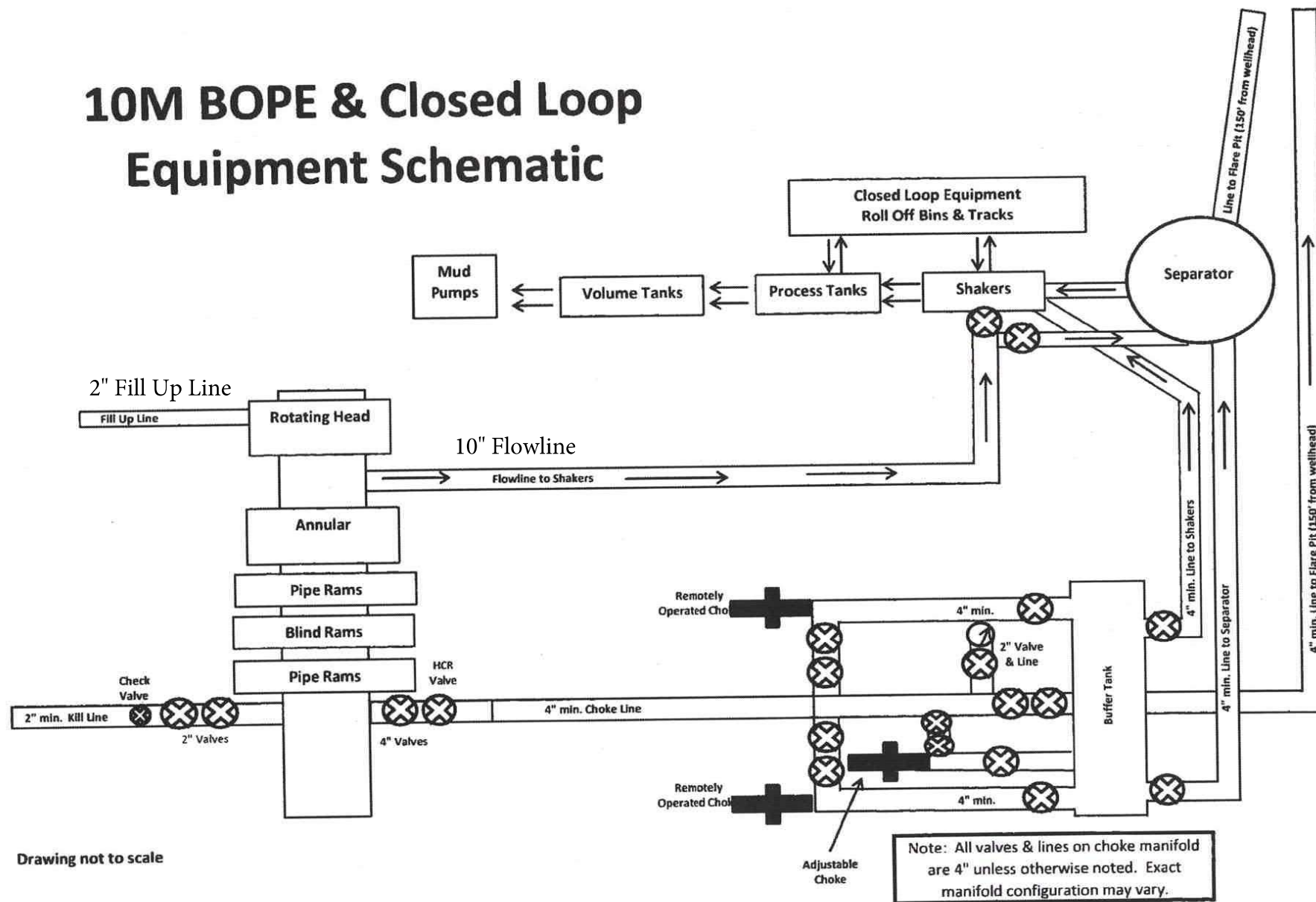


DKL FIELD SERVICES
LIBBY AGI #001
1588' FSL & 2061 FWL
SEC 26 – T20S – R34E
LEA COUNTY, NM

FORMATION TOPS
GL 3719.4'

Rustler	1597'
Top of Salt	1914'
Base of Salt	3330'
Yates	3667'
7 Rivers	4005'
Capitan Reef	5038'
Top of DMG	5849'
Brushy	7598'
Bone Spring	8697'
Wolfcamp	11,662'
Morrow	13,286'
Woodford	14,679'
Devonian	14,848'
Fussellman	15,964'
Montoya	16,376'

10M BOPE & Closed Loop Equipment Schematic



Drawing not to scale





3.4.15 Wellhead & BOP Pressure Test

Initial high pressure test: The 21-1/4" 5K stack should be pre-tested on BOP pressure testing stump as per below testing schedule:

21-1/4" 3K BOP stack

Casing Size (in)	Stack Size (in)	Rating (PSI)	Low Pressure (PSI)	High Pressure (PSI)
18-5/8"	21-1/4" Annular	5,000	300	3500
	21-1/4" Pipe Ram	5,000	300	5000
	21-1/4" Pipe Ram	5,000	300	5000

Subsequent high pressure test: BOPs shall be tested to the maximum anticipated surface pressure for the borehole sections that are to be drilled.

The interval between pressure tests shall not exceed 21 days unless local regulations mandate more frequent testing. The pressure test should be planned to minimize disruption to normal operations while ensuring compliance with the 21-day requirement.

21-314" 5K BOP stack

Casing Size (in)	Stack Size (in)	Rating (PSI)	Low Pressure (PSI)	High Pressure (PSI)
18-5/8"	21-1/4" Annular	5,000	250	2200
	21-1/4" Pipe Ram	5,000	250	2200
	21-1/4" Pipe Ram	5,000	250	2200
	Choke/Kill line	5,000	250	2200
	Choke manifold	5,000	250	2200
	CHH outer valves	5,000	250	2200

*MASP with full replacement to 0.1 Psi/ft Gas while drilling next section where this BOP installed for equal to 2114 psi.

This pressure test will include stand pipe with rotary hose, pump discharge line, FOSV, gray valve and TDS IBOP

- Function test 21-1/4" annular with 5" drill pipe. Verify closing time <45 secs (API-16D).
- Pressure test BOP manual and HCR valves and kill line check valve.
- Pressure test choke manifold individual valves (from direction of anticipated flow) to 300 psi and 2200psi for 5/10 mins.
- Function the Hydraulic chokes and use the manual choke function (30 sec Max). Confirm all pressure gauges are calibrated and that stroke counter at remote choke panel is working.
- Walk the lines and verify correct rig-up as per P&ID and working diagrams. All TPW rig-ups to be secured with Fibre Rope Restraints (FRR).
- Once nipple up on well, function and pressure test choke hose, kill line and BOP connections to 300 psi and 2200 psi for 5/10 mins.

