



U.S. Department of the Interior
Bureau of Land Management

Application for Permit to Drill

APD Package Report

Date Printed:

APD ID:	Well Status:
APD Received Date:	Well Name:
Operator:	Well Number:

APD Package Report Contents

- Form 3160-3
- Operator Certification Report
- Application Report
- Application Attachments
 - Operator Letter of Designation: 1 file(s)
 - Well Plat: 1 file(s)
- Drilling Plan Report
- Drilling Plan Attachments
 - Blowout Prevention Choke Diagram Attachment: 1 file(s)
 - Blowout Prevention BOP Diagram Attachment: 1 file(s)
 - Casing Design Assumptions and Worksheet(s): 4 file(s)
 - Hydrogen sulfide drilling operations plan: 1 file(s)
 - Proposed horizontal/directional/multi-lateral plan submission: 2 file(s)
 - Other Facets: 1 file(s)
 - Other Variances: 2 file(s)
- SUPO Report
- SUPO Attachments
 - Existing Road Map: 1 file(s)
 - Attach Well map: 1 file(s)
 - Production Facilities map: 1 file(s)
 - Water source and transportation map: 1 file(s)
 - Well Site Layout Diagram: 2 file(s)
 - Recontouring attachment: 1 file(s)
- PWD Report
- PWD Attachments
 - None
- Bond Report

- Bond Attachments
 - None

Form 3160-3
(October 2024)

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2027

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.
2. Name of Operator		9. API Well No. 30-025-56140
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
13. State		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



(Continued on page 2)

*(Instructions on page 2)

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM connects this information to an evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

0. SHL: SESW / 399 FSL / 2584 FWL / TWSP: 20S / RANGE: 35E / SECTION: 19 / LAT: 32.5524713 / LONG: -103.4967968 (TVD: 0 feet, MD: 0 feet)
PPP: SWSW / 660 FSL / 1320 FWL / TWSP: 20S / RANGE: 34E / SECTION: 24 / LAT: 32.5531711 / LONG: -103.5180415 (TVD: 11113 feet, MD: 17598 feet)
PPP: SESE / 660 FSL / 0 FEL / TWSP: 20S / RANGE: 34E / SECTION: 24 / LAT: 32.5531821 / LONG: -103.5051823 (TVD: 11252 feet, MD: 13633 feet)
PPP: SESW / 660 FSL / 2544 FWL / TWSP: 20S / RANGE: 35E / SECTION: 19 / LAT: 32.5531884 / LONG: -103.496926 (TVD: 11320 feet, MD: 11681 feet)
BHL: SWSW / 660 FSL / 100 FWL / TWSP: 20S / RANGE: 34E / SECTION: 24 / LAT: 32.5531675 / LONG: -103.5220023 (TVD: 11070 feet, MD: 18819 feet)

BLM Point of Contact

Name: MARIAH HUGHES
Title: Land Law Examiner
Phone: (575) 234-5972
Email: MHUGHES@BLM.GOV

CONFIDENTIAL

Surface Use Conditions of Approval (COAs)
 Carlsbad Field Office – Exhibit A

DOI-BLM-NM-P020-2026-0721-EA
 Igloo 19 24 Well Additions and Pad Expansion

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT – CARLSBAD FIELD OFFICE

Applicant: 3R OPERATING LLC

Location: Lea County, New Mexico

Project Title: Igloo 19 24 Well Additions
 and Pad Expansion

Lease Number: NMNM20979

NEPA #: DOI-BLM-NM-P020-2026-0721-
 EA

Project Type:

SURFACE USE CONDITIONS OF APPROVAL

Failure of the operator to comply with these requirements may result in the assessment of penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on the location during construction, drilling and reclamation activity. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5.

Pad Name	Well Name(s) with Location (with SHL & BHL ¹)
Igloo	IGLOO 19 24 FED COM 601H SHL: 398 feet FSL and 2559 feet FWL, Section 19, T. 20 S., R. 35 E. BHL: 1980 feet FSL and 100 feet FWL, Section 24, T. 20 S., R. 34 E.
Igloo	IGLOO 19 24 FED COM 602H SHL: 399 feet FSL and 2584 feet FWL, Section 19, T. 20 S., R. 35 E. BHL: 660 feet FSL and 100 feet FWL, Section 24, T. 20 S., R. 34 E.

APPLICATION FACILITIES

1. CONSTRUCTION NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at BLM_NM_CFO_Construction_Reclamation@blm.gov at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and COAs on the well site and they shall be made available upon request by the Authorized Officer.

SPECIAL STIPULATIONS

1. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the operator, or any person working on the operator's behalf, on the public or federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area (within 100 ft) of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer, in conjunction with a BLM

¹ SHL is an abbreviation for Surface Hole Location. BHL is an abbreviation for Bottom Hole Location.

Surface Use Conditions of Approval (COAs)
Carlsbad Field Office – Exhibit A

DOI-BLM-NM-P020-2026-0721-EA
Igloo 19 24 Well Additions and Pad Expansion

Cultural Resource Specialist, to determine appropriate actions to prevent the loss of significant scientific values. The operator shall be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

Traditional Cultural Properties (TCPs) are protected by NHPA as codified in 36 CFR 800 for possessing traditional, religious, and cultural significance tied to a certain group of individuals. Though there are currently no designated TCPs within the project area or within a mile of the project area, it is possible for a TCP to be designated after the approval of this project. **If a TCP is designated in the project area after the project's approval, the BLM Authorized Officer will notify the operator of the following conditions and the duration for which these conditions are required.**

1. Temporary halting of all construction, drilling, and production activities to lower noise.
2. Temporary shut-off of all artificial lights at night.

The operator is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA), specifically NAGPRA Subpart B regarding discoveries, to protect human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered during project work. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and a BLM-CFO Authorized Officer will be notified immediately. The BLM will then be required to be notified, in writing, within 24 hours of the discovery. The written notification should include the geographic location by county and state, the contents of the discovery, and the steps taken to protect said discovery. You must also include any potential threats to the discovery and a confirmation that all activity within 100 ft of the discovery has ceased, and work will not resume until written certification is issued. All work on the entire project must halt for a minimum of 3 days and work cannot resume until an Authorized Officer grants permission to do so.

Any paleontological resource discovered by the operator, or any person working on the operator's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. The operator will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

2. WILDLIFE

LESSER PRAIRIE CHICKEN

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken: Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle

Surface Use Conditions of Approval (COAs)
Carlsbad Field Office – Exhibit A

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Igloo 19 24 Well Additions and Pad Expansion

use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 dB measured at 30 ft. from the source of the noise.

Timing Limitation Exceptions: The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

Ground-level Abandoned Well Marker to Avoid Raptor Perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. **For more installation details, contact the Carlsbad Field Office at [BLM NM CFO Construction Reclamation@blm.gov](mailto:BLM_NM_CFO_Construction_Reclamation@blm.gov).**

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: 3R OPERATING, LLC WELL NAME & NO.: IGLOO 19 24 FEDERAL COM #602H LOCATION: 19 – 20S – 35E (399' FSL AND 2584' FWL) COUNTY: Lea County, New Mexico

COA

H ₂ S	<input type="radio"/> No	<input checked="" type="radio"/> Yes		
Potash / WIPP	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-Q	<input type="checkbox"/> Open Annulus <input type="checkbox"/> WIPP
Choose an option (including blank option.)				
Cave / Karst	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High	<input type="radio"/> Critical
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both	<input type="radio"/> Diverter
Cementing	<input type="checkbox"/> Primary Squeeze	<input type="checkbox"/> Cont. Squeeze	<input type="checkbox"/> EchoMeter	<input type="checkbox"/> DV Tool
Special Req	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Waste Prev.	<input type="radio"/> Self-Certification	<input checked="" type="radio"/> Waste Min. Plan	<input type="radio"/> APD Submitted prior to 06/10/2024	
Additional Language	<input checked="" type="checkbox"/> Flex Hose	<input type="checkbox"/> Casing Clearance	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Break Testing
	<input type="checkbox"/> Four-String	<input type="checkbox"/> Offline Cementing	<input checked="" type="checkbox"/> Fluid-Filled	

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the **Wildcat (Bone Springs)** formation. As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the Bureau of Land Management.

B. CASING

1. The **13-3/8 inch** surface casing shall be set at approximately **2,050 feet** (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **9-5/8 inch** intermediate casing and shall be set at approximately **5,400 feet** is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**
3. The minimum required fill of cement behind the **5-1/2 inch** production casing and shall be set at approximately **18,819 feet** is:
 - Cement should tie back at least **200 feet** into previous casing string. Operator shall provide method of verification. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Contact Lea County Petroleum Engineering Inspection Staff:

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the doghouse or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fallback remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hard band drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well-controlled requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive

- strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - iv. The test shall be run on a 5000-psi chart for a 2-3M BOP/BOP, on a 10000-psi chart for a 5M BOP/BOPE and on a 15000-psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one-hour chart. A circular chart shall have a maximum 2-hour clock. If a twelve hour or twenty-four-hour chart is used, tester shall make a notation that it is run with a two-hour clock.
 - v. The results of the test shall be reported to the appropriate BLM office.
 - vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - vii. The BOP/BOPE test shall include a low-pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
 - viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

YJ (03/24/2026)



Operator Certification Data Report

03/31/2026

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Operator

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: KALEN MELTON

Signed on: 02/10/2026

Title: PERMITTING SPECIALIST

Street Address: 3909 N CLASSEN BLVD

City: OKLAHOMA CITY

State: OK

Zip: 73118

Phone: (405)286-9326

Email address: KMELTON@REAGANSMITH.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:



Application Data

03/31/2026

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

APD ID: 10400110146	Submission Date: 02/11/2026	Highlighted data reflects the most recent changes Show Final Text
Operator Name: 3R OPERATING LLC		
Well Name: IGLOO 19 24 FED COM	Well Number: 602H	
Well Type: OIL WELL	Well Work Type: Drill	

Section 1 - General

APD ID: 10400110146	Tie to previous NOS? N	Submission Date: 02/11/2026
BLM Office: Carlsbad	User: KALEN MELTON	Title: PERMITTING SPECIALIST
Federal/Indian APD: FED	Is the first lease penetrated for production Federal or Indian? FED	
Lease number: NMNM20979	Lease Acres:	
Surface access agreement in place?	Allotted?	Reservation:
Agreement in place? NO	Federal or Indian agreement:	
Agreement number:		
Agreement name:		
Keep application confidential? Y		
Permitting Agent? YES	APD Operator: 3R OPERATING LLC	
Operator letter of	3R_NM_Designation_of_Agent_2.5.26_Signed_20260209131747.pdf	

Operator Info

Operator Organization Name: 3R OPERATING LLC		
Operator Address: 20405 STATE HIGHWAY 249 STE 820		Zip: 77070
Operator PO Box:		
Operator City: HOUSTON	State: TX	
Operator Phone: (432)413-4148		
Operator Internet Address:		

Section 2 - Well Information

Well in Master Development Plan? NO	Master Development Plan name:	
Well in Master SUPO? NO	Master SUPO name:	
Well in Master Drilling Plan? NO	Master Drilling Plan name:	
Well Name: IGLOO 19 24 FED COM	Well Number: 602H	
Field/Pool or Exploratory? Field and Pool	Field Name: LEA	Pool Name: BONE SPRING; SOUTH

Operator Name: 3R OPERATING LLC

Well Name: IGLOO 19 24 FED COM

Well Number: 602H

Is the proposed well in an area containing other mineral resources? USEABLE WATER,NATURAL GAS,OIL

Is the proposed well in a Helium production area? N **Use Existing Well Pad?** Y **New surface disturbance?** Y

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: Igloo 19 24 Fed Com **Number:** 601H, 602H

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 20 Miles

Distance to nearest well: 25 FT

Distance to lease line: 399 FT

Reservoir well spacing assigned acres Measurement: 240.1 Acres

Well plat: 20261166_IGLOO_19_24_FED_COM_602H_REV._1___CERTIFIED_FORM_C_102_20260209_20260210 101351.pdf

Well work start Date: 05/15/2026

Duration: 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

Reference Datum: GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	399	FSL	2584	FWL	20S	35E	19	Aliquot SESW	32.5524713	-103.4967968	LEA	NEW MEXICO	NEW MEXICO	S	STATE	3694			N
KOP Leg #1	660	FSL	2594	FWL	20S	35E	19	Aliquot SESW	32.5531885	-103.4967638	LEA	NEW MEXICO	NEW MEXICO	S	STATE	-7054	10761	10748	N
PPP Leg #1-1	660	FSL	2544	FWL	20S	35E	19	Aliquot SESW	32.5531884	-103.496926	LEA	NEW MEXICO	NEW MEXICO	S	STATE	-7626	11681	11320	Y

Operator Name: 3R OPERATING LLC

Well Name: IGL00 19 24 FED COM

Well Number: 602H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
PPP Leg #1-2	660	FSL	0	FEL	20S	34E	24	Aliquot SESE	32.5531821	-103.5051823	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 20979	-7558	13633	11252	Y
PPP Leg #1-3	660	FSL	1320	FWL	20S	34E	24	Aliquot SWSW	32.5531711	-103.5180415	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 123525	-7419	17598	11113	Y
EXIT Leg #1	660	FSL	100	FWL	20S	34E	24	Aliquot SWSW	32.5531675	-103.5220023	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 123525	-7376	18819	11070	Y
BHL Leg #1	660	FSL	100	FWL	20S	34E	24	Aliquot SWSW	32.5531675	-103.5220023	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 123525	-7376	18819	11070	Y



February 5, 2026

Bureau of Land Management
Carlsbad Field Office
520 E Greene St, Carlsbad, NM 88220
Attn: Land Law Examiner

Re: **3R Operating, LLC**
Designation of Agent
Federal Oil & Gas Development
State of New Mexico

Land Law Examiner:

3R Operating, LLC has contracted with Reagan Smith, Inc. to assist in regulatory compliance associated with its federal oil & gas development projects. Reagan Smith has the authority to act as 3R Operating's agent to maintain regulatory compliance, including the submittal of Applications for Permit to Drill, Communitization Agreements, Designations of Operator, Sundry Notices, Enforcement Actions (including Notices of Incompliance), and any other regulatory documents on behalf of 3R Operating, in order to maintain regulatory compliance with the Bureau of Land Management.

Sincerely,

Austin Tramell

Austin Tramell
Director Environmental & Regulatory
3R Operating, LLC

<p>C-102</p> <p>Submit Electronically Via OCD Permitting</p>	<p>State of New Mexico Energy, Minerals, & Natural Resources Department OIL CONSERVATION DIVISION</p>	<p>Revised July 9, 2024 PAGE 1 OF 2</p>		
		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%; text-align: right;">Submittal Type:</td> <td> <input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled </td> </tr> </table>	Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled
Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled			

WELL LOCATION INFORMATION

API Number 30-025-56140	Pool Code 37580	Pool Name LEA; BONE SPRING, SOUTH
Property Code 339088	Property Name IGLOO 19 24 FED COM	Well Number 602H
OGRID No. 331569	Operator Name 3R OPERATING	Ground Level Elevation 3694'
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
N	19	20S	35E		399' FSL	2584' FWL	32.55247136	-103.49679687	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
M	24	20S	34E		660' FSL	100' FWL	32.55316753	-103.52200234	LEA

Dedicated Acres 240.10	Infill or Defining Well infill	Defining Well API 30-025-46602	Overlapping Spacing Unit (Y/N) N	Consolidation Code C
Order Numbers: 204891, NMNM105785634			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Offset lease operator(s) notified

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
N	19	20S	35E		660' FSL	2594' FWL	32.55318859	-103.49676380	LEA


First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
N	19	20S	35E		660' FSL	2544' FWL	32.55318846	-103.49692607	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
M	24	20S	34E		660' FSL	100' FWL	32.55316753	-103.52200234	LEA

Unitized Area or Area of Uniform Interest Y	Spacing Unit Type: <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation 3694'
--	---	---------------------------------

<p>OPERATOR CERTIFICATIONS</p> <p><i>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.</i></p> <p><i>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.</i></p> <p><u>Austin Trammell</u> 02/09/2026 Signature Date</p> <p>Austin Trammell Printed Name</p> <p>atramell@3ROperating.com Email Address</p>	<p>SURVEYOR CERTIFICATIONS</p> <p><i>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.</i></p> <div style="text-align: center;">  </div> <p>Signature and Seal of Professional Surveyor</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Certificate Number 21653</td> <td style="width:50%;">Date of Survey FEBRUARY 09, 2026</td> </tr> </table>	Certificate Number 21653	Date of Survey FEBRUARY 09, 2026
Certificate Number 21653	Date of Survey FEBRUARY 09, 2026		

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.

IGLOO 19 24 FED COM 602H

ACREAGE DEDICATION PLATS

PAGE 2 OF 2



LTP/BHL
 FSL 660' FWL 100', SECTION 24
NAD 83, SPCS NM EAST
 X:791322.30' / Y:565925.44'
 LAT:32.55316753 / LON:-103.52200234
NAD 27, SPCS NM EAST
 X:750141.02' / Y:565863.02'
 LAT:32.55304391 / LON:-103.52151405

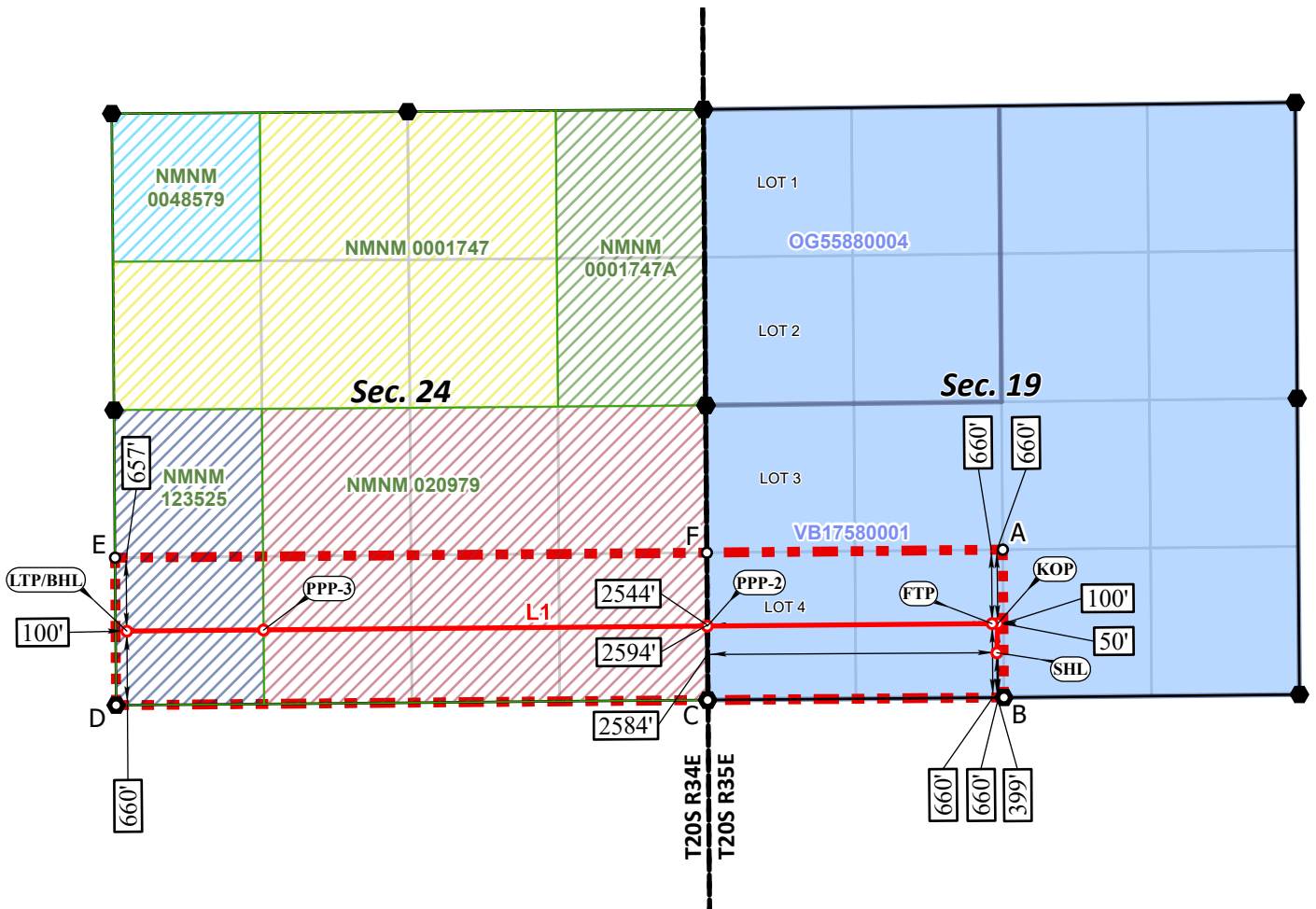
PPP-3
 FSL 660' FWL 1320', SECTION 24
NAD 83, SPCS NM EAST
 X:792542.71' / Y:565936.08'
 LAT:32.55317115 / LON:-103.51804155
NAD 27, SPCS NM EAST
 X:751361.41' / Y:565873.66'
 LAT:32.55304750 / LON:-103.51755339

PPP-2
 FSL 660' FEL 0', SECTION 24
NAD 83, SPCS NM EAST
 X:796504.94' / Y:565970.65'
 LAT:32.55318212 / LON:-103.50518233
NAD 27, SPCS NM EAST
 X:755323.60' / Y:565908.20'
 LAT:32.55305836 / LON:-103.50469460

FTP
 FSL 660' FWL 2544', SECTION 19
NAD 83, SPCS NM EAST
 X:799048.89' / Y:565992.84'
 LAT:32.55318846 / LON:-103.49692607
NAD 27, SPCS NM EAST
 X:757867.51' / Y:565930.39'
 LAT:32.55306466 / LON:-103.49643868

KOP
 FSL 660' FWL 2594', SECTION 19
NAD 83, SPCS NM EAST
 X:799098.89' / Y:565993.28'
 LAT:32.55318859 / LON:-103.49676380
NAD 27, SPCS NM EAST
 X:757917.51' / Y:565930.83'
 LAT:32.55306479 / LON:-103.49627642

SHL
 FSL 399' FWL 2584', SECTION 19
NAD 83, SPCS NM EAST
 X:799090.75' / Y:565732.26'
 LAT:32.55247136 / LON:-103.49679687
NAD 27, SPCS NM EAST
 X:757909.36' / Y:565669.82'
 LAT:32.55234756 / LON:-103.49630951



*FTP TO LTP LINE BEARINGS

LINE	BEARING
L1	S 89°30'01" W ~ 7726.88'

CORNER COORDINATES NAD 83, SPCS NM EAST		CORNER COORDINATES NAD 27, SPCS NM EAST	
A - X: 799143.70' / Y:566653.49'	B - X: 799154.08' / Y:565333.74'	A - X: 757962.33' / Y:566591.02'	B - X: 757972.68' / Y:565271.31'
C - X: 796508.58' / Y:565310.34'	D - X: 791226.95' / Y:565264.59'	C - X: 755327.22' / Y:565247.91'	D - X: 750045.65' / Y:565202.19'
E - X: 791217.69' / Y:566581.81'	F - X: 796501.31' / Y:566626.25'	E - X: 750036.42' / Y:566519.37'	F - X: 755319.99' / Y:566563.79'



○ Drill Line Events ● Section Corners — Drill Line ← Dimension Lines □ Federal Leases ■ NMSLO ■ HSU ● HSU Corners
 All bearings and coordinates refer to New Mexico State Plane Coordinate System, East Zone, U.S. Survey Feet.

