| Form 3160-3 (June 2015) UNITED STATES | ç | | | FORM A OMB No Expires: Jar | . 1004-0 | 137 | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------|--------------------|-------------------|--|--|
| DEPARTMENT OF THE I BUREAU OF LAND MAN. | NTERIOR | | | 5. Lease Serial No. NMNM018038 | | | | |
| APPLICATION FOR PERMIT TO D | RILL OR | REENTER | ER 6. If Indian, Allotee or Tribe Name | | | | | |
| 1a. Type of work: 🖌 DRILL 🗌 R | EENTER | | | 7. If Unit or CA Agre | ement, N | Name and No. | | |
| 1b. Type of Well: Oil Well 🔽 Gas Well 🗌 O | ther | | | 8. Lease Name and V | Vell No. | | | |
| Ic. Type of Completion: \square Hydraulic Fracturing \checkmark S | ingle Zone | Multiple Zone | | GOONCH FED CO | M 04 | | | |
| | | | | ^{231H} 3264 | 517 | | | |
| 2. Name of Operator NOVO OIL AND GAS NORTHERN DELAWARE LLC | | | | 9. APL Well No. 30-0/ | | 6474 | | |
| 3a. Address1001 West Wilshire Boulevard Suite 206 Oklahoma City C | | o. (include area coa 414 | le) | 10. Field and Pool, o BILBREY BASIN B | • | - | | |
| 4. Location of Well (Report location clearly and in accordance | with any State | requirements.*) | | 11. Sec., T. R. M. or | | | | |
| At surface SWSW / 1080 FSL / 980 FWL / LAT 32.330 | | | | SEC 4 / T23S / R28 | SE / NIMI | _ | | |
| At proposed prod. zone LOT 4 / 130 FNL / 330 FWL / LA | | 94 / LONG -104.09 | 94151 | | | | | |
| 14. Distance in miles and direction from nearest town or post off 3 miles | îce* | | | 12. County or Parish EDDY | | 13. State NM | | |
| 15. Distance from proposed* location to nearest property or lease line, ft. | 16. No of ac | eres in lease | 17. Spacin 320.41 | ng Unit dedicated to th | is well | | | |
| (Also to nearest drig, unit line, if any) | | 10.1 | 20. 07.14 | | | | | |
| Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. | 19. Propose 10233 feet | d Depth / 15336 feet | | 'BIA Bond No. in file 1 B001536 | | | | |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3013 feet | 22. Approxi 09/01/2019 | mate date work will | start* | 23. Estimated duration90 days | | | | |
| | 24. Attac | hments | | · · · · · · · · · · · · · · · · · · · | - | | | |
| The following, completed in accordance with the requirements o (as applicable) | f Onshore Oil | and Gas Order No. | l, and the H | Iydraulic Fracturing ru | ile per 43 | CFR 3162.3-3 | | |
| Well plat certified by a registered surveyor. A Drilling Plan. | | 4. Bond to cover the Item 20 above). | e operatior | s unless covered by an | existing | bond on file (see | | |
| 3. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office | | 5. Operator certifie 6. Such other site s BLM. | | mation and/or plans as | may be re | equested by the | | |
| 25. Signature | | (Printed/Typed) | | | Date | | | |
| (Electronic Submission) | Brian | Wood / Ph: (505)4 | 66-8120 | | 06/13/2 | 019 | | |
| Title President | | | | | | | | |
| Approved by (Signature) (Electronic Submission) | | (Printed/Typed) opher Walls / Ph: | (575)234-2 | | Date 11/20/2019 | | | |
| Title Petroleum Engineer | Office CARL | SBAD | | | | | | |
| Application approval does not warrant or certify that the applicat applicant to conduct operations thereon. Conditions of approval, if any, are attached. | nt holds legal | or equitable title to t | hose rights | in the subject lease wh | nich wou | ld entitle the | | |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, r of the United States any false, fictitious or fraudulent statements | | | | | ny depar | tment or agency | | |
| | • | | | | | | | |
| · | | | Sector Contraction | | | | | |



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*(Instructions on page 2)

Ruf 12-6-19

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

| COUNTY: Eddy County, New Mexico |
|-----------------------------------|
|-----------------------------------|

| WELL NAME & NO.: | Goonch FED COM 04 231H |
|------------------------------|------------------------|
| SURFACE HOLE FOOTAGE: | 1120'/S & 980'/W |
| BOTTOM HOLE FOOTAGE | 130'/N & 726'/W |

COA

| H2S | • Yes | C No | |
|----------------------|----------------------|----------------|---------------|
| Potash | • None | C Secretary | CR-111-P |
| Cave/Karst Potential | CLow | Medium | O High |
| Cave/Karst Potential | Critical | | |
| Variance | C None | Flex Hose | C Other |
| Wellhead | C Conventional | Multibowl | C Both |
| Other | □ 4 String Area | Capitan Reef | WIPP |
| Other | F luid Filled | Cement Squeeze | F Pilot Hole |
| Special Requirements | ☐ Water Disposal | I ⊂ COM | F Unit |

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **North East Loving** 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 215 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.

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- b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u> <u>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 9 5/8 inch intermediate casing shall be set at approxiamately 6,500 feet. The minimum required fill of cement behind the 9-5/8 inch intermediate casing 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 or potash.
 - In <u>Medium 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:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. Excess cement calculates to negative 8%, additional cement will be required.

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. 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.

Page 2 of 7

e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, 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.
- 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. <u>When the Communitization Agreement number is known, it shall also be</u> <u>on the sign.</u> JJP10162019

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)

\boxtimes Eddy County

Call 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)
 393-3612
- 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.

Page 3 of 7

- 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> 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 <u>24 hours</u>. 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. <u>Wait on cement (WOC) for Water Basin:</u> 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

Page 4 of 7

strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. 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.

FAFMSS

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

Noerator Certification Data Report

Operator Certification

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: Brian Wood | | Signed on: 06/13/2019 | |
|---------------------------|--------------|------------------------|--|
| Title: President | | | |
| Street Address: | | | |
| City: | State: | Zip: | |
| Phone: (505)466-8120 | | | |
| Email address: afmss@perm | iitswest.com | | |
| Field Representa | tive | State: Zip: est.com | |
| Street Address: | | | |
| City: | State: | Zip: | |
| Phone: | | | |
| Email address: | | | |

FAFMSS

APD ID: 10400042232

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

Submission Date: 06/13/2019

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APD Operator: NOVO OIL AND GAS NORTHERN DELAWARE LLC

Zip: 73116

Operator Name: NOVO OIL AND GAS NORTHERN DELAWARE LLC

Well Name: GOONCH FED COM 04

Well Type: CONVENTIONAL GAS WELL

Well Number: 231H Well Work Type: Drill Highlighted data reflects the most recent changes Show Final Text

11/21/2019

Application Data Repor

Section 1 - General APD ID: 10400042232 Tie to previous NOS? N Submission Date: 06/13/2019 BLM Office: CARLSBAD User: Brian Wood Title: President Federal/Indian APD: FED Is the first lease penetrated for production Federal or Indian? FED Lease number: NMNM018038 Lease Acres: 280.21 Surface access agreement in place? Allotted? **Reservation:** Agreement in place? NO Federal or Indian agreement: Agreement number:

Agreement name:

Keep application confidential? NO

Permitting Agent? YES

Operator letter of designation:

Operator Info

Operator Organization Name: NOVO OIL AND GAS NORTHERN DELAWARE LLC

Operator Address: 1001 West Wilshire Boulevard Suite 206

Operator PO Box:

Operator City: Oklahoma City State: OK

Operator Phone: (405)404-0414

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Well in Master SUPO? NO

Well in Master Drilling Plan? NO

Well Name: GOONCH FED COM 04

Field/Pool or Exploratory? Field and Pool

Master Development Plan name: Master SUPO name:

master SOFO name.

Master Drilling Plan name:

Well Number: 231H

Well API Number:

Field Name: BILBREY BASIN Pool Name: BONE SPRING, SOUTH

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

| Operator Name: NOVO OIL AND GAS NORTH | HERN DELAWARE LLC |
|---------------------------------------|-------------------|
| Well Name: GOONCH FED COM 04 | Well Number: 231H |

| Is the proposed well in an area containing other mine | ral resources? USEABLE V | VATER,NATURAL GAS,OIL |
|-------------------------------------------------------|----------------------------------------|-------------------------------|
| Is the proposed well in a Helium production area? N | Use Existing Well Pad? N | O New surface disturbance? |
| Type of Well Pad: MULTIPLE WELL | Multiple Well Pad Name: | Number: 131H |
| Well Class: HORIZONTAL | GOONCH FED COM 04 Number of Legs: 1 | |
| Well Work Type: Drill | | |
| Well Type: CONVENTIONAL GAS WELL | | |
| Describe Well Type: | | |
| Well sub-Type: INFILL | | |
| Describe sub-type: | | |
| Distance to town: 3 Miles Distance to ne | arest well: 20 FT D | istance to lease line: 980 FT |
| Reservoir well spacing assigned acres Measurement | : 320.41 Acres | |
| Well plat: Goonch_231H_Plat_GasCap_Plan_20190 | 528115819.pdf | |
| Well work start Date: 09/01/2019 | Duration: 90 DAYS | |
| Section 3 - Well Location Table | | |
| Survey Type: RECTANGULAR | | |

Describe Survey Type:

Datum: NAD83

Survey number:

Vertical Datum: NAVD88

Reference Datum:

Will this well produce Aliquot/Lot/Tract Lease Number EW Indicator NS Indicator Longitude ease Type Elevation Wellbore EW-Foot Meridian NS-Foot Latitude Section Range County Twsp State Ž QW SHL FSL Aliquot EDD F FEE 301 0 32.33016 -NEW NEW 0 108 980 |FWL 23S 28E 4 MEXI MEXI 3 0 05 104.0977 Y SWS Leg 911 CO CO #1 W NEW NEW F KOP 49 FSL 293 FWL 23S 28E 4 Aliquot 32.32728 EDD FEE _ 986 973 104.1000 Y MEXI MEXI 672 5 36 1 SWS Leg 2 145 CO СО W #1 PPP FWL 23S 28E 4 Aliquot 32.33465 EDD NEW NEW F NMNM 128 102 264 FSL 253 _ 104.0997 Y MEXI MEXI 018038 720 25 22 5 0 Leg SWN 05 CO CO 9 W #1-1

Operator Name: NOVO OIL AND GAS NORTHERN DELAWARE LLC

Well Name: GOONCH FED COM 04

Well Number: 231H

| 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 | DM | DVT | Will this well produce |
|--------------------|---------|--------------|---------|--------------|------|-------|---------|---------------------|----------------|----------------------|----------|-------------------|-------------------|------------|----------------|---------------|-----------|-----------|------------------------|
| PPP Leg #1-2 | 49 | FSL | 293 | FWL | 235 | 28E | 4 | Aliquot SWS W | 32.32728 36 | - 104.1000 145 | EDD Y | NEW MEXI CO | NEW MEXI CO | F | FEE | - 665 4 | 979 3 | 966 7 | |
| EXIT Leg #1 | 130 | FNL | 330 | FWL | 235 | 28E | 4 | Lot 4 | 32.34156 94 | - 104.0994 151 | EDD Y | NEW MEXI CO | NEW MEXI CO | F | NMNM 032636 | - 722 0 | 153 36 | 102 33 | |
| BHL Leg #1 | 130 | FNL | 330 | FWL | 23S | 28E | 4 | Lot 4 | 32.34156 94 | - 104.0994 151 | EDD Y | NEW MEXI CO | NEW MEXI CO | F | NMNM 032636 | - 722 0 | 153 36 | 102 33 | |

FAFMSS

APD ID: 10400042232

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

Submission Date: 06/13/2019

Highlighted data reflects the most recent changes

11/21/2019

Drilling Plan Data Report

Operator Name: NOVO OIL AND GAS NORTHERN DELAWARE LLC

Well Name: GOONCH FED COM 04

Well Type: CONVENTIONAL GAS WELL

Well Number: 231H

Show Final Text

Well Work Type: Drill

Section 1 - Geologic Formations

| Formation | | | True Vertical | 1 | * | | Producing |
|-----------|-------------------|-------------------------------------|---------------|-------------------------------|---------------------|-------------------|-----------|
| ID | Formation Name | Elevation | Depth | Depth | Lithologies | Mineral Resources | |
| 1 | QUATERNARY | 3013 | 0 | 0 | | USEABLE WATER | N |
| 2 | RUSTLER ANHYDRITE | RUSTLER ANHYDRITE 2913 100 100 | | 100 | | NONE | N |
| 3 | CASTILE | 2043 | 970 | 970 | GYPSUM | NONE | N |
| 4 | LAMAR | 540 | 2473 | 2476 | LIMESTONE | NONE | N |
| 5 | BELL CANYON | 474 | 2539 | 2542 | SANDSTONE | NATURAL GAS,OIL | N |
| 6 | CHERRY CANYON | RRY CANYON -601 3614 3641 SANDSTONE | | | | | N · |
| 7 | BRUSHY CANYON | -1614 4627 4677 SANDST | | SANDSTONE | NATURAL GAS,OIL | N | |
| 8 | BONE SPRING | -3057 | 6070 | 6152 | LIMESTONE | NATURAL GAS, OIL | N |
| 9 | BONE SPRING 1ST | -4024 | 7037 | 7141 | SANDSTONE | NATURAL GAS,OIL | N |
| 10 | BONE SPRING 2ND | -4237 | 7250 | 7358 | OTHER : Carbonate | NATURAL GAS,OIL | N |
| 11 | BONE SPRING 2ND | -4772 | 7785 | 7909 | SANDSTONE | NATURAL GAS, OIL | N |
| 12 | BONE SPRING 3RD | -5069 | 8082 | 8207 | OTHER : Carbonate | NATURAL GAS,OIL | N |
| 13 | BONE SPRING 3RD | -6003 | 9016 | 9142 | SANDSTONE | NATURAL GAS, OIL | N |
| 14 | WOLFCAMP | -6327 | 9340 |) 9466 OTHER : XY Carbonate N | | NATURAL GAS, OIL | N |
| 15 | WOLFCAMP | -6573 | 9586 | 9712 | OTHER : A Carbonate | NATURAL GAS,OIL | N |
| 16 | WOLFCAMP | -6654 | 9667 | 9793 | OTHER : B Carbonate | NATURAL GAS,OIL | Y |

Section 2 - Blowout Prevention

Operator Name: NOVO OIL AND GAS NORTHERN DELAWARE LLC

Well Name: GOONCH FED COM 04

Well Number: 231H

Pressure Rating (PSI): 5M

Rating Depth: 12000

Equipment: A 13.625" 5,000-psi BOP 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 the location when testing the BOP.

Testing Procedure: BOP system will be isolated with a test plug and tested by an independent tester to 250-psi low and 5000-psi high for 10 minutes. 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 the location when testing the BOP. 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 1500-psi high. Intermediate casing will be pressure tested to 250-psi low and 70% of burst pressure (4431 psi) high for 30 minutes.

