Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** 5. Lease Serial No. DEPARTMENT OF THE INTERIOR NMNM067979 BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. ✓ DRILL REENTER 1a. Type of work: 1b. Type of Well: ✓ Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing ✓ Single Zone Multiple Zone **CROCUBOT FED 26** 236H 2. Name of Operator 9. API Well No. 30-015-49759 NOVO OIL AND GAS NORTHERN DELAWARE LLC 10. Field and Pool, or Exploratory

Culebra Bluff;Bone Spring, 3a Address 3b. Phone No. (include area code) 1001 West Wilshire Boulevard Suite 206, Oklahoma City, (405) 404-0414 PURPLE SAGE/Wolfcamp South 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 35/T22S/R28E/NMP At surface NENW / 1130 FNL / 2520 FWL / LAT 32.3533923 / LONG -104.0587207 At proposed prod. zone NENE / 130 FNL / 330 FEL / LAT 32.3706531 / LONG -104.0509547 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13 State **EDDY** NM 5 miles 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 120 feet location to nearest property or lease line, ft. 160.0 (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, 20 feet 8416 feet / 14037 feet FED: applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3205 feet 02/01/2022 90 days 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. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above) 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the SUPO must be filed with the appropriate Forest Service Office). 25. Signature Name (Printed/Typed) Date (Electronic Submission) BRIAN WOOD / Ph: (405) 404-0414 10/27/2021 Title President Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) 07/14/2022 CODY LAYTON / Ph: (575) 234-5959 Title Office Assistant Field Manager Lands & Minerals Carlsbad Field 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)

DISTRICT J 1625 N. French Dr., Hobbs, N.M. 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II 811 S. First St., Artesia, N.M. 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 DISTRICT III

1000 Rio Brazos Rd., Aztec, N.M. 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, N.M. 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department

> OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, N.M. 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| ¹ API Number | ² Pool Code | | | |
|----------------------------|------------------------|-------------------------------|--------------------------|--|
| 30-015 ₄₉₇₅₉ | 15011 | 15011 CULEBRA BLUFF; BONE SPI | | |
| ⁴ Property Code | ⁵ Property | Name | ⁶ Well Number | |
| 333082 | Crocubot | Fed 26 | 236H | |
| OGRID No. | ⁶ Operator | r Name | Graded Elevation | |
| 372920 | Novo Oil & Gas North | ern Delaware, LLC | 3105 | |

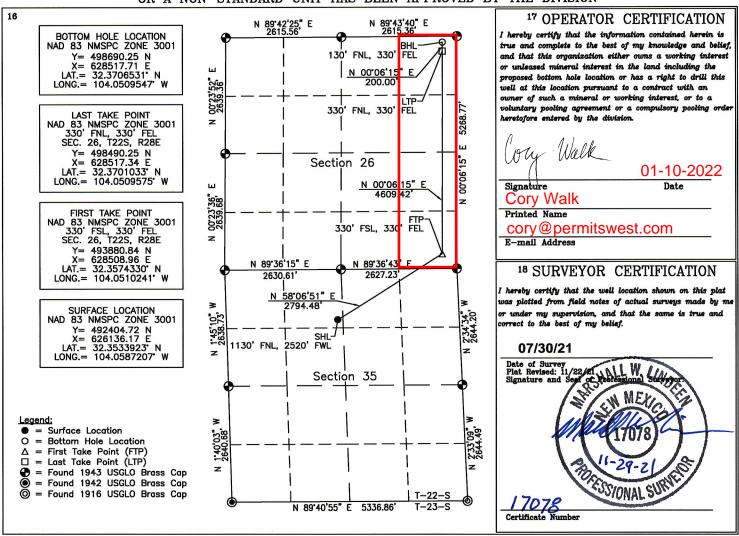
¹⁰ Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| С | 35 | 22 S | 28 E | | 1130 | North | 2520 | West | Eddy |

¹¹ Bottom Hole Location If Different From Surface

| | | | | 111 11010 | | | | | |
|-------------------|---------|----------|---------------|---------------|-----------------|-------------------------|---------------|----------------|--------|
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| Α | 26 | 22 S | 28 E | | 130 | North | 330 | East | Eddy |
| 18 Dedicated Acre | S | | 18 Joint or I | infill 14 Cor | solidation Code | ¹⁶ Order No. | | | |
| 160 |) | | | | | | | | |

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



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: _Novo Oil & Gas Northern Delaware, LLC OGRID: | Date: _7_/_20_/_2022_ |
|--|-----------------------|
| II. Type: ⊠ Original □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC | C □ 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 |
|----------------------|-----|----------------|----------------------------|--------------------------|--------------------------|--|
| Crocubot Fed 26 131H | | D-35-22S-28E | 175' FNL & 1,012' FWL | 800 | 1,900 | 3,100 |
| Crocubot Fed 26 231H | | D-35-22S-28E | 175' FNL & 1,032' FWL | 650 | 6,500 | 2,800 |
| Crocubot Fed 26 211H | | D-35-22S-28E | 175' FNL & 1,052' FWL | 800 | 1,900 | 3,100 |
| Crocubot Fed 26 232H | | D-35-22S-28E | 175' FNL & 1,072' FWL | 650 | 6,500 | 2,800 |
| Crocubot Fed 26 132H | | D-35-22S-28E | 175' FNL & 1,092' FWL | 800 | 1,900 | 3,100 |
| Crocubot Fed 26 212H | | D-35-22S-28E | 175' FNL & 1,112' FWL | 800 | 1,900 | 3,100 |
| | | | | | | |
| Crocubot Fed 26 135H | | C-35-22S-28E | 1,130' FNL & 2,440 FWL | 1,900 | 3,300 | 6,000 |
| Crocubot Fed 26 235H | | C-35-22S-28E | 1,130' FNL & 2,460 FWL | 1,700 | 4,000 | 4,100 |
| Crocubot Fed 26 215H | | C-35-22S-28E | 1,130' FNL & 2,480 FWL | 1,900 | 3,300 | 6,000 |
| Crocubot Fed 26 136H | | C-35-22S-28E | 1,130 FNL & 2,500 FWL | 1,900 | 3,300 | 6,000 |
| Crocubot Fed 26 236H | | C-35-22S-28E | 1,130' FNL & 2,520 FWL | 1,700 | 4,000 | 4,100 |
| Crocubot Fed 26 216H | | C-35-22S-28E | 1,130' FNL & 2,540' FWL | 1,900 | 3,300 | 6,000 |
| | | | | | | |

| Well Name | API | ULSTR | Footages | Anticipated Oil BBL/D | Anticipated Gas MCF/D | Anticipated Produced Water |
|----------------------|-----|--------------|------------------------|--------------------------|--------------------------|-------------------------------|
| Crocubot Fed 26 233H | | A-35-22S-28E | 452' FNL & 831' FEL | 650 | 6,500 | 2,800 |
| Crocubot Fed 26 134H | | A-35-22S-28E | 465' FNL & 816' FEL | 800 | 1,900 | 3,100 |
| Crocubot Fed 26 213H | | A-35-22S-28E | 479' FNL & 802' FEL | 800 | 1,900 | 3,100 |
| Crocubot Fed 26 234H | | A-35-22S-28E | 492' FNL & 788' FEL | 650 | 6,500 | 2,800 |
| Crocubot Fed 26 214H | | A-35-22S-28E | 506' FNL & 774' FEL | 800 | 1,900 | 3,100 |
| Crocubot Fed 26 133H | | A-35-22S-28E | 520' FNL & 760' FEL | 800 | 1,900 | 3,100 |

IV. Central Delivery Point Name: _CTB Name: Crocubot 26 CTB _____ [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 |
|----------------------|-----|------------|--------------------|------------------------------|---------------------------|-----------------------|
| Crocubot Fed 26 131H | | 12/1/2022 | 12/15/2022 | 6/1/2023 | 7/15/2023 | 7/1/2023 |
| Crocubot Fed 26 231H | | 12/3/2022 | 12/31/2022 | 6/1/2023 | 7/15/2023 | 7/1/2023 |
| Crocubot Fed 26 211H | | 12/8/2022 | 1/15/2023 | 6/1/2023 | 7/15/2023 | 7/1/2023 |
| Crocubot Fed 26 232H | | 12/12/2022 | 2/14/2023 | 6/1/2023 | 7/15/2023 | 7/1/2023 |
| Crocubot Fed 26 132H | | 12/15/2022 | 3/1/2023 | 6/1/2023 | 7/15/2023 | 7/1/2023 |
| Crocubot Fed 26 212H | | 12/18/2022 | 3/31/2023 | 6/1/2023 | 7/15/2023 | 7/1/2023 |
| | | | | | | |
| Crocubot Fed 26 135H | | 8/1/2023 | 8/20/2023 | 12/1/2023 | 1/5/2024 | 1/1/2024 |
| Crocubot Fed 26 235H | | 8/5/2023 | 9/4/2023 | 12/1/2023 | 1/5/2024 | 1/1/2024 |
| Crocubot Fed 26 215H | | 8/8/2023 | 10/4/2023 | 12/1/2023 | 1/5/2024 | 1/1/2024 |
| Crocubot Fed 26 136H | | 8/11/2023 | 10/19/2023 | 12/1/2023 | 1/5/2024 | 1/1/2024 |
| Crocubot Fed 26 236H | | 8/14/2023 | 11/3/2023 | 12/1/2023 | 1/5/2024 | 1/1/2024 |
| Crocubot Fed 26 216H | | 8/17/2023 | 11/18/2023 | 12/1/2023 | 1/5/2024 | 1/1/2024 |
| | | | | | | |
| Crocubot Fed 26 233H | | 12/21/2022 | 3/31/2023 | 7/5/2023 | 8/5/2023 | 8/1/2023 |

| Crocubot Fed 26 134H | 12/25/2022 | 4/15/2023 | 7/5/2023 | 8/5/2023 | 8/1/2023 |
|----------------------|------------|-----------|----------|----------|----------|
| Crocubot Fed 26 213H | 12/28/2022 | 4/30/2023 | 7/5/2023 | 8/5/2023 | 8/1/2023 |
| Crocubot Fed 26 234H | 1/1/2023 | 5/15/2023 | 7/5/2023 | 8/5/2023 | 8/1/2023 |
| Crocubot Fed 26 214H | 1/4/2023 | 5/30/2023 | 7/5/2023 | 8/5/2023 | 8/1/2023 |
| Crocubot Fed 26 133H | 1/7/2023 | 6/14/2023 | 7/5/2023 | 8/5/2023 | 8/1/2023 |