3.5 Intermediate Section 1 - 16" Wellbore - 13-3/8" Casing

Station	Bit Size	Casing ID	Objective of this Section	BT Casing
Surface	16"	13-3/8"	<ul style="list-style-type: none">• Provides zonal isolation for the Capitan Reef	30 feet into the Cherry Formation



3.4.7 Drilling Fluid Program

Drilling Fluid Interval Summary

28,000 in HOLE, 24,000 in SURFACECASING, 1650.00 ft / 1650.00 ft											
FLUID SYSTEM	Freshwater - Water Based										
OPERATION	Surface stack activities - Misc without parameter										
KEY PRODUCTS	DUO-VIS, M-I GEL, Lime, SODA ASH, WALNUT NUT PLUG MEDIUM, M-I PAC UL										
POTENTIAL PROBLEMS											
SOLIDS CONTROL											
INTERVAL DRILLING FLUID PROPERTIES (Rec / Min - Max)											
Measured Depth (ft)	Density (lbm/gal)	Funnel Viscosity (s)	Plastic Viscosity (cP)	Yield Point (lb/100ft2)	6 RPM Dial Reading	pH	Brine Salinity (wt%) @ Salt Type	API Fluid Loss (mL/30min)	%LGS (%)	MBT (lbm/bbl)	Total Hardness as Calcium (mg/L)
152.50 - 1650.00	8.40 / 8.40 - 9.70	35.00 / 32.00 - 38.00	3.00 / 1.00 - 5.00	8.00 / 6.00 - 10.00	4.00 / 3.00 - 6.00	9.50 - 10.00	0.00 / 0.00 - 0.00 @ None	- 100.00	5.00 / 3.00 - 8.00	- 15.00	- 400.00
Interval Recommendations											
<ul style="list-style-type: none">• Drill out the conductor with Gel Mud.• Sapp and Soap Sticks may be used down drill string every connection.• Sweeps can be used for hole cleaning with one of the following every 400 ft:<ul style="list-style-type: none">• Duo-Vis Sweep• Rapid Sweep Sticks (1 – 2 sticks at connections)• Pre-Hydrated Gel Sweep• Maintain pH 9.5 – 10.0 with additions of LIME• Walnut Fine / Medium to aid in eliminating bit balling.• Important notes for Pre-Hydrated Bentonite using the following recipe: <u>DO NOT ADD LIME TO PREMIX RECIPE.</u><ul style="list-style-type: none">• Fresh Water to fill Pre-Mix• Ensure Chlorides are less than 5,000 mg/L, preferably as low as possible.• SODA ASH for <240mg/L Ca++ (Do not over treat with Soda Ash. Check Ca++)• M-I GEL 30-35 ppb (allow to hydrate before utilizing)• Duo-Vis may be used after GEL Hydration to add additional viscosity 0.75 – 1.5 ppb. Adding Duo-Vis slowly to hopper is critical for the proper application.• Run all solids control equipment as much as possible.• Have some LCM ready to mix on location. LCM can be mixed with kill mud prior to pump or can be mixed and pumped before the kill mud if needed. This will mitigate fluid lost issues after pumping kill mud.• If water flow occurs, recommend attack the issue ASAP and kill the well to prevent more produce water going to the system and create more contamination.• Maintain hardness below 400 mg/l if possible at all times. This will allow the use of Duo-vis to increase the viscosity if needed.• If H2S is present, treat system with H2S Scavenger.• Upon reaching TD, sweep hole with a 50 bbl (80 sec/qt) sweep prior to pulling out of hole to run casing.• Plan to spot Starch Pill in lower open hole prior POOH for casing unless active is already sufficiently treated.											
Hole Cleaning & LCM Sweeps:											
<ul style="list-style-type: none">• Pump Hi-Vis Sweeps with Duo-Vis / My-Lo-Jel for hole cleaning as needed.											



- LCM concentration and particle size should be taken into consideration depending on use of Down Hole Motors and Bit Jet sizes.
- LCM can be added as needed if losses occur (3 – 4 ppb of each).Ensure LCM totals are consulted with MWD and Directional prior to pumping with higher total concentrations
 - Safe-Carb 250
 - Tiger Bullets
 - Nut Plug F/M
 - M-I-X II F

Well Control:

- Monitor pits for gains and losses.
- Keep enough barite on location to increase active system mud weight by 1 pound per gallon.
- Have a load of sack barite along with the Bulk barite on location all the time.

Corrosion/H2S:

- Increase pH to ≥ 9.5 with lime (0.5 – 1.0 ppb) to combat corrosion and buffer H2S intrusions.
- Add corrosion inhibitor to mud system
- Use H2S Scavenger **SAFE-SCAV HSW** if necessary
- See the **SAFE-SCAVE HSW** Product Sheet for usage recommendations.

22,000 in HOLE, 18,625 in CASING, 3700.00 ft / 3700.00 ft	
FLUID SYSTEM	Freshwater - Water Based
OPERATION	Drilling run - Trip In
COMMENT	Fresh Water + Hi-Vis Sweeps for hole cleaning
KEY PRODUCTS	SODIUM CHLORIDE BRINE, DEFOAM-X, DUO-VIS, MY-LO-JEL, Lime, M-I WATE, M-I PAC UL
POTENTIAL PROBLEMS	
SOLIDS CONTROL	

INTERVAL DRILLING FLUID PROPERTIES (Rec / Min - Max)											
Measured Depth (ft)	Density (lbm/gal)	Funnel Viscosity (s)	Plastic Viscosity (cP)	Yield Point (lb/100ft ²)	6 RPM Dial Reading	pH	Brine Salinity (wt%) @ Salt Type	API Fluid Loss (mL/30min)	%LGS (%)	MBT (lbm/bbl)	Total Hardness as Calcium (mg/L)
1650.00 - 3700.00	10.00 / 10.00 - 10.00	28.00 / 28.00 - 32.00	2.00 / 1.00 - 5.00	4.00 / 2.00 - 8.00	1.00 / 1.00 - 1.00	9.50 - 10.00	0.00 / 0.00 - 0.00 @ None	0.00 - 100.00	5.00 / 3.00 - 6.00	- 20.00	0.00 - 1600.00

- Interval Recommendations:
- The objective of this interval is to drill the 22" using saturated brine from 1,650' until interval TD, where the 18.625" Salt Section casing will be set.
 - Drill out the 24" casing with Saturated Brine 10.0 ppg MW.
 - Keep Saturated brine in the system to avoid excessive washout and chemical contamination from Salado formation.
 - Maintain pH 10 with additions of Lime.
 - Monitor volumes closely and have plenty of reserve Brine in frac tanks during this interval. Refer to LCM Decision Tree as needed.
 - Have some LCM ready to mix on location. LCM can be mixed with kill mud prior to pump or can be mixed and pumped before the kill mud if needed. This will mitigate fluid lost issues after pumping kill mud.
 - If water flow occurs, recommend attack the issue ASAP and kill the well to prevent more produce water going to the system and create more contamination.
 - Maintain hardness below 400 mg/l if possible at all times. This will allow the use of Duo-vis to increase the viscosity if needed.
 - If H2S is present, treat system with H2S Scavenger.
 - Upon reaching TD, sweep hole with a 50 bbl (80 sec/qt) sweep prior to pulling out of hole to run casing.



- Plan to spot Starch Pill in lower open hole prior POOH for casing unless active is already sufficiently treated.

Hole Cleaning & LCM Sweeps:

- Pump Hi-Vis Sweeps with **Duo-Vis / My-Lo-Jel** for hole cleaning as needed.
- LCM concentration and particle size should be taken into consideration depending on use of Down Hole Motors and Bit Jet sizes.
- LCM can be added as needed if losses occur (3.0 – 4.0 ppb of each). Ensure LCM totals are consulted with MWD and Directional prior to pumping with higher total concentrations
 - Safe-Carb 250
 - Tiger Bullets
 - Nut Plug F/M

Well Control:

- Monitor pits for gains and losses.
- Keep enough barite on location to increase active system mud weight by 1 pound per gallon.
- Have a load of sack barite along with the Bulk barite on location all the time.

Corrosion/H2S:

- Increase pH to ≥ 9.5 with lime (0.5 – 1.0 ppb) to combat corrosion and buffer H2S intrusions.
- Add corrosion inhibitor to mud system
- Use H2S Scavenger **SAFE-SCAV HSW** if necessary
- See the **SAFE-SCAVE HSW** Product Sheet for usage recommendations.