Choke Diagram Attachment:

Goonch_231H_Choke_20190923115135.pdf

BOP Diagram Attachment:

Goonch_231H_BOP_20190923115145.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 | 13.375 | NEW | API | N | 0 | 589 | 0 | 589 | 3013 | | 589 | J-55 | 54.5 | BUTT | 1.12 5 | 1.12 5 | DRY | 1.6 | DRY | 1.6 |
| 2 | INTERMED IATE | 12.2 5 | 9.625 | NEW | API | N | 0 | 8900 | 0 | 8774 | 3013 | | 8900 | HCL -80 | 43.5 | BUTT | - | 1.12 5 | DRY | 1.6 | DRY | 1.6 |
| 3 | PRODUCTI ON | 8.5 | 5.5 | NEW | API | N | 0 | 15336 | 0 | 10233 | 3013 | | 15336 | P- 110 | | OTHER - TMK UP DQX | | 1.12 5 | DRY | 1.6 | DRY | 1.6 |

Casing Attachments

Well Number: 231H

Casing Attachments

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Goonch_231H_Casing_Design_Assumptions_20190530100322.pdf

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Goonch_231H_Casing_Design_Assumptions_20190530100811.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

5.50in_TMK_UP_DQX_20190923102955.pdf

Goonch_231H_Casing_Design_Assumptions_20190923103006.pdf

Operator Name: NOVO OIL AND GAS NORTHERN DELAWARE LLC Well Name: GOONCH FED COM 04 Well Numl

| Well | Number: | 231H |
|------|---------|------|
|------|---------|------|

| 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 | 589 | 505 | 1.62 | 13.8 | 818 | 100 | Class C | gel + accelerator + LCM |
| PRODUCTION | Lead | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | None | None |
| PRODUCTION | Tail | | | 1533 6 | 1009 | 1.89 | 13 | 1906 | 20 | Class H | fluid loss + retarder + LCM |
| INTERMEDIATE | Lead | 4000 | 0 | 8900 | 690 | 2.28 | 11.9 | 1573 | 20 | Class C or H | + fluid loss + retarder + LCM |
| INTERMEDIATE | Tail | | 0 | 8900 | 200 | 1.34 | 14.8 | 268 | 20 | Class C or H | fluid loss + retarder + LCM |
| INTERMEDIATE | Lead | | 0 | 8900 | 542 | 2.28 | 11.9 | 1235 | 20 | Class C or H | fluid loss + retarder + LCM |
| INTERMEDIATE | Tail | | 0 | 8900 | 200 | 1.34 | 14.8 | 268 | 20 | 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 (Ibs/gal) | Max Weight (Ibs/gal) | Density (lbs/cu ft) | Gel Strength (lbs/100 sqft) | Н | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|-----------|--------------|----------------------------------|----------------------|----------------------|---------------------|-----------------------------|---|----------------|----------------|-----------------|----------------------------|
| 589 | 8900 | OTHER : Brine diesel emulsion | 8.8 | 9.2 | | | | | | | |

Operator Name: NOVO OIL AND GAS NORTHERN DELAWARE LLC Well Name: GOONCH FED COM 04

| Well | Number: | 231H |
|------|--------------|-------|
| | itanino ott. | 20111 |

| Top Depth | 9 Bottom Depth 9 223 | OIL-BASED MUD | ∞ ∞ Min Weight (Ibs/gal) | 12.5 Max Weight (lbs/gal) | Density (lbs/cu ft) | Gel Strength (lbs/100 sqft) | На | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|-----------|-------------------------|-----------------------------|-----------------------------|---------------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|
| 0 | 589 | OTHER : Fresh water spud | 8.3 | 8.3 | | | | | | | |

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:

GR

Coring operation description for the well:

No core or drill stem test is planned.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5465

Anticipated Surface Pressure: 3213.74

Anticipated Bottom Hole Temperature(F): 165

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Goonch_231H_H2S_Plan_20190530103017.pdf

Operator Name: NOVO OIL AND GAS NORTHERN DELAWARE LLC

Well Name: GOONCH FED COM 04

Well Number: 231H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Goonch_231H_Horizontal_Drill_Plan_20190530103036.pdf

Other proposed operations facets description:

Novo owns fee leases in the S2 Section 4. Novo has filed with the NMOCD to be named operator of the west half of Section 4. There was no opposition at the NMOCD hearing.

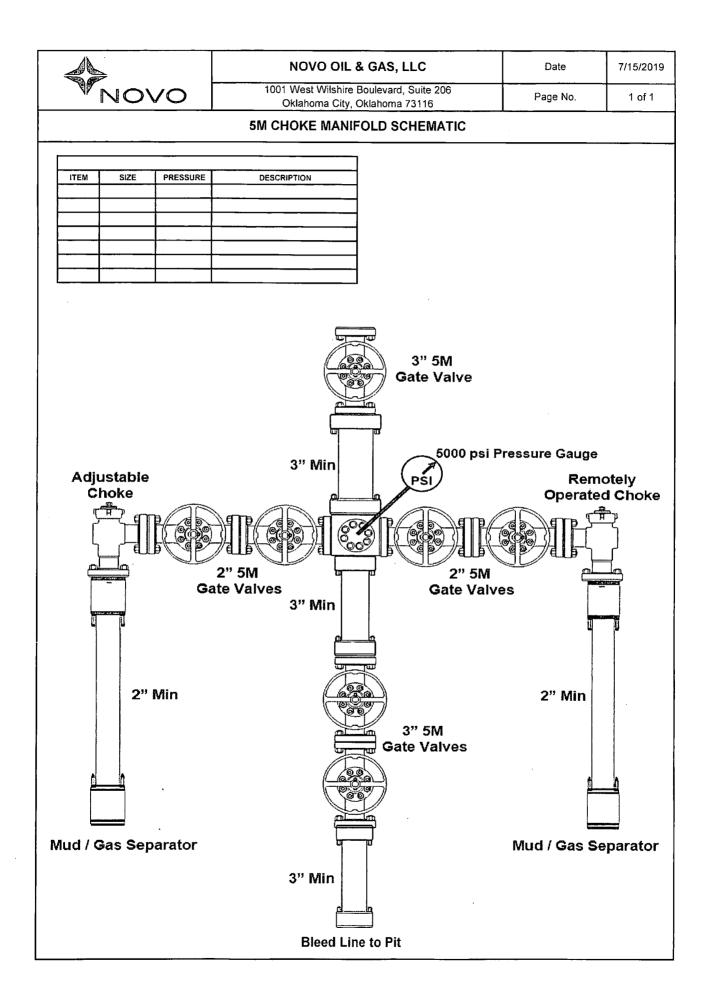
Other proposed operations facets attachment:

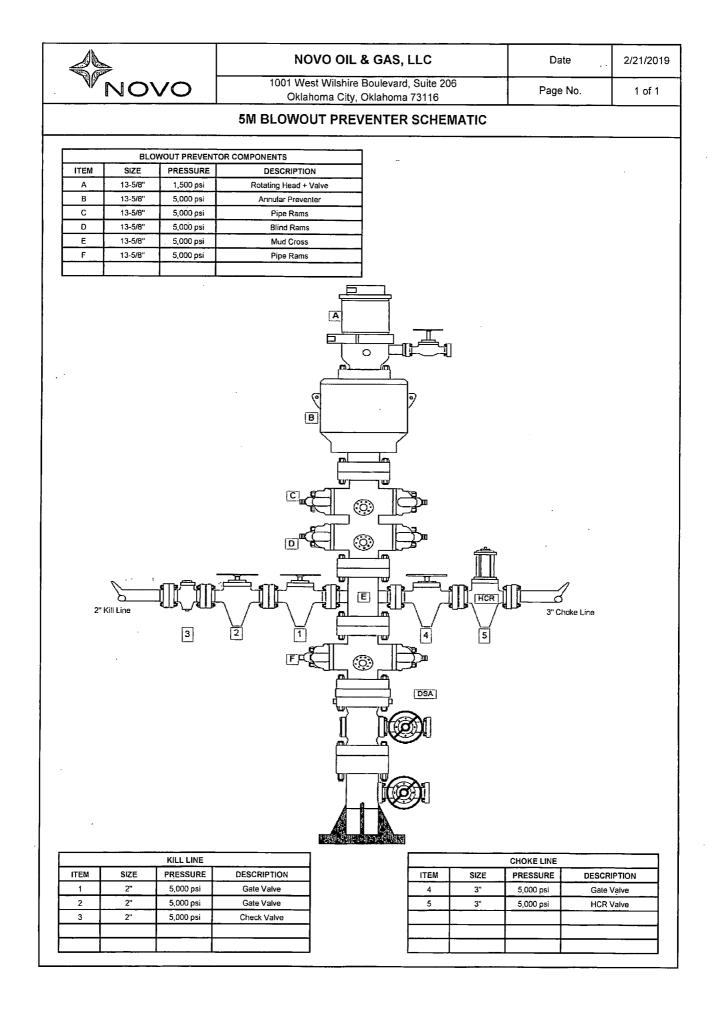
Goonch_231H_Speehead_Specs_20190530103058.pdf CoFlex Certs 20190923115245.pdf

Goonch_231H_Drill_Plan_20190923115259.pdf

Other Variance attachment:

Goonch_04_231H_Casing_Variance_Request_20190923102628.pdf Gnooch_04_231H_Alternative_Casing_Spec_Request_20190923102901.pdf





Goonch Fed Com 04 231H 3-string Casing Design Assumptions

Surface Casing

Collapse: DF_c = 1.125

- a. Full internal Evacuation: Collapse force is equal to mud gradient (0.433 psi/ft) in which the casing will be run and internal evacuation of casing.
- b. Cementing: Collapse force is equal net force of the planned cement slurry gradient (0.718 psi/ft) in which the casing will be run and internal force equivalent to fresh water displacement gradient (0.433 psi/ft).
- Burst: DF_B = 1.125
 - a. Casing Pressure Test: According to BLM Onshore Order No. 2 with 0.22 psi/ft or 1500 psi, whichever is greater but not to exceed 70% of the minimum internal yield.
- Tensile: $DF_T = 1.60$
 - a. Overpull: A tensile force of 100,000 lbs over string weight with a buoyancy factor of 0.8727 in water (8.33 ppg).

Intermediate Casing

Collapse: DF_c = 1.125

- a. Full Internal Evacuation: Collapse force is equal to mud gradient (0.531 psi/ft) in which the casing will be run and internal evacuation of casing.
- b. Cementing: Collapse force is equal net force of the planned cement slurry gradient (0.626 psi/ft) in which the casing will be run and internal force equivalent to the displacement of fluid gradient.

Burst: $DF_{B} = 1.125$

- a. Casing Pressure Test: According to BLM Onshore Order No. 2 with 0.22 psi/ft or 1500 psi, whichever is greater but to exceed 70% of the minimum internal yield.
- b. Gas Kick: Internal burst load of a 50 bbl gas kick at the casing with drill pipe in the hole. External force will be 10.2 ppg brine water gradient (0.531 psi/ft) and internal force will be with 10.0 ppg brine water gradient (0.521 psi/ft) with gas kick.

Tensile: $DF_T = 1.60$

a. Overpull: A tensile force of 100,000 lbs over string weight with a buoyancy factor of 0.8441 in brine water (10.2 ppg).

Production Casing

Collapse: DF_c = 1.125

- a. Full Internal Evacuation: Collapse force is equal to mud gradient (0.531 psi/ft) in which the casing will be run and internal evacuation of casing.
- b. Cementing: Collapse force is equal net force of the planned cement slurry gradient (0.688 psi/ft) in which the casing will be run and internal force equivalent to fresh water displacement gradient (0.433 psi/ft).

Burst: $DF_{B} = 1.125$

a. Pressure Test: Pressure test will be to 80% of Internal Yield Pressure of casing intended for fracture stimulation.

Tensile: $DF_T = 1.60$

Overpull: A tensile force of 100,000 lbs over string weight with a buoyancy factor of 0.8472 in oil-based mud (10.0 ppg).

Goonch Fed Com 04 231H 3-string Casing Design Assumptions

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- Tensile: $DF_T = 1.60$
 - a. Overpull: A tensile force of 100,000 lbs over string weight with a buoyancy factor of 0.8472 in oil-based mud (10.0 ppg).

TECHNICAL DATA SHEET TMK UP TMK UP™ DQX 5.5 X 20 P110

TUBULAR PARAMETERS

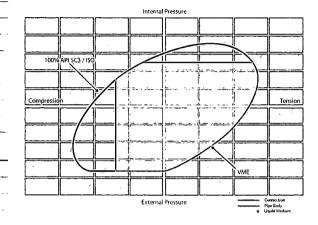
| Nominal OD, (inch) | 5.500 |
|------------------------|--------------|
| Wall Thickness, (inch) | 0.361 |
| Pipe Grade | P110 |
| Coupling | Regular |
| Coupling Grade | P110 |
| Drift | Standard |
| | - |

CONNECTION PARAMETERS

| Connection OD (inch) | 6.050 |
|--------------------------------------|--------|
| | 0.050 |
| Connection ID, (inch) | 4.778 |
| Make-Up Loss, (inch) | 4.122 |
| Connection Critical Area, (sq inch) | 8.722 |
| Yield Strength in Tension, (klbs) | 641 |
| Yeld Strength in Compression, (klbs) | 641 |
| Tension Efficiency | 100% |
| Compression Efficiency | 100% |
| Min. Internal Yield Pressure, (psi) | 12 640 |
| Collapse Pressure, (psi) | 11 110 |
| Uniaxial Bending (deg/100ft) | 92.0 |

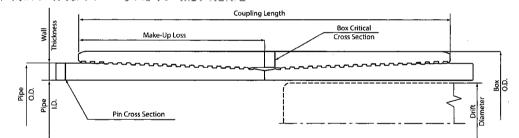
PIPE BODY PROPERTIES

| PE Weight, (lbs/ft) | 19.81 |
|-------------------------------------|---------|
| Nominal Weight, (lbs/ft) | 20.00 |
| Nominal ID, (inch) | 4.778 |
| Drift Diameter, (inch) | 4.653 |
| Nominal Pipe Body Area, (sq inch) | 5.828 |
| Yield Strength in Tension, (klbs) | 641 |
| Min. Internal Yield Pressure, (psi) | 12 640 |
| Collapse Pressure, (psi) | 11 110 |
| Minimum Yield Strength, (psi) | 110 000 |
| Minimum Tensile Strength, (psi) | 125 000 |



MAKE-UP TORQUES

| Minimum Make-Up Torque, (ft-lb) | 11 600 |
|---------------------------------|--------|
| Optimum Make-Up Torque, (ft-lb) | 12 900 |
| Maximum Make-Up Torque, (ft-lb) | 14 100 |
| Operating Torque, (ft-lb) | 17 500 |
| Yield Torque, (ft-lb) | 20 600 |
| Operating Torque, (ft-lb) | 17 500 |



NOTE: The content of this Technical Data Sheet is for general information only and does not guarantee performance or imply fitness for a particular purpose, which only a competent drilling professional can determine considering the specific installation and operation parameters. This information supersede all prior versions for this connection. Information that is printed or downloaded is no longer controlled by TMK and might not be the latest information. Anyone using the information region does so at their own risk. To verify that you have the latest technical information, please contact PAO. "TMK" Technical Sales in Russia (Tel: +7 (495) 775-76-00, Email: techsales@tmk-iproup.com) and TMK IPSCO in North America (Tel: +1 (281)949-1044, Email: techsales@tmk-ipsco.com).

Print date: 05/29/2019 00:48

Goonch Fed Com 04 231H 3-string Casing Design Assumptions

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a. Overpull: A tensile force of 100,000 lbs over string weight with a buoyancy factor of 0.8441 in brine water (10.2 ppg).