JOB No. 20261166
 REV 1 CCT 2/3/2026

Distances/areas relative to NAD 83 grid measurements. Combined Scale Factor: 0.99981205 and a Convergence Angle: 0.44922778°



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

03/31/2026

APD ID: 10400110146

Submission Date: 02/11/2026

Highlighted data reflects the most recent changes

Operator Name: 3R OPERATING LLC

Well Name: IGLOO 19 24 FED COM

Well Number: 602H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
17753136	PERMIAN	3694	0	0	SANDSTONE, SHALE	USEABLE WATER	N
17753139	RUSTLER	1814	1880	1880	ANHYDRITE	NONE	N
17753140	YATES	-106	3800	3810	ANHYDRITE	USEABLE WATER	N
17753141	CAPITAN REEF	-396	4090	4101	LIMESTONE	USEABLE WATER	N
17753142	DELAWARE	-2176	5870	5882	SANDSTONE	NATURAL GAS, OIL	N
17753148	BRUSHY CANYON	-3246	6940	6952	LIMESTONE, SANDSTONE	NATURAL GAS, OIL	N
17753149	BONE SPRING	-4781	8475	8487	LIMESTONE, SANDSTONE	NATURAL GAS, OIL	N
17753150	BONE SPRING 1ST	-5996	9690	9702	SANDSTONE, SHALE	NATURAL GAS, OIL	N
17753151	BONE SPRING 2ND	-6301	9995	10007	LIMESTONE	NATURAL GAS, OIL	N
17753152	BONE SPRING 2ND	-6636	10330	10342	SANDSTONE, SHALE	NATURAL GAS, OIL	N
17753153	BONE SPRING 3RD	-7156	10850	10862	LIMESTONE	NATURAL GAS, OIL	N
17753154	BONE SPRING 3RD	-7526	11220	11299	SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 12000

Equipment: Ten thousand (10M) psi Blind Rams and Pipe Rams and a five thousand (5M) psi Annular Preventer will be installed on all casing. Per 5M system requirements, two (2) chokes, with at least one (1) being a remotely controlled hydraulic choke, will be used. If a full 10M system is required by the BLM, three (3) chokes will be used.

Requesting Variance? YES

Variance request: (1) Flex Hose Variance: A variance to the requirement of a rigid steel line connecting the BOP to the choke manifold is requested. Specifications for the flex hose are provided in the Drilling Plan -

Operator Name: 3R OPERATING LLC

Well Name: IGLOO 19 24 FED COM

Well Number: 602H

Section 2 (Choke Diagram) exhibit section. NOTE: Please see additional variances in "Sec. 8 - Other Info."

Testing Procedure: Operator testing procedures will meet minimum standards for well control equipment testing per CFR 3172.6(b)(9). Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing if BOP stack is not isolated from casing. Annular type preventers shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

Choke Diagram Attachment:

CHOKE_HOSE_M14945_20250919111222.pdf

BOP Diagram Attachment:

BOP_and_Choke_Manifold_20250919111300.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	2050	0	2050	3694	1644	2050	J-55	54.5	BUTT	1.23	2.99	BUOY	8.14	BUOY	7.63
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	5400	0	5400	3347	-1706	5400	J-55	40	BUTT	2.13	1.64	BUOY	3.31	BUOY	2.92
3	PRODUCTION	8.75	5.5	NEW	API	N	0	18819	0	11070	3347	-7376	18819	P-110	23	OTHER - Talon HTQ	2.63	2.63	BUOY	2.86	BUOY	2.86

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

IGLOO_602H_DRILLING_PLAN_3.13.26_20260313084105.pdf

Operator Name: 3R OPERATING LLC

Well Name: IGLOO 19 24 FED COM

Well Number: 602H

Casing Attachments

IGLOO_602H_CASING_PROGRAM_3.13.26_20260313084109.pdf

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

IGLOO_602H_CASING_PROGRAM_3.13.26_20260313084211.pdf

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

IGLOO_602H_CASING_PROGRAM_3.13.26_20260313084508.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1550	1203	1.79	13.5	2153	100	Class C	4% Gel + 5% Salt +0.2% SA-1 + 0.25pps Pol-E Flake + 0.005gps NOFoam V1A
SURFACE	Tail		1550	2050	522	1.33	14.8	695	100	Class C	1% calcium chloride + 0.005gps NoFoam V1A
INTERMEDIATE	Lead		0	4900	1380	1.53	12.7	2112	50	40% Class C + 60% POZ	5% Salt + 1% SMS + 2% CS-9 + 0.1% R-

Operator Name: 3R OPERATING LLC

Well Name: IGLOO 19 24 FED COM

Well Number: 602H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
											1300 + 0.25pps Pol-E Flake + 0.005gps NoFoam V1A
INTERMEDIATE	Tail		4900	5400	177	1.33	14.8	235	50	Class C	1% calcium chloride + 0.005gps NoFoam V1A
PRODUCTION	Lead		0	1026 1	857	3.34	10.7	2864	15	100% ProLite	5pps Plexcrete STE + 2% SMS + 0.1% RCKCAS-100 + .85% R-1300 + 0.2% FL-24 + .25pps Pol-E Flake + 0.005gps NoFoam V1A
PRODUCTION	Tail		1026 1	1881 9	1613	1.54	13.5	2484	15	50% Class H + 50% B POZ	6% Gell + 5% Slat + .2% SMS + .55% FR-5 + .4% FL-24 + 0.005gps NoFoam V1A

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with 43 CFR 3172:

Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:

Describe what will be on location to control well or mitigate other conditions: Mud weight increases at shoe depths are for pressure control. Mud weight increases in the curve and lateral section of the hole are for hole stability, not pressure control. Mud weight assumptions for casing load designs exceed anticipated maximum mud weight for balanced drilling in all hole sections. Expected mud weights in producing formation will be 0.5 to 1.0 lbs/gal greater than formation pressure (i.e. overbalanced drilling). Sufficient materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: The mud system will run as a closed loop system. PVT system will be in place throughout the well, as well as visual checks.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics

Operator Name: 3R OPERATING LLC

Well Name: IGLOO 19 24 FED COM

Well Number: 602H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	2050	WATER-BASED MUD	8.6	9.2							
2050	5400	WATER-BASED MUD	8.6	8.6							
5400	1881 9	OIL-BASED MUD	9.6	9.6							

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

The operator will comply with the BLM's logging requirements as stated in the COAs.

List of open and cased hole logs run in the well:

GAMMA RAY LOG, SPONTANEOUS POTENTIAL LOG, MEASUREMENT WHILE DRILLING, CEMENT BOND LOG, MUD LOG/GEOLOGICAL LITHOLOGY LOG,

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5526

Anticipated Surface Pressure: 3035

Anticipated Bottom Hole Temperature(F): 180

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

3R_H2S_Plan_Lea_County_20250919113954.pdf

Operator Name: 3R OPERATING LLC

Well Name: IGLOO 19 24 FED COM

Well Number: 602H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

3R_IGLOO_19_24_Fed_Com_602H_P1_WP_Rpt_20260210155232.pdf

3R_IGLOO_19_24_Fed_Com_602H_P1_20260210155236.pdf

Other proposed operations facets description:

(1) WMP/NGMP attached in "Other Facets" below. (2) Multi-bowl Wellhead Variance: A variance is requested to use a multi-bowl wellhead system. Multi-bowl wellhead testing will adhere to required regulations and COAs. Specifications for the multi-bowl wellhead are provided in the Drilling Plan - Section 8 (Other Variance) exhibit section. (3) BOP Break Testing Variance: 3R Operating requests a variance from the minimum standards for well control equipment testing of 43 CFR 3172 to allow a testing schedule of the blowout preventer (BOP) and blowout prevention equipment (BOPE) along with Batch Drilling operations. Specifications for requested procedure are provided in the Drilling Plan - Section 8 (Other Variance) exhibit section.

Other proposed operations facets attachment:

IGLOO_602H_NGMP_2.9.26_20260210155250.pdf

Other Variance request(s)?: Y

Other Variance attachment:

3R_Operating_Break_Testing_Variance_Approved_1.13.26_20260210075041.pdf

Ridgerunner_Multibowl_20251027120338.pdf



GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Pralrle Oak Dr. Sulte 190
Houston, TX. 77086

PHONE: +1 (281) 602-4100
FAX: +1 (281) 602-4147
EMAIL: gesna.quality@gates.com
WEB: gates.com/oilandgas

CERTIFICATE OF CONFORMANCE

This is to verify that all Parts and/or Materials included in this shipment have been manufactured and/or processed in Conformance with applicable drawings and specifications, and that Records of Required Tests are on file and subject to examination. The following items were assembled at Gates Engineering & Services North America facilities in Houston, TX, USA. This hose assembly was designed and manufactured to meet requirements of API Spec 16C, 3rd Edition.

CUSTOMER: A-7 AUSTIN INC DBA AUSTIN HOSE
CUSTOMER P.O.#: 00620920 (MENA REF# 01LB10050, 01-012870, HOSE BATCH NO. 120463-07/20)
CUSTOMER P/N: 16C3.035.0CK4116FX-FLTSC/S
PART DESCRIPTION: 3" X 35' GATES API 16C FSL3 TEMP B CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FIXED X SWIVEL H2S SUITED FLANGE ENDS WITH BX 155 RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS ATTACHED
SALES ORDER #: 522832
QUANTITY: 1
SERIAL #: F-041522-1

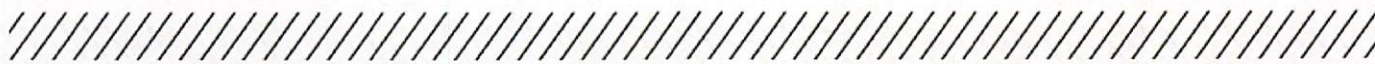
SIGNATURE: [Handwritten Signature]
TITLE: QUALITY ASSURANCE
DATE: 8/15/2022



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 MENA HEADQUARTERS
 JEBEL ALI FREE ZONE, P. O. BOX 61046
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جيتس للهندسة و الخدمات ش م ح
 المقر الرئيسي للشرق الأوسط و شمال أفريقيا
 جبل علي المنطقة الحرة، ص. ب. ٦١.٤٦
 دبي، الامارات العربية المتحدة
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 فاكس: +٩٧١ ٤ ٨٨٦ ١٤١٣
 GATES.COM



PRESSURE TEST CERTIFICATE

Certificate #	01-012870	Test Date	15-Apr-2022
Customer Name	GATES E & S NORTH AMERICA INC		
Customer Ref. #	1786392/ 2	Gates Ref. #	01CCLBSOA-10007
Gates Job #	01LB10050		
Product Description	3" X 35' GATES API 16C FSL3 TEMP B CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FIXED X SWIVEL H2S SUITED FLANGE ENDS WITH BX 155 RING GROOVE		
Part #	RAB000884-23	Quantity	1
Assembly Code / Serial No.	F-041522-1	Hose Batch No.	120463-07/20
Working Pressure	10000 PSI	Test Pressure	15000.0 PSI
Medium	Water	Duration	1 HOUR
Ref. Specifications			
Observation	No Leakage or Pressure Drop observed under testing condition.		

Gates Engineering & Services certifies that the hose has been assembled, inspected and tested as per Gates Technical Specification. The hose assembly has successfully passed the 60 minutes hydrostatic test as per as per API Spec 16C standard, 3rd edition, March 2021.

Pr. Gauge Sr.#	288223022	Calibrn. Exp.Date	13-Jul-2022
Chart Recorder Sr.#	11.02117.1-01	Calibrn. Exp.Date	13-Jul-2022

Reviewed By	Witnessed By
 Clifford G	 Siva Mahalingam
Supervisor / 15-Apr-2022	Operations / Quality Lead / 15-Apr-2022





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 جبل علي المنطقة الحرة، ص. ب. ٦١.٤٦
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 فاكس: +٩٧١ ٤ ٨٨٦ ١٤١٣
 GATES.COM

CERTIFICATE OF CONFORMANCE

Certificate #	01-012870	Date	15-Apr-2022
Customer Name	GATES E & S NORTH AMERICA INC		
Customer Ref. #	1786392/ 2	Gates Ref. #	01CCLBSOA-10007

Gates Engineering & Services certifies that the hose has been assembled, inspected and tested as per Gates Technical Specification. The hose assembly has successfully passed the 60 minutes hydrostatic test as per as per API Spec 16C standard, 3rd edition, March 2021.

Item Code	Product Description	Quantity
RNB-30E-16C-4F3T2-FG	3" X 35' GATES API 16C FSL3 TEMP B CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FIXED X SWIVEL H2S SUITED FLANGE ENDS WITH BX 155 RING GROOVE Hose Batch No. 120463-07/20 Assembly Code / Serial No. F-041522-1 Gates Job # 01LB10050	1

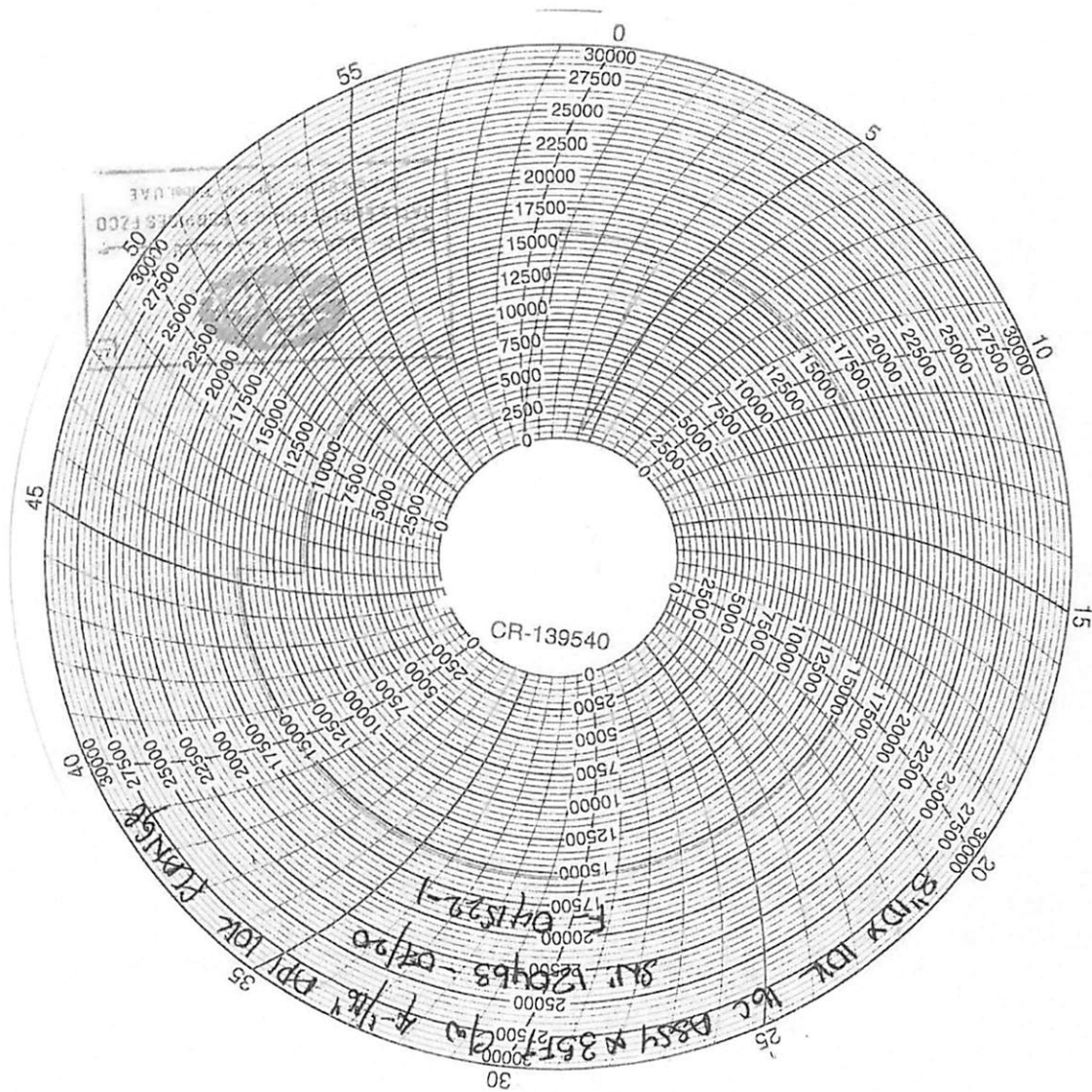
15-Apr-2022

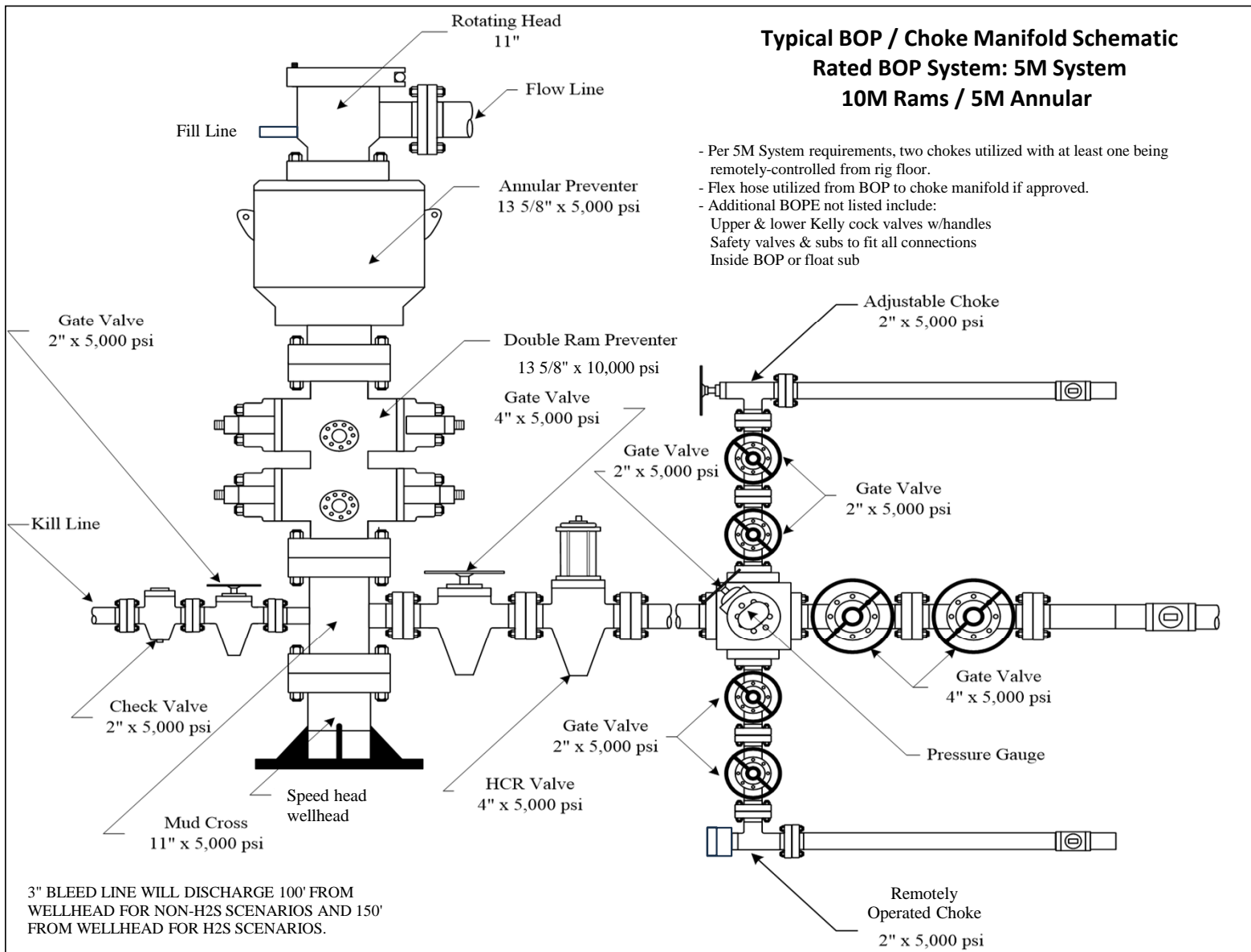
Date



Sajid Rasheed

QHSE Manager







Drilling Plan

Operator

3R Operating, LLC

Project Name

Igloo 19 24 Fed Com 602H

SHL: 399' FSL & 2584' FWL of Section 19-20S-35E, Lea County, NM

BHL: 660' FSL & 100' FWL of Section 24-20S-34E, Lea County, NM

Prepared By

Austin Tramell

Please address any questions, inquiries, or deficiency statements to
Austin Tramell, address below:

3R Operating, LLC
20405 State Hwy 249 STE 820
Houston, TX 77070
832-810-1037

1.0 Estimated Formation Tops

Formation	Depth	Primary Lithology	Primary Mineral Resources
Permian	0	SHALE, SANDSTONE	USEABLE WATER
Rustler	1,880	ANHYDRITE	NONE
Yates	3,800	ANHYDRITE	USEABLE WATER
Capitan	4,090	LIMESTONE	USEABLE WATER
Delaware	5,870	SANDSTONE	NATURAL GAS, OIL
Brushy Canyon	6,940	LIMESTONE, SANDSTONE	NATURAL GAS, OIL
Bone Spring	8,475	LIMESTONE, SANDSTONE	NATURAL GAS, OIL
1st Bone Spring Sand	9,690	SHALE, SANDSTONE	NATURAL GAS, OIL
2nd Bone Spring Carb	9,995	LIMESTONE	NATURAL GAS, OIL
2nd Bone Spring Sand	10,330	SHALE, SANDSTONE	NATURAL GAS, OIL
3rd Bone Spring Carb	10,850	LIMESTONE	NATURAL GAS, OIL
3rd Bone Spring Sand	11,220	SHALE, SANDSTONE	NATURAL GAS, OIL

Total Depth and Target Formation

Total Vertical Depth (ft):	11,070
Measured Depth (ft):	18,819
Formation:	3rd Bone Spring Sand

2.0 Estimated Depths of Oil & Gas

Substance	Depth (ft)
Top of Hydrocarbons	5,870
Bottom of Hydrocarbons	TD

3.0 Requested Variances

- 1. Flex Hose Variance:** A variance to the requirement of a rigid steel line connecting the BOP to the choke manifold is requested. Specifications for the flex hose are provided in the **Drilling Plan - Section 2 (Choke Diagram)** exhibit section.
- 2. Multi-bowl Wellhead Variance:** A variance is requested to use a multi-bowl wellhead system. Multi-bowl wellhead testing will adhere to required regulations and COAs. Specifications for the multi-bowl wellhead are provided in the **Drilling Plan - Section 8 (Other Variance)** exhibit section.
- 3. BOP Break Testing Variance:** 3R Operating requests a variance from the minimum standards for well control equipment testing of 43 CFR 3172 to allow a testing schedule of the blowout preventer (BOP) and blowout prevention equipment (BOPE) along with Batch Drilling operations. Specifications for requested procedure are provided in the **Drilling Plan - Section 8 (Other Variance)** exhibit section.

4.0 Pressure Control Equipment

Ten thousand (10M) psi working pressure Blind Rams & Pipe Rams and a five thousand (5M) psi Annular Preventer will be installed on all casing. Two (2) chokes, with at least one (1) being a remotely controlled hydraulic choke, will be used. If a full 10M system is required by the BLM, three (3) chokes will be used.

Operator testing procedures will meet minimum standards for well control equipment testing per CFR § 3172.6(b)(9). Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing if BOP stack is not isolated from casing. Annular type preventers shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

Floor safety valves that are fully open and sized to fit drill pipe and collars will be available on the rig floor in the open position when the Kelly is not in use.