10,500 in HOLE, 13,375 in CASING, 5880.00 ft / 5880.00 ft

FLUID SYSTEM	Cut Brine - Water Based
OPERATION	Drilling run - Trip In
COMMENT	NaCL cut brine
KEY PRODUCTS	DEFOAM-X, DUO-VIS, POLY-PLUS, MY-LO-JEL, Lime, M-I WATE, SODA ASH
POTENTIAL PROBLEMS	
SOLIDS CONTROL	

INTERVAL DRILLING FLUID PROPERTIES (Rec / Min - Max)

Measured Depth (ft)	Density (lbm/gal)	Funnel Viscosity (s)	Plastic Viscosity (cP)	Yield Point (lb/100ft ²)	6 RPM Dial Reading	pH	Brine Salinity (wt%) @ Salt Type	Total Chlorides (mg/L)	API Fluid Loss (mL/30min)	%LGS (%)	MBT (lbm/bbl)	Total Hardness as Calcium (mg/L)
3700.00 - 5880.00	10.00 / - 10.00	28.00 / 28.00 - 32.00	1.00 / 1.00 - 5.00	2.00 / 2.00 - 8.00	3.00 / 3.00 - 5.00	10.00 - 11.00	11.90 / 11.90 - 14.50 @ NaCl (Sodium Chloride)	78014	0.00 - 100.00	3.00 / 1.00 - 6.00		600.00 - 1600.00

Interval Recommendations:

- The objective of this interval is to drill the 16.5" using saturated brine from 3,700' until interval TD, where the 13.375" intermediate # 1 casing will be set.
- Drill out the 18.625" casing with Saturated Brine 10.0 ppg MW.
- Keep Saturated brine in the system to avoid excessive washout and chemical contamination from Salado formation.
- Maintain pH 10 with additions of **Lime**.
- Monitor volumes closely and have plenty of reserve Brine in frac tanks during this interval. Refer to LCM Decision Tree as needed.
- Have some LCM ready to mix on location. LCM can be mixed with kill mud prior to pump or can be mixed and pumped before the



kill mud if needed. This will mitigate fluid lost issues after pumping kill mud.

- If water flow occurs, recommend attack the issue ASAP and kill the well to prevent more produce water going to the system and create more contamination.
- Maintain hardness below 400 mg/l if possible at all times. This will allow the use of Duo-vis to increase the viscosity if needed.
- If H2S is present, treat system with H2S Scavenger.
- Upon reaching TD, sweep hole with a 50 bbl (80 sec/qt) sweep prior to pulling out of hole to run casing.
- Plan to spot Starch Pill in lower open hole prior POOH for casing unless active is already sufficiently treated.

Hole Cleaning & LCM Sweeps:

- Pump HI-Vis Sweeps with **Duo-Vis / My-Lo-Jel** for hole cleaning as needed.
- LCM concentration and particle size should be taken into consideration depending on use of Down Hole Motors and Bit Jet sizes.
- LCM can be added as needed if losses occur (3.0 – 4.0 ppb of each). Ensure LCM totals are consulted with MWD and Directional prior to pumping with higher total concentrations
 - Safe-Carb 250
 - Tiger Bullets
 - Nut Plug F/M

Well Control:

- Monitor pits for gains and losses.
- Keep enough barite on location to increase active system mud weight by 1 pound per gallon.
- Have a load of sack barite along with the Bulk barite on location all the time.

Corrosion/H2S:

- Increase pH to ≥ 9.5 with lime (0.5 – 1.0 ppb) to combat corrosion and buffer H2S intrusions.
- Add corrosion inhibitor to mud system
- Use H2S Scavenger **SAFE-SCAV HSW** if necessary
- See the **SAFE-SCAVE HSW** Product Sheet for usage recommendations.

12.250 in HOLE, 9.625 in CASING, 11690.00 ft / 11690.00 ft

FLUID SYSTEM	Cut Brine - Water Based
OPERATION	Drilling run - Trip In
COMMENT	NaCL Cut Brine
KEY PRODUCTS	DEFOAM-X, DUO-VIS, POLY-PLUS, Lime, SODA ASH, M-I WATE
POTENTIAL PROBLEMS	
SOLIDS CONTROL	

INTERVAL DRILLING FLUID PROPERTIES (Rec / Min - Max)

Measured Depth (ft)	Density (lbm/gal)	Funnel Viscosity (s)	Plastic Viscosity (cP)	Yield Point (lb/100ft²)	6 RPM Dial Reading	pH	Brine Salinity (wt%) @ Salt Type	Total Chlorides (mg/L)	API Fluid Loss (mL/30min)	% LGS (%)	MET (lbm/bbl)	Total Hardness as Calcium (mg/L)
5880.00 - 11690.00	10.00 / 10.00 - 11.50	28.00 / 28.00 - 35.00	1.00 / 1.00 - 8.00	2.00 / 2.00 - 15.00	3.00 / 2.00 - 6.00	10.00 - 11.00	11.90 / 11.90 - 14.50 @ NaCl (Sodium Chloride)	78014	0.00 - 100.00	3.00 / 2.00 - 6.00		

Interval Recommendations:

- The objective of this interval is to drill the 12.25" using Saturated brine from 5,880' until interval TD, where the 9.625" Intermediate # 2 casing will be set.



- Drill out the 13.375" casing with saturated brine, 10.0 ppg MW.
 - Run all solids control equipment as much as possible.
 - Maintain pH 10 with additions of **Lime**.
 - Monitor volumes closely and have plenty of reserve Brine in frac tanks during this interval. Refer to LCM Decision Tree as needed.
 - Have some LCM ready to mix on location. LCM can be mixed with kill mud prior to pump or can be mixed and pumped before the kill mud if needed. This will mitigate fluid lost issues after pumping kill mud.
 - If water flow occurs, recommend attack the issue ASAP and kill the well to prevent more produce water going to the system and create more contamination.
 - Maintain hardness below 400 mg/l if possible at all times. This will allow the use of Duo-vis to increase the viscosity if needed.
 - Increase mud weight up to 11.5 ppg progressively to control formation pressure. Use Duo-VIS to adjust viscosity before adding barite.
 - If H2S is present, treat system with H2S Scavenger.
 - Upon reaching TD, sweep hole with a 50 bbl (80 sec/qt) sweep prior to pulling out of hole to run casing.
 - Plan to spot Starch Pill in lower open hole prior POOH for casing unless active is already sufficiently treated.
- Hole Cleaning & LCM Sweeps:
- Pump Hi-Vis Sweeps with **Duo-Vis / My-Lo-Jel** for hole cleaning as needed.
 - LCM concentration and particle size should be taken into consideration depending on use of Down Hole Motors and Bit Jet sizes.
 - LCM can be added as needed if losses occur (3 – 4 ppb of each).Ensure LCM totals are consulted with MWD and Directional prior to pumping with higher total concentrations
 - Safe-Carb 250
 - Tiger Bullets
 - Nut Plug F/M
 - M-I-X II F
- Well Control:
- Monitor pits for gains and losses.
 - Keep enough barite on location to increase active system mud weight by 1 pound per gallon.
 - Have a load of sack barite along with the Bulk barite on location all the time.
- Corrosion/H2S:
- Increase pH to ≥ 9.5 with lime (0.5 – 1.0 ppb) to combat corrosion and buffer H2S intrusions.
 - Add corrosion inhibitor to mud system
 - Use H2S Scavenger **SAFE-SCAV HSW** if necessary
 - See the **SAFE-SCAVE HSW** Product Sheet for usage recommendations.