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 |
|----------------------|--------------|---|--|
| Crocubot Fed 26 131H | 30-015-xxxxx | 900 | 328500 |
| Crocubot Fed 26 231H | 30-015-xxxxx | 3800 | 1387000 |
| Crocubot Fed 26 211H | 30-015-xxxxx | 900 | 328500 |
| Crocubot Fed 26 232H | 30-015-xxxxx | 3800 | 1387000 |
| Crocubot Fed 26 132H | 30-015-xxxxx | 900 | 328500 |
| Crocubot Fed 26 212H | 30-015-xxxxx | 900 | 328500 |
| Crocubot Fed 26 135H | 30-015-xxxxx | 2600 | 949000 |
| Crocubot Fed 26 235H | 30-015-xxxxx | 2100 | 766500 |
| Crocubot Fed 26 215H | 30-015-xxxxx | 2600 | 949000 |
| Crocubot Fed 26 136H | 30-015-xxxxx | 2600 | 949000 |
| Crocubot Fed 26 236H | 30-015-xxxxx | 2100 | 766500 |
| Crocubot Fed 26 216H | 30-015-xxxxx | 2600 | 949000 |
| Crocubot Fed 26 233H | 30-015-xxxxx | 3800 | 1387000 |
| Crocubot Fed 26 134H | 30-015-xxxxx | 900 | 328500 |
| Crocubot Fed 26 213H | 30-015-xxxxx | 900 | 328500 |
| Crocubot Fed 26 234H | 30-015-xxxxx | 3800 | 1387000 |
| Crocubot Fed 26 214H | 30-015-xxxxx | 900 | 328500 |
| Crocubot Fed 26 133H | 30-015-xxxxx | 900 | 328500 |
| Crocubot Fed 26 133H | 30-015-XXXXX | 900 | 328500 |

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 |
|-----------|--------|-----------------|----------------------------------|---|
| Crestwood | | | ~ | |
| | | | | |

| Crestwood | | | | |
|--|---|---|-----------------------------|--|
| | | | | |
| production operation | ns to the existing or pla | nned interconnect of | | nticipated pipeline route(s) connecting the em(s), and the maximum daily capacity onected. |
| | . The natural gas gather from the well prior to the | • • | | eather 100% of the anticipated natural ga |
| | - | - | <u> </u> | ted to the same segment, or portion, of the line pressure caused by the new well(s). |
| XIV. Confidentiali Section 2 as provide | ty: Operator assert | s confidentiality purs Subsection D of 19.15 | .27.9 NMAC and attaches a f | SA 1978 for the information provided in full description of the specific information |
| | | 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:

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

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.

and Gas Act.

Signature:

Printed Name:

Jushin Carlin

Title:

Landman

B-mail Address:

Jushin Carlin

B-mail Address:

Jushin Movoog, Com

Date:

7(22) 2022

Phone:

405, 284, 3375

OIL CONSERVATION DIVISION

(Only applicable when submitted as a standalone form)

Approved By:

Title:

Approval Date:

Conditions of Approval:

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

APPENDIX A



Separation Equipment

Novo Oil & Gas Northern Delaware, LLC (Novo) has pulled representative pressurized samples from wells in the same producing formation. Novo has utilized these samples in process simulations to determine the amount of gas anticipated in each stage of the process and utilized this information with a safety factor to size the equipment listed below:

- Separation equipment will be set as follows:
 - o Individual 3 Phase separators will be set for each individual well.
 - The separators will be sized based on the anticipated volume of the well and the pressure of the lines utilized for oil, gas, and water takeaway.
 - o Individual Heater treaters will be set for each individual well.
 - The heater treaters are sized based on the anticipated combined volume of oil and water predicted to come from the initial 3 phase separator.
 - Oil will be separated from the water and water will be sent to its respective tanks
 - The combined oil and natural gas stream is routed to the Vapor Recovery

 Tower
 - The oil and water tanks utilize a closed vent capture system to ensure all breathing, working and flashing losses are routed to the Vapor Recovery Tower (VRT) and Vapor Recovery Unit (VRU)
 - The Vapor Recovery Tower has been sized, based on the anticipated volume of gas from the heater treater and oil and water tanks. A VRU is then utilized to push the recovered gas into the sales pipeline.
 - The VRU will be sized based on the anticipated gas volume and the gas pressure for the line utilized for takeaway.

All equipment has been sized based on the modeled projected need and a safety factor of at least 10%. This is ensuring that the capture of methane gas and VOC will minimize flaring below 50mcf/d per facility.

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Operational Practices

19.15.27.8 (A) Venting and Flaring of Natural Gas

Novo Oil & Gas Northern Delaware, LLC (Novo) understands the requirements of NMAC 19.15.27.8 which states that the venting and flaring of natural gas during drilling, completion or production that constitutes waste as defined in 19.15.2 are prohibited.

19.15.27.8 (B) Venting and flaring during drilling operations

- 1. Novo shall capture or combust natural gas if technically feasible during drilling operations using best industry practices.
- A flare stack with a 100 percent capacity for expected volumes will be set on location of the CTB at least 100 feet from the nearest surface hole location, well heads, and storage tanks.
- 3. In the event of an emergency, Novo will vent natural gas in order to avoid substantial impact. Novo shall report the vented or flared gas to the NMOCD.

19.15.27.8 (C) Venting and flaring during completion or recompletion

During completion operations, Novo utilizes the following:

- 1. Novo facilities are built and ready from day 1 of flowback
- 2. Individual well test separators will be set to properly separate gas and liquids. Temporary test separator will be utilized initially to process volumes. In addition, separators will be tied into flowback tanks which will be tied into the gas processing equipment for sales down a pipeline. See **Appendix A** for details on Separation Equipment used by Novo.
- 3. Should the facility not yet be capable of processing gas, or the gas does not meet quality standards, then storage tanks will be set that are tied into gas busters or a temporary flare to manage all natural gas. This flare would meet the following requirements:
 - a) An appropriately sized flare stack with an automatic igniter
 - b) Novo analyzes the natural gas samples twice per week

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- c) Novo routes the natural gas into a gathering pipeline as soon as the pipeline specifications are met
- d) Novo provides the NMOCD with pipeline specifications and natural gas data.

19.15.27.8 (D) Venting and flaring during production operations.

Novo will not vent or flare natural gas except under the following circumstances:

- 1. During an emergency or malfunction
- 2. To unload or clean-up liquid holdup in a well to atmospheric pressure, provided
 - a) Novo does not vent after the well achieves a stabilized rate and pressure
 - b) Novo will remain present on-site during liquids unloaded by manual purging and takes all reasonable actions to achieve a stabilized rate and pressure at the earliest practical time
 - c) Novo will optimize the system to minimize natural gas venting on any well equipped with a plunger lift or auto control system
 - d) Best management practices will be used during downhole well maintenance.
- 3. During the first year of production from an exploratory well provided
 - a) Novo receives approval from the NMOCD
 - b) Novo remains in compliance with NM gas capture requirements
 - c) Novo submits an updated C-129 from to the NMOCD.
- 4. During the following activities unless prohibited
 - a) Gauging or sampling a storage tank or low-pressure production vessel
 - b) Loading out liquids from a storage tank
 - c) Repair and maintenance
 - d) Normal operation of a gas-activated pneumatic controller or pump
 - e) Normal operation of a storage tank but not including venting from a thief hatch
 - f) Normal operation of dehydration units
 - g) Normal operations of compressors, compressor engines, turbines, valves, flanges, and connectors
 - h) During a bradenhead, packer leakage test, or production test lasting less than 24 hours
 - i) When natural gas does not meet the gathering pipeline specifications
 - j) Commissioning of pipelines, equipment, or facilities only for as long as necessary to purge introduced impurities.

In order to comply with these laws, see **Appendix B** for details on Novo Venting and Flaring.

19.15.27.8 (E) Performance standards

- 1. Novo has utilized process simulations with a safety factor to design all separation and storage equipment. The equipment is routed to a vapor recovery system and utilizes as a flare as back up for periods of startup, shutdown, maintenance or malfunction of the VRU system.
- 2. Novo will install a flare that designed to handle the full volume of vapors from the facility in case of VRU failure and it is designed with an auto-ignition system.
- 3. Flare stacks will be appropriately sized and designed to ensure proper combustion efficiency
 - a) Flare stacks installed or replaced will be equipped with an automatic ignitor or continuous pilot
 - b) Previously installed flare stacks will be retrofitted with an automatic ignitor, continuous pilot, or technology that alerts Novo of flare malfunction within 18 months after May 25, 2021.
 - c) Flare stacks replaced after May 25, 2021 will be equipped with an automatic ignitor or continuous pilot if located at a well or facility with an average daily production of 60,000 cubic feet of natural gas or less.
 - d) Flare stacks will be located at least 100 feet from well and storage tanks and securely anchored
- 4. Novo will conduct an AVO inspection on all components for leaks and defects at least weekly.
- 5. Novo will make and keep records of AVO inspections available to the NMOCD for at least 5 years.
- 6. Novo may use a remote or automated monitoring technology to detect leaks and releases in lieu of AVO inspections with prior NMOCD approval.
- 7. Facilities will be designed to minimize waste.
- 8. Novo will resolve emergencies as promptly as possible.

19.15.27.8 (F) Measurement or estimation of vented and flared natural gas

- 1. Novo will have meters on both the low pressure and high pressure sides of the flares and the volumes are recorded in the SCADA system.
- 2. Novo will install equipment to measure the volume of flared natural gas that has an average daily production of 60,000 cubic feet or greater of natural gas.
- 3. Novo's measuring equipment will conform to an industry standards.
- 4. The measurement system is designed such that it cannot be bypassed except for inspections and servicing the meters.
- 5. Novo will estimate the volume of vented or flared natural gas using a methodology that can be independently verified if metering is not practicable due to low flow rate or pressure.

- 6. Novo will estimate the volume of vented and flared natural gas based on the results of an annual GOR test for wells that do not require measuring equipment reported on form C-116.
- 7. Novo will install measuring equipment whenever the NMOCD determines that metering is necessary.