5.0 Proposed Casing and Design Analysis

5.1 Proposed Casing Program

Interval	Length (ft)	Size (in)	Weight/ft (lbs.)	Grade	Thread	Condition	Hole size (in)
Surface	2,050	13.375	54.5	J-55	BTC	New	17.5
Inter.	5,400	9.625	40	J-55	BTC	New	12.25
Prod.	18,819	5.5	23	P110	Talon HTQ	New	8.75

5.2 Casing Specifications

Interval	Total Vertical Depth (TVD)	Total Measured Depth (MD)	Weight/ft (lbs.)	Grade	Collapse (psi)	Internal Yield (psi)	Body Yield Strength (psi)	Joint Strength (psi)
Surface	2,050	2,050	54.5	J-55	1,130	2,740	853,000	909,000
Inter.	5,400	5,400	40	J-55	2,570	3,950	630,000	714,000
Prod.	11,070	18,819	23	P110	14,540	14,520	729,000	729,000

6.0 Proposed Cement Program

Surface Casing Cement

Lead / Tail	TOC (MD)	Bottom of CMT (MD)	Density (lbs/gal)	Yield (ft3/sk)	Excess (%)	Volume (ft3)	# of sks CMT
Sur. Lead	0	1,550	13.50	1.79	100	2,153	1,203
Sur. Tail	1550	2,050	14.80	1.33	100	695	522

Lead Cmt Type: Class C
Lead Additives: 4% Gel + 5% Salt + 0.2% SA-1 + 0.25pps Pol-E Flake + 0.005gps NOFoam V1A
Tail Cmt Type: Class C
Tail Additives: 1% calcium chloride + 0.005gps NoFoam V1A

Intermediate Casing Cement

Lead / Tail	TOC (MD)	Bottom of CMT (MD)	Density (lbs/gal)	Yield (ft3/sk)	Excess (%)	Volume (ft3)	# of sks CMT
Int. Lead	0	4,900	12.70	1.53	50	2,112	1,380
Int. Tail	4,900	5,400	14.80	1.33	50	235	177

Lead Cmt Type: 40% Class C + 60% POZ
Lead Additives: 5% Salt + 1% SMS + 2% CS-9 + 0.1% R-1300 + 0.25pps Pol-E Flake + 0.005gps NoFoam V1A
Tail Cmt Type: Class C
Tail Additives: 1% calcium chloride + 0.005gps NoFoam V1A

Production Casing Cement

Lead / Tail	TOC (MD)	Bottom of CMT (MD)	Density (lbs/gal)	Yield (ft3/sk)	Excess (%)	Volume (ft3)	# of sks CMT
Prod. Lead	0'	10,261	10.70	3.34	15	2,864	857
Prod. Tail	10,261	18,819	13.50	1.54	15	2,484	1,613

Lead Cmt Type: 100% ProLite
Lead Additives: 5pps Plexcrete STE + 2% SMS + 0.1% RCKCAS-100 + .85% R-1300 + 0.2% FL-24 + .25pps Pol-E Flake + 0.005gps NoFoam V1A
Tail Cmt Type: 50% Class H + 50% B POZ
Tail Additives: 6% Gell + 5% Slat + .2% SMS + .55% FR-5 + .4% FL-24 + 0.005gps NoFoam V1A

***Operator reserves the right to change cement designs as hole conditions may warrant**

7.0 Proposed Mud Program

Interval	Top (MD)	Bottom (MD)	Type	Max. Mud Weight	Min. Mud Weight	Viscosity (cP)	Formation Fracture Gradient	Fluid Loss
Surface	0'	2,050	FW	9.20	8.60	32-36	0.75	NC
Inter.	2,050	5,400	FW	8.60	8.60	28-30	0.75	NC
Prod.	5,400	18,819	OBM	9.60	9.60	50-70	0.75	8-10 cc

Mud weight increases at shoe depths are for pressure control. Mud weight increases in the curve and lateral section of the hole are for hole stability, not pressure control. Mud weight assumptions for casing load designs exceed anticipated maximum mud weight for balanced drilling in all hole sections. Expected mud weights in producing formation will be 0.5 to 1.0 lbs/gal greater than formation pressure (i.e. overbalanced drilling).

The mud system will run as a closed loop system with PVT monitoring. All drill cuttings and liquid mud will be hauled to an approved site for disposal or soil farmed upon receiving appropriate approval.

An industry accepted medium will be stored on location in the event that there is a loss of circulation in the well bore.

8.0 Drilling Design Analysis

8.1 Casing Design Analysis

**See separate Safety Factor attachment*

Interval	Burst Safety Factor	Collapse Safety Factor	Pipe Body Tensile Safety Factor	Joint Tension Safety Factor
Surface	2.99	1.23	7.63	8.14
Inter.	1.64	2.13	2.92	3.31
Prod.	2.63	2.63	2.86	2.86

8.2 Casing Design Assumptions**8.2.1 Surface Casing Design Assumptions**

Tension	A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	8.6 ppg
Collapse	A 1.125 design factor with 1/3 TVD internal evacuation and collapse force equal to a mud gradient of:	8.6 ppg
Burst	A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	8.6 ppg

8.2.2 Intermediate I Casing Design Assumptions

Tension	A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	8.6 ppg
Collapse	A 1.125 design factor with 1/3 TVD internal evacuation and collapse force equal to a mud gradient of:	8.6 ppg
Burst	A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	8.6 ppg

*Safety factor calculated using offset pressure gradient variance factor up to **0.22 psi/ft.***

8.2.3 Production Casing Design Assumptions

Tension	A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	9.6 ppg
Collapse	A 1.125 design factor with full internal evacuation and collapse force equal to a mud gradient of:	9.6 ppg
Burst	A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	9.6 ppg

*Safety factor calculated using offset pressure gradient variance factor up to **0.22 psi/ft.***

9.0 Drilling Evaluation Program**Required Testing, Logging, and Coring procedures noted below:**

- *Mud Logging/Gamma Ray/MWD – (MWD on horizontal wells only).
- *Open hole logs (GR/SP/DIL/LDT/CNL/ML) from TD (horizontal well - vertical portion of hole) to the top of the uppermost potential hydrocarbon intervals
- *Open hole logs (GR/SP/DIL) from the top of the uppermost hydrocarbon interval to the base of the surface casing and (GR) log from base of surface casing to surface.
- *Cased hole CBL on production casing.

Note: The above referenced logging requirements are mandatory unless:

- 1)The well is located off unit, or
- 2)The operator can provide the BLM adequate geologic information in which they based the location and drilling of the well, or
- 3)The operator can provide the BLM logging data from a well that is within a 1-mile radius from the proposed surface hole location. The logging data can be no more than 30 years old and must be at least to TD of the proposed well.

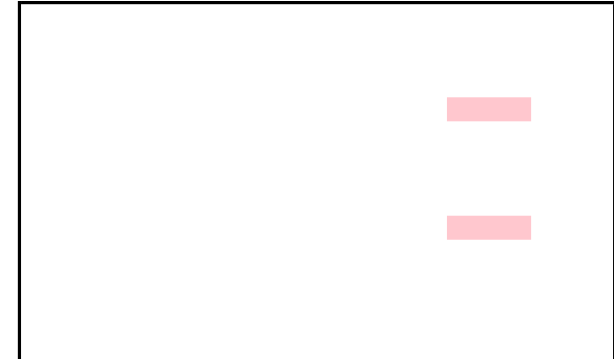
10.0 Downhole Conditions

Zones of Possible Lost Circulation:	N/A	
Zones of Possible Abnormal Pressure:	N/A	
Maximum Bottom Hole Temperature:	180	degrees F
Maximum Bottom Hole Pressure:	5,526	psi
Anticipated Surface Downhoe Pressure:	3,091	psi

Casing Program: RRR - 13/8" x 9 5/8" x 5 1/2"

Open Hole Size (Inches)	Casing Depth; From (ft)	Casing Setting Depth (ft) MD	Casing Setting Depth (ft) TVD	Casing Size (inches)	Casing Weight (lb/ft)	Casing Grade	Thread	Condition	Anticipated Mud Weight (ppg)	Burst (psi)	Burst SF (1.125)	Collapse (psi)	Collapse SF (1.125)	Tension Joint (klbs)	Air Weight (lbs)	Tension Joint SF (1.8)	Tension Body (klbs)	Air Weight (lbs)	Tension Body SF (1.8)
Surface																			
17.5	0'	2,050'	2,050'	13 3/8	54.5	J-55	BTC	New	8.6	2,740	2.99	1,130	1.23	909,000	111,725	8.14	853,000	111,725	7.63
Intermediate																			
12.25	0'	5,400'	5,400'	9 5/8	40	J-55	BTC	New	8.6	3,950	1.64	2,570	2.13	714,000	216,000	3.31	630,000	216,000	2.92
Production																			
8.75	0'	18,819'	11,070'	5 1/2	23	P110	Talon HTQ	New	9.6	14,520	2.63	14,540	2.63	729,000	254,610	2.86	729,000	254,610	2.86

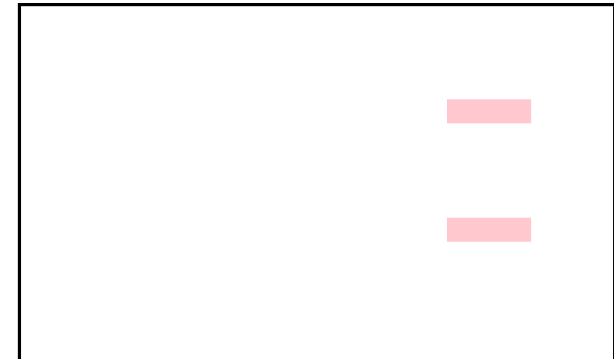
Casing Design Criteria and Casing Loading Assumptions:	
Surface	
Tension A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	8.6 ppg
Collapse A 1.125 design factor with full internal evacuation and collapse force equal to a mud gradient of:	8.6 ppg
Burst A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	8.6 ppg
Intermediate	
Tension A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	8.6 ppg
Collapse A 1.125 design factor with 1/2 TVD internal evacuation and collapse force equal to a mud gradient of:	8.6 ppg
Burst A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	8.6 ppg
Production	
Tension A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	9.6 ppg
Collapse A 1.125 design factor with full internal evacuation and collapse force equal to a mud gradient of:	9.6 ppg
Burst A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	9.6 ppg



Casing Program: RRR - 13/8" x 9 5/8" x 5 1/2"

Open Hole Size (Inches)	Casing Depth; From (ft)	Casing Setting Depth (ft) MD	Casing Setting Depth (ft) TVD	Casing Size (inches)	Casing Weight (lb/ft)	Casing Grade	Thread	Condition	Anticipated Mud Weight (ppg)	Burst (psi)	Burst SF (1.125)	Collapse (psi)	Collapse SF (1.125)	Tension Joint (klbs)	Air Weight (lbs)	Tension Joint SF (1.8)	Tension Body (klbs)	Air Weight (lbs)	Tension Body SF (1.8)
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12.25	0'	5,400'	5,400'	9 5/8	40	J-55	BTC	New	8.6	3,950	1.64	2,570	2.13	714,000	216,000	3.31	630,000	216,000	2.92
Production																			
8.75	0'	18,819'	11,070'	5 1/2	23	P110	Talon HTQ	New	9.6	14,520	2.63	14,540	2.63	729,000	254,610	2.86	729,000	254,610	2.86

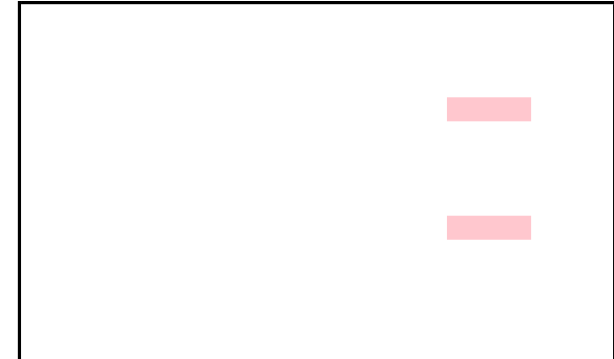
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Casing Program: RRR - 13/8" x 9 5/8" x 5 1/2"

Open Hole Size (Inches)	Casing Depth; From (ft)	Casing Setting Depth (ft) MD	Casing Setting Depth (ft) TVD	Casing Size (inches)	Casing Weight (lb/ft)	Casing Grade	Thread	Condition	Anticipated Mud Weight (ppg)	Burst (psi)	Burst SF (1.125)	Collapse (psi)	Collapse SF (1.125)	Tension Joint (klbs)	Air Weight (lbs)	Tension Joint SF (1.8)	Tension Body (klbs)	Air Weight (lbs)	Tension Body SF (1.8)
Surface																			
17.5	0'	2,050'	2,050'	13 3/8	54.5	J-55	BTC	New	8.6	2,740	2.99	1,130	1.23	909,000	111,725	8.14	853,000	111,725	7.63
Intermediate																			
12.25	0'	5,400'	5,400'	9 5/8	40	J-55	BTC	New	8.6	3,950	1.64	2,570	2.13	714,000	216,000	3.31	630,000	216,000	2.92
Production																			
8.75	0'	18,819'	11,070'	5 1/2	23	P110	Talon HTQ	New	9.6	14,520	2.63	14,540	2.63	729,000	254,610	2.86	729,000	254,610	2.86

Casing Design Criteria and Casing Loading Assumptions:	
Surface	
Tension A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	8.6 ppg
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Burst A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	9.6 ppg



3R Operating, LLC
Ridge Runner Resources, LLC
1004 N . Big Spring St., Suite 325

Midland, TX 79701

H2S Contingency Plan
Lea County, NM

Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road. Crew should then block entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. There are NO homes or buildings in or near the ROE.

Assumed 100 ppm ROE = 3000'
 100 ppm H2S concentration shall trigger activation of this plan

Emergency Procedures

In the event of a release of gas containing H2S, the first responder(s) must:

- « Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- « Evacuate any public places encompassed by the 100 ppm ROE.
- « Be equipped with H2S monitors and air packs in order to control the release.
- « Use the "buddy system" to ensure no injuries occur during the response.
- « Take precautions to avoid personal injury during this operation.
- « Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- « Have received training
 - in the: Detection of
 - H2S, and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO2). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas.

Characteristics of H2S and SO,

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H2S	1.189 Air=1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO2	2.21 Air=1	2 ppm	N/A	1000 ppm

Contacting Authorities

3 Bear Field Services personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. 3 Bear Field Services, LLC response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMERP).

Hydrogen Sulfide Drilling Operations Plan

1. All Company and Contract personnel admitted on location must be trained by a qualified H2S safety instructor to the following:
 - A. Characteristics of H2S
 - B. Physical effects and hazards
 - C. Principal and operation of H2S detectors, warning system and briefing areas.
 - D. Evacuation procedure, routes and first aid.
 - E. Proper use of safety equipment & life support systems
 - F. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30-minute pressure demand air packs.
2. H2S Detection and Alarm Systems:
 - a. H2S sensors/detectors to be located on the drilling rig floor, in the base of the sub structure/cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may be placed as deemed necessary.
 - b. An audio alarm system will be installed on the derrick floor and in the top doghouse.
3. Windsock and/or wind streamers:
 - a. Windsock at mudpit area should be high enough to be visible.
 - b. Windsock on the rig floor and/ or top doghouse should be high enough to be visible.
4. Condition Flags and Signs
 - a. Warning sign on access road to location.
 - b. Flags to be displayed on sign at entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates danger (H2S present in dangerous concentration). Only H2S trained and certified personnel

admitted to location.

5. Well control equipment:

- a. See exhibit BOP and Choke Diagrams

6. Communication:

- a. While working under masks chalkboards will be used for communication.
- b. Hand signals will be used where chalk board is inappropriate.
- c. Two-way radio will be used to communicate off location in case of emergency help is required. In most cases, cellular telephones will be available at most drilling foreman's trailer or living quarters.

7. Drill stem Testing:

No DSTs are planned at this time.

- 8. Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubular goods and other mechanical equipment.
- 9. If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary.

Emergency Assistance Telephone List

Ridge Runner Resources, LLC

Ridge Runner Resources, LLC	Office:	(432)686-2973
CEO-Brian Cassens	Office:	(817)953-0480

Drilling Superintendent-Russell Simons	Cell:	(830)285-7501
Production Superintendent-Paul Martinez	Cell:	(325)206-1722

Public Safety:	911 or
Lea County Sheriff's Department	Number: (575)396-3611
Lea County Emergency Management-Lorenzo Velasquez	Number: (575)391-2983
Lea County Fire Marshal	
Lorenzo Velasquez, Director	Number: (575)391-2983
Jeff Broom, Deputy Fire Marshal	Number: (575)391-2988
Fire Department:	
Knowles Fire Department	Number: (505)392-2810
City of Hobbs Fire Department	Number: (505)397-9308
Jal Volunteer Fire Department	Number: (505)395-2221
Lovington Fire Department	Number: (575)396-2359
Maljamar Fire Department	Number: (505)676-4100
Tatum Volunteer Fire Department	Number: (505)398-3473
Eunice Fire Department	Number: (575)394-3258
Hospital: Lea Regional Medical Center	Number: (575)492-5000
AirMed: Medevac	Number: (888)303-9112
Dept. of Public Safety	Number: (505)827-9000
New Mexico OCD-Dist. 1-Hobbs-	Office
	Emergency
	Number: (575)393-6161
	Number: (575)370-3186
Lea County Road Department	Number: (575)391-2940
NMDOT	Number: (505)827-5100
Bureau Of Land Management Pecos	
District Office	Number: (575)627-0272
Carlsbad Field Office	Number: (575)234 5972
Hobbs Field Station	Number: (575)393-3612
 BLM HOBBS PET ON CALL NUMBER	 575-689-5981

3R Operating, LLC

**Lea County, NM (NAD 83)
IGLOO 19 24 Fed Com 602H
602H**

OH

Plan: Plan 1

Standard Planning Report

04 February, 2026

Planning Report

Database:	EDM_WA	Local Co-ordinate Reference:	Site IGLOO 19 24 Fed Com 602H
Company:	3R Operating, LLC	TVD Reference:	GL;3693' KB:26.50' @ 3719.50usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL;3693' KB:26.50' @ 3719.50usft
Site:	IGLOO 19 24 Fed Com 602H	North Reference:	Grid
Well:	602H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Project	Lea County, NM (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	IGLOO 19 24 Fed Com 602H				
Site Position:		Northing:	565,732.26 usft	Latitude:	32.552471
From:	Map	Easting:	799,090.75 usft	Longitude:	-103.496797
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	602H					
Well Position	+N/-S	0.00 usft	Northing:	565,732.26 usft	Latitude:	32.552471
	+E/-W	0.00 usft	Easting:	799,090.75 usft	Longitude:	-103.496797
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,693.00 usft
Grid Convergence:	0.45 °					

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2025	2/4/2026	6.19	60.04	47,145.88026771

Design	Plan 1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	269.50

Plan Survey Tool Program	Date	2/4/2026		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	18,819.32 Plan 1 (OH)	MWD	
			OWSG MWD - Standard	

Planning Report

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Company:	3R Operating, LLC	TVD Reference:	GL;3693' KB:26.50' @ 3719.50usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL;3693' KB:26.50' @ 3719.50usft
Site:	IGLOO 19 24 Fed Com 602H	North Reference:	Grid
Well:	602H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,833.33	5.00	20.00	1,832.91	13.66	4.97	1.50	1.50	0.00	20.00	
2,033.33	5.00	20.00	2,032.15	30.04	10.93	0.00	0.00	0.00	0.00	
2,260.11	6.05	345.75	2,257.93	50.92	11.37	1.50	0.46	-15.10	-89.85	
4,109.75	6.05	345.75	4,097.26	239.94	-36.62	0.00	0.00	0.00	0.00	
4,513.24	0.00	0.00	4,500.00	260.58	-41.86	1.50	-1.50	0.00	180.00	VP/FTP(IGLOO 602H
10,761.00	0.00	0.00	10,747.76	260.58	-41.86	0.00	0.00	0.00	0.00	
11,681.10	92.01	269.50	11,320.37	255.41	-634.89	10.00	10.00	0.00	269.50	
18,819.32	92.01	269.50	11,070.00	193.18	-7,768.45	0.00	0.00	0.00	0.00	LTP/BHL(IGLOO 602I

Planning Report

Database:	EDM_WA	Local Co-ordinate Reference:	Site IGLOO 19 24 Fed Com 602H
Company:	3R Operating, LLC	TVD Reference:	GL;3693' KB:26.50' @ 3719.50usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL;3693' KB:26.50' @ 3719.50usft
Site:	IGLOO 19 24 Fed Com 602H	North Reference:	Grid
Well:	602H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.50										
1,600.00	1.50	20.00	1,599.99	1.23	0.45	-0.46	1.50	1.50	0.00	
1,700.00	3.00	20.00	1,699.91	4.92	1.79	-1.83	1.50	1.50	0.00	
1,800.00	4.50	20.00	1,799.69	11.06	4.03	-4.12	1.50	1.50	0.00	
1,833.33	5.00	20.00	1,832.91	13.66	4.97	-5.09	1.50	1.50	0.00	
Start 200.00 hold at 1833.33 MD										
1,880.83	5.00	20.00	1,880.23	17.55	6.39	-6.54	0.00	0.00	0.00	
Rustler										
1,900.00	5.00	20.00	1,899.32	19.12	6.96	-7.13	0.00	0.00	0.00	
2,000.00	5.00	20.00	1,998.94	27.31	9.94	-10.18	0.00	0.00	0.00	
2,033.33	5.00	20.00	2,032.15	30.04	10.93	-11.19	0.00	0.00	0.00	
Start DLS 1.50 TFO -89.85										
2,100.00	5.10	8.68	2,098.56	35.70	12.37	-12.69	1.50	0.15	-16.98	
2,200.00	5.59	353.42	2,198.13	44.94	12.49	-12.88	1.50	0.49	-15.26	
2,260.11	6.05	345.75	2,257.93	50.92	11.37	-11.82	1.50	0.76	-12.76	
Start 1849.64 hold at 2260.11 MD										
2,300.00	6.05	345.75	2,297.60	55.00	10.34	-10.82	0.00	0.00	0.00	
2,400.00	6.05	345.75	2,397.04	65.21	7.74	-8.31	0.00	0.00	0.00	
2,500.00	6.05	345.75	2,496.48	75.43	5.15	-5.80	0.00	0.00	0.00	
2,600.00	6.05	345.75	2,595.92	85.65	2.55	-3.30	0.00	0.00	0.00	
2,700.00	6.05	345.75	2,695.37	95.87	-0.04	-0.79	0.00	0.00	0.00	
2,800.00	6.05	345.75	2,794.81	106.09	-2.64	1.71	0.00	0.00	0.00	
2,900.00	6.05	345.75	2,894.25	116.31	-5.23	4.22	0.00	0.00	0.00	
3,000.00	6.05	345.75	2,993.69	126.53	-7.83	6.72	0.00	0.00	0.00	
3,100.00	6.05	345.75	3,093.14	136.75	-10.42	9.23	0.00	0.00	0.00	
3,200.00	6.05	345.75	3,192.58	146.97	-13.02	11.73	0.00	0.00	0.00	
3,300.00	6.05	345.75	3,292.02	157.19	-15.61	14.24	0.00	0.00	0.00	
3,400.00	6.05	345.75	3,391.47	167.41	-18.20	16.74	0.00	0.00	0.00	
3,500.00	6.05	345.75	3,490.91	177.63	-20.80	19.25	0.00	0.00	0.00	
3,600.00	6.05	345.75	3,590.35	187.85	-23.39	21.75	0.00	0.00	0.00	
3,700.00	6.05	345.75	3,689.79	198.07	-25.99	24.26	0.00	0.00	0.00	
3,800.00	6.05	345.75	3,789.24	208.29	-28.58	26.76	0.00	0.00	0.00	
3,809.87	6.05	345.75	3,799.05	209.30	-28.84	27.01	0.00	0.00	0.00	
Yates										
3,900.00	6.05	345.75	3,888.68	218.51	-31.18	29.27	0.00	0.00	0.00	
4,000.00	6.05	345.75	3,988.12	228.73	-33.77	31.78	0.00	0.00	0.00	
4,101.24	6.05	345.75	4,088.80	239.07	-36.40	34.31	0.00	0.00	0.00	
Capitan										
4,109.75	6.05	345.75	4,097.26	239.94	-36.62	34.53	0.00	0.00	0.00	
Start Drop -1.50										
4,200.00	4.70	345.75	4,187.11	248.14	-38.70	36.53	1.50	-1.50	0.00	
4,300.00	3.20	345.75	4,286.87	254.81	-40.40	38.17	1.50	-1.50	0.00	
4,400.00	1.70	345.75	4,386.78	258.95	-41.45	39.19	1.50	-1.50	0.00	
4,500.00	0.20	345.75	4,486.76	260.56	-41.85	39.58	1.50	-1.50	0.00	
4,513.24	0.00	0.00	4,500.00	260.58	-41.86	39.58	1.50	-1.50	107.59	
Start 6247.76 hold at 4513.24 MD - VP/FTP(IGLOO 602H)										
4,600.00	0.00	0.00	4,586.76	260.58	-41.86	39.58	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,686.76	260.58	-41.86	39.58	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,786.76	260.58	-41.86	39.58	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,886.76	260.58	-41.86	39.58	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,986.76	260.58	-41.86	39.58	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,086.76	260.58	-41.86	39.58	0.00	0.00	0.00	