8,500 in HOLE, 7,000 in PRODUCTIONCASING, 14880.00 ft / 14880.00 ft										
FLUID SYSTEM	MEGADRIL OBM - Oil Based									
OPERATION	Drilling run - Trip In									
KEY PRODUCTS	Calcium Chloride, CLEAN UP, MUL P, MUL S, Lime, M-I WATE, VERSATROL HT, VERSAMOD, VG-PLUS									
POTENTIAL PROBLEMS										
SOLIDS CONTROL										
INTERVAL DRILLING FLUID PROPERTIES (Rec / Min - Max)										
Measured Depth (ft)	Density (lbm/gal)	Plastic Viscosity (cP)	Yield Point (lb/100ft2)	6 RPM Dial Reading	Excess Lime (lbm/bbl)	Brine Salinity (wt%) @ Salt Type	Electrical Stability (V)	OWR (%)	HTHP Fluid Loss (mL/30min)	%LGS (%)



11690.00 - 14880.00	11.50 / 11.50 - 13.00	12.00 / 10.00 - 20.00	10.00 / 10.00 - 18.00	5.00 / 4.00 - 6.00	2.00 / 2.00 - 5.00	20.00 / 20.00 - 25.00 @ CaCl2 (Calcium Chloride)	650.00 - 1000.00	70.00 / 70.00 - 80.00	3.00 - 8.00	3.00 / 2.00 - 8.00		
Interval Recommendations												
<ul style="list-style-type: none">The objective of this interval is to drill the well from 11,690' to 14,880' with MEGADRIL OBM system where the 7" production casing will be set.After dumping WBM from the previous interval and cleaning pits displace to Megadril OBM, Have all OBM on location and weighted as per customer prior to displacement ~ 11.5 ppg. <u>Same mud weight should be maintained till TD. We will check with Management and MPD teams if we need to adjust the Mud Weight up to 13.0 ppg before rigging down MPD equipment. Offset well have been analyzed with a final MW of 12.5 ppg with no kicking events.</u>Run both centrifuges during drilling operations to remove drill solids.Stay on top of bulk barite consumption and orders through TD.No barite recovery will be run. Slow and steady strip on active fluid during circulation. Maintain proper PPG in active the additions of bulk barite.Maintain the following mud properties throughout the interval:<ul style="list-style-type: none">Oil/Water ratio at 70/30 – 80/20 with diesel and waterSalt concentration at 20-25% by weight with CALCIUM CHLORIDE.Electrical stability at >650 volts (as long as no water appears in the filtrate) with additions of MUL P and MUL S @ 2.5 to 1 ratioHTHP fluid loss at <10 ml/30min @ 250°F with VERSATROL MYield point at 10-18 lb/100ft² with VG-Plus6 rpm readings in the 6 – 10 range with VERSAMODMaintain Excess Lime 2 – 3 ppb with Lime. Additional Excess Lime should be maintained while experiencing high gas units												
After reaching total depth (TD) and prior to pulling out of the hole (POOH), mix and spot a Csg-go Pill to enhance lubricity during the casing run. Incorporate 10 ppb of ALPINE DRILL BEADS into the mixture. The volume of the pill will be determined in coordination with the Company Man based on the required length.												
5.875 in HOLE, OPENHOLE, 16400.00 ft / 16400.00 ft												
FLUID SYSTEM	Dispersed WBM - Water Based											
OPERATION	Drilling run - Trip In											
KEY PRODUCTS	M-I PAC UL, DUO-VIS, SAFE-CARB 250, SAFE-CARB 20											
POTENTIAL PROBLEMS												
SOLIDS CONTROL												
INTERVAL DRILLING FLUID PROPERTIES (Rec / Min - Max)												
Measured Depth (ft)	Density (lbm/gal)	Funnel Viscosity (s)	Plastic Viscosity (cP)	Yield Point (lb/100ft²)	6 RPM Dial Reading	pH	Brine Salinity (wt%) @ Salt Type	Total Chlorides (mg/L)	API Fluid Loss (mL/30min)	%LGS (%)	MBT (lbm/bbl)	Total Hardness as Calcium (mg/L)
14880.00 - 16400.00	10.00 / 10.00	45.00 / 35.00 - 50.00	5.00 / 5.00 - 10.00	12.00 / 10.00 - 15.00	6.00 / 4.00 - 6.00	9.00 - 10.00	0.00 / 0.00 - 0.00 @ KCl (Potassium Chloride)	0	- 8.00	2.00 / 2.00 - 4.00	- 5.00	- 1000.00
Interval Recommendations:												
<ul style="list-style-type: none">The objective of this interval is to drill the 5.875" using Clear Brine to interval TD.Perform displacement prior to Csg Shoe depth to Clear Brine.Drill out the 7" casing with Clear Brine, 10.0 ppg MW.Maintain pH 10 with additions of CAUSTIC SODA.												



- Monitor volumes closely and have plenty of reserve Brine in frac tanks during this interval. Refer to LCM Decision Tree as needed.
 - Have some LCM ready to mix on location. LCM can be mixed with kill mud prior to pump or can be mixed and pumped before the kill mud if needed. This will mitigate fluid lost issues after pumping kill mud.
 - If water flow occurs, recommend attack the issue ASAP and kill the well to prevent more produce water going to the system and create more contamination.
 - Maintain hardness below 400 mg/l if possible at all times. This will allow the use of Duo-vis to increase the viscosity if needed.
 - If H2S is present, treat system with H2S Scavenger.
 - Upon reaching TD, sweep hole with a 50 bbl (80 sec/qt) sweep prior to pulling out of hole to run casing.
 - Plan to spot Starch Pill in lower open hole prior POOH for casing unless active is already sufficiently treated.
- Hole Cleaning & LCM Sweeps:
- Pump HI-Vis Sweeps with Duo-Vis for hole cleaning as needed.
 - LCM concentration and particle size should be taken into consideration depending on use of Down Hole Motors and Bit Jet sizes.
 - LCM can be added as needed if losses occur (3 – 5 ppb of each). Ensure LCM totals are consulted with MWD and Directional prior to pumping with higher total concentrations.
- Safe-Carb 250
 - Safe-Carb 40
 - Safe-Carb 20
- Well Control:
- Monitor pits for gains and losses.
 - Keep enough barite on location to increase active system mud weight by 1 pound per gallon.
 - Have a load of sack barite along with the Bulk barite on location all the time.
- Corrosion/H2S:
- Increase pH to ≥ 9.5 with lime (0.5 – 1.0 ppb) to combat corrosion and buffer H2S intrusions.
 - Add corrosion inhibitor to mud system
 - Use H2S Scavenger **SAFE-SCAV HSW** if necessary
 - See the **SAFE-SCAVE HSW** Product Sheet for usage recommendations.



3.4.6 Formation Tests

Reference	Test Type	Test Equivalent Mud Weight (lbm/gal)	Fluid Density (lbm/gal)	Surface Test Pressure (psi)	Fracture Pressure (EMW) (lbm/gal)	Comments
22 in Salt Section Previous Casing Shoe MD/TVD: 1640.00 ft / 1640.00 ft Test Depth MD/TVD: 1660.00 ft / 1660.00 ft	FTT	14.50	10.00	383.38	14.81	Refer to the Formation Test Check and SOP List in the link below WGC-WC-CL-001 After - Review Formation Pressure Test Readiness CL WGC-WC-SOP-003 Formation Integrity and Leak Off Tests SOP
16.5 in Intermediate Section 1 Previous Casing Shoe MD/TVD: 3690.00 ft / 3690.00 ft Test Depth MD/TVD: 3710.00 ft / 3710.00 ft	FTT	13.00	9.20	728.42	13.28	
12.25 in Intermediate Section 2 Previous Casing Shoe MD/TVD: 5870.00 ft / 5870.00 ft Test Depth MD/TVD: 5890.00 ft / 5890.00 ft	FTT	12.30	9.50	853.82	11.36	
8.5 in Protection Section Previous Casing Shoe MD/TVD: 11680.00 ft / 11680.00 ft Test Depth MD/TVD: 11700.00 ft / 11700.00 ft	FTT	14.40	9.50	2973.09	14.61	
5.875 in Injection Section Previous Casing Shoe MD/TVD: 14870.00 ft / 14870.00 ft Test Depth MD/TVD: 14890.00 ft / 14890.00 ft	FTT	11.50	9.00	1931.17	14.71	