APPENDIX A



Separation Equipment

Novo Oil & Gas Northern Delaware, LLC (Novo) has pulled representative pressurized samples from wells in the same producing formation. Novo has utilized these samples in process simulations to determine the amount of gas anticipated in each stage of the process and utilized this information with a safety factor to size the equipment listed below:

- Separation equipment will be set as follows:
 - o Individual 3 Phase separators will be set for each individual well.
 - The separators will be sized based on the anticipated volume of the well and the pressure of the lines utilized for oil, gas, and water takeaway.
 - o Individual Heater treaters will be set for each individual well.
 - The heater treaters are sized based on the anticipated combined volume of oil and water predicted to come from the initial 3 phase separator.
 - Oil will be separated from the water and water will be sent to its respective tanks
 - The combined oil and natural gas stream is routed to the Vapor Recovery

 Tower
 - The oil and water tanks utilize a closed vent capture system to ensure all breathing, working and flashing losses are routed to the Vapor Recovery Tower (VRT) and Vapor Recovery Unit (VRU)
 - The Vapor Recovery Tower has been sized, based on the anticipated volume of gas from the heater treater and oil and water tanks. A VRU is then utilized to push the recovered gas into the sales pipeline.
 - The VRU will be sized based on the anticipated gas volume and the gas pressure for the line utilized for takeaway.

All equipment has been sized based on the modeled projected need and a safety factor of at least 10%. This is ensuring that the capture of methane gas and VOC will minimize flaring below 50mcf/d per facility.

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APPENDIX B



Venting and Flaring

Novo Oil & Gas Northern Delaware, LLC (Novo) has a natural gas system available prior to startup of completion operations. Novo utilizes a VRU system and sells all gas except during periods of startup, shutdown, maintenance, or malfunction for the gas capturing equipment, including the VRT, VRU, storage tanks, and pipelines.

Currently, Novo utilizes the following from list A-I of Section 3 for its operations to minimize flaring:

- a) Novo Oil & Gas utilizes Natural Gas (NG) powered generators to power it's leases where grid power isn't available.
- b) When electrical grid power is unavailable, NG generators will be used for major equipment onsite.
- c) Novo Oil & Gas compression in service will be NG powered.
- d) Should liquids removal such as dehydration be required, units will be powered by NG.

Additionally, Novo Oil & Gas will only flare gas during the following times:

- Scheduled maintenance for gas capturing equipment including:
 - VRT
 - VRU
 - Storage tanks
 - Pipelines
- Emergency flaring



Best Management Practices

Novo Oil & Gas Northern Delaware, LLC (Novo) utilizes the following best management practices to minimize venting during active and planned maintenance.

Novo has a closed vent capture system to route emissions from the heater treater, tanks and vapor recovery to the VRU with a flare for backup. The system is designed such that if the VRU is taken out of service for any reason, the vapors will be routed to the flare for combustion.

Novo will isolate and attempt to route all vapors to the VRU or flare prior to opening any lines for maintenance to minimize venting from the equipment. Not limited to:



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

Drilling Plan Data Report

APD ID: 10400081293 **Submission Date:** 10/27/2021

Operator Name: NOVO OIL AND GAS NORTHERN DELAWARE LLC

Well Name: CROCUBOT FED 26 Well Number: 236H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

| Formation ID | Formation Name | Elevation | True Vertical | Measured Depth | Lithologies | Mineral Resources | Producing Formatio |
|--------------|-------------------|-----------|---------------|-------------------|---------------------|-------------------|-----------------------|
| 7735067 | QUATERNARY | 3105 | 0 | 0 | OTHER : None | USEABLE WATER | N |
| 7735068 | RUSTLER ANHYDRITE | 2775 | 330 | 330 | ANHYDRITE | NONE | N |
| 7735069 | SALADO | 2541 | 564 | 574 | SALT | NATURAL GAS, OIL | N |
| 7735070 | LAMAR | 380 | 2725 | 2745 | LIMESTONE | NONE | N |
| 7735071 | BELL CANYON | 340 | 2765 | 2795 | SANDSTONE | NATURAL GAS, OIL | N |
| 7735072 | CHERRY CANYON | -687 | 3792 | 3832 | SANDSTONE | NATURAL GAS, OIL | N |
| 7735073 | BRUSHY CANYON | -2140 | 5245 | 5295 | SANDSTONE | NATURAL GAS, OIL | N |
| 7735074 | BONE SPRING | -3210 | 6315 | 6375 | LIMESTONE | NATURAL GAS, OIL | N |
| 7735075 | AVALON SAND | -3890 | 6995 | 7065 | SHALE | NATURAL GAS, OIL | N |
| 7735076 | BONE SPRING 1ST | -4210 | 7315 | 7395 | SANDSTONE | NATURAL GAS, OIL | N |
| 7735077 | BONE SPRING 2ND | -4560 | 7665 | 7765 | OTHER : Carbonate | NATURAL GAS, OIL | N |
| 7735078 | BONE SPRING 2ND | -5015 | 8120 | 8220 | SANDSTONE | NATURAL GAS, OIL | Y |
| 7735079 | BONE SPRING 3RD | -5380 | 8485 | 8595 | OTHER : Carbonate | NATURAL GAS, OIL | N |
| 7735080 | WOLFCAMP | -6545 | 9650 | 9770 | OTHER : XY | NATURAL GAS, OIL | N |
| 7735081 | WOLFCAMP | -6715 | 9820 | 9950 | OTHER : A | NATURAL GAS, OIL | N |
| 7735082 | WOLFCAMP | -6975 | 10080 | 10220 | OTHER : B | NATURAL GAS, OIL | N |
| 7735083 | WOLFCAMP | -7245 | 10350 | 10500 | OTHER : B Flow Unit | NATURAL GAS, OIL | N |

Well Name: CROCUBOT FED 26 Well Number: 236H

| Formation ID | Formation Name | Elevation | True Vertical | Measured Depth | Lithologies | Mineral Resources | Producing Formatio |
|--------------|----------------|-----------|---------------|-------------------|-------------|-------------------|-----------------------|
| 7735084 | WOLFCAMP | -7520 | 10625 | 10625 | OTHER : C | NATURAL GAS, OIL | N |
| | | | | | | | |

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M Rating Depth: 15000

Equipment: A 13.625" 5M Blowout Preventer system will be installed on a multi-bowl (speed head) wellhead with a 13.625" flanged casing spool. Top flange of casing spool will be set in a cellar below ground level. BOP system will consist of a single pipe ram on the bottom, mud cross, double pipe ram with blind rams on bottom and pipe rams on top, and annular preventer. Blowout preventer will be installed on top of the 13.375" surface casing and will remain installed to TD of the well. Wellhead, blowout preventer, and choke manifold diagram are included.

Requesting Variance? YES

Variance request: Variance is requested to use a co-flex hose between the BOP system and choke manifold. A typical co-flex pressure test certificate is attached. An equipment specific co-flex pressure test certificate will be on site when testing the BOP.

Testing Procedure: All casing strings will be tested in accordance with Onshore Order 2 III.B.1.h The BOP system will be isolated with a test plug and tested by an independent tester to 250 psi low and 5,000 psi high for 10 minutes. The Surface Casing will be pressure tested to 250 psi low and 1500 psi high. Intermediate Casing will be pressure tested to 250 psi low and (.22 psi x Shoe TVD, which is equivalent to 2176.9 psi) high for 30 minutes.

Choke Diagram Attachment:

Choke_5M_20211027112644.pdf

BOP Diagram Attachment:

BOP_5M_20211027112655.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 | 410 | 0 | 410 | 3205 | 2795 | 410 | J-55 | 54.5 | BUTT | 1.12 5 | 1.12 5 | DRY | 1.6 | DRY | 1.6 |
| 2 | INTERMED IATE | 9.87 5 | 8.625 | NEW | NON API | N | 0 | 3475 | 0 | 3325 | 3086 | -120 | ı | OTH ER | | | _ | 1.12 5 | DRY | 1.6 | DRY | 1.6 |
| 3 | PRODUCTI ON | 7.87 5 | 5.5 | NEW | NON API | N | 0 | 14037 | 0 | 8416 | 3086 | -5211 | 14037 | OTH ER | | | _ | 1.12 5 | DRY | 1.6 | DRY | 1.6 |

Well Name: CROCUBOT FED 26 Well Number: 236H

Casing Attachments

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_3string_20211027112716.pdf

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

8.625_P110HP_TALON_HTQ_Casing_Spec_20211027112739.pdf

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_3string_20211027112752.pdf

Casing ID: 3

String

PRODUCTION

Inspection Document:

Spec Document:

 $5.5 in_P110_EC_Casing_Spec_20211027112820.pdf$

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_3string_20211027112831.pdf

Section 4 - Cement

Well Name: CROCUBOT FED 26 Well Number: 236H

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|--------------|-----------|---------------------|--------|-----------|--------------|-------|---------|-------|---------|--------------|--|
| SURFACE | Lead | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | None | None |
| SURFACE | Tail | | 0 | 410 | 352 | 1.62 | 13.8 | 570 | 100 | Class C | Gel, Accelerator, LCM |
| PRODUCTION | Lead | | 0 | 1325 | 132 | 2.12 | 12 | 279 | 20 | Class H | Fluid Loss, Retarder, LCM |
| PRODUCTION | Tail | | 1325 | 1403 7 | 1883 | 1.59 | 13.2 | 2994 | 20 | Class H | Fluid Loss, Retarder, LCM |
| INTERMEDIATE | Lead | | 0 | 2325 | 205 | 3.58 | 10 | 736 | 100 | Class C or H | Fluid Loss, Retarder, LCM, Possibly beads |
| INTERMEDIATE | Tail | | 2325 | 3475 | 130 | 1.39 | 13.8 | 181 | 50 | Class C or H | Fluid Loss, Retarder, LCM |

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 Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: All necessary mud products (barite, bentonite, LCM) to control weight and fluid loss will be on site at all times. Mud program may change due to hole conditions.

Describe the mud monitoring system utilized: An electronic PVT mud system will monitor flow rate, pump pressure, stroke rate, and volume.