Planning Report

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Company:	3R Operating, LLC	TVD Reference:	GL;3693' KB:26.50' @ 3719.50usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL;3693' KB:26.50' @ 3719.50usft
Site:	IGLOO 19 24 Fed Com 602H	North Reference:	Grid
Well:	602H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.00	0.00	0.00	5,186.76	260.58	-41.86	39.58	0.00	0.00	0.00
5,300.00	0.00	0.00	5,286.76	260.58	-41.86	39.58	0.00	0.00	0.00
5,400.00	0.00	0.00	5,386.76	260.58	-41.86	39.58	0.00	0.00	0.00
5,500.00	0.00	0.00	5,486.76	260.58	-41.86	39.58	0.00	0.00	0.00
5,600.00	0.00	0.00	5,586.76	260.58	-41.86	39.58	0.00	0.00	0.00
5,700.00	0.00	0.00	5,686.76	260.58	-41.86	39.58	0.00	0.00	0.00
5,800.00	0.00	0.00	5,786.76	260.58	-41.86	39.58	0.00	0.00	0.00
5,881.85	0.00	0.00	5,868.61	260.58	-41.86	39.58	0.00	0.00	0.00
Delaware Mountain Group									
5,900.00	0.00	0.00	5,886.76	260.58	-41.86	39.58	0.00	0.00	0.00
6,000.00	0.00	0.00	5,986.76	260.58	-41.86	39.58	0.00	0.00	0.00
6,100.00	0.00	0.00	6,086.76	260.58	-41.86	39.58	0.00	0.00	0.00
6,200.00	0.00	0.00	6,186.76	260.58	-41.86	39.58	0.00	0.00	0.00
6,300.00	0.00	0.00	6,286.76	260.58	-41.86	39.58	0.00	0.00	0.00
6,400.00	0.00	0.00	6,386.76	260.58	-41.86	39.58	0.00	0.00	0.00
6,500.00	0.00	0.00	6,486.76	260.58	-41.86	39.58	0.00	0.00	0.00
6,600.00	0.00	0.00	6,586.76	260.58	-41.86	39.58	0.00	0.00	0.00
6,700.00	0.00	0.00	6,686.76	260.58	-41.86	39.58	0.00	0.00	0.00
6,800.00	0.00	0.00	6,786.76	260.58	-41.86	39.58	0.00	0.00	0.00
6,900.00	0.00	0.00	6,886.76	260.58	-41.86	39.58	0.00	0.00	0.00
6,951.85	0.00	0.00	6,938.61	260.58	-41.86	39.58	0.00	0.00	0.00
Brushy Canyon									
7,000.00	0.00	0.00	6,986.76	260.58	-41.86	39.58	0.00	0.00	0.00
7,100.00	0.00	0.00	7,086.76	260.58	-41.86	39.58	0.00	0.00	0.00
7,200.00	0.00	0.00	7,186.76	260.58	-41.86	39.58	0.00	0.00	0.00
7,300.00	0.00	0.00	7,286.76	260.58	-41.86	39.58	0.00	0.00	0.00
7,400.00	0.00	0.00	7,386.76	260.58	-41.86	39.58	0.00	0.00	0.00
7,500.00	0.00	0.00	7,486.76	260.58	-41.86	39.58	0.00	0.00	0.00
7,600.00	0.00	0.00	7,586.76	260.58	-41.86	39.58	0.00	0.00	0.00
7,700.00	0.00	0.00	7,686.76	260.58	-41.86	39.58	0.00	0.00	0.00
7,800.00	0.00	0.00	7,786.76	260.58	-41.86	39.58	0.00	0.00	0.00
7,900.00	0.00	0.00	7,886.76	260.58	-41.86	39.58	0.00	0.00	0.00
8,000.00	0.00	0.00	7,986.76	260.58	-41.86	39.58	0.00	0.00	0.00
8,100.00	0.00	0.00	8,086.76	260.58	-41.86	39.58	0.00	0.00	0.00
8,200.00	0.00	0.00	8,186.76	260.58	-41.86	39.58	0.00	0.00	0.00
8,300.00	0.00	0.00	8,286.76	260.58	-41.86	39.58	0.00	0.00	0.00
8,400.00	0.00	0.00	8,386.76	260.58	-41.86	39.58	0.00	0.00	0.00
8,486.85	0.00	0.00	8,473.61	260.58	-41.86	39.58	0.00	0.00	0.00
Bone Spring									
8,500.00	0.00	0.00	8,486.76	260.58	-41.86	39.58	0.00	0.00	0.00
8,600.00	0.00	0.00	8,586.76	260.58	-41.86	39.58	0.00	0.00	0.00
8,700.00	0.00	0.00	8,686.76	260.58	-41.86	39.58	0.00	0.00	0.00
8,800.00	0.00	0.00	8,786.76	260.58	-41.86	39.58	0.00	0.00	0.00
8,900.00	0.00	0.00	8,886.76	260.58	-41.86	39.58	0.00	0.00	0.00
9,000.00	0.00	0.00	8,986.76	260.58	-41.86	39.58	0.00	0.00	0.00
9,100.00	0.00	0.00	9,086.76	260.58	-41.86	39.58	0.00	0.00	0.00
9,200.00	0.00	0.00	9,186.76	260.58	-41.86	39.58	0.00	0.00	0.00
9,300.00	0.00	0.00	9,286.76	260.58	-41.86	39.58	0.00	0.00	0.00
9,400.00	0.00	0.00	9,386.76	260.58	-41.86	39.58	0.00	0.00	0.00
9,500.00	0.00	0.00	9,486.76	260.58	-41.86	39.58	0.00	0.00	0.00
9,600.00	0.00	0.00	9,586.76	260.58	-41.86	39.58	0.00	0.00	0.00
9,700.00	0.00	0.00	9,686.76	260.58	-41.86	39.58	0.00	0.00	0.00
9,701.85	0.00	0.00	9,688.61	260.58	-41.86	39.58	0.00	0.00	0.00

Planning Report

Database:	EDM_WA	Local Co-ordinate Reference:	Site IGLOO 19 24 Fed Com 602H
Company:	3R Operating, LLC	TVD Reference:	GL;3693' KB:26.50' @ 3719.50usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL;3693' KB:26.50' @ 3719.50usft
Site:	IGLOO 19 24 Fed Com 602H	North Reference:	Grid
Well:	602H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1st Bone Spring Sand										
9,800.00	0.00	0.00	9,786.76	260.58	-41.86	39.58	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,886.76	260.58	-41.86	39.58	0.00	0.00	0.00	
10,000.00	0.00	0.00	9,986.76	260.58	-41.86	39.58	0.00	0.00	0.00	
10,006.85	0.00	0.00	9,993.61	260.58	-41.86	39.58	0.00	0.00	0.00	
2nd Bone Spring Carb										
10,100.00	0.00	0.00	10,086.76	260.58	-41.86	39.58	0.00	0.00	0.00	
10,200.00	0.00	0.00	10,186.76	260.58	-41.86	39.58	0.00	0.00	0.00	
10,300.00	0.00	0.00	10,286.76	260.58	-41.86	39.58	0.00	0.00	0.00	
10,341.85	0.00	0.00	10,328.61	260.58	-41.86	39.58	0.00	0.00	0.00	
2nd Bone Spring Sand										
10,400.00	0.00	0.00	10,386.76	260.58	-41.86	39.58	0.00	0.00	0.00	
10,500.00	0.00	0.00	10,486.76	260.58	-41.86	39.58	0.00	0.00	0.00	
10,600.00	0.00	0.00	10,586.76	260.58	-41.86	39.58	0.00	0.00	0.00	
10,700.00	0.00	0.00	10,686.76	260.58	-41.86	39.58	0.00	0.00	0.00	
10,761.00	0.00	0.00	10,747.76	260.58	-41.86	39.58	0.00	0.00	0.00	
KOP @ 10761'MD Build 10.00°/100'										
10,800.00	3.90	269.50	10,786.73	260.57	-43.19	40.91	10.00	10.00	0.00	
10,850.00	8.90	269.50	10,836.40	260.52	-48.76	46.48	10.00	10.00	0.00	
10,862.06	10.11	269.50	10,848.30	260.50	-50.75	48.47	10.00	10.00	0.00	
3rd Bone Spring Carb										
10,900.00	13.90	269.50	10,885.40	260.43	-58.64	56.36	10.00	10.00	0.00	
10,950.00	18.90	269.50	10,933.35	260.31	-72.75	70.47	10.00	10.00	0.00	
11,000.00	23.90	269.50	10,979.89	260.15	-90.99	88.71	10.00	10.00	0.00	
11,050.00	28.90	269.50	11,024.66	259.96	-113.21	110.94	10.00	10.00	0.00	
11,100.00	33.90	269.50	11,067.32	259.73	-139.25	136.98	10.00	10.00	0.00	
11,150.00	38.90	269.50	11,107.56	259.47	-168.91	166.64	10.00	10.00	0.00	
11,200.00	43.90	269.50	11,145.05	259.18	-201.97	199.70	10.00	10.00	0.00	
11,250.00	48.90	269.50	11,179.52	258.87	-238.16	235.89	10.00	10.00	0.00	
11,299.43	53.84	269.50	11,210.37	258.53	-276.76	274.49	10.00	10.00	0.00	
3rd Bone Spring Sand										
11,300.00	53.90	269.50	11,210.70	258.53	-277.22	274.96	10.00	10.00	0.00	
11,350.00	58.90	269.50	11,238.36	258.16	-318.85	316.59	10.00	10.00	0.00	
11,400.00	63.90	269.50	11,262.29	257.78	-362.74	360.47	10.00	10.00	0.00	
11,450.00	68.90	269.50	11,282.30	257.38	-408.54	406.28	10.00	10.00	0.00	
11,500.00	73.90	269.50	11,298.25	256.97	-455.91	453.65	10.00	10.00	0.00	
11,550.00	78.90	269.50	11,310.00	256.54	-504.49	502.23	10.00	10.00	0.00	
11,600.00	83.90	269.50	11,317.47	256.11	-553.91	551.66	10.00	10.00	0.00	
11,650.00	88.90	269.50	11,320.61	255.68	-603.80	601.54	10.00	10.00	0.00	
11,681.10	92.01	269.50	11,320.37	255.41	-634.89	632.64	10.00	10.00	0.00	
"LP" 92.01° @ 11681.10'MD - LP(IGLOO 602H)										
11,700.00	92.01	269.50	11,319.70	255.24	-653.78	651.53	0.00	0.00	0.00	
11,800.00	92.01	269.50	11,316.20	254.37	-753.71	751.46	0.00	0.00	0.00	
11,900.00	92.01	269.50	11,312.69	253.50	-853.65	851.40	0.00	0.00	0.00	
12,000.00	92.01	269.50	11,309.18	252.63	-953.58	951.34	0.00	0.00	0.00	
12,100.00	92.01	269.50	11,305.67	251.76	-1,053.52	1,051.28	0.00	0.00	0.00	
12,200.00	92.01	269.50	11,302.17	250.88	-1,153.45	1,151.22	0.00	0.00	0.00	
12,300.00	92.01	269.50	11,298.66	250.01	-1,253.39	1,251.16	0.00	0.00	0.00	
12,400.00	92.01	269.50	11,295.15	249.14	-1,353.32	1,351.09	0.00	0.00	0.00	
12,500.00	92.01	269.50	11,291.64	248.27	-1,453.25	1,451.03	0.00	0.00	0.00	
12,600.00	92.01	269.50	11,288.14	247.40	-1,553.19	1,550.97	0.00	0.00	0.00	
12,700.00	92.01	269.50	11,284.63	246.52	-1,653.12	1,650.91	0.00	0.00	0.00	
12,800.00	92.01	269.50	11,281.12	245.65	-1,753.06	1,750.85	0.00	0.00	0.00	

Planning Report

Database:	EDM_WA	Local Co-ordinate Reference:	Site IGLOO 19 24 Fed Com 602H
Company:	3R Operating, LLC	TVD Reference:	GL;3693' KB:26.50' @ 3719.50usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL;3693' KB:26.50' @ 3719.50usft
Site:	IGLOO 19 24 Fed Com 602H	North Reference:	Grid
Well:	602H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
12,900.00	92.01	269.50	11,277.61	244.78	-1,852.99	1,850.79	0.00	0.00	0.00	
13,000.00	92.01	269.50	11,274.11	243.91	-1,952.93	1,950.73	0.00	0.00	0.00	
13,100.00	92.01	269.50	11,270.60	243.04	-2,052.86	2,050.66	0.00	0.00	0.00	
13,200.00	92.01	269.50	11,267.09	242.17	-2,152.80	2,150.60	0.00	0.00	0.00	
13,300.00	92.01	269.50	11,263.58	241.29	-2,252.73	2,250.54	0.00	0.00	0.00	
13,400.00	92.01	269.50	11,260.08	240.42	-2,352.67	2,350.48	0.00	0.00	0.00	
13,500.00	92.01	269.50	11,256.57	239.55	-2,452.60	2,450.42	0.00	0.00	0.00	
13,600.00	92.01	269.50	11,253.06	238.68	-2,552.54	2,550.36	0.00	0.00	0.00	
13,633.30	92.01	269.50	11,251.89	238.39	-2,585.81	2,583.63	0.00	0.00	0.00	
PP2(IGLOO 602H)										
13,700.00	92.01	269.50	11,249.56	237.81	-2,652.47	2,650.29	0.00	0.00	0.00	
13,800.00	92.01	269.50	11,246.05	236.94	-2,752.41	2,750.23	0.00	0.00	0.00	
13,900.00	92.01	269.50	11,242.54	236.06	-2,852.34	2,850.17	0.00	0.00	0.00	
14,000.00	92.01	269.50	11,239.03	235.19	-2,952.27	2,950.11	0.00	0.00	0.00	
14,100.00	92.01	269.50	11,235.53	234.32	-3,052.21	3,050.05	0.00	0.00	0.00	
14,200.00	92.01	269.50	11,232.02	233.45	-3,152.14	3,149.99	0.00	0.00	0.00	
14,300.00	92.01	269.50	11,228.51	232.58	-3,252.08	3,249.93	0.00	0.00	0.00	
14,400.00	92.01	269.50	11,225.00	231.71	-3,352.01	3,349.86	0.00	0.00	0.00	
14,500.00	92.01	269.50	11,221.50	230.83	-3,451.95	3,449.80	0.00	0.00	0.00	
14,600.00	92.01	269.50	11,217.99	229.96	-3,551.88	3,549.74	0.00	0.00	0.00	
14,700.00	92.01	269.50	11,214.48	229.09	-3,651.82	3,649.68	0.00	0.00	0.00	
14,800.00	92.01	269.50	11,210.97	228.22	-3,751.75	3,749.62	0.00	0.00	0.00	
14,900.00	92.01	269.50	11,207.47	227.35	-3,851.69	3,849.56	0.00	0.00	0.00	
15,000.00	92.01	269.50	11,203.96	226.47	-3,951.62	3,949.49	0.00	0.00	0.00	
15,100.00	92.01	269.50	11,200.45	225.60	-4,051.56	4,049.43	0.00	0.00	0.00	
15,200.00	92.01	269.50	11,196.94	224.73	-4,151.49	4,149.37	0.00	0.00	0.00	
15,300.00	92.01	269.50	11,193.44	223.86	-4,251.43	4,249.31	0.00	0.00	0.00	
15,400.00	92.01	269.50	11,189.93	222.99	-4,351.36	4,349.25	0.00	0.00	0.00	
15,500.00	92.01	269.50	11,186.42	222.12	-4,451.29	4,449.19	0.00	0.00	0.00	
15,600.00	92.01	269.50	11,182.91	221.24	-4,551.23	4,549.13	0.00	0.00	0.00	
15,700.00	92.01	269.50	11,179.41	220.37	-4,651.16	4,649.06	0.00	0.00	0.00	
15,800.00	92.01	269.50	11,175.90	219.50	-4,751.10	4,749.00	0.00	0.00	0.00	
15,900.00	92.01	269.50	11,172.39	218.63	-4,851.03	4,848.94	0.00	0.00	0.00	
16,000.00	92.01	269.50	11,168.88	217.76	-4,950.97	4,948.88	0.00	0.00	0.00	
16,100.00	92.01	269.50	11,165.38	216.89	-5,050.90	5,048.82	0.00	0.00	0.00	
16,200.00	92.01	269.50	11,161.87	216.01	-5,150.84	5,148.76	0.00	0.00	0.00	
16,300.00	92.01	269.50	11,158.36	215.14	-5,250.77	5,248.69	0.00	0.00	0.00	
16,400.00	92.01	269.50	11,154.86	214.27	-5,350.71	5,348.63	0.00	0.00	0.00	
16,500.00	92.01	269.50	11,151.35	213.40	-5,450.64	5,448.57	0.00	0.00	0.00	
16,600.00	92.01	269.50	11,147.84	212.53	-5,550.58	5,548.51	0.00	0.00	0.00	
16,700.00	92.01	269.50	11,144.33	211.66	-5,650.51	5,648.45	0.00	0.00	0.00	
16,800.00	92.01	269.50	11,140.83	210.78	-5,750.45	5,748.39	0.00	0.00	0.00	
16,900.00	92.01	269.50	11,137.32	209.91	-5,850.38	5,848.33	0.00	0.00	0.00	
17,000.00	92.01	269.50	11,133.81	209.04	-5,950.31	5,948.26	0.00	0.00	0.00	
17,100.00	92.01	269.50	11,130.30	208.17	-6,050.25	6,048.20	0.00	0.00	0.00	
17,200.00	92.01	269.50	11,126.80	207.30	-6,150.18	6,148.14	0.00	0.00	0.00	
17,300.00	92.01	269.50	11,123.29	206.42	-6,250.12	6,248.08	0.00	0.00	0.00	
17,400.00	92.01	269.50	11,119.78	205.55	-6,350.05	6,348.02	0.00	0.00	0.00	
17,500.00	92.01	269.50	11,116.27	204.68	-6,449.99	6,447.96	0.00	0.00	0.00	
17,598.12	92.01	269.50	11,112.83	203.83	-6,548.04	6,546.01	0.00	0.00	0.00	
PP3(IGLOO 602H)										
17,600.00	92.01	269.50	11,112.77	203.81	-6,549.92	6,547.90	0.00	0.00	0.00	
17,700.00	92.01	269.50	11,109.26	202.94	-6,649.86	6,647.83	0.00	0.00	0.00	
17,800.00	92.01	269.50	11,105.75	202.07	-6,749.79	6,747.77	0.00	0.00	0.00	

Planning Report

Database:	EDM_WA	Local Co-ordinate Reference:	Site IGLOO 19 24 Fed Com 602H
Company:	3R Operating, LLC	TVD Reference:	GL;3693' KB:26.50' @ 3719.50usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL;3693' KB:26.50' @ 3719.50usft
Site:	IGLOO 19 24 Fed Com 602H	North Reference:	Grid
Well:	602H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
17,900.00	92.01	269.50	11,102.24	201.19	-6,849.73	6,847.71	0.00	0.00	0.00	
18,000.00	92.01	269.50	11,098.74	200.32	-6,949.66	6,947.65	0.00	0.00	0.00	
18,100.00	92.01	269.50	11,095.23	199.45	-7,049.60	7,047.59	0.00	0.00	0.00	
18,200.00	92.01	269.50	11,091.72	198.58	-7,149.53	7,147.53	0.00	0.00	0.00	
18,300.00	92.01	269.50	11,088.21	197.71	-7,249.47	7,247.46	0.00	0.00	0.00	
18,400.00	92.01	269.50	11,084.71	196.84	-7,349.40	7,347.40	0.00	0.00	0.00	
18,500.00	92.01	269.50	11,081.20	195.96	-7,449.34	7,447.34	0.00	0.00	0.00	
18,600.00	92.01	269.50	11,077.69	195.09	-7,549.27	7,547.28	0.00	0.00	0.00	
18,700.00	92.01	269.50	11,074.19	194.22	-7,649.20	7,647.22	0.00	0.00	0.00	
18,800.00	92.01	269.50	11,070.68	193.35	-7,749.14	7,747.16	0.00	0.00	0.00	
18,819.32	92.01	269.50	11,070.00	193.18	-7,768.45	7,766.47	0.00	0.00	0.00	
"TD" 92.01° @ 18819.32'MD - LTP/BHL(IGLOO 602H)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
VP/FTP(IGLOO 602H) - plan hits target center - Point	0.00	0.00	4,500.00	260.58	-41.86	565,992.84	799,048.89	32.553189	-103.496926	
LTP/BHL(IGLOO 602H) - plan hits target center - Point	0.00	0.00	11,070.00	193.18	-7,768.45	565,925.44	791,322.30	32.553168	-103.522003	
PP3(IGLOO 602H) - plan misses target center by 0.01usft at 17598.12usft MD (11112.83 TVD, 203.83 N, -6548.04 E) - Point	0.00	0.00	11,112.83	203.82	-6,548.04	565,936.08	792,542.71	32.553171	-103.518042	
PP2(IGLOO 602H) - plan hits target center - Point	0.00	0.00	11,251.89	238.39	-2,585.81	565,970.65	796,504.94	32.553182	-103.505183	
LP(IGLOO 602H) - plan misses target center by 0.01usft at 11681.10usft MD (11320.37 TVD, 255.41 N, -634.89 E) - Point	0.00	0.00	11,320.37	255.41	-634.89	565,987.67	798,455.86	32.553187	-103.498851	