State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division

1. OCD Conditions of Approval Referenced in Commission Order R-20694

The following conditions are detailed in Findings Paragraph 28:

- a. Conduct a step-rate test and fall-off test on the completed well before commencing injection. The maximum injection pressure for the proposed well may be appropriately adjusted after a step-rate test with the approval of the Division Director.
- b. Include a biocide and corrosion inhibited diesel in the annular fluid of the wells.
- c. Incorporate temperature-activated controls to govern the temperatures of injected fluid within parameters set by the operator and provide an alarm system for those controls should the parameters be exceeded.
- d. Equip the well with a pressure-limiting device as well as a one-way safety valve (with the proper interior drift diameter) on the tubing approximately 250 feet below the surface.
- e. All well drilling logs (including mudlogs, electric logs and daily logs) and the static bottom-hole pressure measured at completion of drilling the well shall be submitted to the Division using the appropriate OCD form in E-permitting.
- f. All casing should have cement circulated to the surface, with an additional casing string through the Salado formation at an estimated depth of 2,100 feet to 3,350 feet from the surface.
- g. Well construction should be designed for exposure to corrosive environment including, but not limited to, casing, casing cement, and the packer in proximity of injection interval.
- h. The final reservoir evaluation should confirm that the open-hole portion of the AGI well does not intersect the fault plane of any identified fault especially for those wells having the Devonian and Silurian sections for disposal intervals.

2. OCD Additional Conditions of Approval Standard to UIC Permits

- a. Operator shall complete a cement bond log ("CBL") for the casing isolating the Salado Formation prior to drilling the next casing interval and submit to the Division prior to commencing injection.
- b. If cement does not circulate on any casing string, operator shall run a CBL to determine the top of cement, then notify the OCD Engineering Bureau and the appropriate OCD Inspection Supervisor and submit the CBL prior to continuing with any further cementing on the Well. If the cement did not tie back into next higher casing shoe, Permittee shall perform remedial cement action to bring the cement to a minimum of two hundred (200) feet above the next higher casing shoe.

Santa Fe Main Office
Phone: (505) 476-3441
General Information
Phone: (505) 629-6116

Online Phone Directory Visit:
<https://www.emnrd.nm.gov/oed/contact-us/>

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION

C-102
Revised July 9, 2024
Submit Electronically
via OCD Permitting

Submittal Type:

☒ Initial Submittal
☐ Amended Report
☐ As Drilled

WELL LOCATION INFORMATION

API Number
30-025-54599

Pool Code
97834

Pool Name
AGI: DEVONIAN-FUSSELMAN

Property Code
337198

Property Name
LIBBY AGI

Well Number
#1

OGRID No.
372603

Operator Name
DKL FIELD SERVICES, LLC

Ground Level Elevation
3,719.4'

Surface Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal

Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL

Section
26

Township
20

Range
34

Lot

Ft. from S
1,588'

Ft. from W
2,061'

Latitude
N32.54121°

Longitude
W103.53281°

County
LEA

Bottom Hole Location

UL

Section

Township

Range

Lot

Ft. from N/S

Ft. from E/W

Latitude

Longitude

County

Dedicated Acres

Infill or Defining Well

Defining Well API

Overlapping Spacing Unit (Y/N)

Consolidation Code

Order Numbers.

Well setbacks are under Common Ownership: ☐ Yes ☐ No

Kick Off Point (KOP)

UL

Section

Township

Range

Lot

Ft. from N/S

Ft. from E/W

Latitude

Longitude

County

First Take Point (FTP)

UL

Section

Township

Range

Lot

Ft. from N/S

Ft. from E/W

Latitude

Longitude

County

Last Take Point (LTP)

UL

Section

Township

Range

Lot

Ft. from N/S

Ft. from E/W

Latitude

Longitude

County

Unitized Area or Area of Uniform Interest

Spacing Unit Type ☐ Horizontal ☐ Vertical

Ground Floor Elevation:

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Signature

9/11/25

Date

Hector J. Sanchez

Printed Name

hector.sanchez@delteklogistics.com

Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Signature and Seal of Professional Surveyor

22896

11/12/2024

Certificate Number

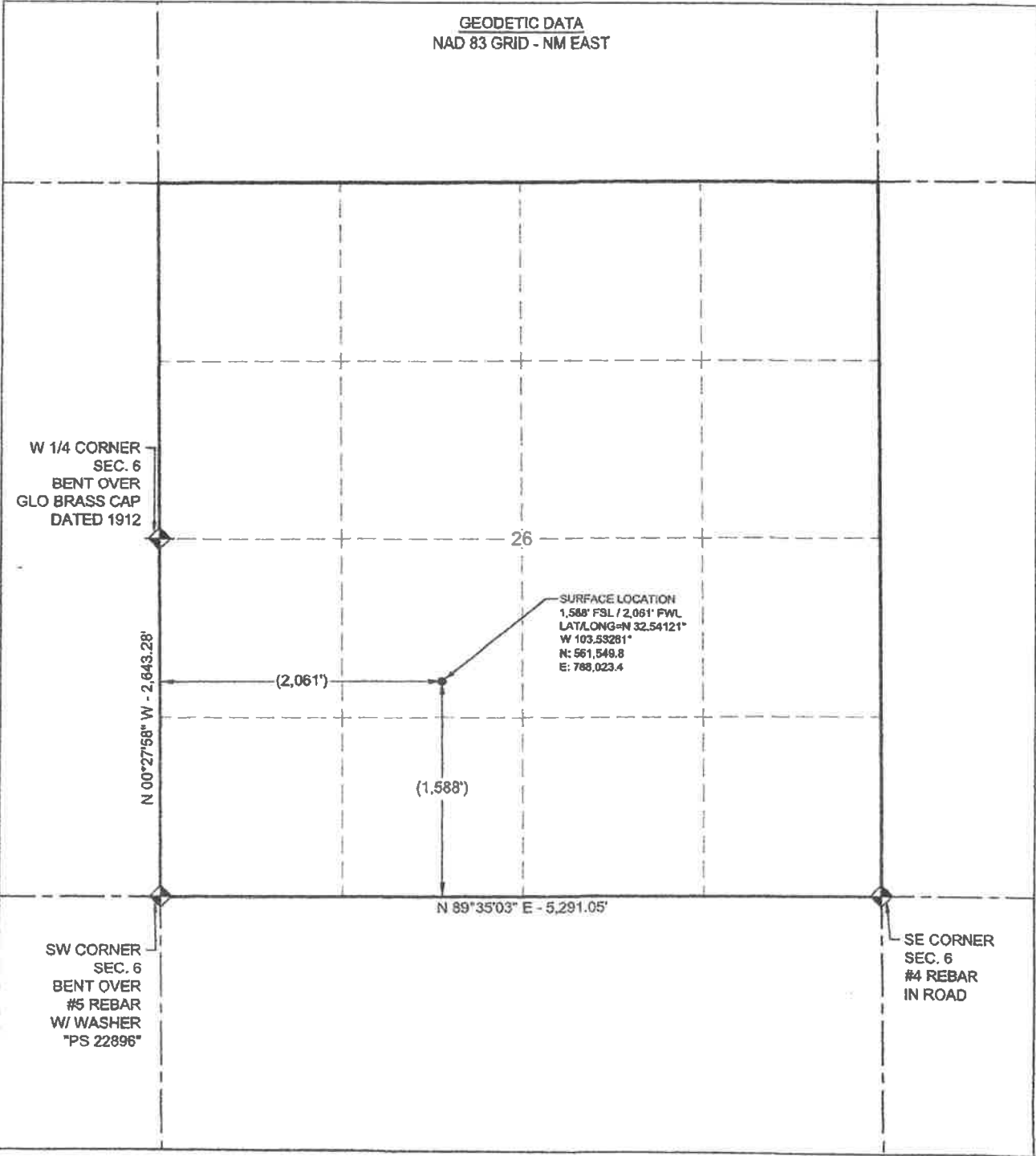
Date of Survey

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.