Production Casing

Collapse: DFc = 1.125

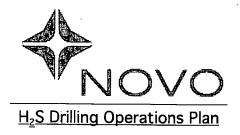
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Tensile: $DF_T = 1.60$

a. Overpull: A tensile force of 100,000 lbs over string weight with a buoyancy factor of 0.8472 in oil-based mud (10.0 ppg).



- 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 H_2S 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 H_2S and SO_2 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

1

- 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 H_2S and SO_2 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 H_2S condition sign will be set at the entrance to the pad.
- Color-coded condition flag will be installed to indicate current $\rm H_2S$ 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 H_2S 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 H_2S where formation pressures are unknown.
- vi. Metallurgy
- All equipment that has the potential to be exposed to H_2S will be suitable for H_2S 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 Department911 or (575) 745-3600Eddy County Sheriff (Carlsbad)911 (575) 887-7551Eddy County Emergency Management (Carlsbad)(575) 887-9511Carlsbad Medical Center Hospital(575) 887-4100Eddy 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 |

3

Residents within 3/4 mile

none

<u>Air Evacuation</u>

| Med Flight Air Ambulance (Albuquerque) | (800) 842-4431 |
|----------------------------------------|----------------|
| Lifeguard (Albuquerque) | (888) 866-7256 |

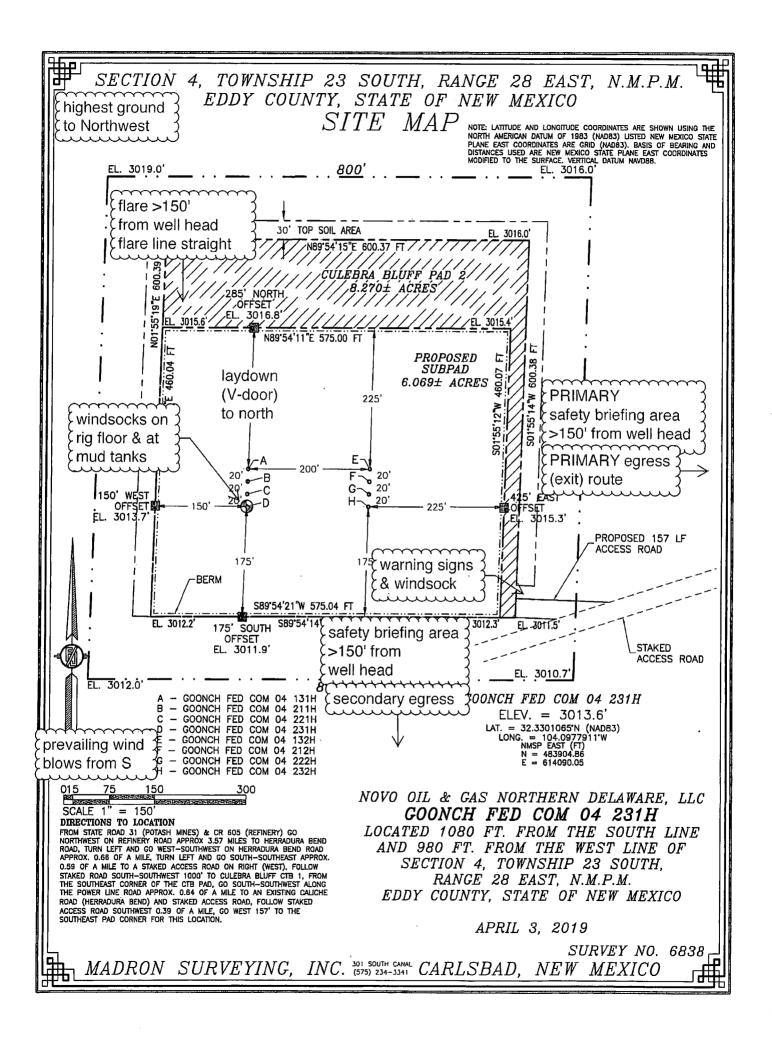
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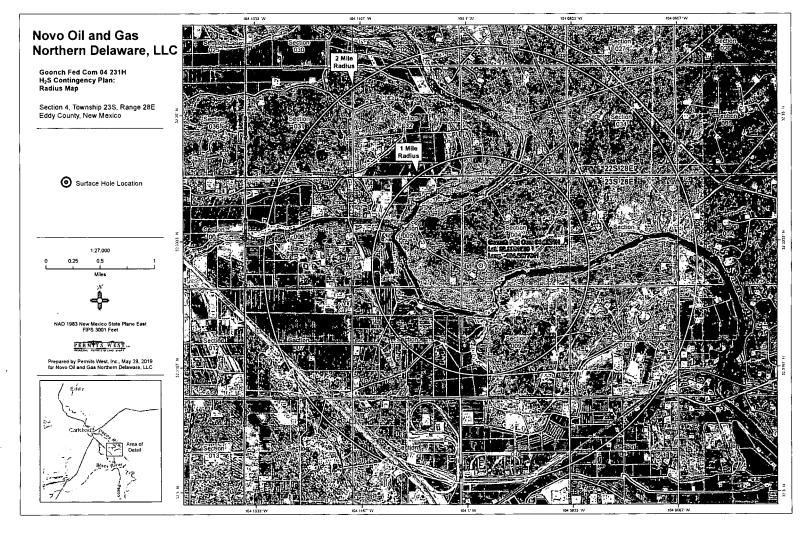
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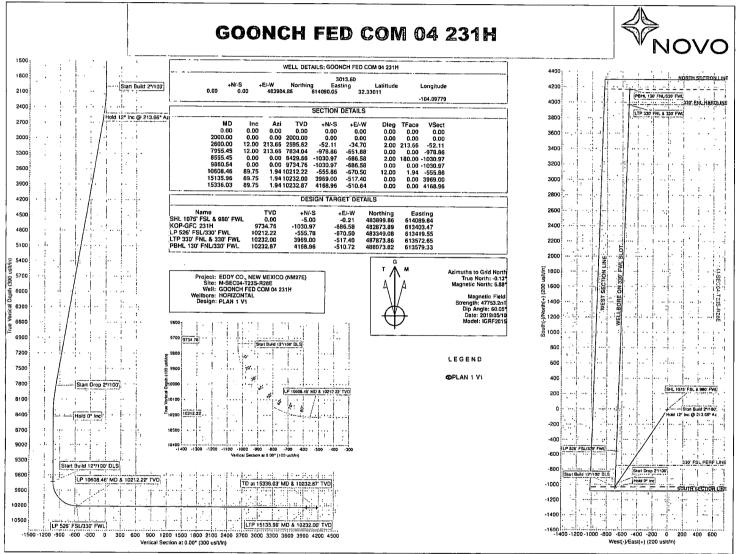
<u>Veterinarians</u>

| Desert Willow Veterinary Services (Carlsbad) | (575) 885-3399 |
|----------------------------------------------|----------------|
| Animal Care Center (Carlsbad) | (575) 885-5352 |

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NOVO OIL & GAS, LLC

EDDY CO., NEW MEXICO (NM27E) M-SEC04-T23S-R28E GOONCH FED COM 04 231H HORIZONTAL

Plan: PLAN 1 V1

D3 DRAFTING & DESIGN

10 May, 2019

| Project | EDDY CO., N | EW MEXICO | (NM27E) | | | | | |
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| Well | GOONCH FEI | D COM 04 23 | 1H | · | | | | ù. |
| Well Position Position Uncertai | +N/-S +E/-W inty | 0.00 usft 0.00 usft 0.00 usft | Northing: Easting: Wellhead El | 483,904 614,090 evation: 3,038 |).05 usfi L | .atitude: .ongitude: Ground Level: | | 32.33011 -104.09779 3,013.60 usft |
| Wellbore | HORIZONTA | Ĺ | _ 14 % _ 1 ~ | | ••••••• | • • • • • • | | · · · |
| Magnetics | Model Nar | ne S | ample Date | Declination | Dic | Angle | Field Strengt | h |
| | IGRF | | 2019/05/10 | .(°) 7.00 | | (°) 60.05 | (nT) 47,753.2103 | |
| Design | PLAN 1 V1 | | | · · · · · · · · · · · · · · · · · · · | | | 47,755.2100 | |
| Audit Notes: Version: | | . * | Phase: | , PLAN | Tio On Donth | | · · · | ¢ |
| Version: Vertical Section: | | Depth Fro | | | Tie On Depth | | | |
| | e e se sue | | | (usft) | +E/ \ W (usft) | Directio (*) | on | |
| Suivey Tool Prog | То | (us 0.0 Date 2019/0 urvey (Wellb | 95/10 | 0.00 Tool Name | 0.00 | 0.00 | | |
| Survey Tool Prog | To (usft) S | 0.0 | 00 55/10 ore) | 0.00 | 0.00 | | dard | |
| Suivey Tool Prog From (Lisft) 0.00 Planned Survey | To (usit) S 15,336.03 P | 0.0 Date '2019/0 urvey (Wellb LAN 1 V1 (HC | 00 15/10 ore) DRIZONTAL) | 0.00 Tool Name MWD | 0.00 E | 0.00 Description OWSG MWD - Stan | Sec 7 | DĽėg I00ustti |
| Suivey Tool Prog From (usft) 0.00 Planned Survey (usft) 0.00 | •To (usit) S 15,336.03 P 100 100 (*) 0.0.0 | 0.0 Date 2019/0 urvey (Wellb LAN 1 V1 (HC Azi (azi 00 | 00 15/10 ore) DRIZONTAL) Truth) 0.00 | 0.00 Tool:Name MWD IVD Usft) 0.00 | 0.00 E 0.00 | 0.00 Description OWSG MWD - Stan (W Sfft) 0.00 | Sec sft) 0.00 | 1 00usft) 0.00 |
| Survey Tool Prog From (usft) 0.00 Planned Survey (usft) 0.00 100.00 | To (usiti) S 15,336.03 P inc (?) 0. 0. 0. | 0.0 Date '2019/0 LAN 1 V1 (HC Azi (azi 00 00 | 00 15/10 DRIZONTAL) Truth) 0.00 0.00 | 0.00 Tool Name MWD (VD (VS) (usft) 0.00 100.00 | 0.00 E 0.00 0.00 0.00 | 0.00 Description OWSG MWD - Stan (W (us 0.00 0.00 | Sec (?) 0.00 0.00 | 100usft) 0.00 0.00 |
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| MD | Inc | Azi (azimuth) | TVD | N/S | E/W | V. Sec | DLeg |
|-------------------------|----------------|------------------|----------------------|----------------|----------------|----------------|------------------|
| (usft) 2,000.00 | (°) 0.00 | (°) 0.00 | (usft) 2,000.00 | (usft) 0.00 | (usft) 0.00 | (usft) 0.00 | (*/100usft) 0 |
| Start Build 2°/1 | | | 41000.00 | 0.00 | 0.00 | 0.00 | 0 |
| 2,100.00 | 2.00 | 213.66 | 2,099.98 | -1.45 | -0.97 | -1.45 | 2 |
| 2,200.00 | 4.00 | 213.66 | 2,199.84 | -5.81 | -3.87 | -5.81 | 2 |
| 2,300.00 | 6.00 | 213.66 | 2,299.45 | -13.06 | -8.70 | -13.06 | 2 |
| 2,400.00 | 8.00 | 213.66 | 2,398.70 | -23.21 | -15.45 | -23.21 | : |
| 2,500.00 | 10.00 | 213.66 | 2,497.47 | -36.22 | -24.12 | -36.22 | : |
| 2,600.00 | 12.00 | 213.66 | 2,595.62 | -52.11 | -34.70 | -52.11 | : |
| Hold 12° Inc @ 2,700.00 | | 040.00 | 0.000.44 | 00.44 | | | |
| 2,800.00 | 12.00 | 213.66 | 2,693.44 | -69.41 | -46.22 | -69.41 | t |
| | 12.00 | 213.66 | 2,791.25 | -86.72 | -57.75 | -86.72 | (|
| 2,900.00 | 12.00 | 213.66 | 2,889.07 | -104.02 | -69.27 | -104.02 | (|
| 3,000.00 | 12.00 | 213.66 | 2,986.88 | -121.33 | -80.80 | -121.33 | (|
| 3,100.00 | 12.00 | 213.66 | 3,084.70 | -138.63 | -92.32 | -138.63 | (|
| 3,200.00 | 12.00 | 213.66 | 3,182.51 | -155.94 | -103.85 | -155.94 | (|
| 3,300.00 | 12.00 | 213.66 | 3,280.33 | -173.24 | -115.37 | -173.24 | 1 |
| 3,400.00 | 12.00 | 213.66 | 3,378.14 | -190.55 | -126.89 | -190.55 | (|
| 3,500.00 | 12.00 | 213.66 | 3,475.96 | -207.85 | -138.42 | -207.85 | (|
| 3,600.00 | 12.00 | 213.66 | 3,573.77 | -225.16 | -149.94 | -225.16 | (|
| 3,700.00 | 12.00 | 213.66 | 3,671.59 | -242.46 | -161.47 | -242.46 | (|
| 3,800.00 | 12.00 | 213.66 | 3,769.40 | -259.77 | -172.99 | -259.77 | (|
| 3,900.00 | 12.00 | 213:66 | 3,867.22 | -277.07 | -184.52 | -277.07 | |
| 4,000.00 | 12.00 | 213.66 | 3,965.03 | -294.38 | -196.04 | -294.38 | (|
| 4,100.00 | 12.00 | 213.66 | 4,062.84 | -311.68 | -207.57 | -311.68 | |
| 4,200.00 | 12.00 | 213.66 | 4,160.66 | -328.99 | -219.09 | -328.99 | |
| 4,300.00 | 12.00 | 213.66 | 4,258.47 | -346.29 | -230.61 | -346.29 | |
| 4,400.00 | 12.00 | 213.66 | 4,356.29 | -363.60 | -242.14 | -363.60 | (|
| 4,500.00 | 12.00 | 213.66 | 4,454.10 | -380.90 | -253.66 | -380.90 | ſ |
| 4,600.00 | 12.00 | 213.66 | 4,551.92 | -398.21 | -265.19 | -398.21 | (|
| 4,700.00 | 12.00 | 213.66 | 4,649.73 | -415.51 | -276.71 | -415.51 | (|
| 4,800.00 | 12.00 | 213.66 | 4,747.55 | -432.82 | -288.24 | -432.82 | (|
| 4,900.00 | 12.00 | 213.66 | 4,845.36 | -450.12 | -299.76 | -450.12 | (|
| 5,000.00 | 12.00 | 213.66 | 4,943.18 | -467.42 | | | |
| 5,100.00 | 12.00 | 213.66 | 4,943.18 5,040.99 | | -311.28 | -467.42 | (|
| | | | | -484.73 | -322.81 | -484.73 | (|
| 5,200.00 | 12.00 | 213.66 | 5,138.81 | -502.03 | -334.33 | -502.03 | (|
| 5,300.00 5,400.00 | 12.00 12.00 | 213.66 213.66 | 5,236.62 | -519.34 | -345.86 | -519.34 | (|
| | | | 5,334.44 | -536.64 | -357.38 | -536.64 | (|
| 5,500.00 | 12.00 | 213.66 | 5,432.25 | -553.95 | -368.91 | -553.95 | (|
| 5,600.00 | 12.00 | 213.66 | 5,530.07 | -571.25 | -380.43 | -571.25 | (|
| 5,700.00 | 12.00 | 213.66 | 5,627.88 | -588.56 | -391.95 | -588.56 | (|
| 5,800.00 | 12.00 | 213.66 | 5,725.70 | -605.86 | -403.48 | -605.86 | (|
| 5,900.00 | 12.00 | 213.66 | 5,823.51 | -623.17 | -415.00 | -623.17 | . (|
| 6,000.00 | 12.00 | 213.66 | 5,921.32 | -640.47 | -426.53 | -640.47 | C |
| 6,100.00 | 12.00 | 213.66 | 6,019.14 | -657.78 | -438.05 | -657.78 | (|
| 6,200.00 | 12.00 | 213.66 | 6,116.95 | -675.08 | -449.58 | -675.08 | (|
| 6,300.00 | 12.00 | 213.66 | 6,214.77 | -692.39 | -461.10 | -692.39 | (|
| 6,400.00 | 12.00 | 213.66 | 6,312.58 | -709.69 | -472.62 | -709.69 | C |
| 6,500.00 | 12.00 | 213.66 | 6,410.40 | -727.00 | -484.15 | -727.00 | (|
| 6,600.00 | 12.00 | 213.66 | 6,508.21 | -744.30 | -495.67 | -744.30 | . 0 |
| 6,700.00 | 12.00 | 213.66 | 6,606.03 | -761.61 | -507.20 | -761.61 | |
| 6,800.00 | 12.00 | 213.66 | 6,703.84 | -778.91 | -518.72 | -778.91 | (|
| 6,900.00 | 12.00 | 213.66 | 6,801.66 | -796.22 | -530.25 | -796.22 | (|
| 7,000.00 | 12.00 | 213.66 | 6,899.47 | -813.52 | -541.77 | -813.52 | C |
| 7,100.00 | 12.00 | 213.66 | 6,997.29 | -830.83 | -553.30 | -830.83 | |