Planning Report

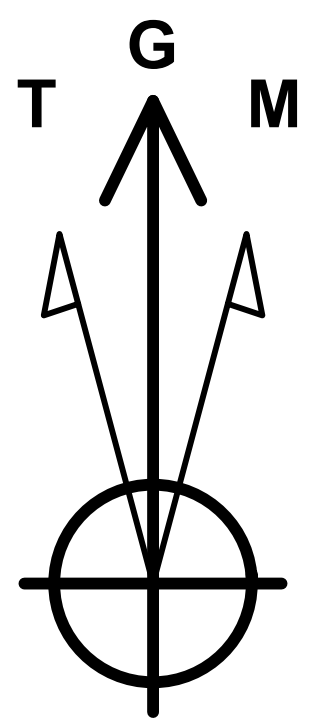
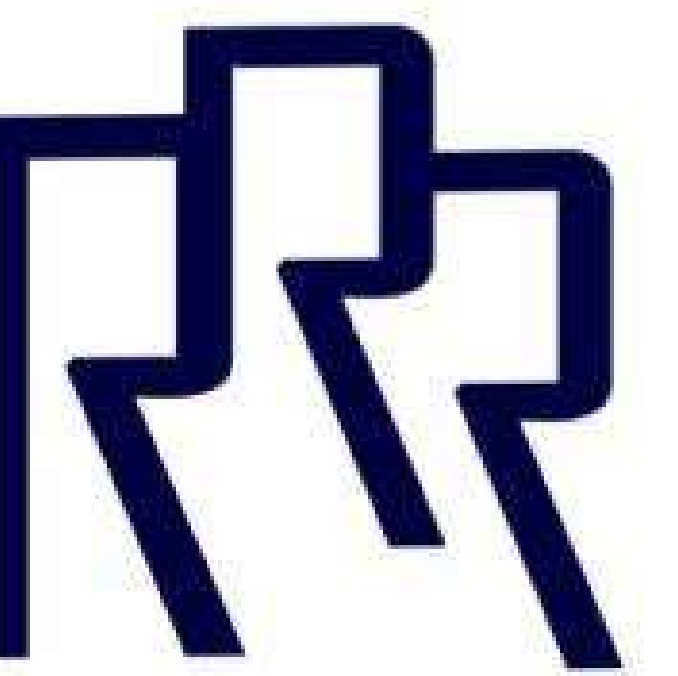
Database:	EDM_WA	Local Co-ordinate Reference:	Site IGLOO 19 24 Fed Com 602H
Company:	3R Operating, LLC	TVD Reference:	GL;3693' KB:26.50' @ 3719.50usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL;3693' KB:26.50' @ 3719.50usft
Site:	IGLOO 19 24 Fed Com 602H	North Reference:	Grid
Well:	602H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,880.83	1,880.23	Rustler		-2.01	269.50	
3,809.87	3,799.05	Yates		-2.01	269.50	
4,101.24	4,088.80	Capitan		-2.01	269.50	
5,881.85	5,868.61	Delaware Mountain Group		-2.01	269.50	
6,951.85	6,938.61	Brushy Canyon		-2.01	269.50	
8,486.85	8,473.61	Bone Spring		-2.01	269.50	
9,701.85	9,688.61	1st Bone Spring Sand		-2.01	269.50	
10,006.85	9,993.61	2nd Bone Spring Carb		-2.01	269.50	
10,341.85	10,328.61	2nd Bone Spring Sand		-2.01	269.50	
10,862.06	10,848.30	3rd Bone Spring Carb		-2.01	269.50	
11,299.43	11,210.37	3rd Bone Spring Sand		-2.01	269.50	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,500.00	1,500.00	0.00	0.00	Start Build 1.50	
1,833.33	1,832.91	13.66	4.97	Start 200.00 hold at 1833.33 MD	
2,033.33	2,032.15	30.04	10.93	Start DLS 1.50 TFO -89.85	
2,260.11	2,257.93	50.92	11.37	Start 1849.64 hold at 2260.11 MD	
4,109.75	4,097.26	239.94	-36.62	Start Drop -1.50	
4,513.24	4,500.00	260.58	-41.86	Start 6247.76 hold at 4513.24 MD	
10,761.00	10,747.76	260.58	-41.86	KOP @ 10761'MD Build 10.00°/100'	
11,681.10	11,320.37	255.41	-634.89	"LP" 92.01° @ 11681.10'MD	
18,819.32	11,070.00	193.18	-7,768.45	"TD" 92.01° @ 18819.32'MD	

3R Operating, LLC

Company: 3R Operating, LLC
 Field: Lea County, NM (NAD 83)
 Location: IGLOO 19 24 Fed Com 602H
 Well: 602H
 OH
 Plan: Plan 1
 GL:3693' KB:26.50' @ 3719.50usft



Azimuths to Grid North
 True North: -0.45°
 Magnetic North: 5.74°

Magnetic Field
 Strength: 47145.9nT
 Dip Angle: 60.04°
 Date: 2/4/2026
 Model: IGRF2025

PROJECT DETAILS: Lea County, NM (NAD 83)

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level



RIG: TBD

To convert a Magnetic Direction to a Grid Direction, Add 5.74°

WELL DETAILS: 602H

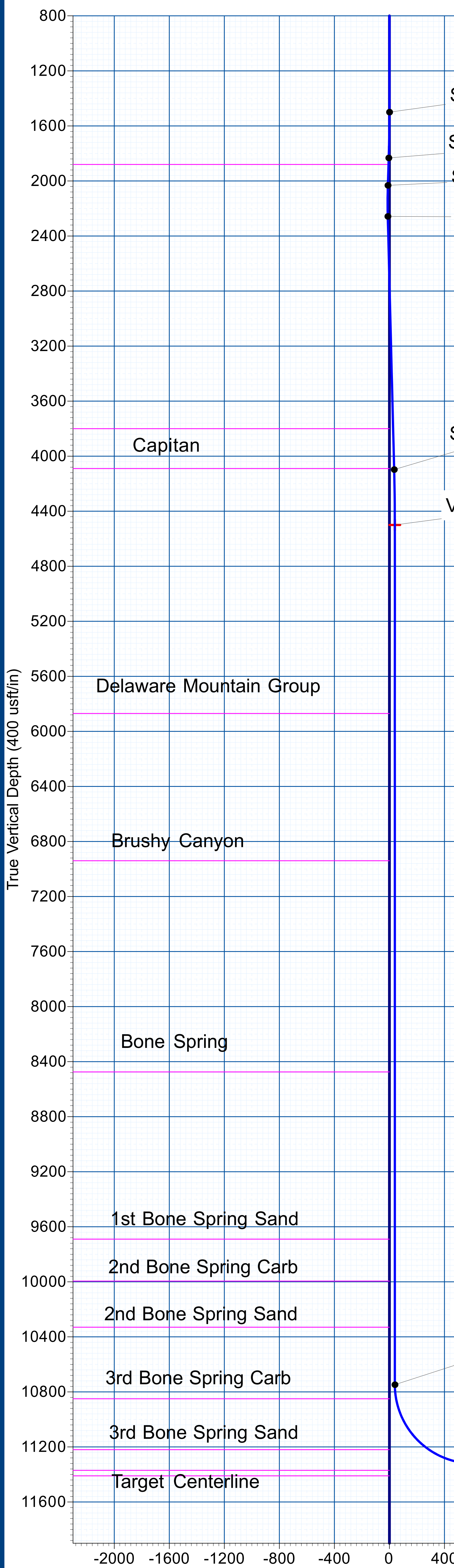
		GL:3693' KB:26.50' @ 3719.50usft		3693.00	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	565732.26	799090.75	32.552471	-103.496797

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	
3	1833.33	5.00	20.00	1832.91	13.66	4.97	1.50	20.00	-5.09	
4	2033.33	5.00	20.00	2032.15	30.04	10.93	0.00	0.00	-11.19	
5	2260.11	6.05	345.75	2257.93	50.92	11.37	1.50	-89.85	-11.82	
6	4109.75	6.05	345.75	4097.26	239.94	-36.62	0.00	0.00	34.53	
7	4513.24	0.00	0.00	4500.00	260.58	-41.86	1.50	180.00	39.58	VP/FTP(IGLOO 602H)
8	10761.00	0.00	0.00	10747.76	260.58	-41.86	0.00	0.00	39.58	
9	11681.10	92.01	269.50	11320.37	255.41	-634.89	10.00	269.50	632.64	
10	18819.32	92.01	269.50	11070.00	193.18	-7768.45	0.00	0.00	7766.47	LTP/BHL(IGLOO 602H)

DESIGN TARGET DETAILS

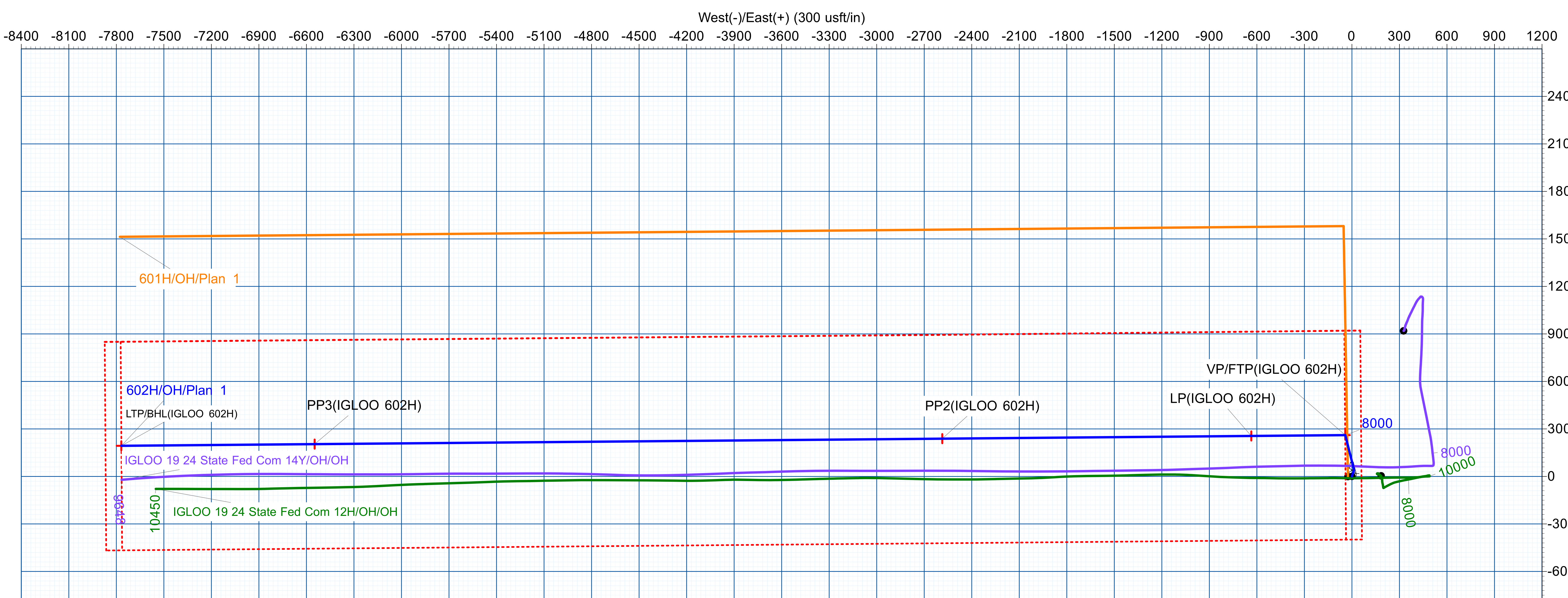
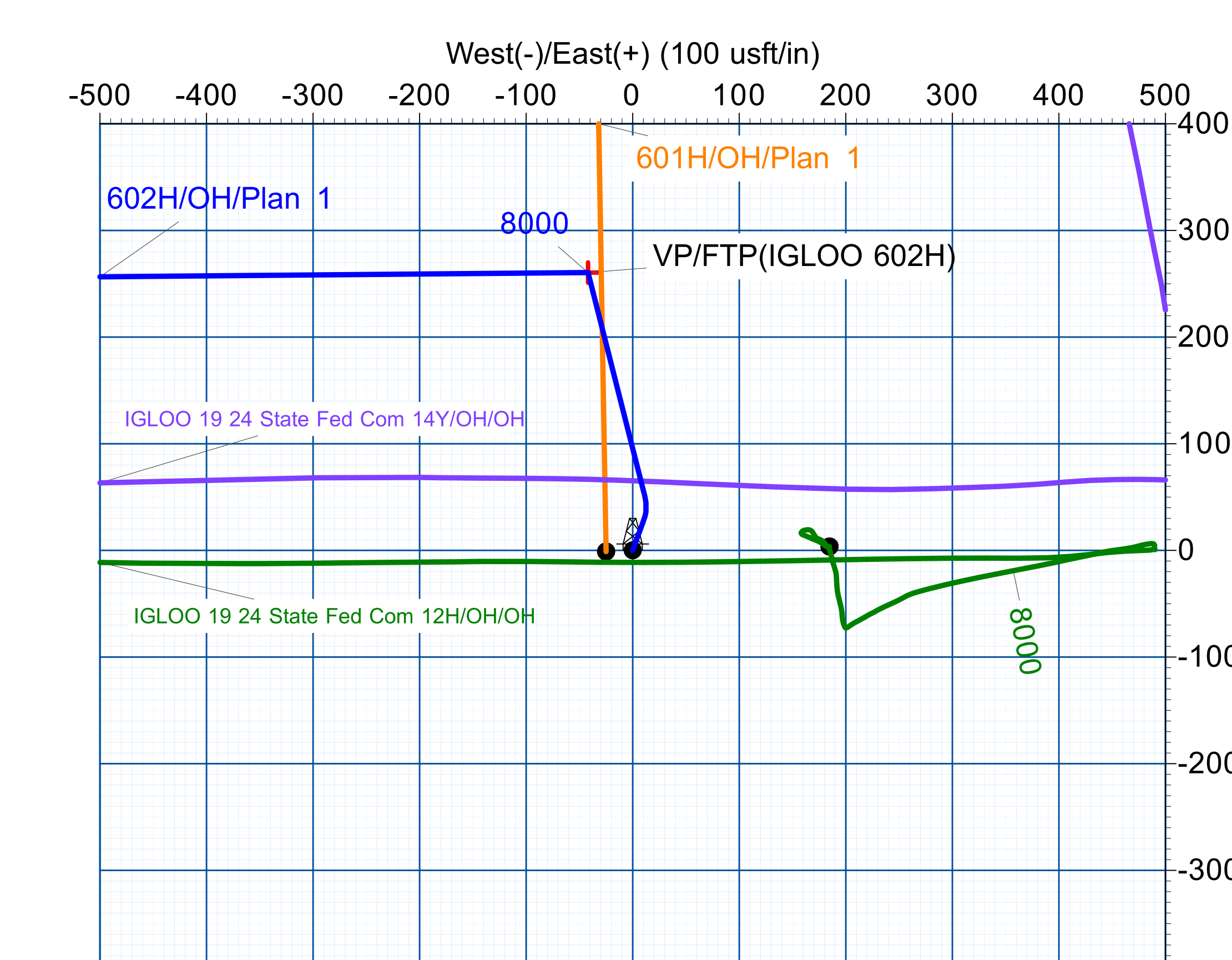
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VP/FTP(IGLOO 602H)	4500.00	260.58	-41.86	56592.84	799048.89	32.553188	-103.496926
LTP/BHL(IGLOO 602H)	11070.00	193.18	-7768.45	565925.44	791322.30	32.553168	-103.522002
PP3(IGLOO 602H)	11112.83	203.82	-6548.04	565936.08	792542.71	32.553171	-103.518042
PP2(IGLOO 602H)	11251.89	238.39	-2585.81	565970.65	796504.94	32.553182	-103.505182
LP(IGLOO 602H)	11320.37	255.41	-634.89	565987.67	798455.86	32.553187	-103.498851



Start Build 1.50
 Start 200.00 hold at 1833.33 MD
 Start DLS 1.50 TFO -89.85
 Start 1849.64 hold at 2260.11 MD
 Start Drop -1.50
 VP/FTP(IGLOO 602H)

FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
1880.23	1880.83	Rustler
3799.05	3809.87	Yates
4088.80	4101.24	Capitan
5868.61	5881.85	Delaware Mountain Group
6938.61	6951.85	Brushy Canyon
8473.61	8486.85	Bone Spring
9688.61	9701.85	1st Bone Spring Sand
9993.61	10006.85	2nd Bone Spring Carb
10328.61	10341.85	2nd Bone Spring Sand
10848.30	10862.06	3rd Bone Spring Carb
11210.37	11299.43	3rd Bone Spring Sand



KOP @ 10761'MD Build 10.00°/100'
 "LP" 92.01° @ 11681.10'MD
 "TD" 92.01° @ 18819.32'MD
 PP2(IGLOO 602H)
 PP3(IGLOO 602H)

February 9, 2026

Attn: Engineering Dept.
Bureau of Land Management
Carlsbad Field Office
520 E. Greene St.
Carlsbad, NM 88220

RE: **43 CFR § 3162.3-1 (j): Waste Minimization Plan**
3R Operating, LLC
Application for Permit to Drill
Igloo 19 24 Fed Com 602H
SE/4-SW/4 Section 19-20S-35E
Lea County, NM

To Whom It May Concern,

3R Operating, LLC has submitted a Federal Application for Permit to Drill (APD) for the proposed “Igloo 19 24 Fed Com 602H” oil well. As required by the Waste Minimization Plan and in compliance with 43 CFR § 3162.3-1 (j)(1)-(4), 3R Operating provides the following information:

43 CFR § 3162.3-1 (j)(1) & (2): Anticipated Initial Oil & Gas Production and Decline

Oil	Gas
Estimated 1st month of oil production: <i>See attachment</i>	Estimated 1st month of gas production: <i>See attachment</i>
Estimated 36th month of oil production: <i>See attachment</i>	Estimated 36th month of gas production: <i>See attachment</i>

43 CFR § 3162.3-1 (j)(3): Gas Sales Certification

3R Operating, LLC hereby certifies that the operator will have a valid, executed gas sales contract to sell to a purchaser 100 percent of the produced oil-well gas, less gas anticipated for use on-lease pursuant to 43 CFR subpart 3178.

43 CFR § 3162.3-1 (j)(4): Other Information

See attachment (NM OCD Natural Gas Management Plan)

State of New Mexico
 Energy, Minerals and Natural Resources Department

Submit Electronically
 Via E-permitting

Oil Conservation Division
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

I. Operator: 3R Operating, LLC **OGRID:** 331569 **Date:** 02 / 09 / 26

II. Type: Original Amendment due to 19.15.27.9.D(6)(a) NMAC 19.15.27.9.D(6)(b) NMAC Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
See attachment						

IV. Central Delivery Point Name: _____ [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
See attachment						

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system will will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator does does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

Attach Operator’s plan to manage production in response to the increased line pressure.

XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	<i>Kalen Melton</i>
Printed Name:	Kalen Melton
Title:	Permitting Agent
E-mail Address:	kmelton@reagansmith.com
Date:	02/09/26
Phone:	405-286-9326

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment

Separation equipment will be sized by construction engineering staff based on stated manufacturer daily throughput capacities and anticipated daily production rates to ensure adequate capacity. Closed vent system piping, compression needs, and VRUs will be sized utilizing modeling software to ensure adequate capacity for anticipated production volumes and conditions. Production composition and the volumes will be utilized as inputs to a process model which predicts relative amounts of gas, oil and water throughout the process. The high-volume case will be used to size equipment, piping and instrumentation.

Each well has a dedicated 3-phase separator and gas from that separator is taken directly to gas sales. Facility piping and pipeline will be sized to allow peak volumes to flow with minimal pressure loss and deliver to the midstream gatherer at an acceptable pressure. Water will be conveyed directly to tankage. Oil from 3-phase separators will be conveyed to a heated separator for enhanced liquid-liquid separation and degassing. Vapors from the heater treater are routed to flare. Oil and water storage tanks vapor outlets utilize a closed vent vapor system to ensure all working & breathing and flashing losses are routed to the flare which is sized to accommodate peak expected production volume. Flash volumes are estimated using the high-volume case.

VII. Operational Practices

The operator will ensure pipeline connectivity before producing hydrocarbons and will operate a closed vent vapor capture system that is designed to capture all associated and evolved gas during normal operation. Venting will only occur during maintenance activities or equipment failure. The operator may utilize the following from Section 3 for its operations to minimize flaring:

- A. The operator will maximize the recovery of natural gas by minimizing the waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. The operator will ensure that well(s) will be connected to a natural gas gathering system with sufficient capacity to transport natural gas. If there is no adequate takeaway for the gas, compression will be added to deliver volumes that are produced. Well production may also be curtailed to manage the flow of gas and not overrun compression.
- B. All drilling operations will be equipped with a rig flare located at least 100' from the nearest surface hole. Rig flare will be utilized to combust any natural gas that is brought to surface during normal drilling operations.
- C. During completion operations any natural gas brought to surface will be flared. Immediately following the finish of completion operations, all well flowback will be directed to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. It is not anticipated that gas will not meet pipeline standards; however, if natural gas does not meet gathering pipeline quality specifications, the operator will flare the natural gas for up to 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner. The operator will ensure that the flare is sized properly and is equipped with automatic igniter or continuous pilot. The gas sample will be analyzed twice per week and the gas will be routed into a gathering system as soon as pipeline specifications are met.
- D. Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(I) through (4). If there is no adequate takeaway for the separator gas, well(s) will be curtailed until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting and/or flaring volumes will be measured using a total flow meter and reported appropriately.
- E. The operator will comply with the performance standards requirements and provisions listed in 19.15.27.8 E.(I) through (8). All equipment will be designed and sized to handle maximum anticipated pressures and throughputs to minimize the waste. Production storage tanks constructed after May 25, 2021, will be equipped with automatic gauging system. Flares constructed after May 25, 2021, will be equipped with automatic igniter or continuous pilot. Flares will be located at least 100' from the well and storage tanks unless otherwise approved by the division. The operator will conduct AVO inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.
- F. The volume of natural gas that is vented or flared as the result of malfunction or emergency during drilling and completions operations will be estimated. The volume of natural gas that is vented, flared, or beneficially used during production operations, will be measured, or estimated. The operator will install equipment to measure the volume of natural gas flared from existing process piping, or a flowline piped from equipment such as high-

pressure separators, heater treaters, or vapor recovery units associated with a well or facility associated with a well authorized by an APD issued after May 25, 2021, that has an average daily production greater than 60 Mcf/day. If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, the operator will estimate the volume of vented or flared natural gas. Measuring equipment will conform to industry standards and will not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

VIII. Best Management Practices

The operator utilizes automated engineering controls included in facility design to minimize venting and flaring. Additionally, operator's SOP support the minimization of flare and venting.

If the main gas outlet becomes unavailable and pressure increases on the outlet sales line, produced gas will be routed directly to the facility flare. The facility control system will alert personnel to the need for maintenance and appropriate response to the temporary flaring event. The facility design includes a closed vent vapor capture system to route flash from the heater treater and tanks to the flare. For maintenance activities, the operator will utilize the facility flare to blowdown equipment and piping whenever practical to minimize venting.



3R Operating, LLC

BOP Break Testing Variance

3R Operating respectfully requests a variance from the minimum standards for well control equipment testing of 43 CFR 3172 to allow a testing schedule of the blowout preventer (BOP) and blowout prevention equipment (BOPE) along with Batch Drilling operations to include the following:

Please note this procedure is for Intermediate Intervals only

Procedures:

1. Full BOPE test at first installation on the pad.
 - Full BOPE test every 21 days by a 3rd Party.
 - Function test BOP elements per 43 CFR 3172.
 - Contact BLM if a well control event occurs.
2. After the well section is cemented and secured with a packoff, the BOP will be disconnected from the wellhead (Fig. 5), and the choke line will be disconnected to add or take away sections of hardline as needed (Fig. 1).
3. A TA cap will be installed according to manufacturer recommendations and pressure inside the casing will be monitored via the valve on the TA cap.
4. The BOP stack will be hoisted by a hydraulic handling system, and carried while the rig skids to the next well (Fig. 3 & 4).
5. The new well will be confirmed static, and then the TA cap removed.
6. BOP stack will be set down and connected to the new well.
7. A Test plug installed in wellhead.
8. Pressure test will be done by a 3rd party between the upper pipe rams, kill line valve, and choke, testing the break in the BOP stack, and the choke line (Fig. 1 & 2).
9. The annular, lower pipe rams, and blind rams will be function tested on every trip, but no more than once a day.
10. If the upcoming well section cannot be completed within 21 days, then a full BOPE test will always be completed.
11. This process will be repeated for subsequent wells on the pad.



Barriers

Before nipple down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or fluted mandrel with packoff

After nipple down

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or fluted mandrel with packoff
- Capping flange

Summary

A variance is requested to only test broken pressure seals on the BOPE when moving between wells on a multi-well pad, subject to the following conditions:

- A full BOPE test conducted on the first well of the pad. API Standard 53 requires testing annular BOP to 70% of working pressure or 100% of MASP, whichever is greater.
- If the first well on the pad does not have the deepest section, a full BOPE test will be performed prior to the deeper well.
- The hole section to be drilled has a MASP under 5000 psi.
- If a well control event occurs, BLM will be contacted for permission to continue break testing.

While skidding the rig, the BOP stack will be secured via a hydraulic handling system, a manner that no other components are affected by the rig move. A full BOPE test will be performed at least every 21 days.