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) | ЬН | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|-----------|--------------|------------------------------------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|
| 0 | 410 | OTHER : Water Based Spud Mud | 8.3 | 8.3 | | | | | | | |
| 410 | 3325 | OTHER : Brine Diesel Emulsion | 8.8 | 9.6 | | | | | | | |

Well Name: CROCUBOT FED 26 Well Number: 236H

| Top Depth | Bottom Depth | Mud Type | Min Weight (lbs/gal) | Max Weight (lbs/gal) | Density (lbs/cuft) | Gel Strength (lbs/100 sqft) | Н | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|-----------|--------------|------------------|----------------------|----------------------|--------------------|-----------------------------|---|----------------|----------------|-----------------|----------------------------|
| 3325 | 1403 7 | OIL-BASED MUD | 11 | 12.5 | | | | | | | |

Section 6 - Test, Logging, Coring

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

A 2-person mud logging program will be used from 3000 to TD. GR log will be acquired by MWD tools from the intermediate casing to TD.

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

GAMMA RAY LOG,

Coring operation description for the well:

No core or drill stem test is planned.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5470 Anticipated Surface Pressure: 3618

Anticipated Bottom Hole Temperature(F): 215

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

Crocubot_PadC2_H2S_Plan_v2_20220507130339.pdf

Well Name: CROCUBOT FED 26 Well Number: 236H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Crocubot_236H_Horizontal_Plan_v2_20220113081028.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

CoFlex_Certs_20211027113158.pdf

Speedhead_Specs_3string_20211027113350.pdf

Alternative_Casing_Spec_Request_20211027113411.pdf

Crocubot_236H_Drill_Plan_v2_20220113081043.pdf

Crocubot_236H_Anticollision_Report_v2_20220113081103.pdf

Other Variance attachment:

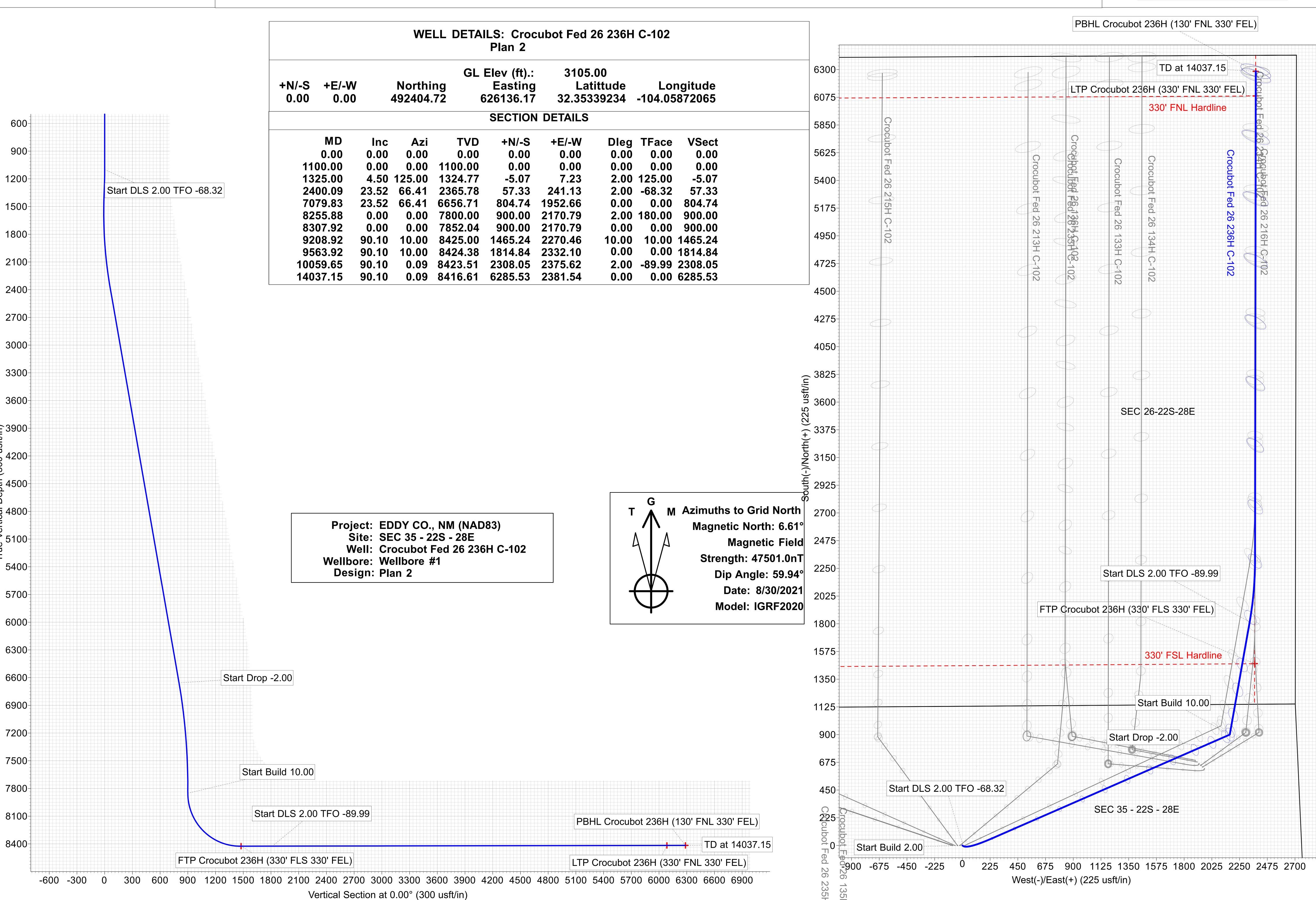
Casing_Cement_Variance_20211027113427.pdf



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Crocubot Fed 26 236H C-102







NOVO Oil & Gas

EDDY CO., NM (NAD83) SEC 35 - 22S - 28E Crocubot Fed 26 236H C-102

Wellbore #1

Plan: Plan 2

Standard Planning Report

08 December, 2021







 Database:
 1 - EDM Production

 Company:
 NOVO Oil & Gas

 Project:
 EDDY CO., NM (NAD83)

 Site:
 SEC 35 - 22S - 28E

 Well:
 Crocubot Fed 26 236H C-102

Wellbore: Wellbore #1

Design: Plan 2

Local Co-ordinate Reference: TVD Reference: MD Reference:

Survey Calculation Method:

North Reference:

Well Crocubot Fed 26 236H C-102 RKB 25' + GL 3105' @ 3130.00usft RKB 25' + GL 3105' @ 3130.00usft

Grid

Minimum Curvature

Project EDDY CO., NM (NAD83)

Map System:US State Plane 1983Geo Datum:North American Datum 1983Map Zone:New Mexico Eastern Zone

System Datum: Mean Sea Level

Site SEC 35 - 22S - 28E

Grid Convergence:

 Site Position:
 Northing:
 493,349.19 usft of 24,598.58 usft
 Latitude:
 32.35599925

 From:
 Map
 Easting:
 624,598.58 usft
 Longitude:
 -104.06369225

Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 "

0.15°

Well Crocubot Fed 26 236H C-102 0.00 usft 492.404.72 usft 32.35339233 **Well Position** +N/-S Northing: Latitude: 626,136.17 usft -104.05872066 +E/-W 0.00 usft Easting: Longitude: **Position Uncertainty** 0.50 usft Wellhead Elevation: usft Ground Level: 3,105.00 usft

Wellbore #1 Wellbore Declination Magnetics **Model Name** Sample Date Dip Angle Field Strength (°) (°) (nT) 47,500.99299409 IGRF2020 8/30/2021 6.76 59.94

Design Plan 2 **Audit Notes:** PLAN Tie On Depth: 0.00 Version: Phase: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.00 0.00 0.00 0.00

 Plan Survey Tool Program
 Date
 12/8/2021

 Depth From (usft)
 Depth To (usft)
 Tool Name
 Remarks

 1
 0.00
 14,036.93
 Plan 2 (Wellbore #1)
 MWD+IGRF

 OWSG MWD + IGRF or WMM
 OWSG MWD + IGRF or WMM





 Database:
 1 - EDM Production

 Company:
 NOVO Oil & Gas

 Project:
 EDDY CO., NM (NAD83)

 Site:
 SEC 35 - 22S - 28E

 Well:
 Crocubot Fed 26 236H C-102

Wellbore: Wellbore #1

Design: Plan 2

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Crocubot Fed 26 236H C-102 RKB 25' + GL 3105' @ 3130.00usft RKB 25' + GL 3105' @ 3130.00usft Grid

Minimum Curvature

| n 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 | |
| 1,100.00 | 0.00 | 0.00 | 1,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,325.00 | 4.50 | 125.00 | 1,324.77 | -5.07 | 7.23 | 2.00 | 2.00 | 0.00 | 125.00 | |
| 2,400.09 | 23.52 | 66.41 | 2,365.78 | 57.33 | 241.13 | 2.00 | 1.77 | -5.45 | -68.32 | |
| 7,079.83 | 23.52 | 66.41 | 6,656.71 | 804.74 | 1,952.66 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,255.88 | 0.00 | 0.00 | 7,800.00 | 900.00 | 2,170.79 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 8,307.92 | 0.00 | 0.00 | 7,852.04 | 900.00 | 2,170.79 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 9,208.92 | 90.10 | 10.00 | 8,425.00 | 1,465.24 | 2,270.46 | 10.00 | 10.00 | 0.00 | 10.00 | |
| 9,563.92 | 90.10 | 10.00 | 8,424.38 | 1,814.84 | 2,332.10 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 10,059.65 | 90.10 | 0.09 | 8,423.51 | 2,308.05 | 2,375.62 | 2.00 | 0.00 | -2.00 | -89.99 | |
| 14,037.15 | 90.10 | 0.09 | 8,416.61 | 6,285.53 | 2,381.54 | 0.00 | 0.00 | 0.00 | 0.00 | PBHL Crocubot 236H |





 Database:
 1 - EDM Production

 Company:
 NOVO Oil & Gas

 Project:
 EDDY CO., NM (NAD83)