| 7,300,00 12.00 213.66 7,192.92 -865.44 -577.87 -865.44 0 7,500,00 12.00 213.66 7,290.73 -882.74 -557.87 -882.74 0. 7,600,00 12.00 213.66 7,480.36 -917.35 -610.92 -917.35 0. 7,600,00 12.00 213.66 7,691.46 -924.46 -934.66 -622.44 -934.66 0.0 7,800,00 12.00 213.66 7,679.81 -968.27 -666.83 -969.27 0. 7,955.45 12.00 213.66 7,779.81 -100.96 -666.83 -968.29 2. 8,000,00 11.11 213.66 7,775.13 -1,024.6 -666.58 1,000.90 2. 8,000,00 5.111 213.66 8,774.22 -1,030.97 -666.58 1,003.97 -1,01.50 2. 8,000,00 5.111 213.66 8,744.22 -1,030.97 -666.58 -1,030.97 0. 8,000,00 0.00 <t< th=""><th>Planned Survey</th><th></th><th>······································</th><th></th><th><u></u></th><th></th><th></th><th></th></t<> | Planned Survey | | ······································ | | <u></u> | | | |
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| 7,200.00 12.00 213.66 7,192.92 -965.44 -577.87 -862.74 0. 7,500.00 12.00 213.66 7,290.73 -882.74 -557.87 -882.74 0. 7,600.00 12.00 213.66 7,484.36 -917.35 -610.92 -917.35 0. 7,600.00 12.00 213.66 7,684.18 -934.66 -622.44 -934.66 0.0 7,800.00 12.00 213.66 7,783.44 -978.86 -651.85 -969.87 0. 7,955.45 12.00 213.66 7,779.81 -969.27 -665.83 -969.27 0. 8,000.00 11.11 213.66 7,975.13 -1,002.64 -476.37 -1,002.64 2. 8,000.00 5.11 213.66 8,744.22 -1,030.52 -666.28 -1,003.67 0. 8,000.00 5.11 213.66 8,744.22 -1,030.57 -666.58 -1,030.97 0. 8,000.00 5.00 0.00 8,674.22 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.00</td></td<> | | | | | | | | 0.00 |
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| 7,800.00 12.00 213.66 7,611.99 -951.96 -633.79 -951.96 0 7,900.00 12.00 213.66 7,779.81 -969.27 -645.49 -969.27 0 8,000.00 11.11 213.66 7,877.69 -968.29 -656.83 -986.29 2 8,100.00 9.11 213.66 7,976.13 -1,000.90 -666.55 -1,000.90 2 8,200.00 7.11 213.66 8,774.33 -1,021.54 -674.37 -1,012.44 2 8,000.00 3.11 213.66 8,774.29 -1,027.46 -684.24 -1,027.46 2 8,600.00 1.00 8,429.67 -1,030.97 -686.59 -1,030.97 0 8,600.00 0.00 8,474.22 -1,030.97 -686.58 -1,030.97 0 8,600.00 0.00 8,474.22 -1,030.97 -686.58 -1,030.97 0 8,600.00 0.00 8,674.22 -1,030.97 -686.58 -1,030.97 0 | | | | 7,486.36 | -917.35 | -610.92 | -917.35 | 0.00 |
| 7,900.00 12.00 213.66 7,779.81 -969.27 -645.49 -969.27 0. 7,955.45 12.00 213.66 7,834.04 -978.86 -651.88 -978.86 0. Start Prop 2*1007 8,000.00 11.11 213.66 7,976.13 -1,000.90 -866.55 -1,000.90 2 8,000.00 5.11 213.66 6,075.13 -1,012.64 -674.37 -1,012.64 2 8,400.00 3.111 213.66 8,744.25 -1,027.46 -686.28 -1,030.97 2 2 8,656.45 0.00 0.00 8,474.22 -1,030.97 -686.58 -1,030.97 0 8,670.00 0.00 8,742.2 -1,030.97 -686.58 -1,030.97 0 8,670.00 0.00 8,742.2 -1,030.97 -686.58 -1,030.97 0 9,000.00 0,00 8,674.22 -1,030.97 -686.58 -1,030.97 0 9,000.00 0,00 8,674.22 -1,030.97 -686.58 -1,030.97 0 9,000.00 0,00 | 7,700.00 | 12.00 | 213.66 | 7,584.18 | -934.66 | -622.44 | -934.66 | 0.00 |
| 7,900.00 12.00 213.66 7,779.81 -969.27 -645.49 -969.27 0. 7,955.45 12.00 213.66 7,874.64 -978.85 -651.88 -978.86 0. 8,000.00 11.11 213.66 7,877.69 -968.23 -656.55 -1,000.90 2. 8,000.00 9.111 213.66 8,075.13 -1,012.64 -674.37 -1,012.64 2. 8,000.00 5.11 213.66 8,074.25 -1,027.66 -684.24 -1,027.66 2. 8,400.00 3.111 213.66 8,374.22 -1,030.92 -686.58 -1,030.97 0. 8,555.45 0.00 0.00 8,474.22 -1,030.97 -686.58 -1,030.97 0. 8,600.00 0.00 8,674.22 -1,030.97 -686.58 -1,030.97 0. 8,600.00 0.00 8,674.22 -1,030.97 -686.58 -1,030.97 0. 9,000.00 0.00 8,674.22 -1,030.97 -6865.58 -1,030. | 7,800.00 | 12.00 | 213.66 | 7,681.99 | -951.96 | -633.97 | -951.96 | 0.00 |
| Start Drop 2*/100* 3800.00 11.11 213.66 7.877.63 -1000.90 -556.83 -986.29 2 8,100.00 9.111 213.66 7.976.13 -1,000.90 -666.55 -1,000.90 2 8,200.00 7.11 213.66 8.075.13 -1,012.44 -677.37 -1,012.64 2 8,300.00 5.111 213.66 8.274.29 -1,027.45 -684.24 -1,027.46 2 8,500.00 1.11 213.66 8.374.22 -1,030.97 -686.58 -1,030.97 2 8,600.00 0.00 8.474.22 -1,030.97 -686.58 -1,030.97 0 8,600.00 0.00 8.674.22 -1,030.97 -686.58 -1,030.97 0 8,600.00 0.00 0.00 8.674.22 -1,030.97 -686.58 -1,030.97 0 9,000.00 0.00 8.674.22 -1,030.97 -686.58 -1,030.97 0 9,000.00 0.00 8.674.22 -1,030.97 -686.58 - | 7,900.00 | 12.00 | 213.66 | 7,779.81 | -969.27 | -645.49 | -969.27 | 0.00 |
| 8.000.00 11.11 213.66 7,877.69 -966.29 -666.83 -966.29 2 8.100.00 9.11 213.66 7,976.13 -1,002.80 -666.55 -1,000.90 2 8.200.00 5.11 213.66 8,075.13 -1,012.64 -664.55 -1,021.50 -880.27 -1,021.50 2 8.300.00 5.11 213.66 8,747.29 -1,027.66 -686.28 -1,030.52 2 8.555.45 0.00 0.00 8,474.22 -1,030.97 -686.58 -1,030.97 0 8.600.00 0.00 8,674.22 -1,030.97 -686.58 -1,030.97 0 8.600.00 0.00 8,674.22 -1,030.97 -686.58 -1,030.97 0 8.600.00 0.00 8,674.22 -1,030.97 -686.58 -1,030.97 0 9,000.00 0.00 8,674.22 -1,030.97 -686.58 -1,030.97 0 9,000.00 0.00 8,974.22 -1,030.97 -686.58 -1,030.97 </td <td></td> <td></td> <td>213.66</td> <td>7,834.04</td> <td>-978.86</td> <td>-651.88</td> <td>-978.86</td> <td>0.00</td> | | | 213.66 | 7,834.04 | -978.86 | -651.88 | -978.86 | 0.00 |
| 8,100.00 9,11 213.66 7,976.13 -1,000.90 -666.55 -1,000.90 2 8,200.00 7,11 213.66 8,075.13 -1,012.64 -674.37 -1,012.64 2 8,400.00 3.11 213.66 8,274.29 -1,027.46 -686.28 -1,027.46 2 8,400.00 1.11 213.66 8,274.29 -1,027.45 -686.28 -1,030.52 2 8,556.45 0.00 0.00 8,429.67 -1,030.97 -686.58 -1,030.97 0 8,600.00 0.00 8,674.22 -1,030.97 -686.58 -1,030.97 0 8,600.00 0.00 0.00 8,674.22 -1,030.97 -686.58 -1,030.97 0 8,900.00 0.00 0.00 8,74.22 -1,030.97 -686.58 -1,030.97 0 9,000.00 0.00 9,074.22 -1,030.97 -686.58 -1,030.97 0 9,100.00 0.00 9,074.22 -1,030.97 -686.58 -1,030.97 | | | 213.66 | 7,877.69 | -986.29 | -656.83 | -986.29 | 2.00 |
| 8.200.00 7.11 213.66 8.075.13 -1.012.64 -674.37 -1.012.64 22 8.400.00 5.11 213.66 8.174.56 -1.021.50 -680.27 -1.021.50 2 8.400.00 3.11 213.66 8.274.29 -1.030.97 -686.58 -1.030.97 2 8.555.45 0.00 0.00 8.429.67 -1.030.97 -686.58 -1.030.97 0 8.600.00 0.00 8.674.22 -1.030.97 -686.58 -1.030.97 0 8.700.00 0.00 8.674.22 -1.030.97 -686.58 -1.030.97 0 8.800.00 0.00 8.674.22 -1.030.97 -686.58 -1.030.97 0 9.000.00 0.00 8.674.22 -1.030.97 -686.58 -1.030.97 0 9.000.00 0.00 8.974.22 -1.030.97 -686.58 -1.030.97 0 9.000.00 0.00 9.074.22 -1.030.97 -686.58 -1.030.97 0 9.300.00 | 8,100.00 | 9.11 | 213.66 | 7,976.13 | -1.000.90 | -666.55 | -1.000.90 | 2.00 |
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| 8,555.45 0.00 0.00 8,429.67 -1,030.97 -686.58 -1,030.97 2 Hold 0* Inc 0.00 0.00 8,474.22 -1,030.97 -686.58 -1,030.97 0 8,000.00 0.00 0.00 8,574.22 -1,030.97 -686.58 -1,030.97 0 8,000.00 0.00 0.00 8,674.22 -1,030.97 -686.58 -1,030.97 0 9,000.00 0.00 0.00 8,774.22 -1,030.97 -686.58 -1,030.97 0 9,000.00 0.00 0.00 8,774.22 -1,030.97 -686.58 -1,030.97 0 9,100.00 0.00 0.00 9,074.22 -1,030.97 -686.58 -1,030.97 0 9,200.00 0.00 0.00 9,774.22 -1,030.97 -686.58 -1,030.97 0 9,300.00 0.00 9,074.22 -1,030.97 -686.58 -1,030.97 0 9,600.00 0.00 9,774.22 <th1,030.97< th=""> -686.58 -</th1,030.97<> | 1 . | | | , | | | • | 2.00 |
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| 8,600.00 0.00 8,474.22 -1,030.97 -686.58 -1,030.97 0. 8,700.00 0.00 0.00 8,574.22 -1,030.97 -686.58 -1,030.97 0. 8,800.00 0.00 0.00 8,674.22 -1,030.97 -686.58 -1,030.97 0. 8,900.00 0.00 0.00 8,774.22 -1,030.97 -686.58 -1,030.97 0. 9,000.00 0.00 0.00 8,974.22 -1,030.97 -686.58 -1,030.97 0. 9,200.00 0.00 9,074.22 -1,030.97 -686.58 -1,030.97 0. 9,300.00 0.00 9,074.22 -1,030.97 -686.58 -1,030.97 0. 9,400.00 0.00 0.00 9,74.22 -1,030.97 -686.58 -1,030.97 0. 9,500.00 0.00 0.00 9,374.22 -1,030.97 -686.58 -1,030.97 0. 9,500.00 0.00 9,374.22 -1,030.97 -686.58 -1,030.97 0. | | 0.00 | 0.00 | 8,429.67 | -1,030.97 | -686.58 | -1,030.97 | 2.00 |
| 8,700.00 0.00 8,574.22 -1,030.97 -686.58 -1,030.97 0 8,800.00 0.00 0.00 8,674.22 -1,030.97 -686.58 -1,030.97 0 9,000.00 0.00 8,774.22 -1,030.97 -686.58 -1,030.97 0 9,000.00 0.00 8,774.22 -1,030.97 -686.58 -1,030.97 0 9,100.00 0.00 0.00 8,974.22 -1,030.97 -686.58 -1,030.97 0 9,200.00 0.00 9,074.22 -1,030.97 -686.58 -1,030.97 0 9,400.00 0.00 9,274.22 -1,030.97 -686.58 -1,030.97 0 9,600.00 0.00 9,274.22 -1,030.97 -686.58 -1,030.97 0 9,600.00 0.00 9,374.22 -1,030.97 -686.58 -1,030.97 0 9,600.00 0.00 9,474.22 -1,030.97 -686.58 -1,030.97 0 9,800.00 0.00 0.00 <td< td=""><td></td><td>0.00</td><td>0.00</td><td>8 474 22</td><td>-1 030 97</td><td>-686 58</td><td>-1 030 07</td><td>0.00</td></td<> | | 0.00 | 0.00 | 8 474 22 | -1 030 97 | -686 58 | -1 030 07 | 0.00 |
| 8,800.00 0.00 8,674.22 1,030.97 -686.58 -1,030.97 0.00 9,000.00 0.00 8,674.22 -1,030.97 -686.58 -1,030.97 0.00 9,000.00 0.00 8,674.22 -1,030.97 -686.58 -1,030.97 0.00 9,100.00 0.00 0.00 8,974.22 -1,030.97 -686.58 -1,030.97 0.00 9,200.00 0.00 0.00 9,074.22 -1,030.97 -686.58 -1,030.97 0.00 9,400.00 0.00 0.00 9,274.22 -1,030.97 -686.58 -1,030.97 0.00 9,600.00 0.00 0.00 9,374.22 -1,030.97 -686.58 -1,030.97 0.00 9,600.00 0.00 0.00 9,474.22 -1,030.97 -686.58 -1,030.97 0.00 9,700.00 0.00 0.00 9,574.22 -1,030.97 -686.58 -1,030.97 0.00 9,700.00 0.00 0.00 9,674.22 -1,030.97 -686.58 <t< td=""><td></td><td></td><td></td><td></td><td>•</td><td></td><td>•</td><td>0.00</td></t<> | | | | | • | | • | 0.00 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 8 800 00 | | | · | | | | |