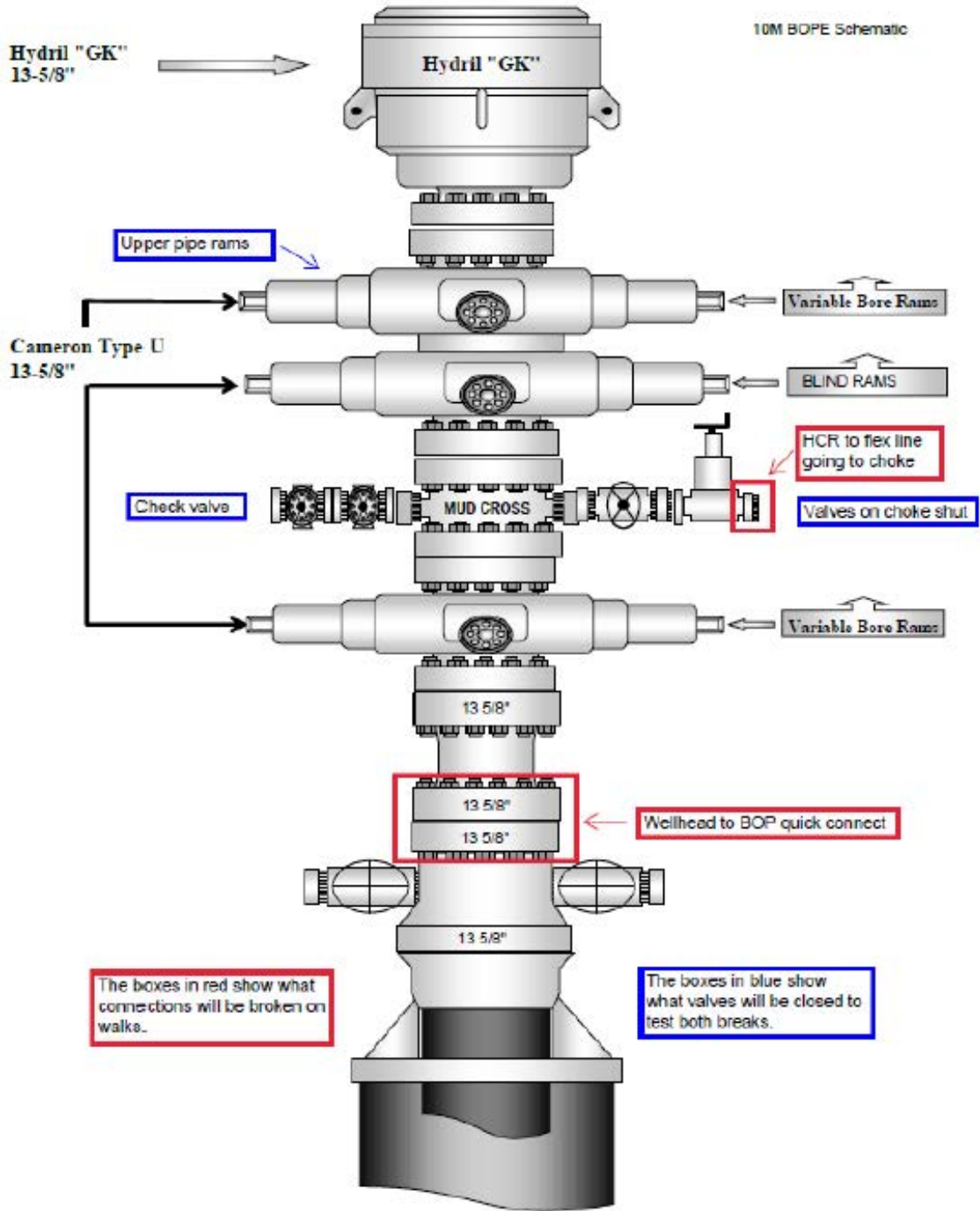


Figure 1. BOP diagram



Break Testing

TO BE CLOSED DURING BREAK TEST

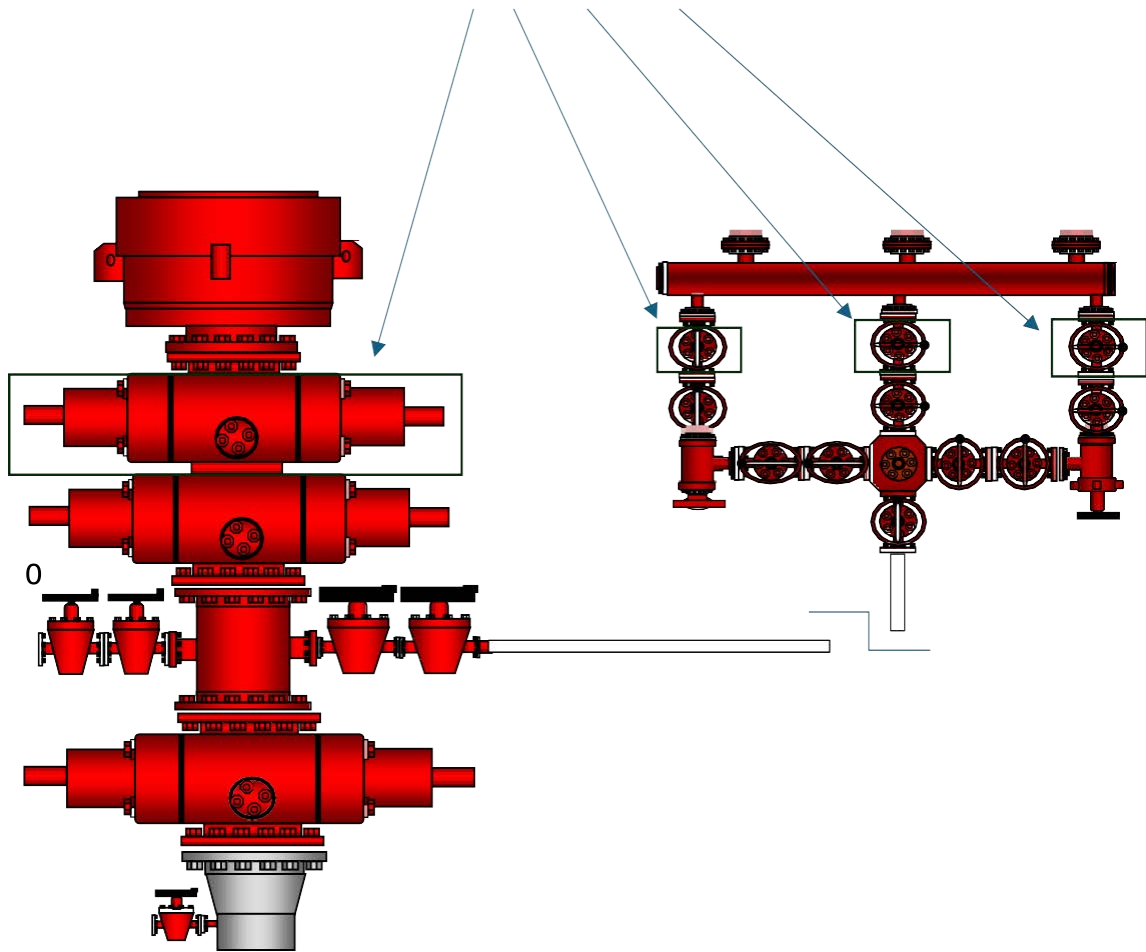




Figure 3: BOP handling system



Figure 4: BOP handling system

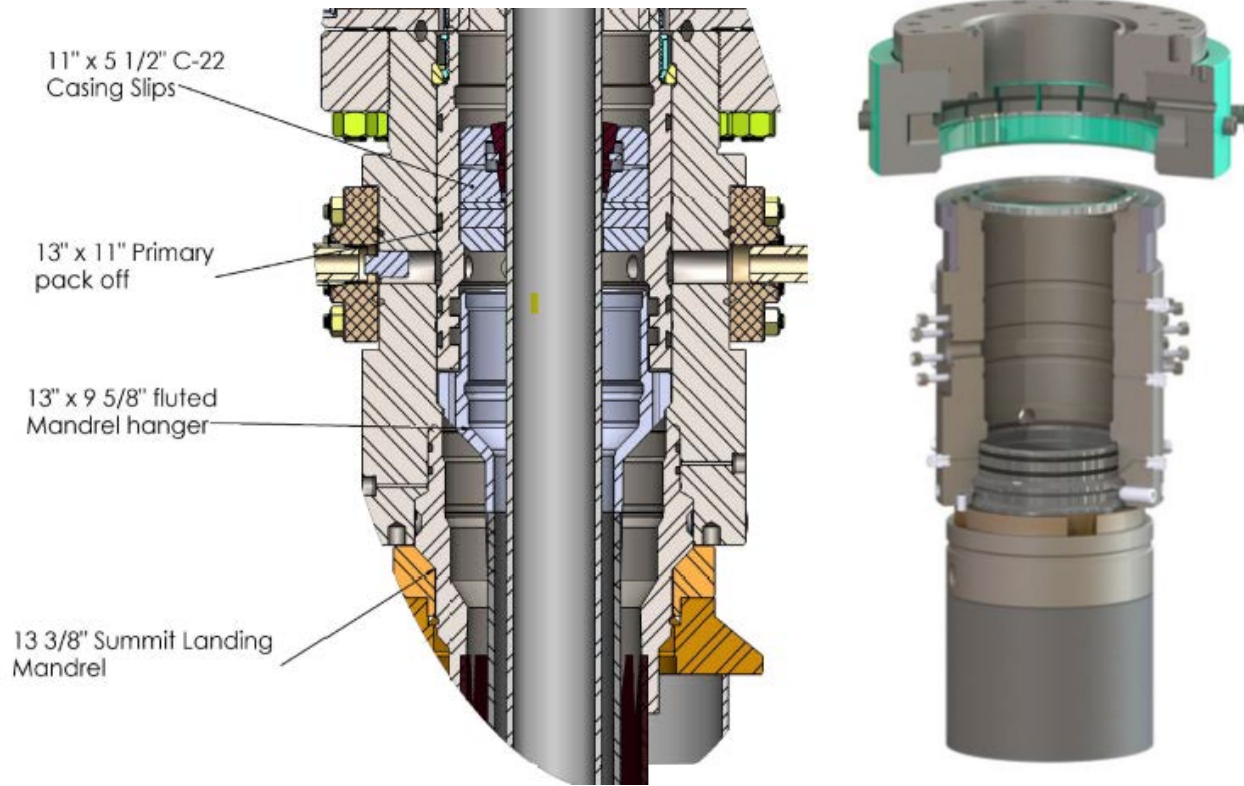
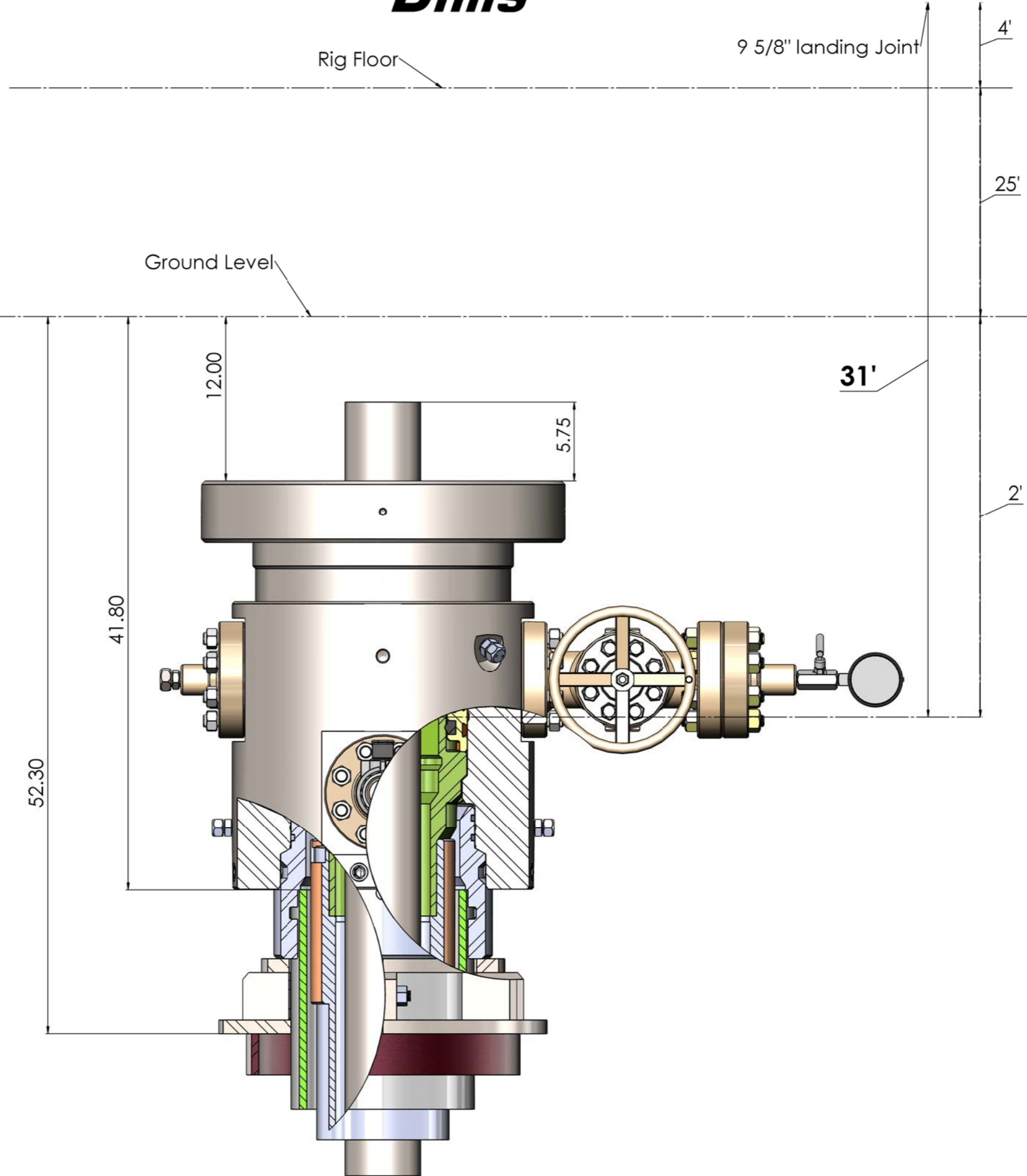


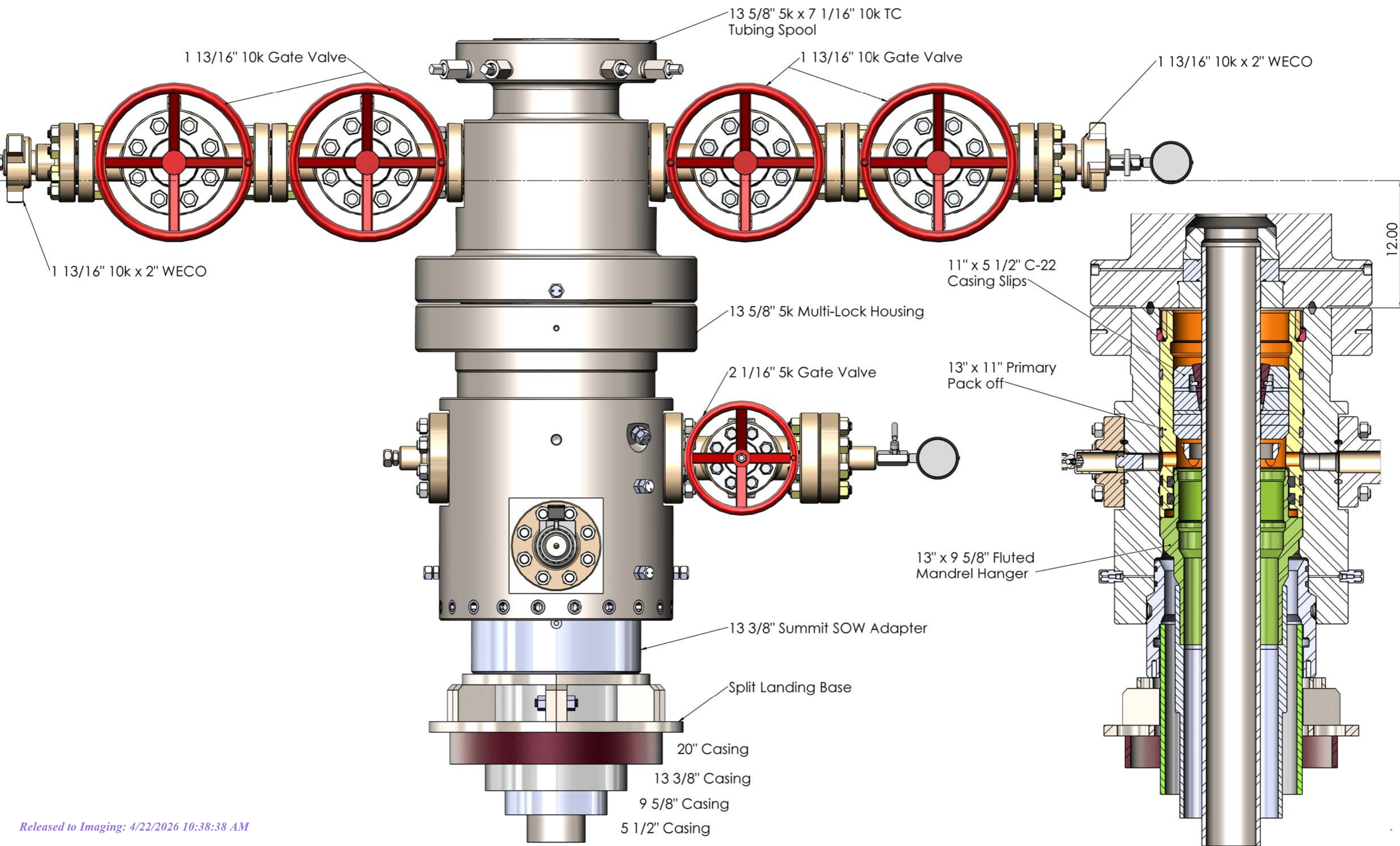
Figure 5: Atlas wellhead with BOP quick connect



13 5/8" 5k Multi-Lock Dims



13 5/8" 5k Multi-Lock





U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

SUPO Data Report

03/31/2026

APD ID: 10400110146

Submission Date: 02/11/2026

Highlighted data reflects the most recent changes

Operator Name: 3R OPERATING LLC

Well Name: IGLOO 19 24 FED COM

Well Number: 602H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

20261166_IGLOO_19_24_FED_COM_REV._0_VM_20260130_20260205083835.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Existing Well map Attachment:

Operator Name: 3R OPERATING LLC

Well Name: IGLOO 19 24 FED COM

Well Number: 602H

IGLOO_ONE_MILE_RADIUS_20260205084020.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Production will be transported offsite via existing flowline ROW to an existing Central Tank Battery (CTB) approx. 500' North of the proposed Igloo Pad Expansion. The flowlines will share the existing ROW. No new surface disturbance planned. Please see attached exhibit.

Production Facilities map:

Existing_Igloo_Flowline_ROW_20260205085742.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: PERENNIAL SURFACE

Water source use type: DUST CONTROL
SURFACE CASING
INTERMEDIATE/PRODUCTION CASING
STIMULATION

Source latitude: 32.563248

Source longitude: -103.469417

Source datum: NAD83

City:

Water source permit type: PRIVATE CONTRACT

Water source transport method: PIPELINE

Source land ownership: PRIVATE

Source transportation land ownership: PRIVATE

Water source volume (barrels): 180000

Source volume (acre-feet): 23.20075734

Source volume (gal): 7560000

Water source and transportation

Igloo_Water_Transport_20260210084440.pdf

Water source comments: Existing frac ponds. Temporary aboveground water line.

New water well? N

New Water Well Info

Operator Name: 3R OPERATING LLC
Well Name: IGLOO 19 24 FED COM **Well Number:** 602H

Well latitude: **Well Longitude:** **Well datum:**

Well target aquifer:

Est. depth to top of aquifer(ft): **Est thickness of aquifer:**

Aquifer comments:

Aquifer documentation:

Well depth (ft):	Well casing type:
Well casing outside diameter (in.):	Well casing inside diameter (in.):
New water well casing?	Used casing source:
Drilling method:	Drill material:
Grout material:	Grout depth:
Casing length (ft.):	Casing top depth (ft.):
Well Production type:	Completion Method:
Water well additional information:	
State appropriation permit:	
Additional information attachment:	

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Location will be graded and leveled with existing soil at proposed site. Construction material will be obtained via private contract for the construction of the well pad. Source of materials is existing pit located on private surface (approx. 32.553749, -103.413386) in the SW/4 of Sec. 24-20S-35E.

Construction Materials source location

Section 7 - Methods for Handling

Waste type: COMPLETIONS/STIMULATION

Waste content description: Water associated with completion of the well.

Amount of waste: 1000 barrels

Waste disposal frequency : Weekly

Safe containment description: Completion water will be held in permanent above ground storage tanks on the well pad. The tank(s) will be contained by appropriate secondary containment.

Safe containant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: Third party vendor will be charged with disposal of waste (R360 Environmental Solutions). Waste will be hauled to an approved commercial disposal facility.

Operator Name: 3R OPERATING LLC

Well Name: IGLOO 19 24 FED COM

Well Number: 602H

Waste type: GARBAGE

Waste content description: Garbage produced during drilling and completions.

Amount of waste: 1000 pounds

Waste disposal frequency : Weekly

Safe containment description: All garbage will be contained either in trash cans or dumpsters onsite.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL FACILITY

Disposal type description:

Disposal location description: Third party vendor will be charged with disposal of waste (R360 Environmental Solutions). Waste will be hauled to an approved commercial disposal facility.

Waste type: DRILLING

Waste content description: Drilling mud and cuttings

Amount of waste: 3800 barrels

Waste disposal frequency : One Time Only

Safe containment description: Drilling mud and cuttings will be contained in a closed system. During drilling activities trenches will surround all pumps, motors, and rig such that runoff will be directed to a sump area on the well site and pumped into a haul off tank.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL FACILITY

Disposal type description:

Disposal location description: Third party vendor will be charged with disposal of waste (R360 Environmental Solutions). Waste will be hauled to an approved commercial disposal facility.

Waste type: PRODUCED WATER

Waste content description: Water produced from the target formation.

Amount of waste: 1000 barrels

Waste disposal frequency : Daily

Safe containment description: Water produced form target formation will be held in permanent above ground storage tanks on the well pad. The tank(s) will be contained by appropriate secondary containment.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL FACILITY

Disposal type description:

Disposal location description: TBD - Disposal will occur at a regional wastewater disposal facility designed and approved to dispose of oilfield wastewater.

Operator Name: 3R OPERATING LLC

Well Name: IGLOO 19 24 FED COM

Well Number: 602H

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

Rig_Layout_20250919121621.pdf

IGLOO_PAD_EXPANSION_PLAT_20260325132305.pdf

Comments:

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: Igloo 19 24 Fed Com

Multiple Well Pad Number: 601H, 602H

Recontouring

IGLOO_PAD_EXPANSION_PLAT_20260325132327.pdf

Drainage/Erosion control construction: To mitigate erosion and protect the natural drainage areas, erosion control methods (e.g. cut and fill ratios of 2:1 or 3:1) will be implemented during the construction and production phases of this project. The slopes of the well pad may be reseeded or replanted per agreement with the landowner. Erosion mitigation such as water diversions, silt fences, and hay bales will be located as necessary around the well pad.

Drainage/Erosion control reclamation: To mitigate erosion and protect the natural drainage areas, erosion control methods (e.g. cut and fill ratios of 2:1 or 3:1) will be implemented during the construction and production phases of this project. The slopes of the well pad may be reseeded or replanted per agreement with the landowner. Erosion mitigation such as water diversions, silt fences, and hay bales will be located as necessary around the well pad.