 Site:
 SEC 35 - 22S - 28E

 Well:
 Crocubot Fed 26 236H C-102

Wellbore: Wellbore #1
Design: Plan 2

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Crocubot Fed 26 236H C-102 RKB 25' + GL 3105' @ 3130.00usft RKB 25' + GL 3105' @ 3130.00usft Grid Minimum Curvature

| esign: | Plan 2 | | | | | | | | |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| anned 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) |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400.00 | 0.00 | 0.00 | 400.00 | | | 0.00 | | 0.00 | |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 700.00 | 0.00 | 0.00 | 700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 800.00 | 0.00 | 0.00 | 800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 900.00 | 0.00 | 0.00 | 900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,000.00 | 0.00 | 0.00 | 1,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,100.00 | 0.00 | 0.00 | 1,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,200.00 | 2.00 | 125.00 | 1,199.98 | -1.00 | 1.43 | -1.00 | 2.00 | 2.00 | 0.00 |
| 1,300.00 | 4.00 | 125.00 | 1,299.84 | -4.00 | 5.72 | -4.00 | 2.00 | 2.00 | 0.00 |
| 1,325.00 | 4.50 | 125.00 | 1,324.77 | -5.07 | 7.23 | -4.00 -5.07 | 2.00 | 2.00 | 0.00 |
| 1,323.00 | 4.50 | 123.00 | 1,324.77 | -3.07 | 1.23 | -3.07 | 2.00 | 2.00 | 0.00 |
| 1,400.00 | 5.24 | 109.56 | 1,399.50 | -7.90 | 12.87 | -7.90 | 2.00 | 0.99 | -20.59 |
| 1,500.00 | 6.64 | 95.63 | 1,498.97 | -10.00 | 22.93 | -10.00 | 2.00 | 1.40 | -13.93 |
| 1,600.00 | 8.29 | 86.85 | 1,598.12 | -10.17 | 35.89 | -10.17 | 2.00 | 1.65 | -8.78 |
| 1,700.00 | 10.07 | 81.06 | 1,696.84 | -8.41 | 51.72 | -8.41 | 2.00 | 1.78 | -5.79 |
| | | | , | | | | | | |
| 1,800.00 | 11.91 | 77.01 | 1,795.00 | -4.74 | 70.42 | -4.74 | 2.00 | 1.85 | -4.04 |
| 1,900.00 | 13.80 | 74.05 | 1,892.49 | 0.86 | 91.95 | 0.86 | 2.00 | 1.89 | -2.96 |
| 2,000.00 | 15.72 | 71.80 | 1,989.18 | 8.37 | 116.28 | 8.37 | 2.00 | 1.92 | -2.26 |
| 2,100.00 | 17.65 | 70.02 | 2,084.97 | 17.78 | 143.40 | 17.78 | 2.00 | 1.93 | -1.77 |
| 2,200.00 | 19.60 | | 2,179.73 | 29.09 | | | 2.00 | | |
| , | | 68.59 | | | 173.27 | 29.09 | | 1.95 | -1.43 |
| 2,300.00 | 21.56 | 67.40 | 2,273.34 | 42.27 | 205.85 | 42.27 | 2.00 | 1.96 | -1.18 |
| 2,400.09 | 23.52 | 66.41 | 2,365.78 | 57.33 | 241.13 | 57.33 | 2.00 | 1.96 | -0.99 |
| 2,500.00 | 23.52 | 66.41 | 2,457.39 | 73.29 | 277.67 | 73.29 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 23.52 | 66.41 | 2,549.09 | 89.26 | 314.24 | 89.26 | 0.00 | 0.00 | |
| | | | | | | | | | 0.00 |
| 2,700.00 | 23.52 | 66.41 | 2,640.78 | 105.23 | 350.82 | 105.23 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 23.52 | 66.41 | 2,732.47 | 121.20 | 387.39 | 121.20 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 23.52 | 66.41 | 2,824.16 | 137.17 | 423.96 | 137.17 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 23.52 | 66.41 | 2,915.85 | 153.14 | 460.54 | 153.14 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 3,100.00 | 23.52 | 66.41 | 3,007.54 | 169.12 | 497.11 | 169.12 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 23.52 | 66.41 | 3,099.23 | 185.09 | 533.68 | 185.09 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 23.52 | 66.41 | 3,190.93 | 201.06 | 570.26 | 201.06 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 23.52 | 66.41 | 3,282.62 | 217.03 | 606.83 | 217.03 | 0.00 | 0.00 | 0.00 |
| | 23.52 | | 3,374.31 | 233.00 | | 233.00 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | | 66.41 | , | | 643.40 | | | | |
| 3,600.00 | 23.52 | 66.41 | 3,466.00 | 248.97 | 679.98 | 248.97 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 23.52 | 66.41 | 3,557.69 | 264.94 | 716.55 | 264.94 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 23.52 | 66.41 | 3,649.38 | 280.91 | 753.12 | 280.91 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 23.52 | 66.41 | 3,741.08 | 296.89 | 789.70 | 296.89 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 4,000.00 | 23.52 | 66.41 | 3,832.77 | 312.86 | 826.27 | 312.86 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 23.52 | 66.41 | 3,924.46 | 328.83 | 862.84 | 328.83 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 23.52 | 66.41 | 4,016.15 | 344.80 | 899.41 | 344.80 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 23.52 | 66.41 | 4,107.84 | 360.77 | 935.99 | 360.77 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 23.52 | CC 14 | 4,199.53 | 376.74 | 972.56 | 376.74 | 0.00 | 0.00 | 0.00 |
| | | 66.41 | | | | | | | |
| 4,500.00 | 23.52 | 66.41 | 4,291.22 | 392.71 | 1,009.13 | 392.71 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 23.52 | 66.41 | 4,382.92 | 408.68 | 1,045.71 | 408.68 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 23.52 | 66.41 | 4,474.61 | 424.66 | 1,082.28 | 424.66 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 23.52 | 66.41 | 4,566.30 | 440.63 | 1,118.85 | 440.63 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 4,900.00 | 23.52 | 66.41 | 4,657.99 | 456.60 | 1,155.43 | 456.60 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 23.52 | 66.41 | 4,749.68 | 472.57 | 1,192.00 | 472.57 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 23.52 | 66.41 | 4,841.37 | 488.54 | 1,228.57 | 488.54 | 0.00 | 0.00 | 0.00 |
| | 23.52 | 66.41 | 4,933.06 | 504.51 | 1,265.15 | 504.51 | 0.00 | 0.00 | 0.00 |





 Database:
 1 - EDM Production

 Company:
 NOVO Oil & Gas

 Project:
 EDDY CO., NM (NAD83)

 Site:
 SEC 35 - 22S - 28E

 Well:
 Crocubot Fed 26 236H C-102

Wellbore: Wellbore #1

Design: Plan 2

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Crocubot Fed 26 236H C-102 RKB 25' + GL 3105' @ 3130.00usft RKB 25' + GL 3105' @ 3130.00usft Grid Minimum Curvature