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| 9,300.00 0.00 9,174.22 -1,030.97 -686.58 -1,030.97 0. 9,400.00 0.00 9,274.22 -1,030.97 -686.58 -1,030.97 0. 9,500.00 0.00 9,374.22 -1,030.97 -686.58 -1,030.97 0. 9,600.00 0.00 9,374.22 -1,030.97 -686.58 -1,030.97 0. 9,700.00 0.00 9,574.22 -1,030.97 -686.58 -1,030.97 0. 9,800.00 0.00 9,674.22 -1,030.97 -686.58 -1,030.97 0. 9,800.00 0.00 9,674.22 -1,030.97 -686.58 -1,030.97 0. 9,800.00 0.00 0.00 9,747.22 -1,030.97 -686.58 -1,030.97 0. 9,800.00 0.00 0.00 9,747.17 -1,022.63 -686.58 -1,030.75 12. 9,900.00 4.73 1.94 9,749.21 -1,026.63 -686.52 -1,029.34 12. 9,950.00 10.73 <td></td> <td></td> <td></td> <td>•</td> <td>-</td> <td></td> <td>-1,030.97</td> <td>0.00</td> | | | | • | - | | -1,030.97 | 0.00 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | -1,030.97 | -686.58 | | 0.00 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | -1,030.97 | -686.58 | -1,030.97 | 0.00 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 9,400.00 | 0.00 | 0.00 | 9,274.22 | -1,030.97 | -686.58 | -1,030.97 | 0.00 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 9,500.00 | 0.00 | 0.00 | 9,374.22 | -1,030.97 | -686.58 | -1,030.97 | 0.00 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 9,600.00 | 0.00 | 0.00 | 9,474.22 | -1,030.97 | -686.58 | -1,030.97 | 0.00 |
| 9,860.540.000.009,734.76-1,030.97-686.58-1,030.970.Start Build 12'/100' DLS9,875.001.731.949,749.21-1,030.75-686.57-1,030.7512.9,900.004.731.949,774.17-1,029.34-686.52-1,029.3412.9,925.007.731.949,799.02-1,026.63-686.43-1,022.6212.9,950.0010.731.949,823.69-1,022.62-686.30-1,022.6212.9,975.0013.731.949,848.12-1,017.32-686.12-1,017.3212.10,000.0016.731.949,872.24-1,010.76-685.90-1,010.7612.10,025.0019.731.949,895.98-1,002.94-685.63-1,002.9412.10,050.0022.731.949,919.28-993.89-685.33-993.8912.10,075.0025.731.949,964.30-972.21-684.59-972.2112.10,100.0028.731.949,965.90-559.63-684.17-959.6312.10,150.0031.731.949,965.90-959.63-683.70-945.9312.10,150.0034.731.9410,026.97-931.17-683.20-931.1712.10,200.0040.731.9410,026.97-931.17-683.20-931.1712.10,225.0043.731.9410,064.84-898.57-682.10-898.5712. <td>9,700.00</td> <td>0.00</td> <td>0.00</td> <td>9,574.22</td> <td>-1,030.97</td> <td>-686.58</td> <td>-1,030.97</td> <td>0.00</td> | 9,700.00 | 0.00 | 0.00 | 9,574.22 | -1,030.97 | -686.58 | -1,030.97 | 0.00 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 9,800.00 | 0.00 | 0.00 | 9,674.22 | -1.030.97 | -686.58 | -1.030.97 | 0.00 |
| Start Build 12°/100' DLS 9,875.00 1.73 1.94 9,749.21 -1,030.75 -686.57 -1,030.75 12, 9,900.00 4.73 1.94 9,774.17 -1,029.34 -686.52 -1,029.34 12, 9,925.00 7.73 1.94 9,799.02 -1,026.63 -686.43 -1,026.63 12, 9,950.00 10.73 1.94 9,823.69 -1,022.62 -686.30 -1,022.62 12, 9,975.00 13.73 1.94 9,843.12 -1,017.32 -686.12 -1,017.32 12, 10,000.00 16.73 1.94 9,872.24 -1,010.76 -685.90 -1,010.76 12, 10,025.00 19.73 1.94 9,875.98 -1,002.94 -685.63 -1,002.94 12, 10,050.00 22.73 1.94 9,942.08 -993.89 -685.33 -993.89 12, 10,075.00 25.73 1.94 9,942.08 -983.64 -684.98 -983.64 12, 10,010.00 <td>9,860.54</td> <td>0.00</td> <td>0.00</td> <td></td> <td></td> <td></td> <td></td> <td>0.00</td> | 9,860.54 | 0.00 | 0.00 | | | | | 0.00 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Start Build 12°/ | 100' DLS | | , , | | | | |
| 9,900.004.731.949,774.17-1,029.34-686.52-1,029.3412.9,925.007.731.949,799.02-1,026.63-686.43-1,026.6312.9,950.0010.731.949,823.69-1,022.62-686.30-1,022.6212.9,975.0013.731.949,848.12-1,017.32-686.12-1,017.3212.10,000.0016.731.949,872.24-1,010.76-685.90-1,010.7612.10,025.0019.731.949,895.98-1,002.94-685.63-1,002.9412.10,050.0022.731.949,919.28-993.89-685.33-993.8912.10,075.0025.731.949,942.08-983.64-684.98-983.6412.10,100.0028.731.949,964.30-972.21-684.59-972.2112.10,125.0031.731.949,985.90-959.63-684.17-959.6312.10,150.0034.731.9410,06.81-945.93-683.70-945.9312.10,175.0037.731.9410,026.97-931.17-683.20-931.1712.10,200.0040.731.9410,046.33-915.36-682.67-915.3612.10,225.0043.731.9410,064.84-898.57-682.10-898.5712. | 0.075.00 | | 1.94 | 9,749.21 | -1,030,75 | -686.57 | -1.030.75 | 12.00 |
| 9,925.007.731.949,799.02-1,026.63-686.43-1,026.6312.9,950.0010.731.949,823.69-1,022.62-686.30-1,022.6212.9,975.0013.731.949,848.12-1,017.32-686.12-1,017.3212.10,000.0016.731.949,872.24-1,010.76-685.90-1,010.7612.10,025.0019.731.949,895.98-1,002.94-685.63-1,002.9412.10,050.0022.731.949,919.28-993.89-685.33-993.8912.10,075.0025.731.949,942.08-983.64-684.98-983.6412.10,075.0025.731.949,964.30-972.21-684.59-972.2112.10,100.0028.731.949,985.90-959.63-683.70-945.9312.10,125.0031.731.9410,06.81-945.93-683.70-945.9312.10,175.0037.731.9410,026.97-931.17-683.20-931.1712.10,200.0040.731.9410,046.33-915.36-682.67-915.3612.10,225.0043.731.9410,064.84-898.57-682.10-898.5712. | | | | | | | , | 12.00 |
| 9,975.00 13.73 1.94 9,848.12 -1,017.32 -686.12 -1,017.32 12. 10,000.00 16.73 1.94 9,872.24 -1,010.76 -685.90 -1,010.76 12. 10,025.00 19.73 1.94 9,895.98 -1,002.94 -685.63 -1,002.94 12. 10,050.00 22.73 1.94 9,919.28 -993.89 -685.33 -993.89 12. 10,075.00 25.73 1.94 9,942.08 -983.64 -684.98 -983.64 12. 10,075.00 25.73 1.94 9,964.30 -972.21 -684.59 -972.21 12. 10,100.00 28.73 1.94 9,985.90 -959.63 -684.17 -959.63 12. 10,125.00 31.73 1.94 9,985.90 -959.63 -684.17 -959.63 12. 10,150.00 34.73 1.94 10,026.97 -931.17 -683.20 -931.17 12. 10,200.00 40.73 1.94 10,026.97 -931.17 -683.20 -931.17 12. 10,225.00 43.73 </td <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td>12.00</td> | | | | | • | | | 12.00 |
| 9,975.0013.731.949,848.12-1,017.32-686.12-1,017.3212.10,000.0016.731.949,872.24-1,010.76-685.90-1,010.7612.10,025.0019.731.949,895.98-1,002.94-685.63-1,002.9412.10,050.0022.731.949,919.28-993.89-685.33-993.8912.10,075.0025.731.949,942.08-983.64-684.98-983.6412.10,100.0028.731.949,964.30-972.21-684.59-972.2112.10,125.0031.731.949,985.90-959.63-684.17-959.6312.10,150.0034.731.9410,066.81-945.93-683.70-945.9312.10,175.0037.731.9410,026.97-931.17-683.20-931.1712.10,200.0040.731.9410,046.33-915.36-682.67-915.3612.10,225.0043.731.9410,064.84-898.57-682.10-898.5712. | 9,950.00 | 10.73 | 1.94 | 9,823.69 | -1,022.62 | -686.30 | -1,022.62 | 12.00 |
| 10,000.0016.731.949,872.24-1,010.76-685.90-1,010.7612.10,025,0019.731.949,895.98-1,002.94-685.63-1,002.9412.10,050.0022.731.949,919.28-993.89-685.33-993.8912.10,075.0025.731.949,942.08-983.64-684.98-983.6412.10,100.0028.731.949,964.30-972.21-684.59-972.2112.10,125.0031.731.949,985.90-959.63-684.17-959.6312.10,150.0034.731.9410,006.81-945.93-683.70-945.9312.10,175.0037.731.9410,026.97-931.17-683.20-931.1712.10,200.0040.731.9410,046.33-915.36-682.67-915.3612.10,225.0043.731.9410,064.84-898.57-682.10-898.5712. | 9,975.00 | 13.73 | | | | | | 12.00 |
| 10,025,0019.731.949,895.98-1,002.94-685.63-1,002.9412.10,050.0022.731.949,919.28-993.89-685.33-993.8912.10,075.0025.731.949,942.08-983.64-684.98-983.6412.10,100.0028.731.949,964.30-972.21-684.59-972.2112.10,125.0031.731.949,985.90-959.63-684.17-959.6312.10,150.0034.731.9410,006.81-945.93-683.70-945.9312.10,175.0037.731.9410,026.97-931.17-683.20-931.1712.10,200.0040.731.9410,046.33-915.36-682.67-915.3612.10,225.0043.731.9410,064.84-898.57-682.10-898.5712. | 10,000.00 | | | | | | | 12.00 |
| 10,050.0022.731.949,919.28-993.89-685.33-993.8912.10,075.0025.731.949,942.08-983.64-684.98-983.6412.10,100.0028.731.949,964.30-972.21-684.59-972.2112.10,125.0031.731.949,985.90-959.63-684.17-959.6312.10,150.0034.731.9410,006.81-945.93-683.70-945.9312.10,175.0037.731.9410,026.97-931.17-683.20-931.1712.10,200.0040.731.9410,046.33-915.36-682.67-915.3612.10,225.0043.731.9410,064.84-898.57-682.10-898.5712. | | | | | | | | 12.00 |
| 10,100.00 28.73 1.94 9,964.30 -972.21 -684.59 -972.21 12. 10,125.00 31.73 1.94 9,985.90 -959.63 -684.17 -959.63 12. 10,150.00 34.73 1.94 10,006.81 -945.93 -683.70 -945.93 12. 10,175.00 37.73 1.94 10,026.97 -931.17 -683.20 -931.17 12. 10,200.00 40.73 1.94 10,046.33 -915.36 -682.67 -915.36 12. 10,225.00 43.73 1.94 10,064.84 -898.57 -682.10 -898.57 12. | | | | | | | | 12.00 |
| 10,100.00 28.73 1.94 9,964.30 -972.21 -684.59 -972.21 12. 10,125.00 31.73 1.94 9,985.90 -959.63 -684.17 -959.63 12. 10,150.00 34.73 1.94 10,006.81 -945.93 -683.70 -945.93 12. 10,175.00 37.73 1.94 10,026.97 -931.17 -683.20 -931.17 12. 10,200.00 40.73 1.94 10,046.33 -915.36 -682.67 -915.36 12. 10,225.00 43.73 1.94 10,064.84 -898.57 -682.10 -898.57 12. | 10,075.00 | 25.73 | 1.94 | 9,942.08 | -983.64 | -684.98 | -983.64 | 12.00 |
| 10,125.00 31.73 1.94 9,985.90 -959.63 -684.17 -959.63 12. 10,150.00 34.73 1.94 10,006.81 -945.93 -683.70 -945.93 12. 10,175.00 37.73 1.94 10,026.97 -931.17 -683.20 -931.17 12. 10,200.00 40.73 1.94 10,046.33 -915.36 -682.67 -915.36 12. 10,225.00 43.73 1.94 10,064.84 -898.57 -682.10 -898.57 12. | | | | | | | | 12.00 |
| 10,150.0034.731.9410,006.81-945.93-683.70-945.9312.10,175.0037.731.9410,026.97-931.17-683.20-931.1712.10,200.0040.731.9410,046.33-915.36-682.67-915.3612.10,225.0043.731.9410,064.84-898.57-682.10-898.5712. | | | | - | | | | 12.00 |
| 10,175.0037.731.9410,026.97-931.17-683.20-931.1712.10,200.0040.731.9410,046.33-915.36-682.67-915.3612.10,225.0043.731.9410,064.84-898.57-682.10-898.5712. | | | | - | | | | |
| 10,225.00 43.73 1.94 10,064.84 -898.57 -682.10 -898.57 12. | | | | | | | | 12.00 |
| 10,225.00 43.73 1.94 10,064.84 -898.57 -682.10 -898.57 12. | 10 200 00 | 40.73 | 1.94 | 10 046 33 | -915 36 | -682 67 | -015 36 | 12.00 |
| | | | | | | | | 12.00 |
| 10,200,00 40,70 1.94 10,02.44 -000.03 -001.30 -880.83 12. | | | | | | | | |
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| 10,375.00 61.73 1.94 10,155.29 -779.75 -678.08 -779.75 12. | 10,375.00 | 61.73 | 1.94 | 10,155.29 | -779.75 | -678.08 | -779.75 | 12.00 |