3.4.3 Casing Program

Section	Type	Tubular	OD (in)	ID (in)	Drift ID (in)	Start MD (ft)	End MD (ft)	TOC (ft)	Grade	Connection
30 Conductor	Conductor	30" Casing 118.65 lbm/ft X56 MIJ	30.000	29.250	29.062	32.50	152.50		X56	MIJ
28 in Surface Section	Surface Casing	24" Casing 186.41 lbm/ft X56 XLF	24.000	22.500	22.312	32.50	1640.00	32.50	X56	XLF
22 in Salt Section	Casing	18.625" Casing 115 lbm/ft K55 BTC	18.625	17.437	17.250	32.50	1700.00	32.50	K55	BTC
22 in Salt Section	Tapered	18.625" Casing 115 lbm/ft J55 BTC	18.625	17.437	17.250	1700.00	3690.00	32.50	J55	BTC
16.5 in Intermediate Section 1	Casing	13.375" Casing 68 lbm/ft L80 BTC	13.375	12.415	12.259	32.50	5870.00	32.50	L80	BTC
12.25 in Intermediate Section 2	Casing	9.625" Casing 47 lbm/ft L80HC BTC	9.625	8.681	8.525	32.50	11680.00	32.50	L80	BTC
8.5 in Protection Section	Production Casing	7in 32lb-ft VASS95 VA SUPERIOR	7.000	6.094	5.969	32.50	14570.00	32.50	VA SS95	VAsuperior
8.5 in Protection Section	Tapered	7in, 32lb-ft Nickel Alloy G3 110 Tenaris BLUE	7.000	6.094	5.969	14570.00	14870.00	32.50	G3-110	Blue
5.875 in Injection Section	Open Hole					14880.00	16400.00			



3.4.4 Cement Program

Reference	Fluid Type	Description	Density (lbm/gal)	Yield (ft3/sack)	Top of Fluid MD / TVD (ft)	Excess Volume (%)	Total Volume (bbl)	Dry Cement (sack)	Comments
Wellbore: Libby AGI #1 Hole: 28.000 in Surface Casing: 24.000 in MD/TVD: 1640.00 / 1640.00 ft	Wash	Gelled Water	8.33		Returns		50.00		
	Lead	Class C	12.80	1.81	32.50 / 32.50	100.00	512.47	1589.68	
	Tail	Class C	14.80	1.33	1340.00 / 1340.00	100.00	142.95	603.45	
Wellbore: Libby AGI #1 Hole: 22.000 in Casing: 18.625 x 18.625 in MD/TVD: 3690.00 / 3690.00 ft	Wash	Gelled Water	8.33		Returns		50.00		
	Lead	Class C	12.80	1.81	32.50 / 32.50	100.00	720.85	2236.06	
	Tail	Class C	14.80	1.33	3390.00 / 3390.00	100.00	92.63	391.04	
Wellbore: Libby AGI #1 1st Stage Hole: 16.500 in Casing: 13.375 in MD/TVD: 5870.00 / 5870.00 ft	Wash	MUDPUSH Express LCM	9.40		4679.50 / 4679.50		20.00		
	Lead	Class TXI	11.50	2.32	4900.00 / 4900.00	150.00	106.56	257.89	
	Tail	Class C	14.80	1.33	5370.00 / 5370.00	150.00	126.36	533.43	
Wellbore: Libby AGI #1 2nd Stage Stage MD/TVD: 4900.00 / ft Hole: 16.500 in Casing: 13.375 in MD/TVD: 5870.00 / 5870.00 ft	Wash	MUDPUSH Express LCM	10.50		Returns		50.00		
	Lead	Class TXI	11.50	2.32	32.50 / 32.50	150.00	610.84	1478.29	
	Tail	Class C	14.80	1.33	4400.02 / 4400.02	150.00	113.36	478.55	
Wellbore: Libby AGI #1 1st Stage Hole: 12.250 in Casing: 9.625 in MD/TVD: 11680.00 / 11680.00 ft	Wash	MUDPUSH Express LCM	11.80		7101.60 / 7101.60		28.92		
	Lead	Class TXI	12.00	2.04	7620.00 / 7620.00	80.00	376.02	1034.90	
	Tail	Class C	14.80	1.33	11365.00 / 11365.00	80.00	37.98	160.34	
Wellbore: Libby AGI #1 2nd Stage Stage MD/TVD: 7600.00 / ft Hole: 12.250 in Casing: 9.625 in MD/TVD: 11680.00 / 11680.00 ft	Wash	MUDPUSH Express LCM	11.80		Returns		40.00		
	Lead	Class TXI	12.00	2.04	32.50 / 32.50	0.00	343.31	944.87	
	Tail	EverCRETE	15.90	1.08	5780.00 / 5780.00	80.00	181.22	942.08	
Wellbore: Libby AGI #1 1st Stage Hole: 8.500 in Production Casing: 7.000 x	Wash	MUDPUSH Express + PNET	11.50		8886.00 / 8886.00		75.35		
	Lead	Class TXI	12.50	1.56	11815.00 / 11815.00	100.00	108.09	389.04	



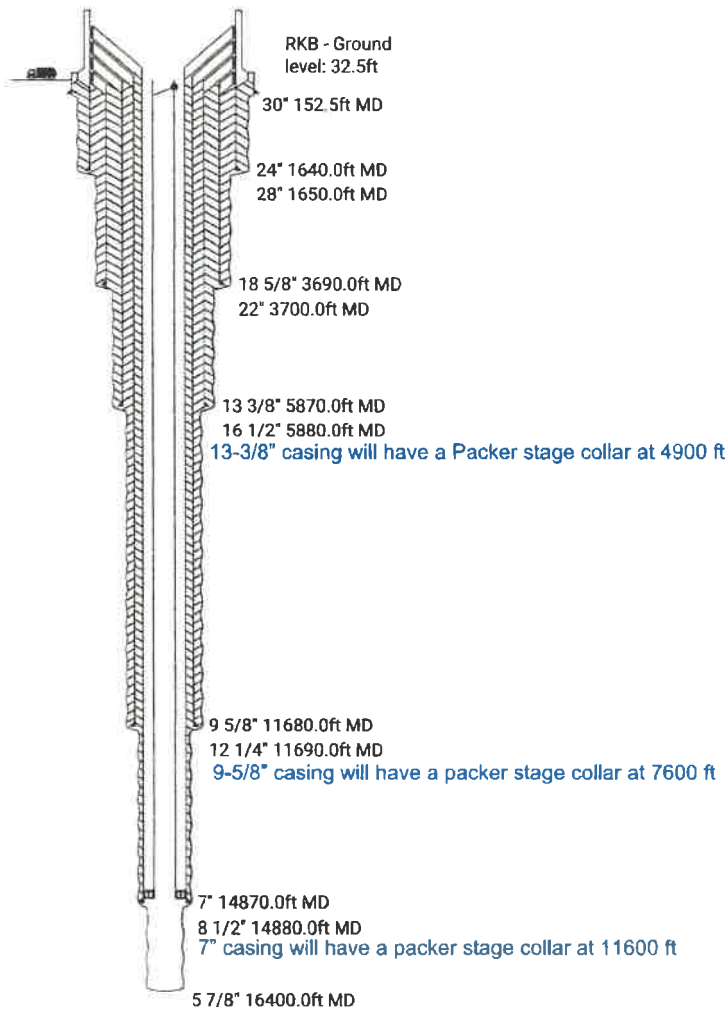
7.000 in MD/TVD: 14870.00 / 14870.00 ft	Tail	EverCRETE	15.90	1.08	14208.00 / 14208.00	100.00	32.75	170.23	
Wellbore: Libby AGI #1 2nd Stage Stage MD/TVD: 11585.00 / ft Hole: 8.500 in Production Casing: 7.000 x 7.000 in MD/TVD: 14870.00 / 14870.00 ft	Wash	MUDPUSH Express + PNET	11.50		Returns	0.00	40.00		
	Lead	Lead TXI	12.50	1.56	32.50 / 32.50	0.00	295.82	1064.68	

The 18-5/8" cement jobs are planned to be single-stage jobs. This job should consider a bottom plug to reduce contamination, as in these wells, it is essential that cement is shown to surface to fulfill the OCD requirements.