| igii. | | | | | | | | | |
|----------------------|----------------|----------------|----------------------|----------------------|----------------------|----------------------|----------------|----------------|--------------|
| anned Survey | | | | | | | | | |
| Measured Depth | Inclination | Azimuth | Vertical Depth | +N/-S | +E/-W | Vertical Section | Dogleg Rate | Build Rate | Turn Rate |
| (usft) | (°) | (°) | (usft) | (usft) | (usft) | (usft) | (°/100usft) | (°/100usft) | (°/100usft) |
| 5,300.00 | 23.52 | 66.41 | 5,024.76 | 520.48 | 1,301.72 | 520.48 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 23.52 | 66.41 | 5,116.45 | 536.45 | 1,338.29 | 536.45 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 23.52 | 66.41 | 5,208.14 | 552.42 | 1,336.29 | 552.42 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 23.52 | 66.41 | 5,299.83 | 568.40 | 1,411.44 | 568.40 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 23.52 | 66.41 | 5,391.52 | 584.37 | 1,448.01 | 584.37 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 23.52 | 66.41 | 5,483.21 | 600.34 | 1,484.58 | 600.34 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 5,900.00 | 23.52 | 66.41 | 5,574.90 | 616.31 | 1,521.16 | 616.31 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 23.52 | 66.41 | 5,666.60 | 632.28 | 1,557.73 | 632.28 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 23.52 | 66.41 | 5,758.29 | 648.25 | 1,594.30 | 648.25 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 23.52 | 66.41 | 5,849.98 | 664.22 | 1,630.88 | 664.22 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 23.52 | 66.41 | 5,941.67 | 680.19 | 1,667.45 | 680.19 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 23.52 | 66.41 | 6,033.36 | 696.17 | 1,704.02 | 696.17 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 23.52 | 66.41 | 6,125.05 | 712.14 | 1,740.60 | 712.14 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 23.52 | 66.41 | 6,216.74 | 728.11 | 1,777.17 | 728.11 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 23.52 | 66.41 | 6,308.44 | 744.08 | 1,813.74 | 744.08 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 23.52 | 66.41 | 6,400.13 | 760.05 | 1,850.32 | 760.05 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 23.52 | 66.41 | 6,491.82 | 776.02 | 1,886.89 | 776.02 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 23.52 | 66.41 | 6,583.51 | 791.99 | 1,923.46 | 791.99 | 0.00 | 0.00 | 0.00 |
| 7,079.83 | 23.52 | 66.41 | 6,656.71 | 804.74 | 1,952.66 | 804.74 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 23.12 | 66.41 | 6,675.23 | 807.94 | 1,959.98 | 807.94 | 2.00 | -2.00 | 0.00 |
| 7,200.00 | 21.12 | 66.41 | 6,767.87 | 823.01 | 1,994.48 | 823.01 | 2.00 | -2.00 | 0.00 |
| | | | | | | | | | |
| 7,300.00 | 19.12 | 66.41 | 6,861.76 | 836.77 | 2,026.00 | 836.77 | 2.00 | -2.00 | 0.00 |
| 7,400.00 | 17.12 | 66.41 | 6,956.80 | 849.21 | 2,054.49 | 849.21 | 2.00 | -2.00 | 0.00 |
| 7,500.00 | 15.12 13.12 | 66.41 | 7,052.86 | 860.32 | 2,079.93 | 860.32 | 2.00 | -2.00 -2.00 | 0.00 |
| 7,600.00 | | 66.41 | 7,149.84 | 870.08 | 2,102.28 | 870.08 | 2.00 | | 0.00 |
| 7,700.00 | 11.12 | 66.41 | 7,247.60 | 878.48 | 2,121.52 | 878.48 | 2.00 | -2.00 | 0.00 |
| 7,800.00 | 9.12 | 66.41 | 7,346.04 | 885.51 | 2,137.62 | 885.51 | 2.00 | -2.00 | 0.00 |
| 7,900.00 | 7.12 | 66.41 | 7,445.04 | 891.17 | 2,150.56 | 891.17 | 2.00 | -2.00 | 0.00 |
| 8,000.00 | 5.12 | 66.41 | 7,544.46 | 895.43 | 2,160.32 | 895.43 | 2.00 | -2.00 | 0.00 |
| 8,100.00 | 3.12 | 66.41 | 7,644.20 | 898.30 | 2,166.90 | 898.30 | 2.00 | -2.00 | 0.00 |
| 8,200.00 | 1.12 | 66.41 | 7,744.13 | 899.78 | 2,170.29 | 899.78 | 2.00 | -2.00 | 0.00 |
| 8,255.88 | 0.00 | 0.00 | 7,800.00 | 900.00 | 2,170.79 | 900.00 | 2.00 | -2.00 | 0.00 |
| 8,307.92 | 0.00 | 0.00 | 7,852.04 | 900.00 | 2,170.79 | 900.00 | 0.00 | 0.00 | 0.00 |
| 8,350.00 | 4.21 | 10.00 | 7,894.09 | 901.52 | 2,171.06 | 901.52 | 10.00 | 10.00 | 0.00 |
| 8,400.00 | 9.21 | 10.00 | 7,943.73 | 907.27 | 2,172.07 | 907.27 | 10.00 | 10.00 | 0.00 |
| 8,450.00 | 14.21 | 10.00 | 7,992.67 | 917.26 | 2,173.83 | 917.26 | 10.00 | 10.00 | 0.00 |
| 8,500.00 | 19.21 | 10.00 | 8,040.55 | 931.41 | 2,176.33 | 931.41 | 10.00 | 10.00 | 0.00 |
| 8,550.00 | 24.21 | 10.00 | 8,086.98 | 949.62 | 2,179.54 | 949.62 | 10.00 | 10.00 | 0.00 |
| 8,600.00 | 29.21 | 10.00 | 8,131.64 | 971.74 | 2,183.44 | 971.74 | 10.00 | 10.00 | 0.00 |
| 8,650.00 | 34.21 | 10.00 | 8,174.16 | 997.62 | 2,188.00 | 997.62 | 10.00 | 10.00 | 0.00 |
| 8,700.00 | 39.21 | 10.00 | 8,214.23 | 1,027.04 | 2,193.19 | 1,027.04 | 10.00 | 10.00 | 0.00 |
| 8.750.00 | 44.21 | | 8,251.55 | | | | 10.00 | | 0.00 |
| 8,750.00 8,800.00 | 44.21 49.21 | 10.00 10.00 | 8,251.55 8,285.82 | 1,059.79 1,095.62 | 2,198.97 2,205.28 | 1,059.79 1,095.62 | 10.00 | 10.00 10.00 | 0.00 |
| 8,850.00 | 49.21 54.21 | 10.00 | 8,285.82 8,316.79 | 1,134.26 | 2,205.28 | 1,095.62 | 10.00 | 10.00 | 0.00 |
| 8,900.00 | 59.21 | 10.00 | 8,344.23 | 1,175.40 | 2,212.10 | 1,134.26 | 10.00 | 10.00 | 0.00 |
| 8,950.00 | 64.21 | 10.00 | 8,367.92 | 1,175.40 | 2,219.33 | 1,173.40 | 10.00 | 10.00 | 0.00 |
| | | | | | | | | | |
| 9,000.00 | 69.21 | 10.00 | 8,387.69 | 1,263.96 | 2,234.97 | 1,263.96 | 10.00 | 10.00 | 0.00 |
| 9,050.00 | 74.21 | 10.00 | 8,403.37 | 1,310.70 | 2,243.21 | 1,310.70 | 10.00 | 10.00 | 0.00 |
| 9,100.00 | 79.21 | 10.00 | 8,414.86 | 1,358.60 | 2,251.65 | 1,358.60 | 10.00 | 10.00 | 0.00 |
| 9,150.00 | 84.21 | 10.00 | 8,422.07 | 1,407.31 | 2,260.24 | 1,407.31 | 10.00 | 10.00 | 0.00 |
| 9,200.00 | 89.21 | 10.00 | 8,424.94 | 1,456.46 | 2,268.91 | 1,456.46 | 10.00 | 10.00 | 0.00 |
| 9,208.92 | 90.10 | 10.00 | 8,425.00 | 1,465.24 | 2,270.46 | 1,465.24 | 10.00 | 10.00 | 0.00 |
| 9,300.00 | 90.10 | 10.00 | 8,424.84 | 1,554.94 | 2,286.27 | 1,554.94 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 90.10 | 10.00 | 8,424.66 | 1,653.42 | 2,303.64 | 1,653.42 | 0.00 | 0.00 | 0.00 |





 Database:
 1 - EDM Production

 Company:
 NOVO Oil & Gas

 Project:
 EDDY CO., NM (NAD83)

 Site:
 SEC 35 - 22S - 28E

 Well:
 Crocubot Fed 26 236H C-102

Wellbore: Wellbore #1

Design: Plan 2

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Crocubot Fed 26 236H C-102 RKB 25' + GL 3105' @ 3130.00usft RKB 25' + GL 3105' @ 3130.00usft Grid Minimum Curvature

| ned 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) |
| 9,500.00 | 90.10 | 10.00 | 8,424.49 | 1,751.90 | 2,321.00 | 1,751.90 | 0.00 | 0.00 | 0.00 |
| 9,563.92 | 90.10 | 10.00 | 8,424.38 | 1,814.84 | 2,332.10 | 1,814.84 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 90.10 | 9.28 | 8,424.31 | 1,850.42 | 2,338.14 | 1,850.42 | 2.00 | 0.00 | -2.00 |
| 9,700.00 | 90.10 | 7.28 | 8,424.14 | 1,949.37 | 2,352.54 | 1,949.37 | 2.00 | 0.00 | -2.00 |
| 9,800.00 | 90.10 | 5.28 | 8,423.97 | 2,048.77 | 2,363.48 | 2,048.77 | 2.00 | 0.00 | -2.00 |
| 9,900.00 | 90.10 | 3.28 | 8,423.79 | 2,148.48 | 2,370.94 | 2,148.48 | 2.00 | 0.00 | -2.00 |
| 10,000.00 | 90.10 | 1.28 | 8,423.62 | 2,248.40 | 2,374.91 | 2,248.40 | 2.00 | 0.00 | -2.00 |
| 10,059.65 | 90.10 | 0.09 | 8,423.51 | 2,308.05 | 2,375.62 | 2,308.05 | 2.00 | 0.00 | -2.00 |
| 10,100.00 | 90.10 | 0.09 | 8,423.44 | 2,348.39 | 2,375.68 | 2,348.39 | 0.00 | 0.00 | 0.00 |
| 10,200.00 | 90.10 | 0.09 | 8,423.27 | 2,448.39 | 2,375.83 | 2,448.39 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 90.10 | 0.09 | 8,423.10 | 2,548.39 | 2,375.98 | 2,548.39 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 90.10 | 0.09 | 8,422.92 | 2,648.39 | 2,376.13 | 2,648.39 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 90.10 | 0.09 | 8,422.75 | 2,748.39 | 2,376.28 | 2,748.39 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 90.10 | 0.09 | 8,422.57 | 2,848.39 | 2,376.43 | 2,848.39 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 90.10 | 0.09 | 8,422.40 | 2,948.39 | 2,376.57 | 2,948.39 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 90.10 | 0.09 | 8,422.23 | 3,048.39 | 2,376.72 | 3,048.39 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 90.10 | 0.09 | 8,422.05 | 3,148.39 | 2,376.87 | 3,148.39 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 90.10 | 0.09 | 8,421.88 | 3,248.39 | 2,377.02 | 3,248.39 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 90.10 | 0.09 | 8,421.71 | 3,348.39 | 2,377.17 | 3,348.39 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 90.10 | 0.09 | 8,421.53 | 3,448.39 | 2,377.32 | 3,448.39 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 90.10 | 0.09 | 8,421.36 | 3,548.39 | 2,377.47 | 3,548.39 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 90.10 | 0.09 | 8,421.19 | 3,648.39 | 2,377.62 | 3,648.39 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 90.10 | 0.09 | 8,421.01 | 3,748.39 | 2,377.76 | 3,748.39 | 0.00 | 0.00 | 0.00 |
| 11,600.00 | 90.10 | 0.09 | 8,420.84 | 3,848.39 | 2,377.91 | 3,848.39 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 90.10 | 0.09 | 8,420.67 | 3,948.39 | 2,378.06 | 3,948.39 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 90.10 | 0.09 | 8,420.49 | 4,048.39 | 2,378.21 | 4,048.39 | 0.00 | 0.00 | 0.00 |
| 11,900.00 | 90.10 | 0.09 | 8,420.32 | 4,148.39 | 2,378.36 | 4,148.39 | 0.00 | 0.00 | 0.00 |
| 12,000.00 | 90.10 | 0.09 | 8,420.15 | 4,248.39 | 2,378.51 | 4,248.39 | 0.00 | 0.00 | 0.00 |
| 12,100.00 | 90.10 | 0.09 | 8,419.97 | 4,348.39 | 2,378.66 | 4,348.39 | 0.00 | 0.00 | 0.00 |
| 12,200.00 | 90.10 | 0.09 | 8,419.80 | 4,448.39 | 2,378.81 | 4,448.39 | 0.00 | 0.00 | 0.00 |
| 12,300.00 | 90.10 | 0.09 | 8,419.62 | 4,548.39 | 2,378.95 | 4,548.39 | 0.00 | 0.00 | 0.00 |
| 12,400.00 | 90.10 | 0.09 | 8,419.45 | 4,648.39 | 2,379.10 | 4,648.39 | 0.00 | 0.00 | 0.00 |
| 12,500.00 | 90.10 | 0.09 | 8,419.28 | 4,748.39 | 2,379.25 | 4,748.39 | 0.00 | 0.00 | 0.00 |
| 12,600.00 | 90.10 | 0.09 | 8,419.10 | 4,848.39 | 2,379.40 | 4,848.39 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 90.10 | 0.09 | 8,418.93 | 4,948.38 | 2,379.55 | 4,948.38 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 90.10 | 0.09 | 8,418.76 | 5,048.38 | 2,379.70 | 5,048.38 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 90.10 | 0.09 | 8,418.58 | 5,148.38 | 2,379.85 | 5,148.38 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 90.10 | 0.09 | 8,418.41 | 5,248.38 | 2,380.00 | 5,248.38 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 90.10 | 0.09 | 8,418.24 | 5,348.38 | 2,380.15 | 5,348.38 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 90.10 | 0.09 | 8,418.06 | 5,448.38 | 2,380.29 | 5,448.38 | 0.00 | 0.00 | 0.00 |
| 13,300.00 | 90.10 | 0.09 | 8,417.89 | 5,548.38 | 2,380.44 | 5,548.38 | 0.00 | 0.00 | 0.00 |
| 13,400.00 | 90.10 | 0.09 | 8,417.72 | 5,648.38 | 2,380.59 | 5,648.38 | 0.00 | 0.00 | 0.00 |
| 13,500.00 | 90.10 | 0.09 | 8,417.54 | 5,748.38 | 2,380.74 | 5,748.38 | 0.00 | 0.00 | 0.00 |
| 13,600.00 | 90.10 | 0.09 | 8,417.37 | 5,848.38 | 2,380.89 | 5,848.38 | 0.00 | 0.00 | 0.00 |
| 13,700.00 | 90.10 | 0.09 | 8,417.20 | 5,948.38 | 2,381.04 | 5,948.38 | 0.00 | 0.00 | 0.00 |
| 13,800.00 | 90.10 | 0.09 | 8,417.02 | 6,048.38 | 2,381.19 | 6,048.38 | 0.00 | 0.00 | 0.00 |
| 13,900.00 | 90.10 | 0.09 | 8,416.85 | 6,148.38 | 2,381.34 | 6,148.38 | 0.00 | 0.00 | 0.00 |
| 14,000.00 | 90.10 | 0.09 | 8,416.67 | 6,248.38 | 2,381.48 | 6,248.38 | 0.00 | 0.00 | 0.00 |
| 14,037.15 | 90.10 | 0.09 | 8,416.61 | 6,285.53 | 2,381.54 | 6,285.53 | 0.00 | 0.00 | 0.00 |