COMPASS 5000.15 Build 91

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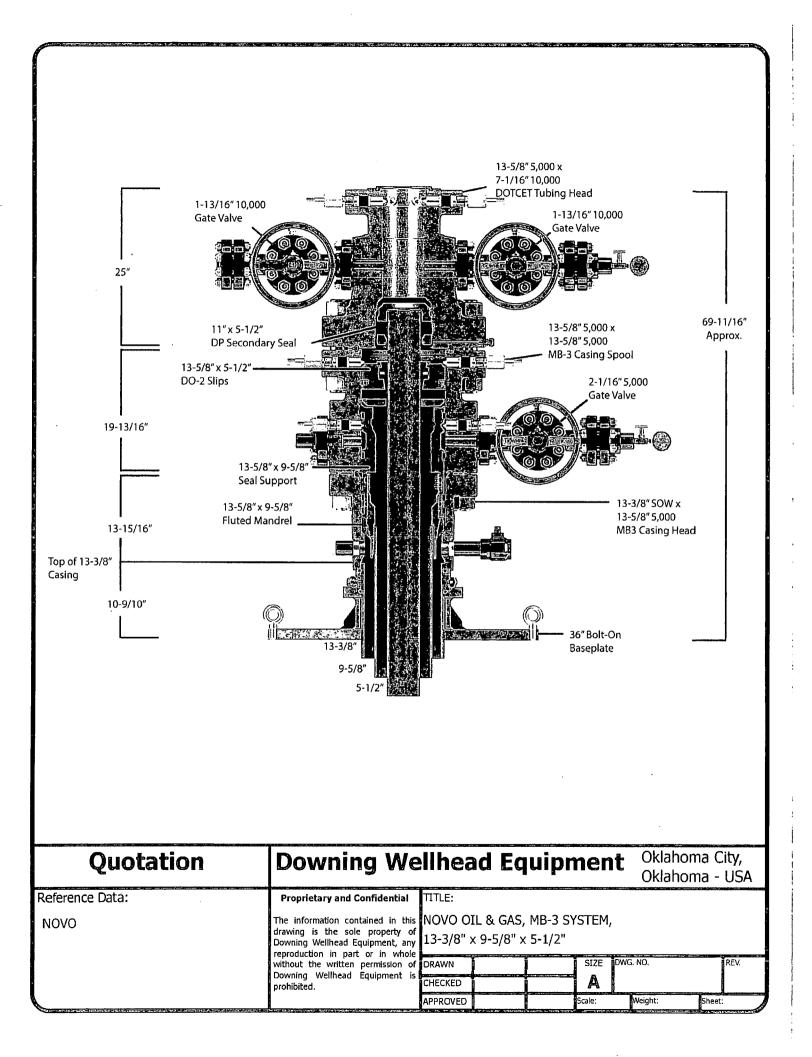
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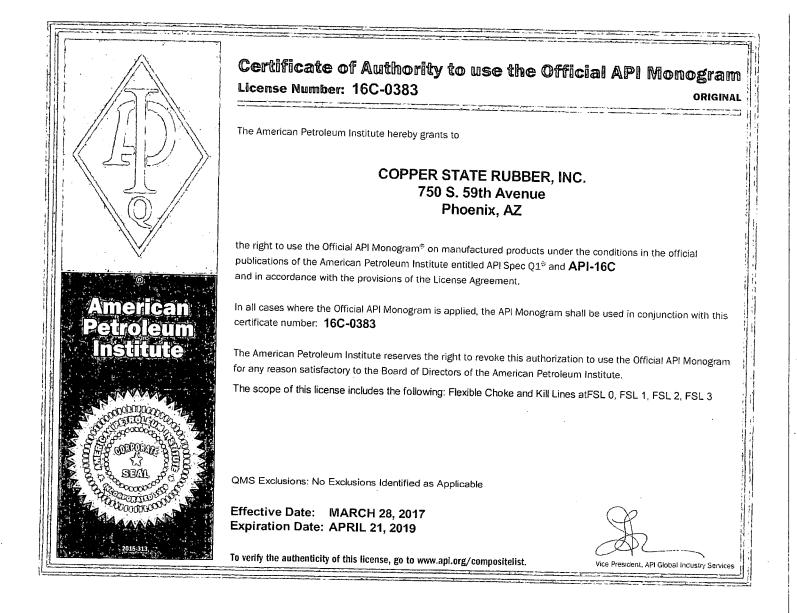
| Planned Survey | | | | | | | |
|----------------|------------------|----------------------|---------------|---------------|---------------|------------------|---------------------|
| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100usft) |
| 10,400.00 | 64.73 | 1.94 | 10,166.55 | -757.45 | -677.33 | -757.45 | 12.00 |
| 10,425.00 | 67.73 | 1.94 | 10,176.63 | -734.58 | -676.55 | -734.58 | 12.00 |
| 10,450.00 | 70.73 | 1.94 | 10,185.49 | -711.22 | -675.76 | -711.22 | 12.00 |
| 10,475.00 | 73.73 | 1.94 | 10,193.11 | -687.43 | -674.96 | -687.43 | 12.00 |
| 10,500.00 | 76.73 | 1.94 | 10,199.49 | -663.27 | -674.14 | -663.27 | 12.00 |
| 10,525.00 | 79.73 | 1.94 | 10,204.58 | -638.82 | -673.31 | -638.82 | 12.00 |
| 10,550.00 | 82.73 | 1.94 | 10,208.39 | -614.12 | -672.48 | -614.12 | 12.00 |
| 10,575.00 | 85.73 | 1.94 | 10,210.90 | -589.27 | -671.63 | -589.27 | 12.00 |
| 10,600.00 | 88.73 | 1.94 | 10,212.11 | -564.31 | -670.79 | -564.31 | 12.00 |
| 10,608.46 | 89.75 | 1.94 | 10,212.22 | -555.86 | -670.50 | -555.86 | 12.00 |
| LP 10608.46' N | ID & 10212.22' 1 | TVD | | | | | |
| 10,700.00 | 89.75 | 1.94 | 10,212.62 | 464.37 | -667.41 | -464.37 | 0.00 |
| 10,800.00 | 89.75 | 1.94 | 10,213.06 | -364.43 | -664.03 | -364.43 | 0.00 |
| 10,900.00 | 89.75 | 1.94 | 10,213.49 | -264.49 | -660.65 | -264.49 | 0.00 |
| 11,000.00 | 89.75 | 1.94 | 10,213.93 | -164.55 | -657.26 | -164.55 | 0.00 |
| 11,100.00 | 89.75 | 1.94 | 10,214.37 | -64.61 | -653.88 | -64.61 | 0.00 |
| 11,200.00 | 89.75 | 1.94 | 10,214.80 | 35.34 | -650.50 | 35.34 | 0.00 |
| 11,300.00 | 89.75 | 1.94 | 10,215.24 | 135.28 | -647.12 | 135.28 | 0.00 |
| 11,400.00 | 89.75 | 1.94 | 10,215.68 | 235.22 | -643.74 | 235.22 | 0.00 |
| 11,500.00 | 89.75 | 1.94 | 10,216.12 | 335.16 | -640.36 | 335.16 | 0.00 |
| 11,600.00 | 89.75 | 1.94 | 10,216.55 | 435.10 | -636.97 | 435.10 | 0.00 |
| 11,700.00 | 89.75 | 1.94 | 10,216.99 | 535.05 | -633.59 | 535.05 | 0.00 |
| 11,800.00 | 89.75 | 1.94 | 10,217.43 | 634.99 | -630.21 | 634.99 | 0.00 |
| 11,900.00 | 89.75 | 1.94 | 10,217.86 | 734.93 | -626.83 | 734.93 | 0.00 |
| 12,000.00 | 89.75 | 1.94 | 10,218.30 | 834.87 | -623.45 | 834.87 | 0.00 |
| 12,100.00 | 89.75 | 1.94 | 10,218.74 | 934.81 | -620.07 | 934.81 | 0.00 |
| 12,200.00 | 89.75 | 1.94 | 10,219.17 | 1,034.75 | -616.69 | 1,034.75 | 0.00 |
| 12,300.00 | 89.75 | 1.94 | 10,219.61 | 1,134.70 | -613.30 | 1,134.70 | 0.00 |
| 12,400.00 | 89.75 | 1.94 | 10,220.05 | 1,234.64 | -609.92 | 1,234.64 | 0.00 |
| 12,500.00 | 89.75 | 1.94 | 10,220.48 | 1,334.58 | -606,54 | 1,334.58 | 0.00 |
| 12,600.00 | 89.75 | 1.94 | 10,220.92 | 1,434.52 | -603.16 | 1,434.52 | 0.00 |
| 12,700.00 | 89.75 | 1.94 | 10,221.36 | 1,534.46 | -599.78 | 1,534.46 | 0.00 |
| 12,800.00 | 89.75 | 1.94 | 10,221.79 | 1,634.41 | -596.40 | 1,634.41 | 0.00 |
| 12,900.00 | 89.75 | 1.94 | 10,222.23 | 1,734.35 | -593.01 | 1,734.35 | 0.00 |
| 13,000.00 | 89.75 | 1.94 | 10,222.67 | 1,834.29 | -589.63 | 1,834.29 | 0.00 |
| 13,100.00 | 89.75 | 1.94 | 10,223.11 | 1,934.23 | -586.25 | 1,934.23 | 0.00 |
| 13,200.00 | 89.75 | 1.94 | 10,223.54 | 2,034.17 | -582.87 | 2,034.17 | 0.00 |
| 13,300.00 | 89.75 | 1.94 | 10,223.98 | 2,134.11 | -579.49 | 2,134.11 | 0.00 |
| 13,400.00 | 89.75 | 1.94 | 10,224.42 | 2,234.06 | -576.11 | 2,234.06 | 0.00 |
| 13,500.00 | 89.75 | 1.94 | 10,224.85 | 2,334.00 | -572.72 | 2,334.00 | 0.00 |
| 13,600.00 | 89.75 | 1.94 | 10,225.29 | 2,433.94 | -569.34 | 2,433.94 | 0.00 |
| 13,700.00 | 89.75 | 1.94 | 10,225.73 | 2,533.88 | -565.96 | 2,533.88 | 0.00 |
| 13,800.00 | 89.75 | 1.94 | 10,226.16 | 2,633.82 | -562.58 | 2,633.82 | 0.00 |
| 13,900.00 | 89.75 | 1.94 | 10,226.60 | 2,733.77 | -559.20 | 2,733.77 | 0.00 |
| 14,000.00 | 89.75 | 1.94 | 10,227.04 | 2,833.71 | -555.82 | 2,833.71 | 0.00 |
| 14,100.00 | 89.75 | 1.94 | 10,227.47 | 2,933.65 | -552.44 | 2,933.65 | 0.00 |
| 14,200.00 | · 89.75 | 1.94 | 10,227.91 | 3,033.59 | -549.05 | 3,033.59 | 0.00 |
| 14,300.00 | 89.75 | 1.94 | 10,228.35 | 3,133.53 | -545.67 | 3,133.53 | 0.00 |
| 14,400.00 | 89.75 | 1.94 | 10,228.78 | 3,233.48 | -542.29 | 3,233.48 | 0.00 |
| 14,500.00 | 89.75 | 1.94 | 10,229.22 | 3,333.42 | -538.91 | 3,333.42 | 0.00 |
| 14,600.00 | 89.75 | 1.94 | 10,229.66 | 3,433.36 | -535.53 | 3,433.36 | 0.00 |
| 14,700.00 | 89.75 | 1.94 | 10,230.10 | 3,533.30 | -532.15 | 3,533.30 | 0.00 |
| 14,800.00 | 89.75 | 1.94 | 10,230.53 | 3,633.24 | -528.76 | 3,633.24 | 0.00 |
| 14,900.00 | 89.75 | 1.94 | 10,230.97 | 3,733.18 | -525.38 | 3,733.18 | 0.00 |

COMPASS 5000.15 Build 91

| MD (usft) | Inc (°) | Azi (azimuth) (°) | TVD (usft) | N/S (usft) | E/W (usft) | V. Sec (usft) | DLeg (°/100usft) |
|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------|---------------------|
| 15,000.00 | 89.75 | 1.94 | 10,231.41 | 3,833.13 | -522.00 | 3,833.13 | 0 |
| 15,100.00 | 89.75 | 1.94 | 10,231.84 | 3,933.07 | -518.62 | 3,933.07 | 0 |
| 15,135.96 | 89.75 | 1.94 | 10,232.00 | 3,969.01 | -517.40 | 3,969.01 | 0 |
| LTP 15135.96' MI | 0 & 10232.00' | TVD | | | | · | - |
| 15,200.00 | 89.75 | 1.94 | 10,232.28 | 4,033.01 | -515.24 | 4,033.01 | 0 |
| 15,300.00 | 89.75 | 1.94 | 10,232.72 | 4,132.95 | -511.86 | 4,132.95 | 0 |
| 15,336.03 | 89.75 | 1.94 | 10,232.87 | 4,168,96 | -510.64 | 4,168.96 | 0 |
| TD at 15336.03' M | | | 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1. | | | | |
| Añnotations Measured Depth | Vertical Depth | Local Co +N/S | ordinates +E/.W | Comment | | | |
| Afinotations Measured Depth (usit) | Vertical Depth (usft) | Local Co +N/S (usft) | +E/-W (usft) - | Comment | | | |
| Afinotations Measured Depth (usit) 2,000.00 | Vertical Depth (usft) 0 2,000.0 | Local Co +N/-S (usft) 0 0.00 | + E/-W (usft) 0.00 | Start Build 2°/100 | | | |
| Afinotations Measured Depth (usit) | Vertical Depth (usft)) 2,000.0) 2,595.6 | Local Co +N/-S (usft) 0 0.00 2 -52.11 | +E/ W (usft) 0.00 -34.70 | Start Build 2°/100 Hold 12° Inc @ 2 | 13.66° Az | | |
| Añnotations Measured Depth (usit) 2,000.00 2,600.00 | Vertical Depth (usft) 0 2,000.0 2,595.6 5 7,834.0 | Local Co (ust) 0 0.00 2 -52.11 4 -978.86 | + E/-W (usft) 0.00 | Start Build 2°/100 | 13.66° Az | | |
| Afinotations Measured Depth (usft) 2,000.00 2,600.00 7,955.44 8,555.44 9,860.54 | Vertical Depth (usft) 0 2,000.0 2,595.6 5 7,834.0 5 8,429.6 4 9,734.7 | Local Co +N/2S (usft) 0 0.00 2 -52.11 4 -978.86 7 -1,030.97 6 -1,030.97 | +E/.W (usft) 0.00 -34.70 -651.88 | Start Build 2°/100 Hold 12° Inc @ 2 Start Drop 2°/100 | 13.66° Az ' | | |
| Afinotations Measured Depth (usft) 2,000.00 2,600.00 7,955.44 8,555.44 9,860.54 10,608.46 | Vertical Depth (UST) 0 2,000.0 0 2,595.6 5 7,834.0 5 8,429.6 4 9,734.7 5 10,212.2 | Local Co +N/S (usft) 0 0.00 2 -52.11 4 -978.86 7 -1,030.97 6 -1,030.97 2 -555.86 | +E/-W (USft) -34.70 -651.88 -686.58 -686.58 -686.58 -670.50 | Start Build 2°/100 Hold 12° Inc @ 2 Start Drop 2°/100 Hold 0° Inc Start Build 12°/10 | 13.66° Az ' | | |
| Afinotations Measured Depth (usft) 2,000.00 2,600.00 7,955.44 8,555.44 9,860.54 | Vertical Depth (usft) 0 2,000.0 2,595.6 5 7,834.0 5 8,429.6 4 9,734.7 5 10,212.2 5 10,232.0 | Local Co +N/-S (usft) 0 0.00 2 -52.11 4 -978.86 7 -1,030.97 6 -1,030.97 6 -1,030.97 2 -555.86 0 3,969.01 | +E/-W (usft) -34.70 -651.88 -686.58 -686.58 | Start Build 2°/100 Hold 12° Inc @ 2 Start Drop 2°/100 Hold 0° Inc Start Build 12°/10 LP 10608.46' MD LTP 15135.96' M | 13.66° Az '' 00' DLS | | |

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14141 S. Wayside Drive Houston, Texas 77048

Phone 713-644-1491 Fax 713-644-9830 www.copperstaterubber.com sales@copperstaterubber.com

February 23, 2018

Independence Contracting Drilling 11601 N. Galayda St. Houston, Texas 77086

Subject: Purchase Order No.: PO00116446 Date: February 23, 2018 Specialties Company File No.: CSR / SPECO-81069

Equipment: Copper State Rubber Choke/Kill Hose Assembly, 10KSI MAWP X 15KSI T/P, API 16C FSL3, Fire Resistant Cover, Complete 4-1/16" 10KSI MAWP Flange With BX155 SS Lined Ring Groove Each End. H2S Suited. 1EA: 3" ID X 75Ft. S/N-33851

CERTIFICATE OF COMPLIANCE

This is to certify the above referenced equipment meets or exceeds the following requirements and were manufactured from same material specification and manufacturing methods as prototype assemblies for referenced specifications.