Well pad proposed disturbance (acres): 2.38	Well pad interim reclamation (acres): 0	Well pad long term disturbance (acres): 2.38
Road proposed disturbance (acres): 0	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0
Powerline proposed disturbance (acres): 0	Powerline interim reclamation (acres): 0	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 0	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 2.38	Total interim reclamation: 0	Total long term disturbance: 2.38

Disturbance Comments:

Reconstruction method: The operator does not intend to downsize this well location at this time due to plans of future oil and gas development. In the event that it later becomes necessary to downsize or reclaim

Operator Name: 3R OPERATING LLC

Well Name: IGLOO 19 24 FED COM

Well Number: 602H

the well pad, the following methods will be implemented. The operator will restore topsoil to its original condition. The operator will backfill, level, and restore site to original contours with segregation of spoiled materials as needed. The operator will rehabilitate all disturbed areas. All areas of reclamation will be rehabilitated as per agreement with private surface owner or surface managing agency. Upon abandonment of the well, all waste will be hauled away and disposed of in an approved manner. All equipment and salvageable material will be removed from the drill site. All debris generated from the drilling and operating of the well, which is unsuited for burial at an approved landfill, will be disposed of according to applicable regulations. Cleaning operations will commence with completion of drilling activity and should be completed in approximately 10 days. The drill site will be restored as near as practicable to its reconstruction condition and topography. All surface drainage patterns, which may be affected by the proposed action, will be shaped and restored to preconstruction conditions. The soil will be graded and tilled to prepare its surface for seedbed in accordance with the applicable regulatory and conservation agencies. Erosion control techniques will be implemented when necessary. If applicable, construction of all pipelines will be in accordance with standard pipeline industry practices to assure prudent and safe operations and use of the land and in accordance with the conditions and stipulations of the BLM. The right-of-ways will be graded as necessary to provide a suitable work surface.

Topsoil redistribution: The operator does not intend to downsize this well location at this time due to plans of future oil and gas development. In the event that it later becomes necessary to downsize or reclaim the well pad, topsoil will be redistributed after the well pad has been returned to original contours, or as close as practical.

Soil treatment: No soil treatment will be needed.

Existing Vegetation at the well pad: The project area is located within the "Shinnery Sands" Level IV Ecoregion, which consists of widespread sand hills, dunes, and sand beds. Typical vegetation includes shinnery oak, sandsage, fourwing saltbrush, yucca, and prairie grasses & forbs. Vegetation is vulnerable to overgrazing and wind blowouts. Topography is often flat to gently rolling. Land use within and surrounding the project area is primarily limited to oil & gas development.

Existing Vegetation at the well pad

Existing Vegetation Community at the road: The project area is located within the "Shinnery Sands" Level IV Ecoregion, which consists of widespread sand hills, dunes, and sand beds. Typical vegetation includes shinnery oak, sandsage, fourwing saltbrush, yucca, and prairie grasses & forbs. Vegetation is vulnerable to overgrazing and wind blowouts. Topography is often flat to gently rolling. Land use within and surrounding the project area is primarily limited to oil & gas development.

Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: The project area is located within the "Shinnery Sands" Level IV Ecoregion, which consists of widespread sand hills, dunes, and sand beds. Typical vegetation includes shinnery oak, sandsage, fourwing saltbrush, yucca, and prairie grasses & forbs. Vegetation is vulnerable to overgrazing and wind blowouts. Topography is often flat to gently rolling. Land use within and surrounding the project area is primarily limited to oil & gas development.

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: The project area is located within the "Shinnery Sands" Level IV Ecoregion, which consists of widespread sand hills, dunes, and sand beds. Typical vegetation includes shinnery oak, sandsage, fourwing saltbrush, yucca, and prairie grasses & forbs. Vegetation is vulnerable to overgrazing and wind blowouts. Topography is often flat to gently rolling. Land use within and surrounding the project area is primarily limited to oil & gas development.

Existing Vegetation Community at other disturbances

Non native seed used?

Non native seed description:

Seedling transplant description:

Operator Name: 3R OPERATING LLC

Well Name: IGLOO 19 24 FED COM

Well Number: 602H

Will seedlings be transplanted for this project?

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation?

Seed harvest description:

Seed harvest description attachment:

[Seed](#)

[Seed Table](#)

Seed Summary	
Seed Type	Pounds/Acre

Total pounds/Acre:

Seed reclamation

[Operator Contact/Responsible Official](#)

First Name:

Last Name:

Phone:

Email:

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment

Weed treatment plan description: Weeds will be mowed regularly to prevent them from becoming the dominant species within the project area.

Weed treatment plan

Monitoring plan description: The project location will be periodically monitored by the operator's staff that are responsible for infrastructure maintenance.

Monitoring plan

Success standards: Develop sufficient plant and root coverage to minimize erosion and maximize sediment control.

Pit closure description: N/A

Pit closure attachment:

Operator Name: 3R OPERATING LLC

Well Name: IGLOO 19 24 FED COM

Well Number: 602H

Section 11 - Surface

Disturbance type: WELL PAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: AGREEMENT

Surface Access Agreement Need description: A surface use agreement will be finalized with the private surface owner prior to construction.

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Operator Name: 3R OPERATING LLC

Well Name: IGLOO 19 24 FED COM

Well Number: 602H

Section 12 - Other

Right of Way needed? N

Use APD as ROW?

ROW Type(s):

ROW

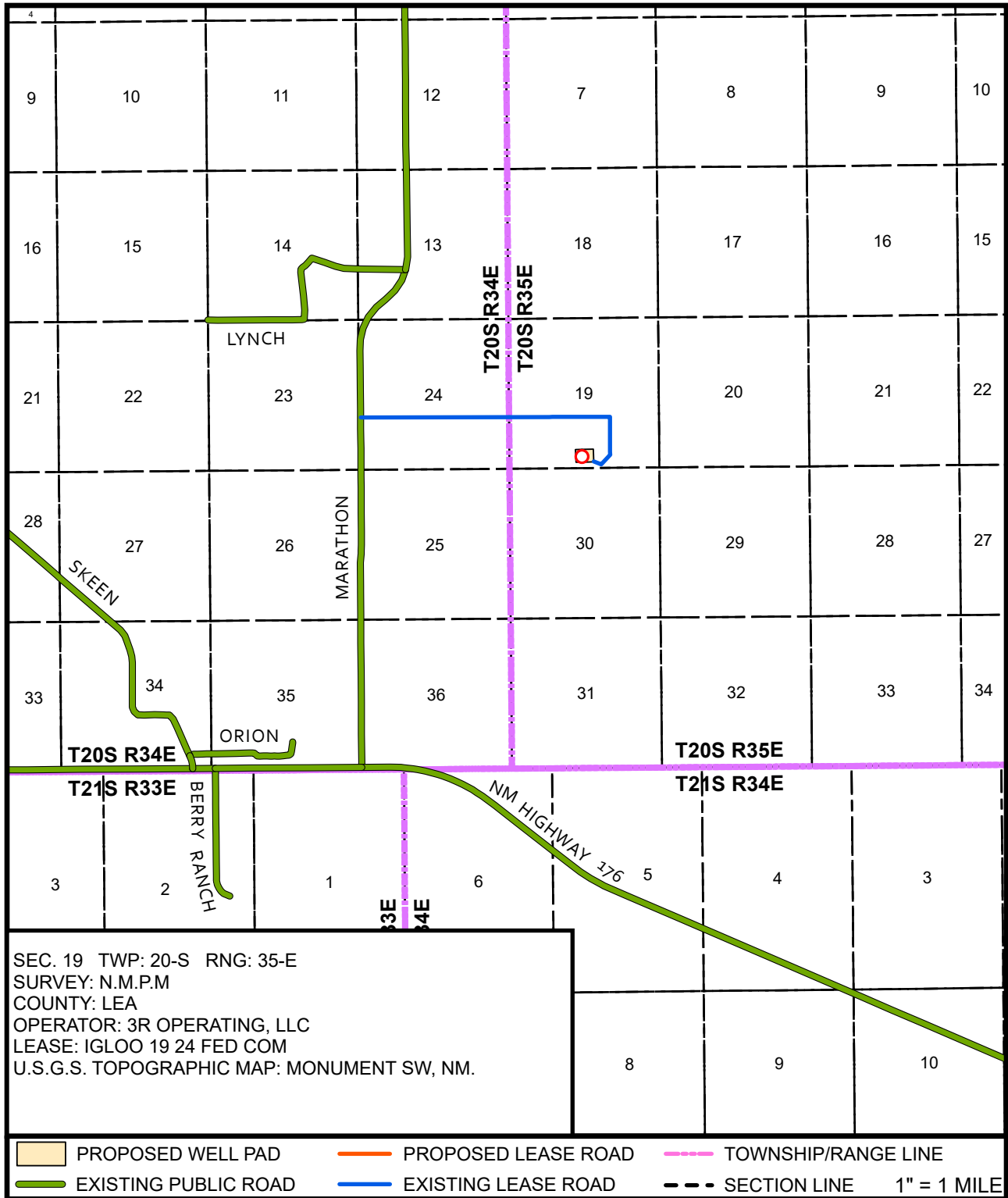
SUPO Additional Information:

Use a previously conducted onsite? N

Previous Onsite information:

Other SUPO

VICINITY MAP



APPROXIMATELY 23.7 MILES SOUTHWEST OF HOBBS, NM.

FROM THE INTERSECTION OF STATE HWY 18 AND US HWY 180/62 IN HOBBS, NM, TAKE US HWY 180/62 WEST FOR 23.6 MILES TO COUNTY ROAD 27-A. TURN LEFT ONTO COUNTY ROAD 27-A AND CONTINUE FOR 5.6 MILES TO AN EXISTING LEASE ROAD. TURN LEFT ONTO THE EXISTING LEASE ROAD AND TRAVEL EAST FOR 1.7 MILES TO ANOTHER EXISTING LEASE ROAD. TURN RIGHT AND HEAD SOUTH FOR 0.3 MILES TO AN EXISTING WELL PAD. CROSS THE PAD TO THE SOUTHWEST CORNER OF THE PAD. FOLLOW THE EXISTING LEASE ROAD 284 FEET TO THE SOUTHEAST CORNER OF THE EXISTING IGLOO 19 WELL PAD.
















PREPARED BY:
 DELTA FIELD SERVICES, LLC
 510 TRENTON STREET,
 WEST MONROE, LA 71291
 318-323-6900 OFFICE
 JOB No. 20261166

ONE-MILE RADIUS MAP

IGLOO WELL PAD EXPANSION
SECTION 19, TOWNSHIP 20-S, RANGE 35-E
SURVEY: NEW MEXICO PRINCIPAL MERIDIAN
OPERATOR: 3R OPERATING, LLC
COUNTY: LEA
U.S.G.S. TOPOGRAPHIC MAP: MONUMENT SW, NM



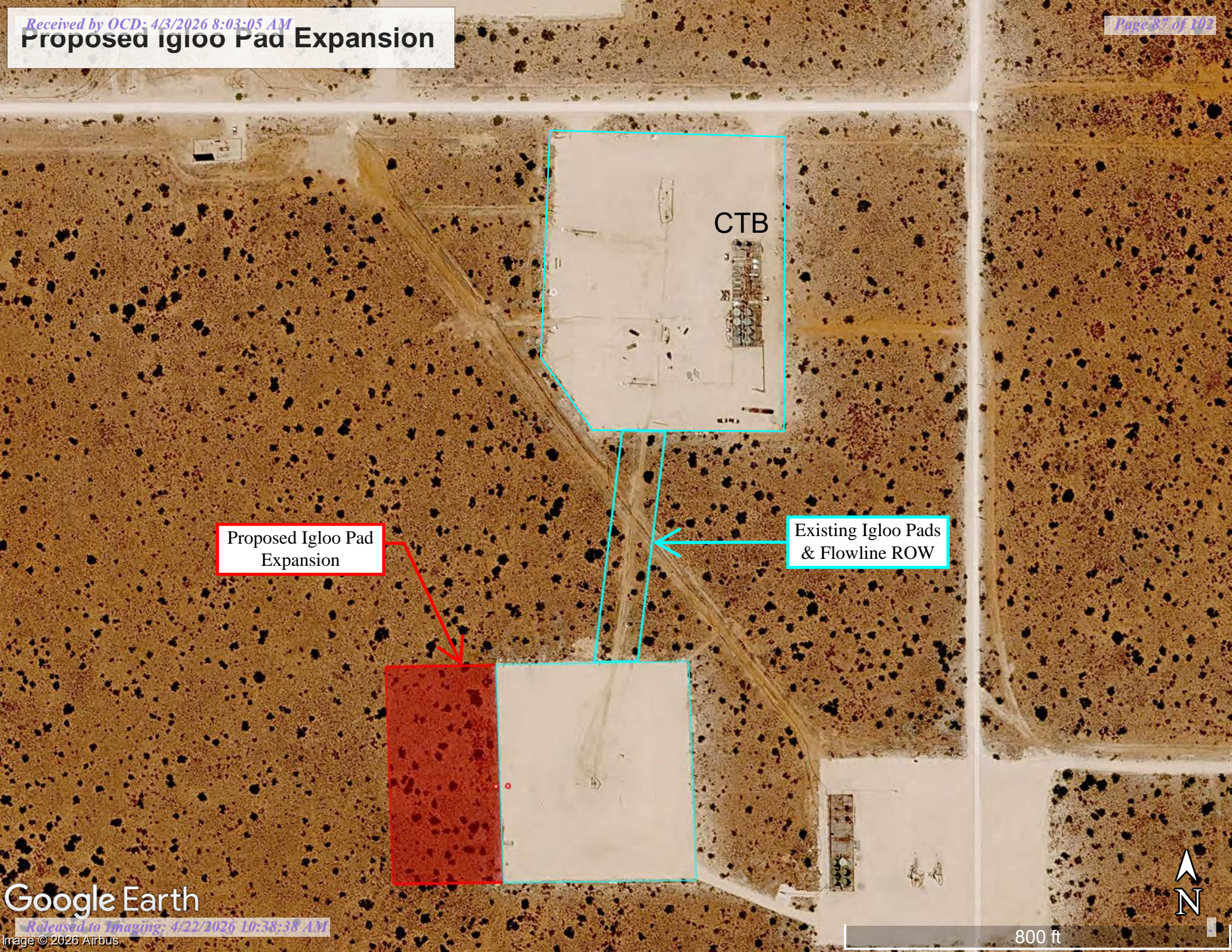
REV 0 CCT 1/30/2026

-  1 MILE RADIUS
-  PAD
-  TWRNRG
-  SECTIONS
-  Gas, Active (3)
-  Gas, Plugged (4)
-  Oil, Active (63)
-  Oil, Cancelled (19)
-  Oil, New (17)
-  Oil, Plugged (19)
-  Oil, Temporarily Abandoned (2)
-  Salt Water Injection, Active (2)
-  Salt Water Injection, Plugged (2)



SHEET 1 OF 4
 PREPARED BY:
 DELTA FIELD SERVICES, LLC.
 510 TRENTON ST, WEST MONROE, LA 71291
 318-323-6900 OFFICE
 JOB No. 20261166

Proposed Igloo Pad Expansion



CTB

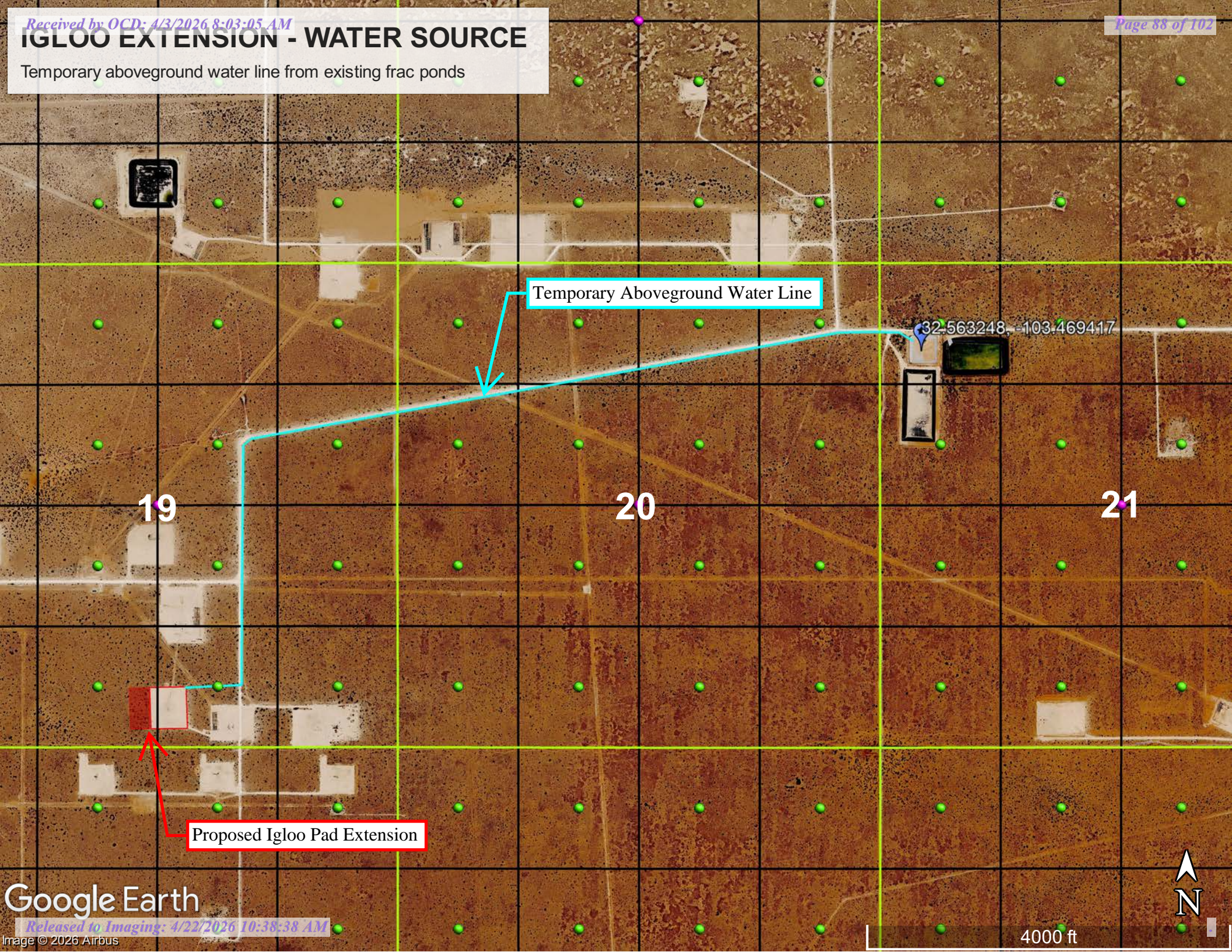
Proposed Igloo Pad Expansion

Existing Igloo Pads & Flowline ROW



IGLOO EXTENSION - WATER SOURCE

Temporary aboveground water line from existing frac ponds



Temporary Aboveground Water Line

32.563248, -103.469417

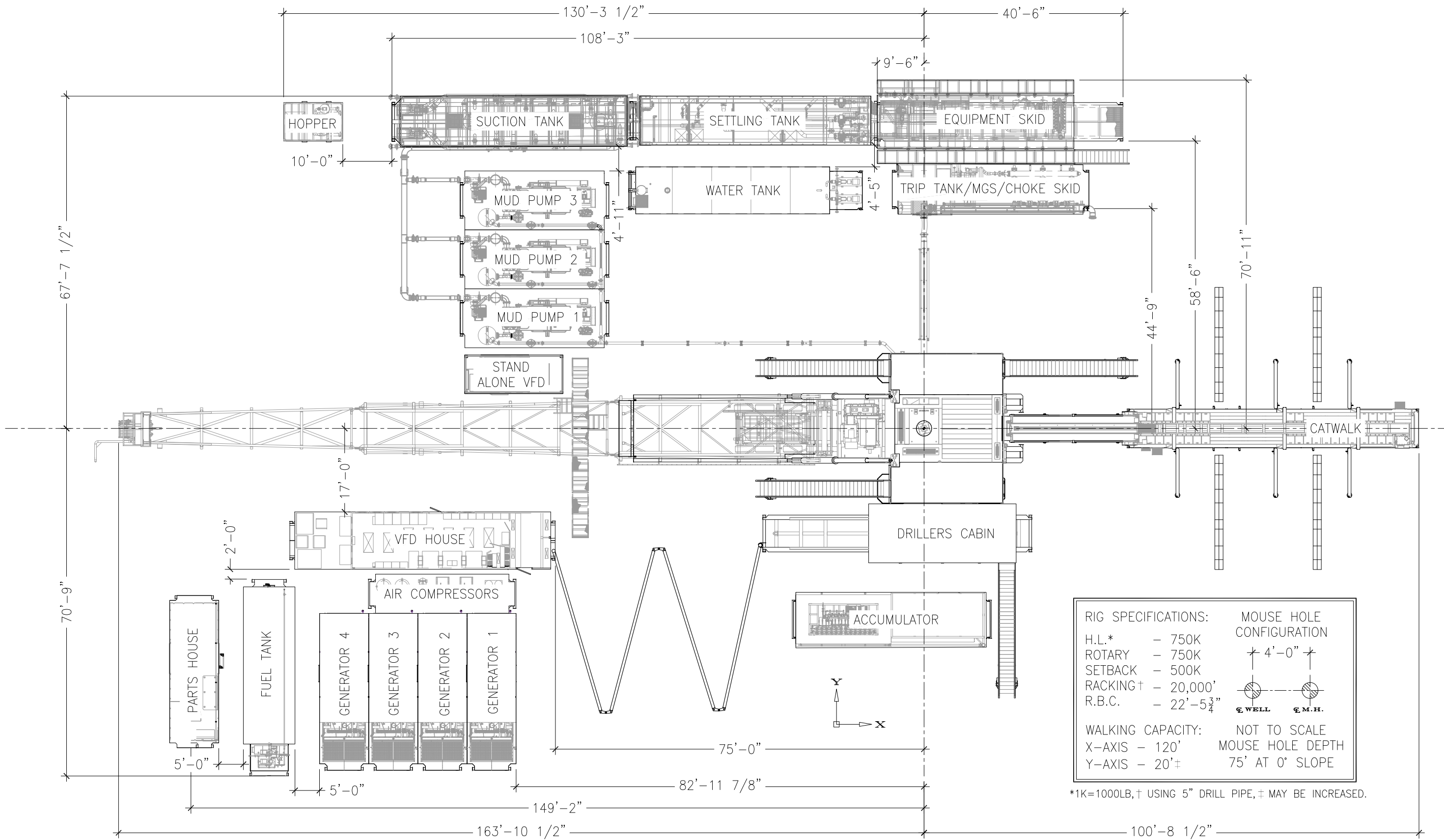
19

20

21

Proposed Igloo Pad Extension





REVISION HISTORY					
REV	DESCRIPTION	DATE	DRAWN BY	CHECKED BY	APPROVED BY
A	ISSUED FOR REVIEW	02/12/2020	MC	JM	-
0	GENERATORS CORRECTED	03/23/2020	MC	JM	-
1	ADDED MP3, ADDED RIG SPECS, UPDATED FORMATTING	06/1/2020	JM	JM	-
2	UPDATED RIG SPECS	07/23/2020	JM	JM	-
3	ADDED GEN 4	05/24/2022	JM	JM	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

UNSPECIFIED TOLERANCES		
DIMENSIONS OVER TO	MACHINED	WELDMENT
0 1.5	±0.008	±1/32
1.5 7.0	±0.010	±1/32
7.0 20.0	±0.020	±1/16
20.0 50.0	±0.030	±1/8
50.0 120.0	±0.060	±3/16
120.0 240.0	±0.080	±1/4
ANGLES	±0.1°	±0.5°

BREAK ALL CORNERS .06" X 45° MACHINE FINISH 250 MAX. MACHINED DIAMETERS ON SAME CENTERLINE SHALL BE COAXIAL WITHIN .001" DRILLED HOLE LOCATION .001" CHAMFER ALL TAPPED HOLES 45° TO FIRST THREAD ROOT. DIMENSIONS MARKED () ARE FOR GENERAL REFERENCE ONLY. NOT TO BE USED FOR CONSTRUCTION.