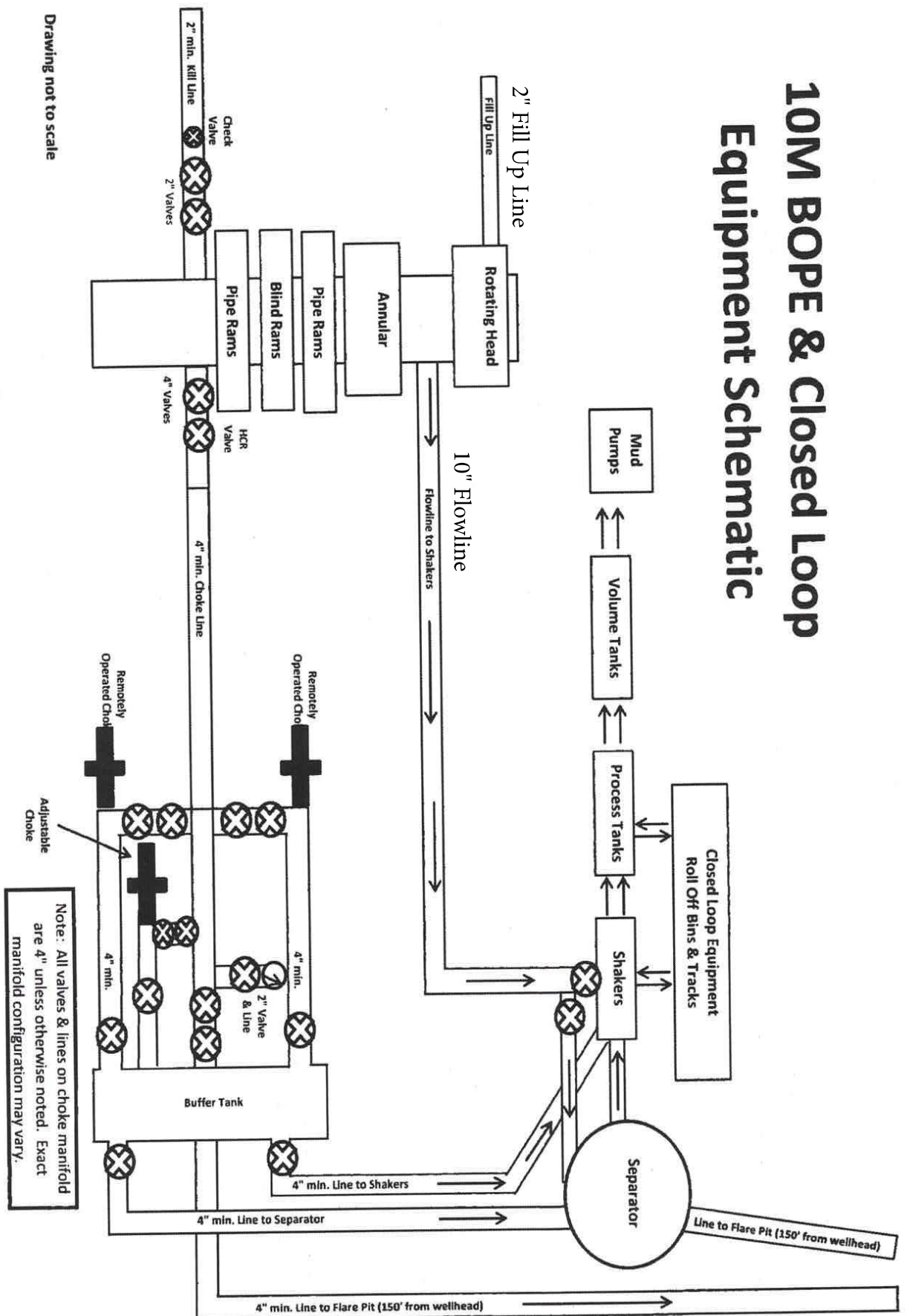
****For the 18-5/8" cement job, cement will be pumped until pure cement is returned to the surface. For the other sections, a caliper log will be taken, and the final excess will be on top of the caliper volume. Excess may be changed depending on the result of the caliper.**



3.4.1 Wellbore Schematic



10M BOPE & Closed Loop Equipment Schematic



Drawing not to scale

DKL FIELD SERVICES
LIBBY AGI #001
1588' FSL & 2061 FWL
SEC 26 – T20S – R34E
LEA COUNTY, NM

FORMATION TOPS
GL 3719.4'

Rustler	1597'
Top of Salt	1914'
Base of Salt	3330'
Yates	3667'
7 Rivers	4005'
Capitan Reef	5038'
Top of DMG	5849'
Brushy	7598'
Bone Spring	8697'
Wolfcamp	11,662'
Morrow	13,286'
Woodford	14,679'
Devonian	14,848'
Fussellman	15,964'
Montoya	16,376'



3.4.15 Wellhead & BOP Pressure Test

Initial high pressure test: The 21-1/4" 5K stack should be pre-tested on BOP pressure testing stump as per below testing schedule:

21-1/4" 3K BOP stack

Casing Size (in)	Stack Size (in)	Rating (PSI)	Low Pressure (PSI)	High Pressure (PSI)
18-5/8"	21-1/4" Annular	5,000	300	3500
	21-1/4" Pipe Ram	5,000	300	5000
	21-1/4" Pipe Ram	5,000	300	5000

Subsequent high pressure test: BOPs shall be tested to the maximum anticipated surface pressure for the borehole sections that are to be drilled.

The interval between pressure tests shall not exceed 21 days unless local regulations mandate more frequent testing. The pressure test should be planned to minimize disruption to normal operations while ensuring compliance with the 21-day requirement.

21-314" 5K BOP stack

Casing Size (in)	Stack Size (in)	Rating (PSI)	Low Pressure (PSI)	High Pressure (PSI)
18-5/8"	21-1/4" Annular	5,000	250	2200
	21-1/4" Pipe Ram	5,000	250	2200
	21-1/4" Pipe Ram	5,000	250	2200
	Choke/Kill line	5,000	250	2200
	Choke manifold	5,000	250	2200
	CHH outer valves	5,000	250	2200

*MASP with full replacement to 0.1 Psi/ft Gas while drilling next section where this BOP installed for equal to 2114 psi.

This pressure test will include stand pipe with rotary hose, pump discharge line, FOSV, gray valve and TDS IBOP

- Function test 21-1/4" annular with 5" drill pipe. Verify closing time <45 secs (API-16D).
- Pressure test BOP manual and HCR valves and kill line check valve.
- Pressure test choke manifold individual valves (from direction of anticipated flow) to 300 psi and 2200psi for 5/10 mins.
- Function the Hydraulic chokes and use the manual choke function (30 sec Max). Confirm all pressure gauges are calibrated and that stroke counter at remote choke panel is working.
- Walk the lines and verify correct rig-up as per P&ID and working diagrams. All TPW rig-ups to be secured with Fibre Rope Restraints (FRR).
- Once nipple up on well, function and pressure test choke hose, kill line and BOP connections to 300 psi and 2200 psi for 5/10 mins.

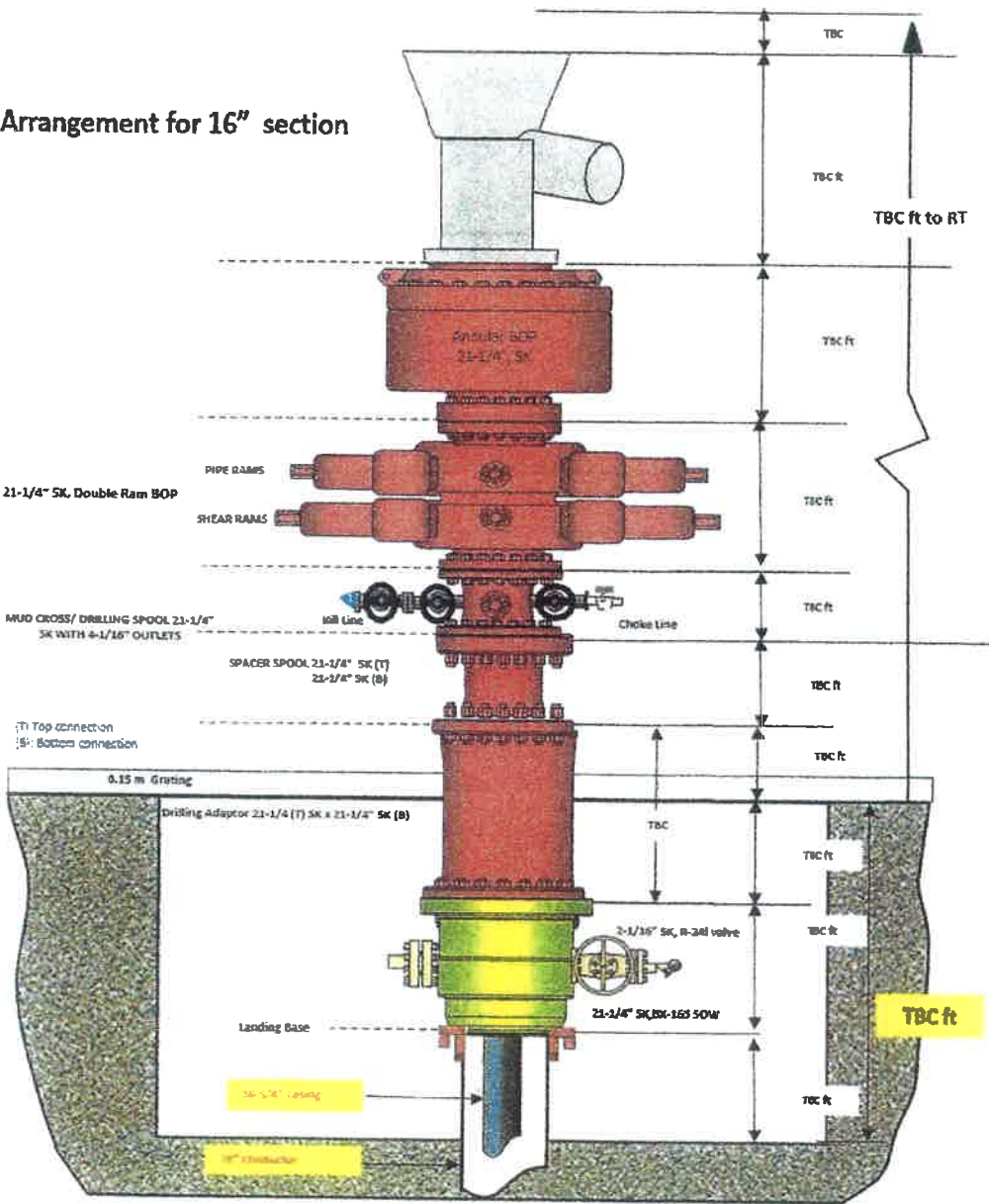
3.5 Intermediate Section 1 - 16" Wellbore - 13-3/8" Casing

Station	Bit Size	Casing ID	Objective of this Section	BT Casing
Surface	16"	13-3/8"	<ul style="list-style-type: none">• Provides zonal isolation for the Capitan Reef	30 feet into the Cherry Formation



3.4.14 Wellhead & BOP

BOP Arrangement for 16" section





Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 505282

ACKNOWLEDGMENTS

Operator: DKL Field Services, LLC 310 Seven Springs Way Brentwood, TN 37027	OGRID: 372603
	Action Number: 505282
	Action Type: [C-101] Drilling Non-Federal/Indian (APD)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
-------------------------------------	--

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 505282

COMMENTS

Operator: DKL Field Services, LLC 310 Seven Springs Way Brentwood, TN 37027	OGRID: 372603
	Action Number: 505282
	Action Type: [C-101] Drilling Non-Federal/Indian (APD)

COMMENTS

Created By	Comment	Comment Date
pgoetze	09-12-2025: providing compiled APD application to C. Walls, BLM for input.	9/12/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 505282

CONDITIONS

Operator: DKL Field Services, LLC 310 Seven Springs Way Brentwood, TN 37027	OGRID: 372603
	Action Number: 505282
	Action Type: [C-101] Drilling Non-Federal/Indian (APD)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	9/16/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	9/16/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	9/16/2025
ward.rikala	a. Conduct a step-rate test and fall-off test on the completed well before commencing injection. The maximum injection pressure for the proposed well may be appropriately adjusted after a step-rate test with the approval of the Division Director.	9/16/2025
ward.rikala	b. Include a biocide and corrosion inhibited diesel in the annular fluid of the wells.	9/16/2025
ward.rikala	c. Incorporate temperature-activated controls to govern the temperatures of injected fluid within parameters set by the operator and provide an alarm system for those controls should the parameters be exceeded.	9/16/2025
ward.rikala	d. Equip the well with a pressure-limiting device as well as a one-way safety valve (with the proper interior drift diameter) on the tubing approximately 250 feet below the surface.	9/16/2025
ward.rikala	e. All well drilling logs (including mudlogs, electric logs and daily logs) and the static bottom-hole pressure measured at completion of drilling the well shall be submitted to the Division using the appropriate OCD form in E-permitting.	9/16/2025
ward.rikala	f. All casing should have cement circulated to the surface, with an additional casing string through the Salado formation at an estimated depth of 2,100 feet to 3,350 feet from the surface.	9/16/2025
ward.rikala	g. Well construction should be designed for exposure to corrosive environment including, but not limited to, casing, casing cement, and the packer in proximity of injection interval.	9/16/2025
ward.rikala	The final reservoir evaluation should confirm that the open-hole portion of the AGI well does not intersect the fault plane of any identified fault especially for those wells having the Devonian and Silurian sections for disposal intervals.	9/16/2025
ward.rikala	a. Operator shall complete a cement bond log ("CBL") for the casing isolating the Salado Formation prior to drilling the next casing interval and submit to the Division prior to commencing injection.	9/16/2025
ward.rikala	b. If cement does not circulate on any casing string, operator shall run a CBL to determine the top of cement, then notify the OCD Engineering Bureau and the appropriate OCD Inspection Supervisor and submit the CBL prior to continuing with any further cementing on the Well. If the cement did not tie back into next higher casing shoe, Permittee shall perform remedial cement action to bring the cement to a minimum of two hundred (200) feet above the next higher casing shoe.	9/16/2025
ward.rikala	Subsurface safety valve must be suitably designed and/or sized to permit the passage of a barrier isolation device to isolate the reservoir at or immediately above the packer using a bridge plug or a locking mandrel set in a landing nipple.	9/16/2025