 Database:
 1 - EDM Production

 Company:
 NOVO Oil & Gas

 Project:
 EDDY CO., NM (NAD83)

 Site:
 SEC 35 - 22S - 28E

 Well:
 Crocubot Fed 26 236H C-102

Wellbore: Wellbore #1

Design: Plan 2

Local Co-ordinate Reference: TVD Reference: MD Reference:

Survey Calculation Method:

North Reference:

Well Crocubot Fed 26 236H C-102 RKB 25' + GL 3105' @ 3130.00usft RKB 25' + GL 3105' @ 3130.00usft

Gria

Minimum Curvature

| Design Targets | | | | | | | | | |
|--|------------------------|-----------------------|-------------------------|--------------------------|-----------------------------|--------------------------|-------------------|-------------|---------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| PBHL Crocubot 236H (1 - plan hits target cen - Point | 0.00 ter | 0.00 | 8,416.61 | 6,285.53 | 2,381.54 | 498,690.25 | 628,517.71 | 32.37065305 | -104.05095464 |
| LTP Crocubot 236H (330 - plan misses target - Point | 0.00 center by 0.07 | 0.00 'usft at 1383 | 8,416.96 7.15usft MD | 6,085.53 (8416.96 TVD | 2,381.17), 6085.53 N, 2 | 498,490.25 2381.24 E) | 628,517.34 | 32.37010330 | -104.05095755 |
| FTP Crocubot 236H (330 - plan misses target - Point | 0.00 center by 98.8 | 0.00 9usft at 923 | 8,425.00 7.40usft MD | 1,476.12 (8424.95 TVD | 2,372.79), 1493.29 N, 2 | 493,880.84 2275.40 E) | 628,508.96 | 32.35743295 | -104.05102407 |

| Casing Points | | | | | | | |
|---------------|-----------|-------------------|------------|------|--------------------|------------------|--|
| | Measured | Vertical Depth | | | Casing Diameter | Hole Diameter | |
| | Depth | - | | | | Diameter /"\ | |
| | (usft) | (usft) | | Name | (") | () | |
| | 14,084.17 | | 20" Casing | | 20 | 24 | |

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Novo Oil & Gas Nothern Delaware, LLC

LEASE NO.: | NMNM067979

WELL NAME & NO.: | CROCUBOT FED 26 236H

SURFACE HOLE FOOTAGE: 1130'/N & 2520'/W **BOTTOM HOLE FOOTAGE** 130'/N & 330'/W

LOCATION: | Section 35, T.22 S., R.28 E., NMPM

COUNTY: Eddy County, New Mexico

COA

| H2S | • Yes | O No | |
|----------------------|------------------|-----------------------------|--------------|
| Potash | None | Secretary | © R-111-P |
| Cave/Karst Potential | O Low | O Medium | • High |
| Cave/Karst Potential | O Critical | | |
| Variance | O None | • Flex Hose | Other |
| Wellhead | Conventional | • Multibowl | O Both |
| Other | ☐4 String Area | □Capitan Reef | □WIPP |
| Other | □Fluid Filled | ☐ Cement Squeeze | ☐ Pilot Hole |
| Special Requirements | ☐ Water Disposal | □СОМ | □ Unit |

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

- 1. The **13-3/8** inch surface casing shall be set at approximately **300** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) 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 <u>8 hours</u> 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.
- 2. The **8-5/8** inch Intermediate casing shall be set at approximately **3475**feet. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is:

Option 1 (Single Stage):

- 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 or potash.
- ❖ In <u>High Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Option 1 (Single Stage):

• Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

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. **BOP REQUIREMENTS**

Option 1:

a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.

b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **5000** (**5M**) psi.

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. 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.

- 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 OOGO2.III.A.2.i must be followed.

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)
 - ☑ Eddy CountyCall the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - ☐ Lea County
 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
 - Notify the BLM when moving in and removing the Spudder Rig.
 - 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.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 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 dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity 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 intergrity 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 fall back 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 hardband 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-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 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:

- 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. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
- e. 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.
 - a. 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 when specified), 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).
 - b. 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 plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- d. 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.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. 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.
- g. 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.
- h. 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 Onshore Order No. 2.

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.

RI06292022



- a. All personnel will be trained in H_2S working conditions as required by Onshore Order 6 before drilling out of the surface casing.
- b. Two briefing areas will be established. Each will be at least 150' from the wellhead, perpendicular from one another, and easily entered and exited. See H₂S page 5 for more details.
- c. H₂S Safety Equipment/Systems:
 - i. Well Control Equipment
 - Flare line will be >150' from the wellhead and ignited by a pilot light.
 - Beware of SO₂ created by flaring.
 - Choke manifold will include a remotely operated choke.
 - Mud gas separator
 - ii. Protective Equipment for Essential Personnel
 - Every person on site will be required to wear a personal H₂S and SO₂ monitor at all times while on site. Monitors will not be worn on hard hats. Monitors will be worn on the front of the chest.
 - One self-contained breathing apparatus (SCBA) 30-minute rescue pack will be at each briefing area. Two 30-minute SCBA packs will be stored in the safety trailer.
 - Four work/escape packs will be on the rig floor. Each pack will have a long enough hose to allow unimpaired work activity.
 - Four emergency escape packs will be in the doghouse for emergency evacuation.
 - Hand signals will be used when wearing protective breathing apparatus.
 - Stokes litter or stretcher
 - Two full OSHA compliant body harnesses
 - A 100-foot long x 5/8" OSHA compliant rope
 - One 20-pound ABC fire extinguisher

iii. H₂S Detection & Monitoring Equipment

- Every person on site will be required to wear a personal H₂S and SO₂ monitor at all times while on site. Monitors will not be worn on hard hats. Monitors will be worn on the front of the chest.
- A stationary detector with three sensors will be in the doghouse.
- Sensors will be installed on the rig floor, bell nipple, and at the end of the flow line or where drilling fluids are discharged.
- Visual alarm will be triggered at 10 ppm.
- Audible alarm will be triggered at 10 ppm.
- Calibration will occur at least every 30 days. Gas sample tubes will be kept in the safety trailer.

iv. Visual Warning System

- Color-coded H₂S condition sign will be set at the entrance to the pad.
- Color-coded condition flag will be installed to indicate current H₂S conditions.
- Two wind socks will be installed that will be visible from all sides.

v. Mud Program

- A water based mud with a pH of > 10 will be maintained to control corrosion, H₂S gas returns to the surface, and minimize sulfide stress cracking and embrittlement.
- Drilling mud containing H₂S gas will be degassed at an optimum location for the rig configuration.
- This gas will be piped into the flare system.
- Enough mud additives will be on location to scavenge and/or neutralize H₂S where formation pressures are unknown.

vi. Metallurgy

- All equipment that has the potential to be exposed to H₂S will be suitable for H₂S service.
- Equipment that will meet these metallurgical standards include the drill string, casing, wellhead, BOP assembly, casing head and spool, rotating head, kill lines, choke, choke manifold and lines, valves, mud-gas separators, DST tools, test units, tubing, flanges, and other related equipment (elastomer packings and seals).

vii. Communication from well site

- Cell phones and/or two-way radios will be used to communicate from the well site.

d. A remote-controlled choke, mud-gas separator, and a rotating head will be installed before drilling or testing any formation expected to contain H_2S .