PROPRIETARY INFORMATION

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CONTACT INFORMATION

Corporate Office
 20475 SH 249, Ste. 300
 Houston, Texas 77070
 Main: (281) 598-1230
 www.icdrilling.com

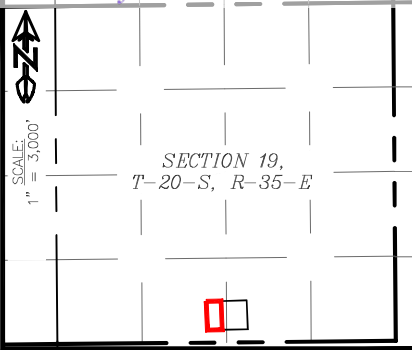
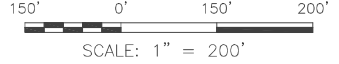
DRAWN BY:	MC	DATE:	03/17/2020
CHECKED BY:	JM	DATE:	03/17/2020
APPROVED BY:	-	DATE:	-

THIRD ANGLE PROJECTION

RIG 212 EQUIPMENT LAYOUT GENERAL ARRANGEMENT			
SIZE:	SCALE (UNO):	ESTIMATED WEIGHT (LBS):	
B	1:225	-	
DWG NO.:	REV:	SHEET:	
RIG212-GA-001	3	1 OF 1	

WELL PAD LOCATION PLAT

IGLOO WELL PAD EXPANSION
 SECTION 19, TOWNSHIP 20-S, RANGE 35-E
 SURVEY: NEW MEXICO PRINCIPAL MERIDIAN
 COUNTY: LEA
 OPERATOR: 3R OPERATING, LLC
 U.S.G.S. TOPOGRAPHIC MAP: MONUMENT SW, NM

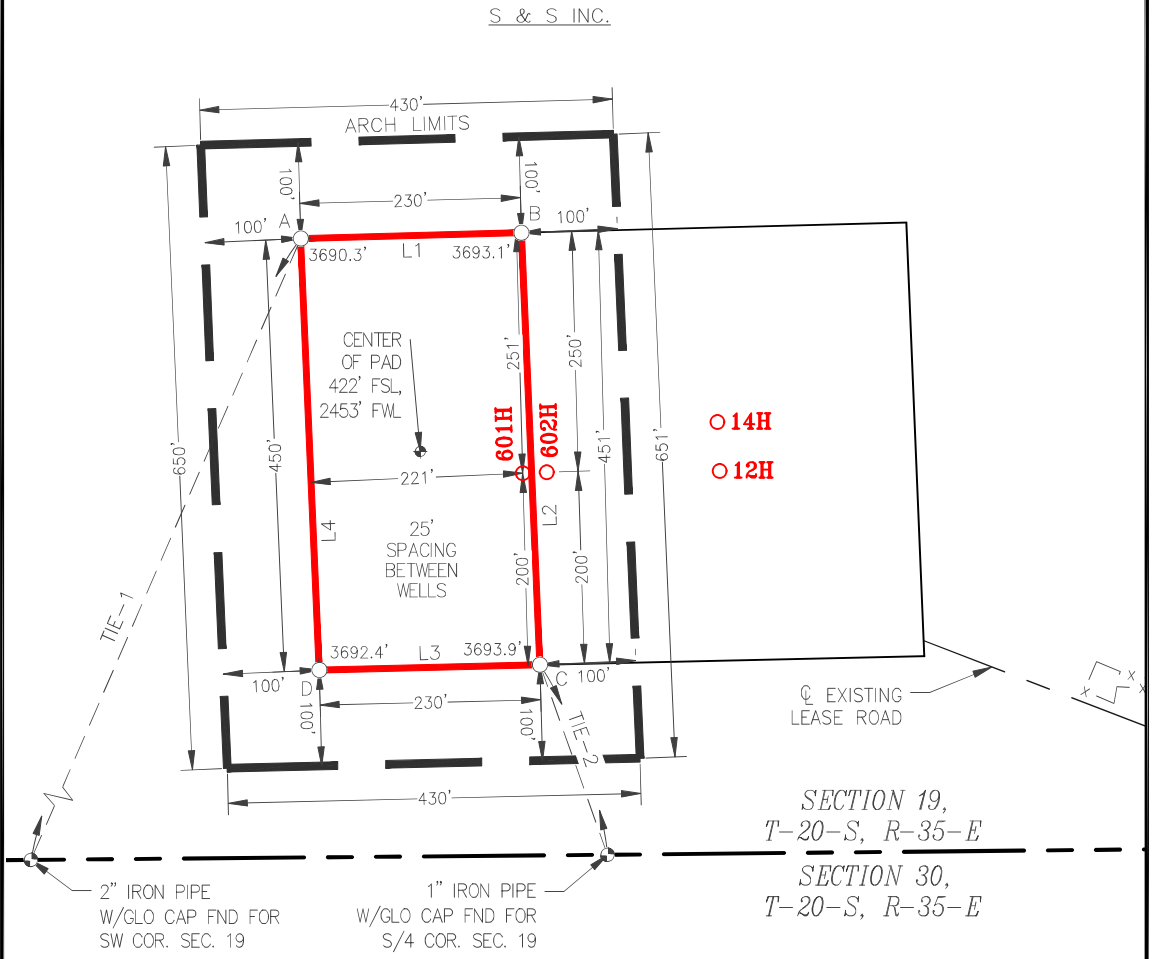


PROPOSED PAD		
LINE	BEARING	DISTANCE
SECTION 19		
L1	N 88°28'53" E	230.00'
L2	S 02°27'07" E	450.52'
L3	S 88°36'40" W	230.00'
L4	N 02°27'11" W	450.00'

TIE TABLE		
TIE	BEARING	DISTANCE
TIE-1	S 74°02'09" W	2419.25'
TIE-2	S 19°33'55" E	210.10'

NAD 83		
A	X:798834.53 Y:565975.72	LAT:32.55314603 LON:-103.49762216
B	X:799064.45 Y:565981.81	LAT:32.55315781 LON:-103.49687586
C	X:799083.73 Y:565531.71	LAT:32.55192030 LON:-103.49682477
D	X:798853.79 Y:565526.13	LAT:32.55190993 LON:-103.49757111

NAD 27		
A	X:757653.15 Y:565913.27	LAT:32.55302223 LON:-103.49713473
B	X:757883.07 Y:565919.36	LAT:32.55303400 LON:-103.49638847
C	X:757902.33 Y:565469.28	LAT:32.55179650 LON:-103.49633743
D	X:757672.40 Y:565463.70	LAT:32.55178613 LON:-103.49708373



NOTES
 THIS IS NOT A BOUNDARY SURVEY, APPARENT PROPERTY CORNERS AND PROPERTY LINES ARE SHOWN FOR INFORMATION ONLY.

TOTAL LONG-TERM DISTURBANCE AREA = 2.38 ACRES
 INCLUDES THE FOLLOWING:
 WELL PAD EXTENSION = 2.38 ACRES

FEBRUARY 09, 2026



CERTIFICATION
 I, LLOYD P. SHORT, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21653, DO HEREBY CERTIFY THAT THIS EASEMENT SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT SURVEY PLAT CROSSING AN EXISTING TRACT OR TRACTS.

BASIS OF BEARING			
ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE BASED GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.99981205 AND A CONVERGENCE ANGLE OF 0.44922778'.			
JOB NUMBER		REV.	DATE
20261166			
SHEET 2 OF 4		BY	
DRAWN BY: ANC			
DATE DRAWN: 01/28/2026			
CHECKED BY: MWS			



510 TRENTON STREET
 WEST MONROE, LA 71291
 (318) 323-6900

WELL PAD LOCATION PLAT

IGLOO WELL PAD EXPANSION
SECTION 19, TOWNSHIP 20-S, RANGE 35-E
SURVEY: NEW MEXICO PRINCIPAL MERIDIAN
COUNTY: LEA
OPERATOR: 3R OPERATING, LLC
U.S.G.S. TOPOGRAPHIC MAP: MONUMENT SW, NM

FIELD NOTES DESCRIBING

A proposed surface site easement, being 2.38 acres of land. Said easement being located in Section 19, Township 20 South, Range 35 East, New Mexico Principal Meridian, Lea County, New Mexico.

Being more particularly described as:

BEGINNING at a point from which a 2 inch iron pipe with GLO cap found for the Southwest corner of said Section 19 bears S 74°02'09" W a distance of 2,419.25 feet.

THENCE:

N 88°28'53" E a distance of 230.00 feet, S 02°27'07" E a distance of 450.52 feet to a point from which a 1 inch iron pipe with GLO cap found for the South quarter corner of said Section 19 bears S 19°33'55" E a distance of 210.10 feet, S 88°36'40" E a distance of 230.00 feet and N 02°27'11" W a distance of 450.00 feet to the *PLACE OF BEGINNING*.

The total area of the herein described surface site easement in said Section 19 contains 2.38 acres of land.

All bearings and coordinates refer to NAD 83, New Mexico State Plane Coordinate System, East Zone, U.S. Survey Feet. All bearings, distances, coordinates and areas are based grid measurements utilizing a combined scale factor of 0.99981205 and a convergence angle of 0.44922778°.

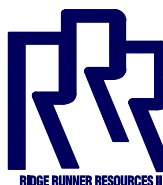
Title information furnished by 3R Operating, LLC.

Reference accompanying Certificate of Survey prepared in conjunction with this legal description for easement.

STATE OF NEW MEXICO
COUNTY OF LEA,

I, Lloyd P. Short, New Mexico Professional Surveyor No. 21653, do hereby certify that this easement survey plat and the actual survey on the ground upon which it is based were performed by me or under my direct supervision; that I am responsible for this survey; that this survey meets the minimum standards for surveying in New Mexico; and that it is true and correct to the best of my knowledge and belief. I further certify that this survey is not a land division or subdivision as defined in the New Mexico Subdivision Act and that this instrument is an easement survey plat crossing an existing tract or tracts.

FEBRUARY 09, 2026



NOTES
THIS IS NOT A BOUNDARY SURVEY, APPARENT PROPERTY CORNERS AND PROPERTY LINES ARE SHOWN FOR INFORMATION ONLY.

JOB NUMBER	REV.	DATE	BY
20261166			
SHEET 3 OF 4	 510 TRENTON STREET WEST MONROE, LA 71291 (318) 323-6900		
DRAWN BY: ANC			
DATE DRAWN: 01/28/2026			
CHECKED BY: MWS			


WELL PAD LOCATION PLAT

IGLOO WELL PAD EXPANSION
 SECTION 19, TOWNSHIP 20-S, RANGE 35-E
 SURVEY: NEW MEXICO PRINCIPAL MERIDIAN
 COUNTY: LEA
 OPERATOR: 3R OPERATING, LLC
 U.S.G.S. TOPOGRAPHIC MAP: MONUMENT SW, NM

IGLOO 19 24 FED COM 601H
3R OPERATING, LLC
 398' FSL 2,559' FWL, SECTION 19
NAD 83, SPCS NM EAST
 X:799065.78' / Y:565731.19'
 LAT:32.55246896 / LON:-103.49687793
NAD 27, SPCS NM EAST
 X:757884.39' / Y:565668.75'
 LAT:32.55234516 / LON:-103.49639057
 ELEVATION = 3694'

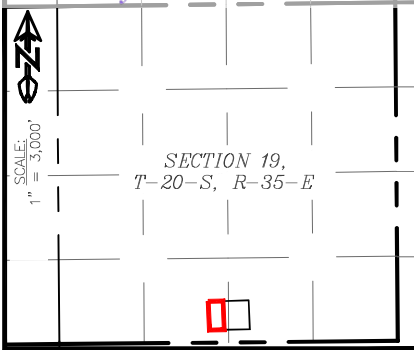
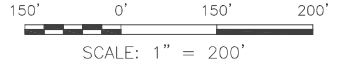
IGLOO 19 24 FED COM 602H
3R OPERATING, LLC
 399' FSL 2,584' FWL, SECTION 19
NAD 83, SPCS NM EAST
 X:799090.75' / Y:565732.26'
 LAT:32.55247136 / LON:-103.49679687
NAD 27, SPCS NM EAST
 X:757909.36' / Y:565669.82'
 LAT:32.55234756 / LON:-103.44630951
 ELEVATION = 3694'



BASIS OF BEARING			
ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE BASED GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.99981205 AND A CONVERGENCE ANGLE OF 0.44922778°.			
JOB NUMBER		REV.	DATE
20261166			
NOTES		SHEET 4 OF 4	
THIS IS NOT A BOUNDARY SURVEY, APPARENT PROPERTY CORNERS AND PROPERTY LINES ARE SHOWN FOR INFORMATION ONLY.		DRAWN BY: ANC	
		DATE DRAWN: 01/28/2025	
		CHECKED BY: MWS	
 510 TRENTON STREET WEST MONROE, LA 71291 (318) 323-6900			

WELL PAD LOCATION PLAT

IGLOO WELL PAD EXPANSION
 SECTION 19, TOWNSHIP 20-S, RANGE 35-E
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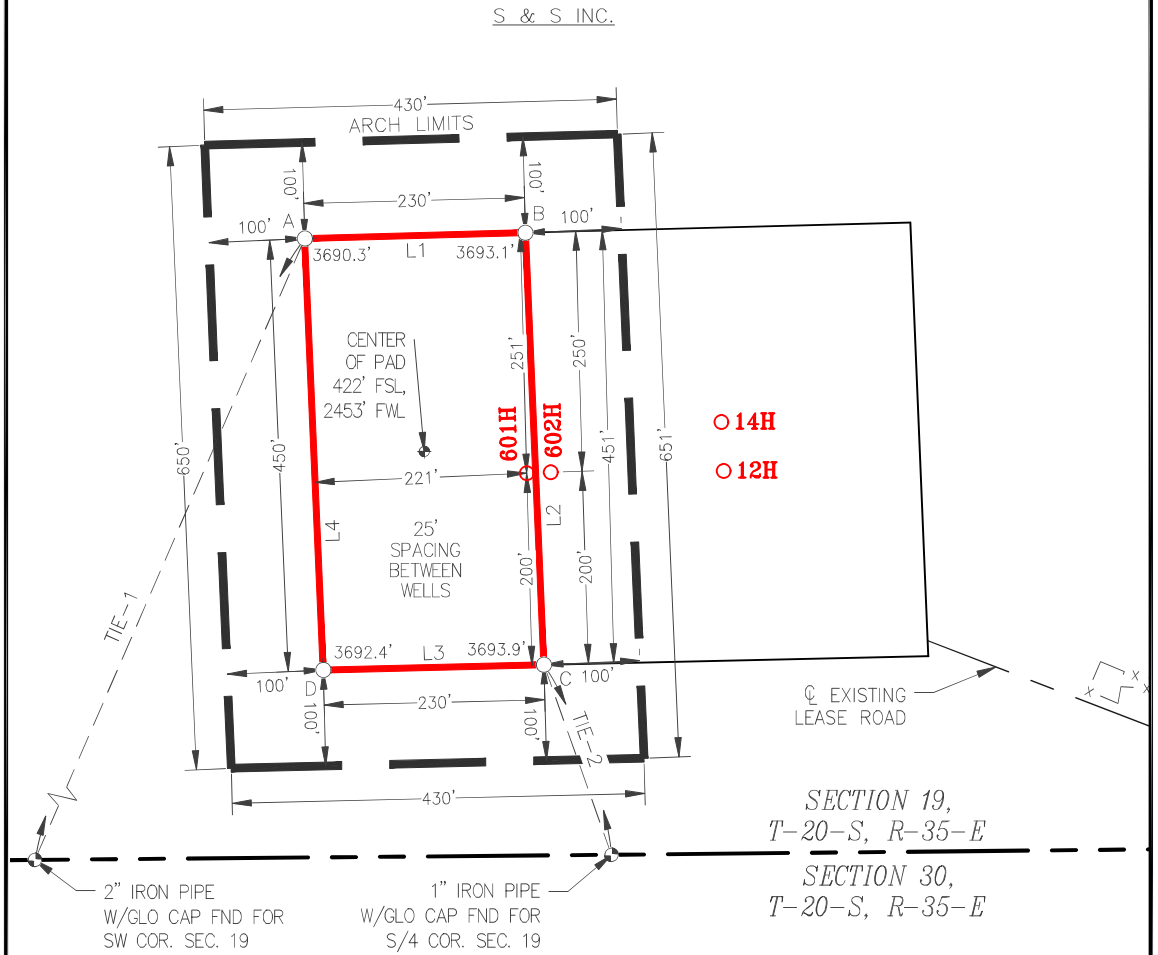


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POINT	X	Y
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B	757883.07	565919.36
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SECTION 19,
T-20-S, R-35-E

SECTION 30,
T-20-S, R-35-E

NOTES

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 INCLUDES THE FOLLOWING:
 WELL PAD EXTENSION = 2.38 ACRES



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JOB NUMBER

20261166

REV. DATE BY

SHEET 2 OF 4

DRAWN BY: ANC

DATE DRAWN: 01/28/2026

CHECKED BY: MWS



510 TRENTON STREET
 WEST MONROE, LA 71291
 (318) 323-6900

WELL PAD LOCATION PLAT

IGLOO WELL PAD EXPANSION
SECTION 19, TOWNSHIP 20-S, RANGE 35-E
SURVEY: NEW MEXICO PRINCIPAL MERIDIAN
COUNTY: LEA
OPERATOR: 3R OPERATING, LLC
U.S.G.S. TOPOGRAPHIC MAP: MONUMENT SW, NM

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BEGINNING at a point from which a 2 inch iron pipe with GLO cap found for the Southwest corner of said Section 19 bears S 74°02'09" W a distance of 2,419.25 feet.

THENCE:

N 88°28'53" E a distance of 230.00 feet, S 02°27'07" E a distance of 450.52 feet to a point from which a 1 inch iron pipe with GLO cap found for the South quarter corner of said Section 19 bears S 19°33'55" E a distance of 210.10 feet, S 88°36'40" E a distance of 230.00 feet and N 02°27'11" W a distance of 450.00 feet to the *PLACE OF BEGINNING*.

The total area of the herein described surface site easement in said Section 19 contains 2.38 acres of land.

All bearings and coordinates refer to NAD 83, New Mexico State Plane Coordinate System, East Zone, U.S. Survey Feet. All bearings, distances, coordinates and areas are based grid measurements utilizing a combined scale factor of 0.99981205 and a convergence angle of 0.44922778°.

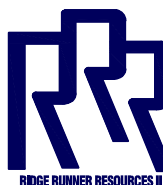
Title information furnished by 3R Operating, LLC.

Reference accompanying Certificate of Survey prepared in conjunction with this legal description for easement.

STATE OF NEW MEXICO
COUNTY OF LEA,

I, Lloyd P. Short, New Mexico Professional Surveyor No. 21653, do hereby certify that this easement survey plat and the actual survey on the ground upon which it is based were performed by me or under my direct supervision; that I am responsible for this survey; that this survey meets the minimum standards for surveying in New Mexico; and that it is true and correct to the best of my knowledge and belief. I further certify that this survey is not a land division or subdivision as defined in the New Mexico Subdivision Act and that this instrument is an easement survey plat crossing an existing tract or tracts.

FEBRUARY 09, 2026



NOTES
THIS IS NOT A BOUNDARY SURVEY, APPARENT PROPERTY CORNERS AND PROPERTY LINES ARE SHOWN FOR INFORMATION ONLY.

JOB NUMBER		REV.	DATE	BY
20261166				
SHEET 3 OF 4		 510 TRENTON STREET WEST MONROE, LA 71291 (318) 323-6900		
DRAWN BY: ANC				
DATE DRAWN: 01/28/2026				
CHECKED BY: MWS				


WELL PAD LOCATION PLAT

IGLOO WELL PAD EXPANSION
 SECTION 19, TOWNSHIP 20-S, RANGE 35-E
 SURVEY: NEW MEXICO PRINCIPAL MERIDIAN
 COUNTY: LEA
 OPERATOR: 3R OPERATING, LLC
 U.S.G.S. TOPOGRAPHIC MAP: MONUMENT SW, NM

IGLOO 19 24 FED COM 601H
3R OPERATING, LLC
 398' FSL 2,559' FWL, SECTION 19
NAD 83, SPCS NM EAST
 X:799065.78' / Y:565731.19'
 LAT:32.55246896 / LON:-103.49687793
NAD 27, SPCS NM EAST
 X:757884.39' / Y:565668.75'
 LAT:32.55234516 / LON:-103.49639057
 ELEVATION = 3694'

IGLOO 19 24 FED COM 602H
3R OPERATING, LLC
 399' FSL 2,584' FWL, SECTION 19
NAD 83, SPCS NM EAST
 X:799090.75' / Y:565732.26'
 LAT:32.55247136 / LON:-103.49679687
NAD 27, SPCS NM EAST
 X:757909.36' / Y:565669.82'
 LAT:32.55234756 / LON:-103.44630951
 ELEVATION = 3694'



BASIS OF BEARING			
ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE BASED GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.99981205 AND A CONVERGENCE ANGLE OF 0.44922778".			
JOB NUMBER		REV.	DATE
20261166			
NOTES		SHEET 4 OF 4	
THIS IS NOT A BOUNDARY SURVEY, APPARENT PROPERTY CORNERS AND PROPERTY LINES ARE SHOWN FOR INFORMATION ONLY.		DRAWN BY: ANC	
		DATE DRAWN: 01/28/2025	
		CHECKED BY: MWS	
		 510 TRENTON STREET WEST MONROE, LA 71291 (318) 323-6900	



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

PWD Data Report

03/31/2026

APD ID: 10400110146

Submission Date: 02/11/2026

Operator Name: 3R OPERATING LLC

Well Name: IGLOO 19 24 FED COM

Well Number: 602H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD Surface Owner Description:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Operator Name: 3R OPERATING LLC

Well Name: IGLOO 19 24 FED COM

Well Number: 602H

Lined pit Monitor description:

Lined pit Monitor

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Other PWD Surface Owner Description:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

Do you propose to put the produced water to beneficial use?

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

Precipitated Solids Permit

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic

Operator Name: 3R OPERATING LLC

Well Name: IGLOO 19 24 FED COM

Well Number: 602H

State

Unlined Produced Water Pit Estimated

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

Section 4 -

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD Surface Owner Description:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection

Underground Injection Control (UIC) Permit?

UIC Permit

Section 5 - Surface

Would you like to utilize Surface Discharge PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD Surface Owner Description :

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Operator Name: 3R OPERATING LLC

Well Name: IGLOO 19 24 FED COM

Well Number: 602H

Section 6 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

PWD Surface Owner Description:

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Bond Info Data

03/31/2026

APD ID: 10400110146

Submission Date: 02/11/2026

Highlighted data reflects the most recent changes
[Show Final Text](#)

Operator Name: 3R OPERATING LLC

Well Name: IGLOO 19 24 FED COM

Well Number: 602H

Well Type: OIL WELL

Well Work Type: Drill

Bond

Federal/Indian APD: FED

BLM Bond number: NMB105811880

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

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 571140

ACKNOWLEDGMENTS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 571140
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

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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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 571140

CONDITIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 571140
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
atramell01	Cement is required to circulate on both surface and intermediate1 strings of casing.	4/3/2026
jeffrey.harrison	If the method of isolation was not by circulation, a CBL must be performed; if strata isolation is not achieved, then remediation will be required before further operations.	4/22/2026
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	4/22/2026
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	4/22/2026
jeffrey.harrison	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.	4/22/2026
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	4/22/2026
jeffrey.harrison	This well is within the Capitan Reef aquifer zone. The first intermediate casing string shall be set and cemented back to surface immediately below the Capitan Reef.	4/22/2026
jeffrey.harrison	In Capitan Reef areas if lost circulation (50% or greater) occurs below the base of the salt, the operator shall switch to freshwater mud until the intermediate casing is set.	4/22/2026
jeffrey.harrison	Cement must be in place for at least 8 hours AND achieve a minimum compressive strength of 500 psi before performing further operations on the well.	4/22/2026