- I. COMPLETE HOSE ASSEMBLY
 - A. API Certificate of Accreditation for Spec: Q1 (Quality Programs) and Spec.: 16C
 - 1. Copper State Rubber, Inc. Certificate No.: 16C-0383
 - B. **CSR** Specification No.: 090-1915C

II. PHYSICAL/CHEMICAL PROPERTIES OF METAL COMPONENTS

- A. **API** Spec. 6A; latest edition
- B. API Spec. 16A, latest edition
- C. NACE Standard MR0175, latest edition

III. WELDMENTS/NDE REQUIREMENTS

- A. Section IX, ASME Boiler & Pressure Code, 1986 Ed., 1987 Add.
- B. CSR/Specialties Company WPS/PQR Nos.: 911171-1, and 911171-2, Rev. 05 dated June 2005

III. WELDMENTS/NDE REQUIREMENTS (continued)

C. API Spec. 6A, latest edition

D. API Spec. 16A, latest edition

Sincerely,

Joe Leeper, Technical Department



Visual Inspection / Hydrostatic Test Report

| Manufacturer | Copper State Rubber Inc. | |
|-----------------|----------------------------------|----------|
| Hose Type | Choke and Kill | |
| Pressure Rating | 10,000 PSI MAWP X 15,000 PSI T/P | |
| Spec Number | 090-1915C-48 | |
| FSL Rating | FSL 3 | <u>-</u> |
| | | |

| Serial Number | 33851 | |
|-------------------|------------------|--|
| Size ID | 3" | |
| Length | 75' | |
| Date | December 9, 2017 | |
| Shop Order Number | 31162 | |

Connections Description: 4 1/16" 10K API FLANGE WITH SS INLAID BX-155 RING GROOVE EACH END

Traceability of Terminating Connectors

| | Insert | Male | Nut | Female | Flanges | Hubs | Other |
|-------------|--------|------|-----|--------|---------|------|-----------|
| Connector 1 | 14C1 | | | | V4760 | | CSR-H1263 |
| Connector 2 | 14C1 | | | | V4760 | | CSR-H1265 |

Comments

Calibrated Devices

| Pressure Recorder | 07459 | Calibration Date | 1/23/2017 |
|-------------------|----------|------------------|-----------|
| Pressure Gauge | 111291-2 | Calibration Date | 1/23/2017 |

*This report signifies that the product has been visually inspected for defects in the interior tube, recess, gasket, cover and branding and all have been found to be conforming.

Comments

Hydrostatic Testing Requirements

Length after test

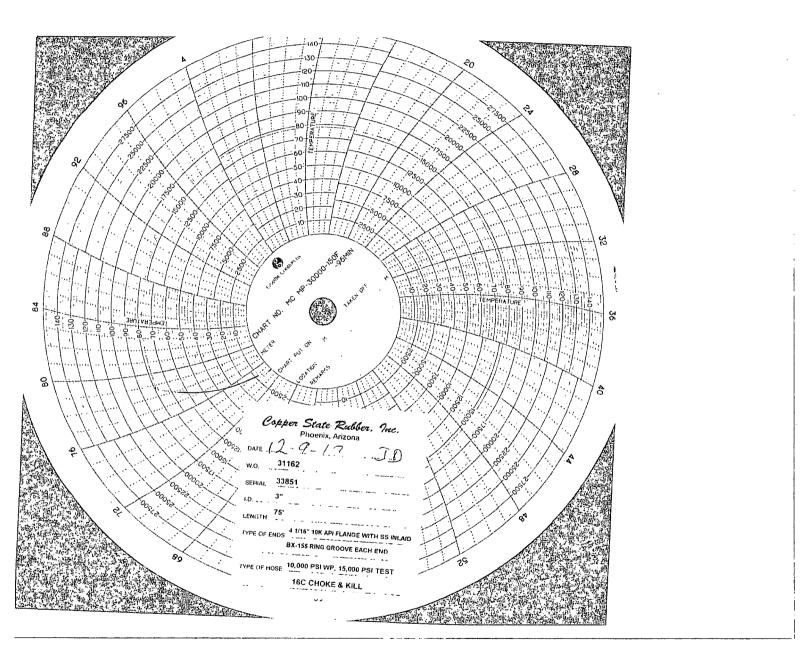
60 Min @ 15,000 psi (-0/+500 psi)

75' OAL

thil Spider Witness By:

Supervisor

INDEPENDENCE CONTRACT DRILLING P.O. NO.: PO00116446 DATE: FEBRUARY 23, 2018 FILE NO.: CSR / SPECO-81069



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Novo Oil & Gas Northern Delaware, LLC Goonch Fed Com 04 231H SHL 1080' FSL & 980' FWL 4-23S-28E BHL 130' FNL & 330' FWL 4-23S-28e Eddy County, NM

DRILL PLAN PAGE 1

fee/fee/Fed

Drilling Program

1. ESTIMATED TOPS

| Formation Name | TVD KB | MD | Bearing |
|--------------------------------------------------|--------|--------|---------------|
| Quaternary | 0′ | 0′ | water |
| Rustler anhydrite (surface csg @ 579' MD) | 100′ | 100′ | N/A |
| Castile gypsum | 970′ | 970′ | N/A |
| Lamar limestone | 2473′ | 2476′ | N/A |
| Bell Canyon sandstone | 2539′ | 2542' | hydrocarbons |
| Cherry Canyon sandstone | 3614′ | 3641' | hydrocarbons |
| Brushy Canyon sandstone | 4627′ | 4677′ | hydrocarbons |
| Bone Spring limestone | 6070′ | 6152' | hydrocarbons |
| 1 st Bone Spring sandstone | 7037′ | 7141′ | hydrocarbons |
| 2 nd Bone Spring carbonate | 7250′ | 7358' | hydrocarbons |
| 2nd Bone Spring sandstone | 7785' | 7909' | hydrocarbons |
| 3d Bone Spring carbonate (inter. csg @ 8900' MD) | 8082′ | 8207' | hydrocarbons |
| 3 rd Bone Spring sandstone | 9016' | 9142′ | hydrocarbons |
| Wolfcamp XY carbonate | 9340′ | 9466' | hydrocarbons |
| Wolfcamp A carbonate | 9586′ | 9712' | hydrocarbons |
| Wolfcamp B carbonate (pro. csg @ 15336' MD) | 9667′ | 9793' | hydrocarbons |
| (КОР | 9735' | 9861' | hydrocarbons) |
| TD | 10233' | 15336′ | hydrocarbons |

2. NOTABLE ZONES

Wolfcamp B carbonate is the goal. All perforations will be $\geq 330'$ from the dedication perimeter. Closest water well (C 00800) is 0.90 mile southeast. Water bearing strata were found from 50' to 155' in the 200' deep well.



Novo Oil & Gas Northern Delaware, LLC Goonch Fed Com 04 231H SHL 1080' FSL & 980' FWL 4-23S-28E BHL 130' FNL & 330' FWL 4-23S-28e Eddy County, NM

fee/fee/Fed

3. PRESSURE CONTROL

A 13.625" 5,000-psi BOP 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.

BOP system will be isolated with a test plug and tested by an independent tester to 250-psi low and 5000-psi high for 10 minutes. 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 the location when testing the BOP.

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 70% of burst pressure (4431 psi) high for 30 minutes.

4. CASING & CEMENT

Variance is requested for the option to use a surface rig to drill the surface hole, set the surface casing, and cement the surface casing. If the schedule between rigs would preclude presetting the surface casing, then the primary rig will MIRU and drill all of the well.

All casing will be API and new. See attached casing assumption worksheet.



Novo Oil & Gas Northern Delaware, LLC Goonch Fed Com 04 231H SHL 1080' FSL & 980' FWL 4-23S-28E BHL 130' FNL & 330' FWL 4-23S-28e Eddy County, NM

fee/fee/Fed

| Hole O. D. | Set MD | Set TVD | Casing OD | Weight (lb/ft) | Grade | Joint | Collapse | Burst | Tension |
|---------------|----------------|----------------|---------------------|-------------------|------------|------------|----------|-------|---------|
| 17.5" | 0′ - 589' | 0′ - 589' | 13.375" surface | 54.5 | J-55 | BTC | 1.125 | 1.125 | 1.60 |
| 12.25" | 0′ - 8900' | 0′ - 8774' | 9.625" intermed. | 43.5 | HCL- 80 | BTC | 1.125 | 1.125 | 1.60 |
| 8.5″ | 0' – 15336' | 0' - 10233' | 5.5″ product. | 20 | P-110 | TMK DQX | 1.125 | 1.125 | 1.60 |

Alternate Production Casing:

| Hole O. D. | Set MD | Set TVD | Casing OD | Weight (lb/ft) | Grade | Joint | Collapse | Burst | Tension |
|---------------|----------------|----------------|------------------|-------------------|-------------|-------|----------|-------|---------|
| 8.5″ | 0' – 15336' | 0' – 10233' | 5.5″ product. | 20 | P-110 | GBCD | 1.125 | 1.125 | 1.60 |
| 8.5″ | 0′ – 15336′ | 0' – 10233' | 5.5″ product. | 20 | P-110 HC | CDC | 1.125 | 1.125 | 1.60 |

Alternative weights and grades could be substituted to meet maximum stimulation pressures.



Novo Oil & Gas Northern Delaware, LLC Goonch Fed Com 04 231H SHL 1080' FSL & 980' FWL 4-23S-28E BHL 130' FNL & 330' FWL 4-23S-28e Eddy County, NM

fee/fee/Fed

| Name | Туре | Sacks | Yield | Cu. Ft. | Weight | Blend |
|--------------------|------|-------|-----------|---------|--------|-------------------------------------------------------------|
| Surface | Tail | 505 | 1.62 | 818 | 13.8 | Class C + gel + accelerator + LCM |
| TOC = GL | | 1 | 00% Exces | 55 | Cent | ralizers on every jt to GL |
| Intermediate Stage | Lead | 690 | 2.28 | 1573 | 11.9 | Class C or H + fluid loss + retarder + LCM |
| * 1 | Tail | 200 | 1.34 | 268 | 14.8 | Class C or H + fluid loss + retarder + LCM |
| Intermediate Stage | Lead | 542 | 2.28 | 1235 | 11.9 | Class C or H + fluid loss + retarder + LCM |
| * 2 | Tail | 200 | 1.34 | 268 | 14.8 | Class C or H + fluid loss + retarder + LCM |
| TOC = GL | | 2 | 0% Exces | 5 | | lizers on bottom 3 jts and entralizer every 4th jt to GL |
| Production | Tail | 1009 | 1.89 | 1907 | 13.0 | Class H + fluid loss + retarder + LCM |
| TOC = 8400' | | 2 | 0% Exces | 5 | | None planned |

*Stage tool set at \approx 4000'.

5. MUD PROGRAM

An electronic PVT mud system will monitor flow rate, pump pressure, stroke rate, and volume. 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. A closed loop system will be used.

| Туре | Interval (MD) | lb/gal | Viscosity | Fluid Loss |
|-----------------------|----------------|------------|-----------|------------|
| fresh water spud | 0' - 589' | 8.3 | 30 - 60 | NC |
| brine diesel emulsion | 589' - 8900' | 8.8 - 9.2 | 35 - 45 | NC |
| ОВМ | 8900' – 15336' | 8.8 - 12.5 | 35 - 65 | 4 - 6 |



Novo Oil & Gas Northern Delaware, LLC Goonch Fed Com 04 231H SHL 1080' FSL & 980' FWL 4-23S-28E BHL 130' FNL & 330' FWL 4-23S-28e Eddy County, NM

fee/fee/Fed

6. <u>CORES, TESTS, & LOGS</u>

No core or drill stem test is planned.

A 2-person mud logging program will be used from \approx 3000' to TD.

GR log will be acquired by MWD tools from the intermediate casing to TD.

7. DOWN HOLE CONDITIONS

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is \approx 5465 psi. Expected bottom hole temperature is \approx 165° F.

An H2S plan is attached.

8. OTHER INFORMATION

Anticipated spud date is upon approval. It is expected it will take \approx 3 months to drill and complete the well.

Novo owns fee leases in the S2 Section 4. Novo has filed with the NMOCD to be named operator of the west half of Section 4. There was no opposition at the NMOCD hearing.



Novo Oil & Gas Northern Delaware Goonch Fed Com 04 Casing Variance Request

A variance is requested for an option to use a surface rig to drill the surface hole, set the surface casing, and cement the surface casing. If the schedule between rigs would preclude presetting the surface casing, then the primary rig will MIRU and drill all of the well.

Gnooch Fed Com 04 231H Alternative Casing Spec Request

Novo Oil & Gas Northern Delaware, LLC respectfully requests flexibility in the production casing spec in the event that drilling conditions and/or equipment availability determines the need for an alternate casing. The alternate casing specs are specified in the attached drill plan. The alternate casing spec sheets are attached.

GB tubulars Casings & Connections

GB Connection Performance Properties Sheet RIGHTCONNECTIONS

Rev. 1 (08/25/2015)

| | R • 1 | |
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| Casing: 5.5 OD, 2 Casing Grade: P-110 | 0 ppf | | | Connection: Coupling Grade: | GB CD Butt 6.300 API P-110 |
|------------------------------------------------------------------------|-------|-------------------------------------------|-------------------|--------------------------------------|-------------------------------|
| | | PIPE BODY GEON | ETRY | | |
| Nominal OD (in.) | 5 1/2 | Wall Thickness (In.) | 0.361 | Drift Diameter (in.) | 4.653 |
| Nominal Weight (ppf) | 20.00 | Nominal ID (in.) | 4.778 | API Alternate Drift Dia. (in.) | N/A |
| Plain End Weight (ppf) | 19.83 | Plain End Area (in. ²) | 5.828 | | |
| | | | | | |
| | | PIPEBODY PERFOR | MANCE | | |
| Material Specification | P-110 | PIRE(BODY RERFOR Min. Yield Str. (psi) | MANCE. 110,000 | Min. Ultimate Str. (psi) | 125,000 |
| Material Specification Collapse | | | | Min. Ultimate Str. (psi) Pressure | 125,000 |
| Collapse | | Min. Yield Str. (psi) | | | |
| Material Specification Collapse API (psi) High Collapse (psi) | | Min. Yield Str. (psi) Tenslon | 110,000 | Pressure | 12,640 |

| we want the trade of the second | | - do coju attijo o do co di co di jen | IO OCOMETINI |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------|--------------|
| Coupling OD (in.) | 6.300 | Makeup Loss (in.) | 4.2500 |
| Coupling Length (in.) | 8.500 | Critical Cross-Sect. (In.2) | 8.527 |

THE.

| | GB CD Butt | 6:300,CONNECTION/PERFORM | ANCE RATINGS | EFFICIENCIES | |
|---------------------------|------------|----------------------------|--------------|--------------------------------|---------|
| Material Specification | API P-110 | Min. Yield Str. (psi) | 110,000 | Min. Ultimate Str. (psi) | 125,000 |
| Tension | | Efficiency | | Bending | |
| Thread Str. (kips) | 667 | Internal Pressure (%) | 100% | Build Rate to Yield (°/100 ft) | 80.0 |
| Min. Tenslon Yield (kips) | 891 | External Pressure (%) | 100% | Yield Torque | |
| Min. Tension Ult. (kips) | 1,013 | Tension (%) | 100% | Yield Torque (ft-lbs) | 31,180 |
| Joint Str. (kips) | 667 | Compression (%) | 100% | | |
| | | Ratio of Areas (Cplg/Pipe) | 1.46 | | |

| | | MAKEUP TORQUE | | · · · · · · · · · · · · · · · · · · · | ····· |
|----------------------|------------------|---------------|----------------|---------------------------------------|------------|
| Min. MU Tq. (ft-lbs) | 10,000 Max. MU T | | 20,000 Running | rq. (ft-lbs) | See GBT RP |
| | | | | rating Tq. (ft-lbs)* | 29,620 |

Units: US Customary (lbm, in., *F, lbf)

1 kip = 1,000 lbs

ENG IN EERING

* See Running Procedure for description and limitations.