Company Personnel to be Notified

Kurt Shipley, Vice-President - Operations Office: (405) 609-1596

Local & County Agencies

Loving Fire Department 911 or (575) 745-3600

Eddy County Sheriff (Carlsbad) 911 (575) 887-7551

Eddy County Emergency Management (Carlsbad) (575) 887-9511

Carlsbad Medical Center Hospital (575) 887-4100

Eddy County South Road Department (Carlsbad) (575) 885-4835

State Agencies

NM State Police (Carlsbad) (575) 885-3138

NM Oil Conservation (Artesia) (575) 748-1283

NM Oil Conservation (Santa Fe) (505) 476-3440

NM Dept. of Transportation (Roswell) (575) 637-7201

Federal Agencies

BLM Carlsbad Field Office (575) 234-5972

National Response Center (800) 424-8802

US EPA Region 6 (Dallas) (800) 887-6063

(214) 665-6444

Residents within 2 miles

none

Air Evacuation

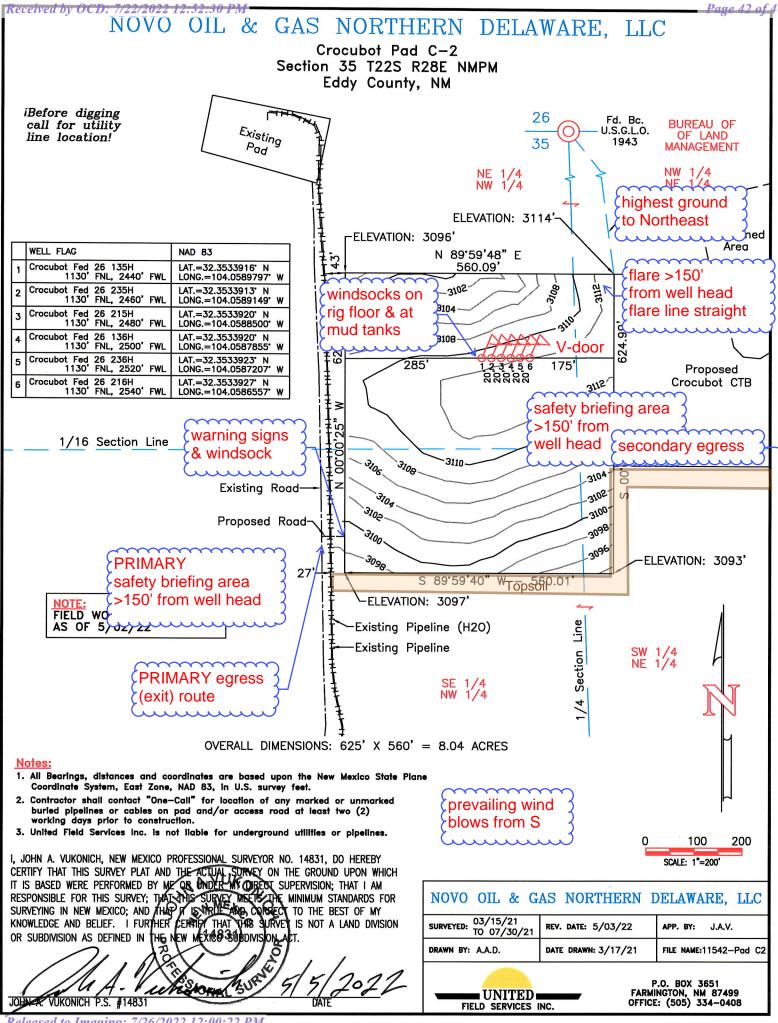
Med Flight Air Ambulance (Albuquerque) (800) 842-4431

Lifeguard (Albuquerque) (888) 866-7256

Veterinarians

Desert Willow Veterinary Services (Carlsbad) (575) 885-3399

Animal Care Center (Carlsbad) (575) 885-5352

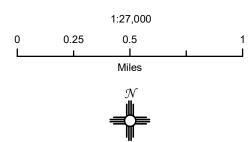


Novo Oil and Gas Northern Delaware

Crocubot Pad C-2 H₂S Contingency Plan: Radius Map

Section 35, Township 22S, Range 28E Eddy County, New Mexico

Well Pad Location



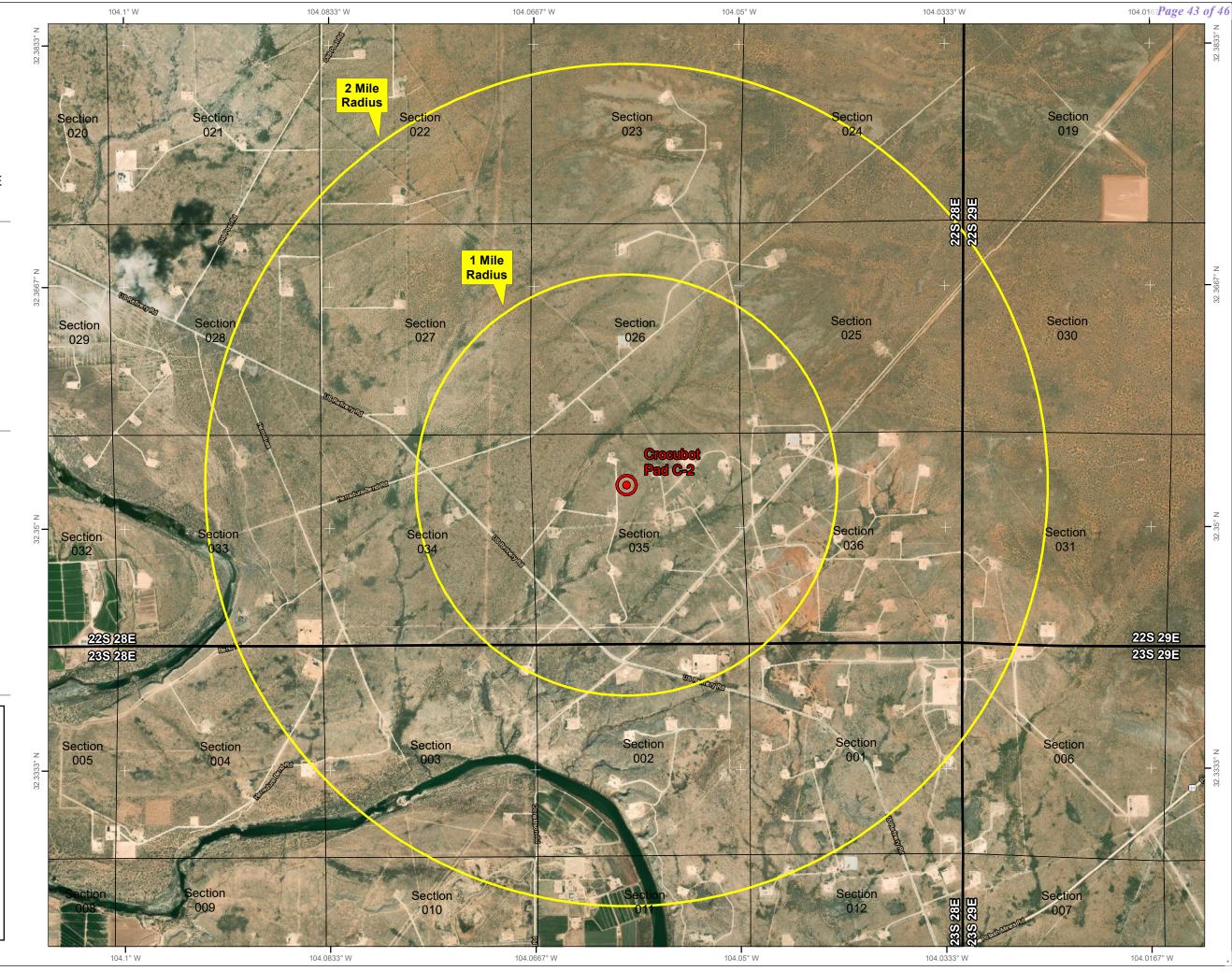
NAD 1983 New Mexico State Plane East FIPS 3001 Feet

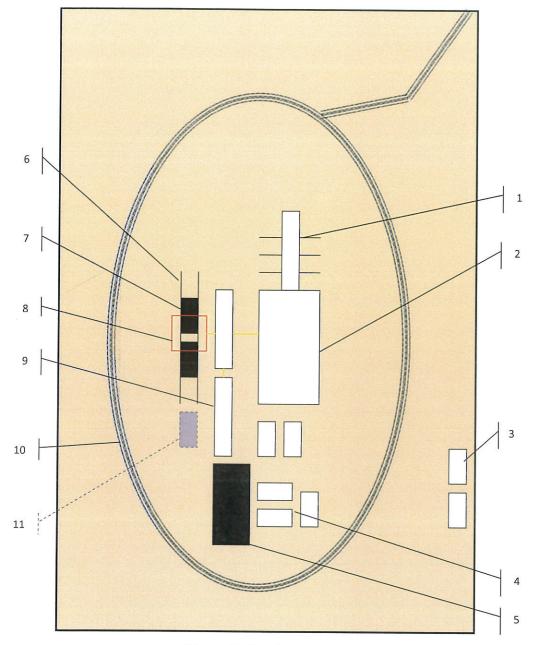


Prepared by Permits West, Inc., October 11, 2021 for Novo Oil and Gas Northern Delaware, LLC



Released to Imaging: 7/26/2022 12:00:22 PM





Schematic Closed Loop Drilling Rig*

- 1. Pipe Rack
- 2. Drill Rig
- 3. House Trailers/ Offices
- 4. Generator/Fuel/Storage
- 5. Overflow-Frac Tank
- 6. Skids
- 7. Roll Offs
- 8. Hopper or Centrifuge
- 9. Mud Tanks
- 10. Loop Drive
- 11. Generator (only for use with centrifuge)

*Not drawn to scale: Closed loop system requires at least 30 feet beyond mud tanks. Ideally 60 feet would be available





Above: Centrifugal Closed Loop System



Closed Loop Drilling System: Mud tanks to right (1)

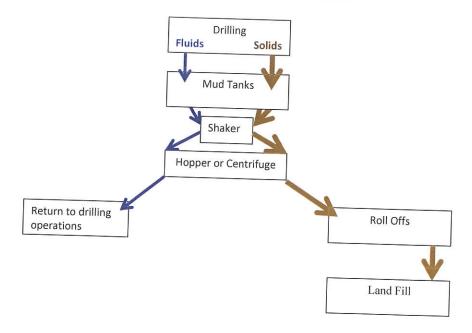
Hopper in air to settle out solids (2)

Water return pipe (3)

Shaker between hopper and mud tanks (4)

Roll offs on skids (5)

Flow Chart for Drilling Fluids and Solids



Photos Courtesy of Gandy Corporation Oil Field Service



District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 128125

CONDITIONS

| Operator: | OGRID: |
|---------------------------------------|---|
| NOVO OIL & GAS NORTHERN DELAWARE, LLC | 372920 |
| 1001 West Wilshire Blvd | Action Number: |
| Oklahoma City, OK 73116 | 128125 |
| | Action Type: |
| | [C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--|-------------------|
| kpickford | Notify OCD 24 hours prior to casing & cement | 7/26/2022 |
| kpickford | Will require a File As Drilled C-102 and a Directional Survey with the C-104 | 7/26/2022 |
| kpickford | 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 | 7/26/2022 |
| kpickford | Cement is required to circulate on both surface and intermediate1 strings of casing | 7/26/2022 |
| kpickford | 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 | 7/26/2022 |