See attached: Notes for GB Connection Performance Properties.

GBT Running Procedure (GBT RP): www.gbtubulars.com/pdf/RP-G8-DWC-Connections.pdf

Banking Dimensions: www.gbtubulars.com/pdf/GB-DWC-Blanking-Dimensions.pdf Connection yield torque rating based on physical testing or extrapolation therefrom

5/17/2018 5:40:28 PM

U. S. Steel Tubular Products

5.500" 20.00lbs/ft (0.361" Wall) P110 HC USS-CDC®

| MECHANICAL PROPERTIES | Pipe | USS-CDC [®] | • • • • • • • • • • • • • • • • • • • |
|-----------------------------------|---------|----------------------|---------------------------------------|
| Minimum Yield Strength | 110,000 | | psi |
| Maximum Yield Strength | 140,000 | | psi |
| Minimum Tensile Strength | 125,000 | | psi |
| DIMENSIONS | Pipe | USS-CDC [®] | |
| Outside Diameter | 5.500 | 6.050 | in. |
| Wall Thickness | 0.361 | | in. |
| Inside Diameter | 4.778 | 4.778 | in. |
| Standard Drift | 4.653 | 4.653 | in. |
| Alternate Drift | | | in. |
| Coupling Length | | 9.250 | in. |
| Nominal Linear Weight, T&C | 20.00 | | lbs/ft |
| Plain End Weight | 19.83 | | lbs/ft |
| SECTION AREA | Pipe | USS-CDC® | |
| Critical Area | 5.828 | 5.828 | sq. in. |
| Joint Efficiency | | 100.0 | % |
| PERFORMANCE | Pipe | USS-CDC [®] | |
| Minimum Collapse Pressure | 12,200 | 12,200 | psi |
| External Pressure Leak Resistance | | 9,760 | , psi |
| Minimum Internal Yield Pressure | 12,640 | 12,370 | psi |
| Minimum Pipe Body Yield Strength | 641,000 | | lbs |
| Joint Strength | | 688,000 | lbs . |
| Compression Rating | | 413,000 | lbs |
| Reference Length | | 22,933 | ft |
| Maximum Uniaxial Bend Rating | | 59.1 | deg/100 ft |
| MAKE-UP DATA | Pipe | USS-CDC® | ٧ |
| Make-Up Loss | ** | 4.63 | in. |
| Minimum Make-Up Torque | | 10,500 | ft-lbs |
| Maximum Make-Up Torque | | 13,000 | ft-lbs |
| Connection Yield Torque | | 16,100 | ft-lbs |

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness and Specified Minimum Yield Strength (SMYS).

2. Uniaxial bending rating shown is structural only, and equal to compression efficiency.

3. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g., make-up speed, temperature, thread compound, etc.).

4. Reference length is calculated by joint strength divided by nominal threaded and coupled weight with 1.5 safety factor.

5. Connection external pressure leak resistance has been verified to 80% API pipe body collapse pressure following the guidelines of API 5C5 Call II.

Legal Notice

USS - CDC[®] (Casing Drilling Connection) is a trademark of U. S. Steel Corporation. This product is a modified API Buttress threaded and coupled connection designed for drilling with casing applications. All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

> U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380

1-877-893-9461 connections@uss.com www.usstubular.com . . .

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WAFMSS

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

SUPO Data Report

APD ID: 10400042232

Submission Date: 06/13/2019

2 Contraction

Operator Name: NOVO OIL AND GAS NORTHERN DELAWARE LLC

Well Name: GOONCH FED COM 04

Well Type: CONVENTIONAL GAS WELL

Well Number: 231H

Well Work Type: Drill

Highlighted data reflects the most recent changes <u>Show Final Text</u>

Section 1 - Existing Roads

Will existing roads be used? NO

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 3 - Location of Existing Wells

Existing Wells Map? NO

Attach Well map:

Existing Wells description: Fee Fee Fed - SUPO not required

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

Submit or defer a Proposed Production Facilities plan? DEFER

Estimated Production Facilities description: Fee Fee Fed - SUPO not required

Well Name: GOONCH FED COM 04

Well Number: 231H

| Section 5 - Location and T | Types of Water Sเ | ibbli |
|------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------|
| Water Source Table | | |
| Water source type: OTHER | | |
| Describe type: Fee Fee Fed - SUPO no | trequired | |
| Water source use type: OT | HER | Describe use type: Fee Fee Fed - SUPO not required |
| Source latitude: | | Source longitude: |
| Source datum: | | - |
| Water source permit type: OT | HER | |
| Water source transport method: | TRUCKING | |
| Source land ownership: OTHER | | Describe land ownership: Fee Fee Fed - SUPO not re |
| Source transportation land ownership | : OTHER | Describe transportation land ownership: Fee Fee Fe |
| Water source volume (barrels): 0 | | Source volume (acre-feet): 0 |
| Source volume (gal): 0 | | |
| Water source and transportation map: Goonch_231H_Fee_Fee_Fed_2019053010 Water source comments: | 13302.pdf | |
| New water well? NO | | |
| New Water Well Info | | |
| Well latitude: | Well Longitude: | Well datum: |
| Well target aquifer: | | |
| Est. depth to top of aquifer(ft): | Est thickne | ss of aquifer: |
| Aquifer comments: | | |
| Aquifer documentation: | | |
| Well depth (ft): | Well casing ty | ype: |
| Well casing outside diameter (in.): | Well casing ir | nside diameter (in.): |
| New water well casing? | Used casing s | source: |
| Drilling method: | Drill material: | |

Grout depth:

Drilling method:

Grout material:

Well Name: GOONCH FED COM 04

Well Number: 231H

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: NO

Construction Materials description:

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Fee Fee Fed - SUPO not required

Amount of waste: 0 barrels

Waste disposal frequency : Daily

Safe containment description: Fee Fee Fed - SUPO not required

Safe containmant attachment:

Waste disposal type: OTHER Disposal location ownership: OTHER

Disposal type description: Fee Fee Fed - SUPO not required

Disposal location description: Fee Fee Fed - SUPO not required

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Well Name: GOONCH FED COM 04

Well Number: 231H

 Are you storing cuttings on location? NO

 Description of cuttings location

 Cuttings area length (ft.)
 Cuttings area width (ft.)

 Cuttings area depth (ft.)
 Cuttings area volume (cu. yd.)

 Is at least 50% of the cuttings area in cut?

 WCuttings area liner

 Cuttings area liner

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Goonch_231H_Well_Site_Layout_20190923115327.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: No New Surface Disturbance Multiple Well Pad Name: GOONCH FED COM 04

Multiple Well Pad Number: 131H

Recontouring attachment:

Drainage/Erosion control construction: Fee Fee Fed - SUPO not required

Drainage/Erosion control reclamation: Fee Fee Fed - SUPO not required

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

Well Name: GOONCH FED COM 04

Well Number: 231H

Disturbance Comments:

Reconstruction method: Fee Fee Fed - SUPO not required Topsoil redistribution: Fee Fee Fed - SUPO not required Soil treatment: Fee Fee Fed - SUPO not required Existing Vegetation at the well pad: Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Existing Vegetation Community at the road attachment: Existing Vegetation Community at the pipeline: Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Existing Vegetation Community at other disturbances attachment:

Non native seed used?

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project?

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO Seed harvest description: Seed harvest description attachment:

| Seed | Managemen | t |
|------|-----------|---|
|------|-----------|---|

. . . .

| Seed Table |] |
|------------|---|
| Seed type: | |
| Seed name: | |

Source name:

Source phone:

Seed cultivar:

Seed source:

Source address:

Well Name: GOONCH FED COM 04

Well Number: 231H

Total pounds/Acre:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

,

| Seed Summary | | |
|--------------|-------------|--|
| Seed Type | Pounds/Acre | |

Seed reclamation attachment:

—

| Operator Contact/Responsible Official Contact Info | | |
|------------------------------------------------------------------|------------|--|
| First Name: | Last Name: | |
| Phone: | Email: | |
| Seedbed prep: | | |
| Seed BMP: | | |
| Seed method: | | |
| Existing invasive species? NO | | |
| Existing invasive species treatment description: | | |
| Existing invasive species treatment attach | iment: | |
| Weed treatment plan description: Fee Fee Fed - SUPO not required | | |
| Weed treatment plan attachment: | | |
| Monitoring plan description: Fee Fee Fed - SUPO not required | | |
| Monitoring plan attachment: | | |
| Success standards: Fee Fee Fed - SUPO not required | | |
| Pit closure description: No pit | | |

Pit closure attachment:

Section 11 - Surface Ownership

| 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: |
| |

Well Name: GOONCH FED COM 04

Well Number: 231H

Use APD as ROW?

| NPS Local Office: | |
|------------------------|-----------------------|
| State Local Office: | |
| Military Local Office: | |
| USFWS Local Office: | |
| Other Local Office: | |
| USFS Region: | |
| USFS Forest/Grassland: | USFS Ranger District: |

Section 12 - Other Information

Right of Way needed? NO ROW Type(s):

ROW Applications

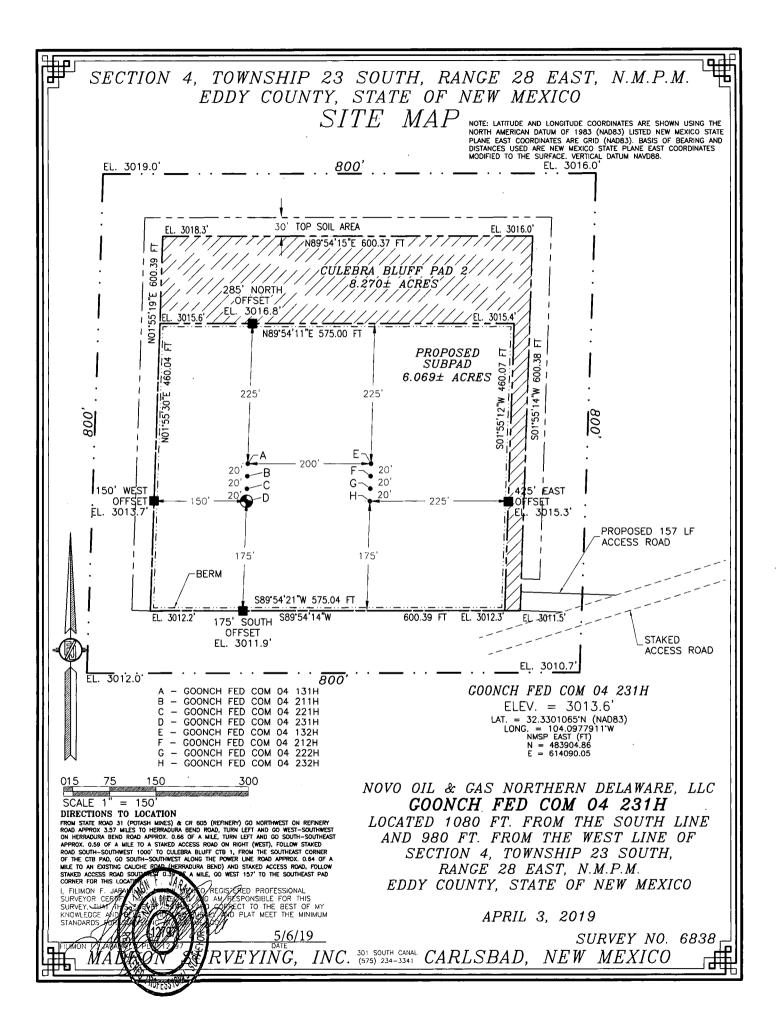
SUPO Additional Information: Fee Fee Fed - SUPO not required Use a previously conducted onsite? NO Previous Onsite information:

Other SUPO Attachment

Page 7 of 8

Novo Oil and Gas Northern Delaware Goonch Fed Com 04 231H

Fee Fee Fed – SUPO not required



FAFMSS

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

PWD Data Report 11/21/2019

APD ID: 10400042232

Submission Date: 06/13/2019

-1.5.1 St. 2-

Operator Name: NOVO OIL AND GAS NORTHERN DELAWARE LLC

Well Name: GOONCH FED COM 04

Well Type: CONVENTIONAL GAS WELL

Well Number: 231H Well Work Type: Drill

Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO Produced Water Disposal (PWD) Location: **PWD surface owner:** Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: Pit liner description: Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule attachment: Lined pit reclamation description: Lined pit reclamation attachment: Leak detection system description: Leak detection system attachment:

PWD disturbance (acres):

Well Name: GOONCH FED COM 04

Well Number: 231H

Lined pit Monitor description: Lined pit Monitor attachment: 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 attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

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

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

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 evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

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

Well Name: GOONCH FED COM 04

Well Number: 231H

Is the reclamation bond a rider under the BLM bond? Unlined pit bond number: Unlined pit bond amount: Additional bond information attachment: **Section 4 - Injection** Would you like to utilize Injection PWD options? NO Produced Water Disposal (PWD) Location: **PWD surface owner:** Injection PWD discharge volume (bbl/day): Injection well mineral owner: Injection well type: Injection well number: Assigned injection well API number? Injection well new surface disturbance (acres): Minerals protection information: **Mineral protection attachment: Underground Injection Control (UIC) Permit? UIC Permit attachment:**

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

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:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Other PWD discharge volume (bbl/day):

PWD disturbance (acres):

Injection well name:

Injection well API number:

PWD disturbance (acres):

PWD disturbance (acres):

Well Name: GOONCH FED COM 04

Well Number: 231H

.

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

FAFMSS

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

Bond Info Data Report

<u>11/21/2019</u>

| APD ID: 10400042232 | Submission Date: 06/13/2019 | Highlighted data |
|-------------------------------------------------------|-----------------------------|-------------------------------------|
| Operator Name: NOVO OIL AND GAS NORTHERN DELAWARE LLC | | reflects the most recent changes |
| Well Name: GOONCH FED COM 04 | Well Number: 231H | Show Final Text |
| Well Type: CONVENTIONAL GAS WELL | Well Work Type: Drill | |

27.97.85

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001536

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 number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: