Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

**SUNDRY NOTICES AND REPORTS ON WELLS**

***Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.***

***SUBMIT IN TRIPLICATE*** *- Other instructions on page 2*

5. Lease Serial No. NMNM0542015

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☑ Gas Well ☐ Other

8. Well Name and No. OVATION FED COM 1318/212H

2. Name of Operator NOVO OIL AND GAS NORTHERN DELAWARE LLC

9. API Well No. 3001549073

3a. Address 228 ST. CHARLES AVENUE, SUITE 912, NEW (

3b. Phone No. *(include area code)* (504) 523-1831

10. Field and Pool or Exploratory Area PURPLE SAGE/WOLFCAMP (GAS)

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SEC 14/T23S/R28E/NMP

11. Country or Parish, State EDDY/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|---|---|---|---|
| ☐ Notice of Intent | ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| | ☐ Alter Casing | ☐ Hydraulic Fracturing | ☐ Reclamation | ☐ Well Integrity |
| ☑ Subsequent Report | ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☑ Other |
| | ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | |
| ☐ Final Abandonment Notice | ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

8/5/2023 - 8/7/2023: Workover to repair hole in tubing and replace necessary tubing and gas lift system. See attachments.

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)* LINDA GOOD / Ph: (405) 590-4809

Title Contractor

Signature

Date 08/24/2023

**THE SPACE FOR FEDERAL OR STATE OFICE USE**

Approved by JONATHON W SHEPARD / Ph: (575) 234-5972 / Accepted

Title Petroleum Engineer

Date 08/25/2023

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

Office CARLSBAD

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

(Instructions on page 2)

## GENERAL INSTRUCTIONS

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

## SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

*Item 13:* Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

## NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

## Additional Information

### Location of Well

0. SHL: SENE / 1575 FNL / 702 FEL / TWSP: 23S / RANGE: 28E / SECTION: 14 / LAT: 32.308532 / LONG: -104.0518325 ( TVD: 0 feet, MD: 0 feet )

PPP: SWNW / 2272 FNL / 162 FWL / TWSP: 23S / RANGE: 28E / SECTION: 13 / LAT: 32.0 / LONG: -104.0490362 ( TVD: 9600 feet, MD: 9845 feet )

BHL: NENE / 2270 FNL / 130 FEL / TWSP: 23S / RANGE: 29E / SECTION: 18 / LAT: 32.3061459 / LONG: -104.0157988 ( TVD: 9882 feet, MD: 20124 feet )

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

# Sundry Print Report

08/28/2023

**Well Name:** OVATION FED COM 1318

**Well Location:** T23S / R28E / SEC 14 / SENE / 32.308532 / -104.0518325

**County or Parish/State:** EDDY / NM

**Well Number:** 212H

**Type of Well:** CONVENTIONAL GAS WELL

**Allottee or Tribe Name:**

**Lease Number:** NMNM0542015

**Unit or CA Name:**

**Unit or CA Number:**

**US Well Number:** 300154907300X1

**Well Status:** Drilling Well

**Operator:** NOVO OIL AND GAS NORTHERN DELAWARE LLC

## Subsequent Report

**Sundry ID:** 2747823

**Type of Submission:** Subsequent Report

**Type of Action:** Workover Operations

**Date Sundry Submitted:** 08/24/2023

**Time Sundry Submitted:** 12:22

**Date Operation Actually Began:** 08/05/2023

**Actual Procedure:** 8/5/2023 - 8/7/2023: Workover to repair hole in tubing and replace necessary tubing and gas lift system. See attachments.

## SR Attachments

**Actual Procedure**

Ovation_Fed_Com_1318_212H_tbg_workover_procedure_revised_and_WBD_attachments_20230824115131.pdf

**Well Name:** OVATION FED COM 1318

**Well Location:** T23S / R28E / SEC 14 / SENE / 32.308532 / -104.0518325

**County or Parish/State:** EDDY / NM

**Well Number:** 212H

**Type of Well:** CONVENTIONAL GAS WELL

**Allottee or Tribe Name:**

**Lease Number:** NMNM0542015

**Unit or CA Name:**

**Unit or CA Number:**

**US Well Number:** 300154907300X1

**Well Status:** Drilling Well

**Operator:** NOVO OIL AND GAS NORTHERN DELAWARE LLC

## Operator

*I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a*

**Operator Electronic Signature:** LINDA GOOD

**Signed on:** AUG 24, 2023 11:51 AM

**Name:** NOVO OIL AND GAS NORTHERN DELAWARE LLC

**Title:** Contractor

**Street Address:** 1001 WEST WILSHIRE BLVE SUITE 206

**City:** OKLAHOMA CITY **State:** OK

**Phone:** (405) 590-4809

**Email address:** JCARTER@NOVOOG.COM

## Field

**Representative Name:**

**Street Address:**

**City:** **State:** **Zip:**

**Phone:**

**Email address:**

## BLM Point of Contact

**BLM POC Name:** JONATHON W SHEPARD

**BLM POC Title:** Petroleum Engineer

**BLM POC Phone:** 5752345972

**BLM POC Email Address:** jshepard@blm.gov

**Disposition:** Accepted

**Disposition Date:** 08/25/2023

**Signature:** Jonathon Shepard

# CAPITAL WORKOVER PROCEDURE

| Well | Property Number | AFE Number |
|---|---|---|
| OVATION FED COM 1318 212H | 30015-10068 | 4500069 |

Responsibility Paul Jobe – Senior Operations Engineer
Brad Walls – Production Superintendent
Aaron Cattley – Senior Operations Engineer
Aaron Roberge – Completion Superintendent
Rocky Garlow – Completion Superintendent

Procedure Date: August 5, 2023 - Edited August 24, 2023

**OVATION FED COM 1318 212H**
**API #: 30-015-49073**

**WOLFCAMP XY INTERVAL**

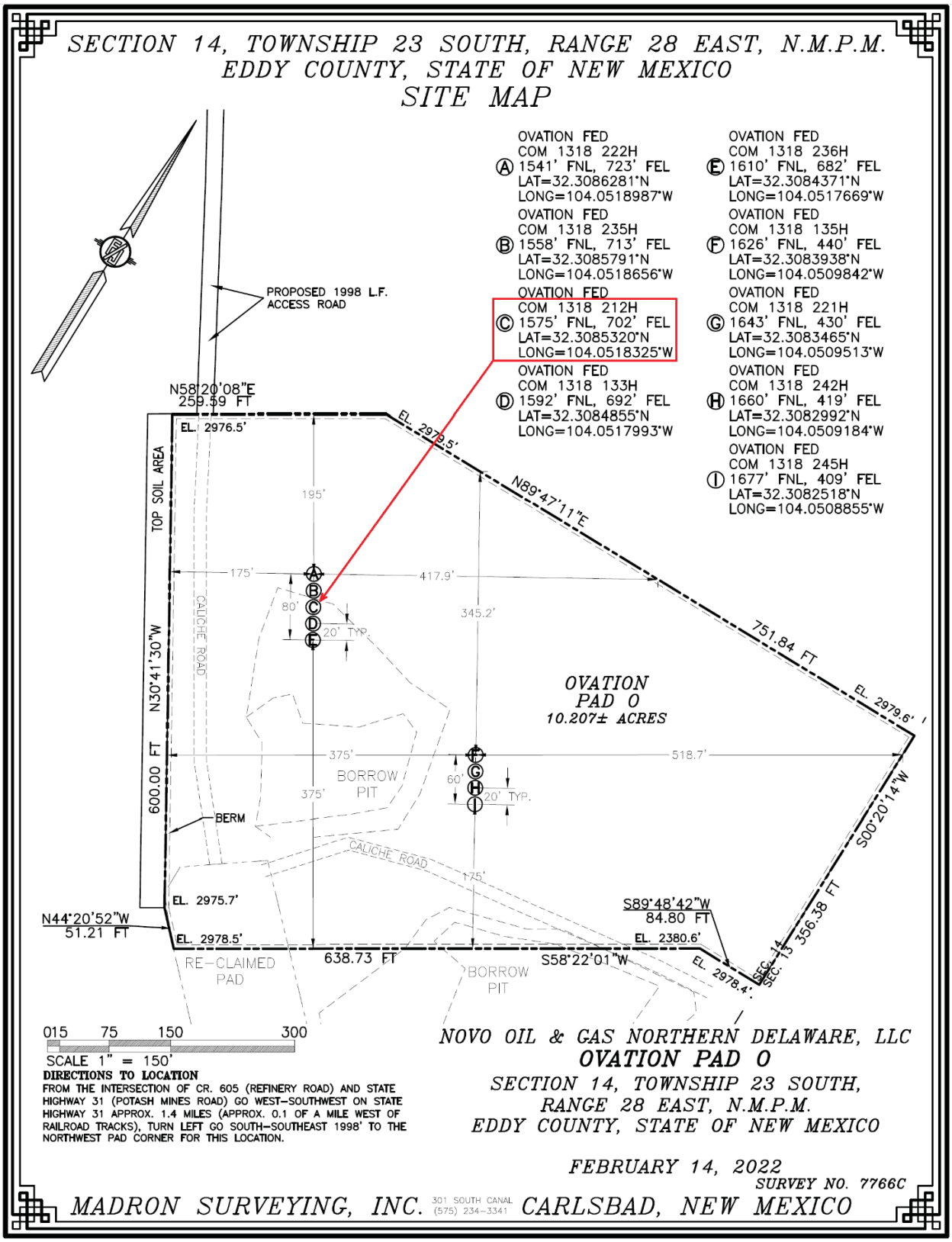
**GPS Coordinates: 32.30853198, -104.05183249**

Eddy County, NM

Directions: From Carlsbad, Travel South on Highway 285 for 7.7 miles. Turn left on New Mexico State Road 31(Potash Mines Rd) and travel 3.9 miles Turn right on to lease road and go 0.25 miles to location.

Novo Oil & Gas, LLC

**Wellsite Layout – Ovation Fed Com 1318 Pad O**



# OVATION FED COM 1318 212H
# Workover Background and Scope

**Executive Summary:**
Production from the Ovation Fed Com 1318 212H began November 1, 2022, and the well flowed up tubing until December 28, 2022 when gas-lift injection was initialized. Since that time production from the well has been assisted by the gas-lift system via annular gas injection. Through multiple Crestwood downtime and pressure events since April 4, 2023, the well has struggled to maintain consistent flow. Since the beginning of July 2023, the pressure differential between tubing and casing has steadily diminished to the point where they have equalized. The well was shut-in July 9 to evaluate fluid level and it level was found to be at 1,500 ft from surface. A test of the tubing and casing pressures indicate either a hole in the tubing or a cut gas-lift valve. Either of those preclude any measurable production contribution from the reservoir.

**Scope of Workover:**
This workover is being proposed to remove and inspect the existing tubing, gas-lift system, packer and BHA, replace all joints and components that are damaged beyond reuse, then rerun tubing and gas-lift back into the well and return the well to production utilizing annular gas injection.

- Due to the deviated trajectory of this well, there is potential that we will not be able to deliver enough torque to unset the packer. This has been the case with other workovers on this pad. If this scenario is encountered the scope of the workover will include running free-point calculations, cutting tubing, then running the hole with fishing tools and work-string to retrieve tubing and packer. Historically we have been free all the way to the packer, just unable to deliver enough torque through the production tubing to unset the packer.

# OVATION FED COM 1318 212H
# Workover Procedure

| | |
|---|---|
| Casing: | 5 1/2" 20# P-110 set at 20,080 ft |
| Liner: | None |
| Tubing: | 2-7/8", 6.5 #/ft L80 tubing and gas-lift system. EOT @ 9,575.59 ft |
| Elevation: | 2,980 ft GL 3,006.90 KB |
| Average Lateral TVD: | 9,823 ft |

**Pre-Job safety meeting**

Before any work is performed there will be a tailgate safety meeting held to discuss the job details, hazards and inspection of equipment. Make sure all safety equipment in proper place: chock blocks, grounding cables, and fire extinguishers.

- Fall protection is required when working at heights. A man lift will be used when deemed appropriate by Novo company representative. Fall protection is required at all times while working from a man lift.
- Well and tubing string information will be given by the Novo company representative.
- Understanding of max pull capabilities of workover rig, and weight of tubing in well, as well as weight of work string.
- Proper PPE required to perform work
- Designated smoking area
- Emergency evacuation procedure and designated muster areas
- Job procedures and designated duties and responsibilities
- Contingency plans specific to each vendor involved in operations

8/5/2023:

1. MIRU WOR.
2. MIRU auxiliary equipment.
3. Kill well with weighted brine.
4. Install back-pressure valve, remove tree, install and test BOPs.
5. Remove back-pressure valve.

8/6/2023:

6. Unset packer at 9,555 ft and pull out of the hole with the existing tubing and gas- lift system, packer and BHA. NOTE: Inspect tubing as it comes out of the hole to locate the hole in the tubing and to determine how many joints need to be replaced when re-running tubing and gas-lift system. If the tubing is in bad shape as it comes out of the well, lay down and contact Audra Manning with JD Rush to have a new tubing string delivered to location. Also contact Champion-X to provide gas-lift system replacement.
7. **NOTE: If packer will not unset and we cannot J off the packer, we will move into tubing recovery mode, running free-point calculations, cutting tubing below deepest gas-lift mandrel and pulling out of the hole with tubing and gas-lift system, then going back in with overshot and jars to get the packer and remaining tubing. IF THIS CONTINGENCY BECOMES NECESSARY, WE WILL HAVE A CALL TO DISCUSS PRIOR TO CUTTING TUBING.**

8. RIH with gauge-ring/junk-basket combo to 9,400 ft ensure casing is clear, then POOH with same.

8/7/2023:

9. Run in hole on wireline with packer and BHA as below and set packer at **9,360 ft**.

    - 1 AS1X packer 2-7/8" x 5-1/2" 20 #/ft
    - Stringer nipple in top of packer with 2.31" ID profile
    - 2 pup-joints 2-7/8", 6.5 #/ft L80 tubing
    - 1 XN-Nipple 3.66" OD, 2.2" ID x profile x 2-7/8"
    - 1 pump out sub/Wireline re-entry guide 3.67" OD, 2.8" ID

10. Pick up and run-in hole with 2-7/8, 6.5#/ft L80 production tubing and gas-lift system as described in attached Gas Lift Design. *Actual tubing depths will be as per on location calculations for depths based on actual tubing lengths.*

11. **Sting into packer at 9,360 ft**.

12. EOT @ ~9,381 ft.

13. Space out and land tubing in tubing head, install back-pressure valve in tubing, remove BOP, and reinstall wellhead.

14. Remove back-pressure valve.

15. Rig up pump truck and pump through tubing and BHA to ensure all is clear.

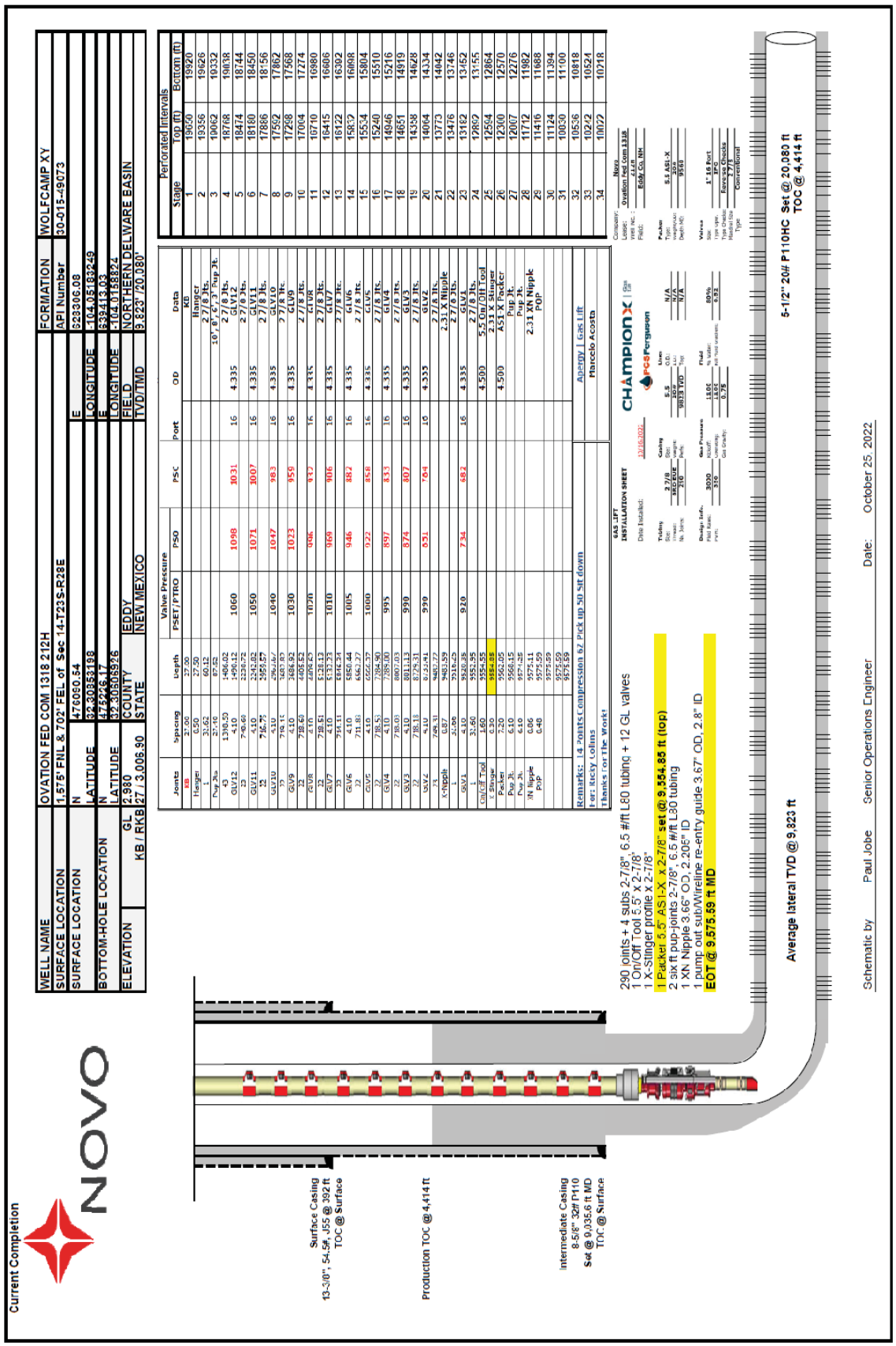
16. Rig down and move off workover rig and auxiliary equipment.

17. Finalize surface connections.

18. Return well to production and gas-lift injection.

Novo Oil & Gas, LLC

**Current Well Schematic – Ovation Fed Com 1318 212H**:



**Gas Lift Installation Calculation Sheet – depths dependent on actual tubing lengths**

| OVATION FED COM 1318 212H - UPDATED DESIGN - PACKER AT 9,360 FT | | | | |
|---|---|---|---|---|
| Item | Description | Length each (ft) | Length (ft) | MD (ft) |
| 46 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 1502.82 | 1502.82 |
| 1 | GLV-12 **top** | 4.1 | 4.1 | 1502.82 |
| 22 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 718.74 | 2225.66 |
| 1 | GLV-11 **top** | 4.1 | 4.1 | 2225.66 |
| 21 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 686.07 | 2916 |
| 1 | GLV-10 **top** | 4.1 | 4.1 | 2916 |
| 23 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 751.41 | 3671 |
| 1 | GLV-9 **top** | 4.1 | 4.1 | 3671 |
| 21 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 686.07 | 4362 |
| 1 | GLV-8 **top** | 4.1 | 4.1 | 4362 |
| 22 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 718.74 | 5084 |
| 1 | GLV-7 **top** | 4.1 | 4.1 | 5084 |
| 21 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 686.07 | 5775 |
| 1 | GLV-6 **top** | 4.1 | 4.1 | 5775 |
| 22 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 718.74 | 6497 |
| 1 | GLV-5 **top** | 4.1 | 4.1 | 6497 |
| 22 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 718.74 | 7220 |
| 1 | GLV-4 **top** | 4.1 | 4.1 | 7220 |
| 21 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 686.07 | 7910 |
| 1 | GLV-3 **top** | 4.1 | 4.1 | 7910 |
| 22 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 718.74 | 8633 |
| 1 | GLV-2 **top** | 4.1 | 4.1 | 8633 |
| 21 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 686.07 | 9323 |
| 1 | GLV (OV)-1 **top** | 4.1 | 4.1 | 9323 |
| 1 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 32.67 | 9360 |
| 1 | On/Off Tool 5.5" x 2 7/8" | 2 | 2 | 9362 |
| 1 | Packer 5.5" AS1-X x 2-7/8" w/ 2.31" ID profile - t | 6 | 6 | 9362 |
| 2 | pup-joints 2-7/8", 6.5 #/ft EUE L80 tubing | 6 | 12 | 9380 |
| 1 | XN-Nipple 3.66" OD, 2.2" ID x profile x 2-7/8" | 0.82 | 0.82 | 9380 |
| 1 | Pump-out Plug/Wireline re-entry guide | 0.42 | 0.42 | 9381 |

Novo Oil & Gas, LLC

## Cost Estimate

**Ovation Fed Com 1318 212H**

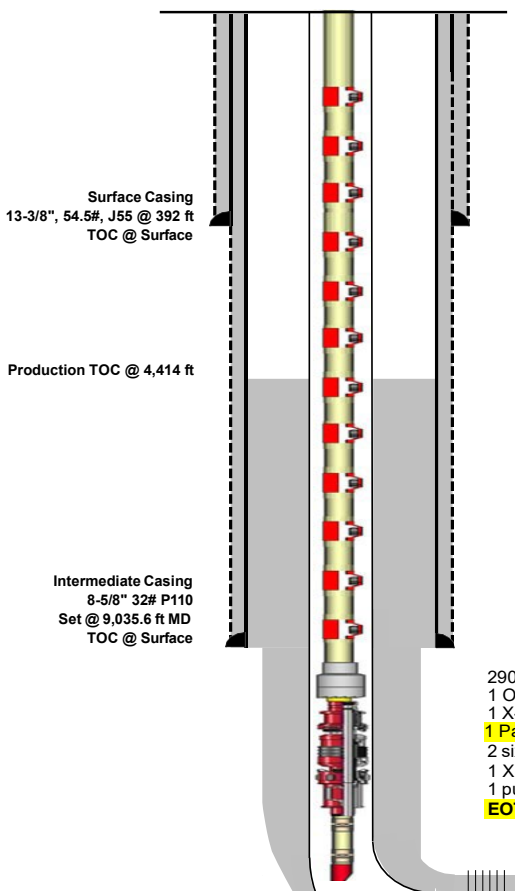
**July 26, 2023**

| Acct Code | Category | Descripton | Unit Cost | Unit | Total Cost |
|---|---|---|---|---|---|
| 706 | Workover Rig | COMPLETION/WORKOVER RIG | $20,000 | 4 | $80,000 |
| 708 | Tool & Equipment Rental | SLICKLINE | $8,000.00 | 3 | $24,000 |
| 712 | Tool & Equipment Rental | GAS BUSTER - WO FLOWBACK IRON | $300.00 | 4 | $1,200 |
| 712 | Tool & Equipment Rental | PORTABLES | $500 | 4 | $2,000 |
| 712 | Tool & Equipment Rental | TELEHANDLER | $300 | 4 | $1,200 |
| 712 | Tool & Equipment Rental | CRANE | $4,500 | 4 | $18,000 |
| 712 | Tool & Equipment Rental | FLOWBACK IRON/CREW | $4,500 | 4 | $18,000 |
| 713 | Fuel & Power | FUEL FOR ON LOCATION EQUIPMENT | $3.0390 | 4000 | $12,156 |
| 717 | Trucking | FUEL TRUCKING (PER HOUR) | $150 | 8 | $1,200 |
| 717 | Trucking | TRUCKING | $2,500 | 4 | $10,000 |
| 721 | Cased hole wireline | CASED HOLE WL GR/JB COMBO | $15,000 | 1 | $15,000 |
| 722 | Downhole Tools & Service | 5-1/2" PACKER | $20,000 | 1 | $20,000 |
| 722 | Downhole Tools & Service | GAS LIFT SYSTEM | $25,000 | 1 | $25,000 |
| 722 | Downhole Tools & Service | FISHING TOOLS | $12,000 | 3 | $36,000 |
| 722 | Downhole Tools & Service | TUBING CUTTERS | $12,000 | 3 | $36,000 |
| 726 | Supervision | CONSULTING SERVICES/SUPERVISION | $1,800 | 8 | $14,400 |
| 727 | Contract Labor/Services | PACKER HAND | $1,550 | 2 | $3,100 |
| 727 | Contract Labor/Services | GAS LIFT SYSTEM HAND | $1,550 | 2 | $3,100 |
| 727 | Contract Labor/Services | TORQUE AND TEST | $2,500 | 2 | $5,000 |
| 727 | Contract Labor/Services | PRESSURE PUMPING SERVICES | $8,500.00 | 4 | $34,000 |
| 727 | Contract Labor/Services | WELLHEAD | $3,600.00 | 2 | $7,200 |
| 727 | Contract Labor/Services | MILEAGE | $2.50 | 1200 | $3,000 |
| 727 | Contract Labor/Services | PRODUCTION TUBING INSPECTION | $10,000.00 | 1 | $10,000 |
| 751 | Vaccum truck | VACUUM TRUCK | $2,100 | 4 | $8,400 |
| 752 | Water | 10 PPG BRINE FOR KILLING WELL | $12.00 | 400 | $4,800 |
| 752 | Water | WATER FOR TREATING, ETC. | $1.50 | 1000 | $1,500 |
| 755 | Production Tubing | PRODUCTION TUBING - 2-7/8" | $9.00 | 9360 | $84,240 |
| | **NOTE: 2-7/8" PRODUCTION TUBING IS FROM JD RUSH** | | | | |
| | | | | | |
| | | | | | **$478,496** |
| 747 | Contingencies (Miscellaneous) | | | **10%** | **$47,850** |
| | **Workover Total** | | | | **$526,346** |

**Current Completion**

NOVO

| | | | | | |
|---|---|---|---|---|---|
| WELL NAME | OVATION FED COM 1318 212H | | | FORMATION | WOLFCAMP XY |
| SURFACE LOCATION | 1,575' FNL & 702' FEL of Sec 14-T23S-R28E | | | API Number | 30-015-49073 |
| SURFACE LOCATION | N LATITUDE | 476090.54 | E | 628306.08 | |
| | | 32.30853198 | LONGITUDE | -104.05183249 | |
| BOTTOM-HOLE LOCATION | N LATITUDE | 475226.17 | E | 639413.03 | |
| | | 32.30606926 | LONGITUDE | -104.0158824 | |
| ELEVATION GL | 2,980 | COUNTY EDDY | FIELD | NORTHERN DELWARE BASIN | |
| KB / RKB | 27 / 3,006.90 | STATE NEW MEXICO | TVD/TMD | 9,823' /20,080' | |




| Joints | Spacing | Depth | Valve Pressure PSET/PTRO | PSO | PSC | Port | OD | Data |
|---|---|---|---|---|---|---|---|---|
| KB | 27.00 | 27.00 | | | | | | KB |
| Hanger | 0.50 | 27.50 | | | | | | Hanger |
| 1 | 32.62 | 60.12 | | | | | | 2 7/8 Jts. |
| Pup Jts. | 27.40 | 87.52 | | | | | | 10', 8', 6', 3' Pup Jt. |
| 43 | 1398.50 | 1486.02 | | | | | | 2 7/8 Jts. |
| GLV12 | 4.10 | 1490.12 | 1060 | 1098 | 1031 | 16 | 4.335 | GLV12 |
| 23 | 748.60 | 2238.72 | | | | | | 2 7/8 Jts. |
| GLV11 | 4.10 | 2242.82 | 1050 | 1071 | 1007 | 16 | 4.335 | GLV11 |
| 22 | 716.75 | 2959.57 | | | | | | 2 7/8 Jts. |
| GLV10 | 4.10 | 2963.67 | 1040 | 1047 | 983 | 16 | 4.335 | GLV10 |
| 22 | 719.15 | 3682.82 | | | | | | 2 7/8 Jts. |
| GLV9 | 4.10 | 3686.92 | 1030 | 1023 | 959 | 16 | 4.335 | GLV9 |
| 22 | 718.60 | 4405.52 | | | | | | 2 7/8 Jts. |
| GLV8 | 4.10 | 4409.62 | 1020 | 996 | 932 | 16 | 4.335 | GLV8 |
| 22 | 718.51 | 5128.13 | | | | | | 2 7/8 Jts. |
| GLV7 | 4.10 | 5132.23 | 1010 | 969 | 906 | 16 | 4.335 | GLV7 |
| 22 | 714.11 | 5846.34 | | | | | | 2 7/8 Jts. |
| GLV6 | 4.10 | 5850.44 | 1005 | 946 | 882 | 16 | 4.335 | GLV6 |
| 22 | 711.83 | 6562.27 | | | | | | 2 7/8 Jts. |
| GLV5 | 4.10 | 6566.37 | 1000 | 922 | 858 | 16 | 4.335 | GLV5 |
| 22 | 718.53 | 7284.90 | | | | | | 2 7/8 Jts. |
| GLV4 | 4.10 | 7289.00 | 995 | 897 | 833 | 16 | 4.335 | GLV4 |
| 22 | 718.03 | 8007.03 | | | | | | 2 7/8 Jts. |
| GLV3 | 4.10 | 8011.13 | 990 | 874 | 807 | 16 | 4.335 | GLV3 |
| 22 | 718.18 | 8729.31 | | | | | | 2 7/8 Jts. |
| GLV2 | 4.10 | 8733.41 | 990 | 851 | 784 | 16 | 4.335 | GLV2 |
| 23 | 749.31 | 9482.72 | | | | | | 2 7/8 Jts. |
| X-Nipple | 0.87 | 9483.59 | | | | | | 2.31 X Nipple |
| 1 | 32.66 | 9516.25 | | | | | | 2 7/8 Jts. |
| GLV1 | 4.10 | 9520.35 | 920 | 734 | 682 | 16 | 4.335 | GLV1 |
| 1 | 32.60 | 9552.95 | | | | | | 2 7/8 Jts. |
| On/Off Tool | 1.60 | 9554.55 | | | | | 4.500 | 5.5 On/Off Tool |
| X Stinger | 0.30 | 9554.85 | | | | | | 2.31 X Stinger |
| Packer | 7.20 | 9562.05 | | | | | 4.500 | AS1-X Packer |
| Pup Jt. | 6.10 | 9568.15 | | | | | | Pup Jt. |
| Pup Jt. | 6.10 | 9574.25 | | | | | | Pup Jt. |
| XN Nipple | 0.86 | 9575.11 | | | | | | 2.31 XN Nipple |
| POP | 0.48 | 9575.59 | | | | | | POP |
| | | 9575.59 | | | | | | |
| | | 9575.59 | | | | | | |
| | | 9575.59 | | | | | | |

Remarks: 14 Points Compression 62 Pick up 50 Sit down
For: Ricky Collins
Thanks For The Work!

Apergy | Gas Lift
Marcelo Acosta

| Perforated Intervals | | |
|---|---|---|
| Stage | Top (ft) | Bottom (ft) |
| 1 | 19650 | 19920 |
| 2 | 19356 | 19626 |
| 3 | 19062 | 19332 |
| 4 | 18768 | 19038 |
| 5 | 18474 | 18744 |
| 6 | 18180 | 18450 |
| 7 | 17886 | 18156 |
| 8 | 17592 | 17862 |
| 9 | 17298 | 17568 |
| 10 | 17004 | 17274 |
| 11 | 16710 | 16980 |
| 12 | 16415 | 16686 |
| 13 | 16122 | 16392 |
| 14 | 15832 | 16098 |
| 15 | 15534 | 15804 |
| 16 | 15240 | 15510 |
| 17 | 14946 | 15216 |
| 18 | 14651 | 14919 |
| 19 | 14358 | 14628 |
| 20 | 14064 | 14334 |
| 21 | 13773 | 14042 |
| 22 | 13476 | 13746 |
| 23 | 13182 | 13452 |
| 24 | 12892 | 13155 |
| 25 | 12594 | 12864 |
| 26 | 12300 | 12570 |
| 27 | 12007 | 12276 |
| 28 | 11712 | 11982 |
| 29 | 11416 | 11688 |
| 30 | 11124 | 11394 |
| 31 | 10830 | 11100 |
| 32 | 10536 | 10818 |
| 33 | 10242 | 10524 |
| 34 | 10022 | 10218 |

290 joints + 4 subs 2-7/8", 6.5 #/ft L80 tubing + 12 GL valves
1 On/Off Tool 5.5" x 2-7/8"
1 X-Stinger profile x 2-7/8"
1 Packer 5.5" AS1-X x 2-7/8" **set @ 9,554.85 ft (top)**
2 six ft pup-joints 2-7/8", 6.5 #/ft L80 tubing
1 XN-Nipple 3.66" OD, 2.205" ID
1 pump out sub/Wireline re-entry guide 3.67" OD, 2.8" ID
**EOT @ 9,575.59 ft MD**

GAS LIFT INSTALLATION SHEET

Date Installed: 10/16/2022

CHAMPIONX | Gas Lift
PCS Ferguson

| Tubing | | Casing | | Liner | |
|---|---|---|---|---|---|
| Size: | 2 7/8 | Size: | 5.5 | O.D.: | N/A |
| Thread: | 8RD EUE | Weight: | 20# | I.D.: | N/A |
| No. Joints: | 290 | Perfs: | 9823 TVD | Top: | N/A |

| Design Info. | | Gas Pressure | | Fluid | |
|---|---|---|---|---|---|
| Fluid Rates: | 3000 | Kickoff: | 1100 | % Water: | 80% |
| PWH: | 350 | Operating: | 1100 | Kill Fluid Gradient: | 0.52 |
| | | Gas Gravity: | 0.75 | | |

| | |
|---|---|
| Company: | Novo |
| Lease: | Ovation Fed Com 1318 |
| Well No. : | 212H |
| Field: | Eddy Co, NM |

| Packer | |
|---|---|
| Type: | 5.5 AS1-X |
| Weight/OD: | 20# |
| Depth MD: | 9560 |

| Valves | |
|---|---|
| Size: | 1" 16 Port |
| Type Oper. | IPO |
| Type Checks: | Reverse Checks |
| Mandrel Size | 2 7/8 |
| Type: | Conventional |

Average lateral TVD @ 9,823 ft

5-1/2" 20# P110HC Set @ 20,080 ft
TOC @ 4,414 ft

Schematic by Paul Jobe Senior Operations Engineer Date: October 25, 2022

# CAPITAL WORKOVER PROCEDURE

| Well | Property Number | AFE Number |
|---|---|---|
| OVATION FED COM 1318 212H | 30015-10068 | 4500069 |

Responsibility Paul Jobe – Senior Operations Engineer
Brad Walls – Production Superintendent
Aaron Cattley – Senior Operations Engineer
Aaron Roberge – Completion Superintendent
Rocky Garlow – Completion Superintendent

Procedure Date: August 5, 2023 - Edited August 24, 2023

**OVATION FED COM 1318 212H**
**API #: 30-015-49073**

**WOLFCAMP XY INTERVAL**

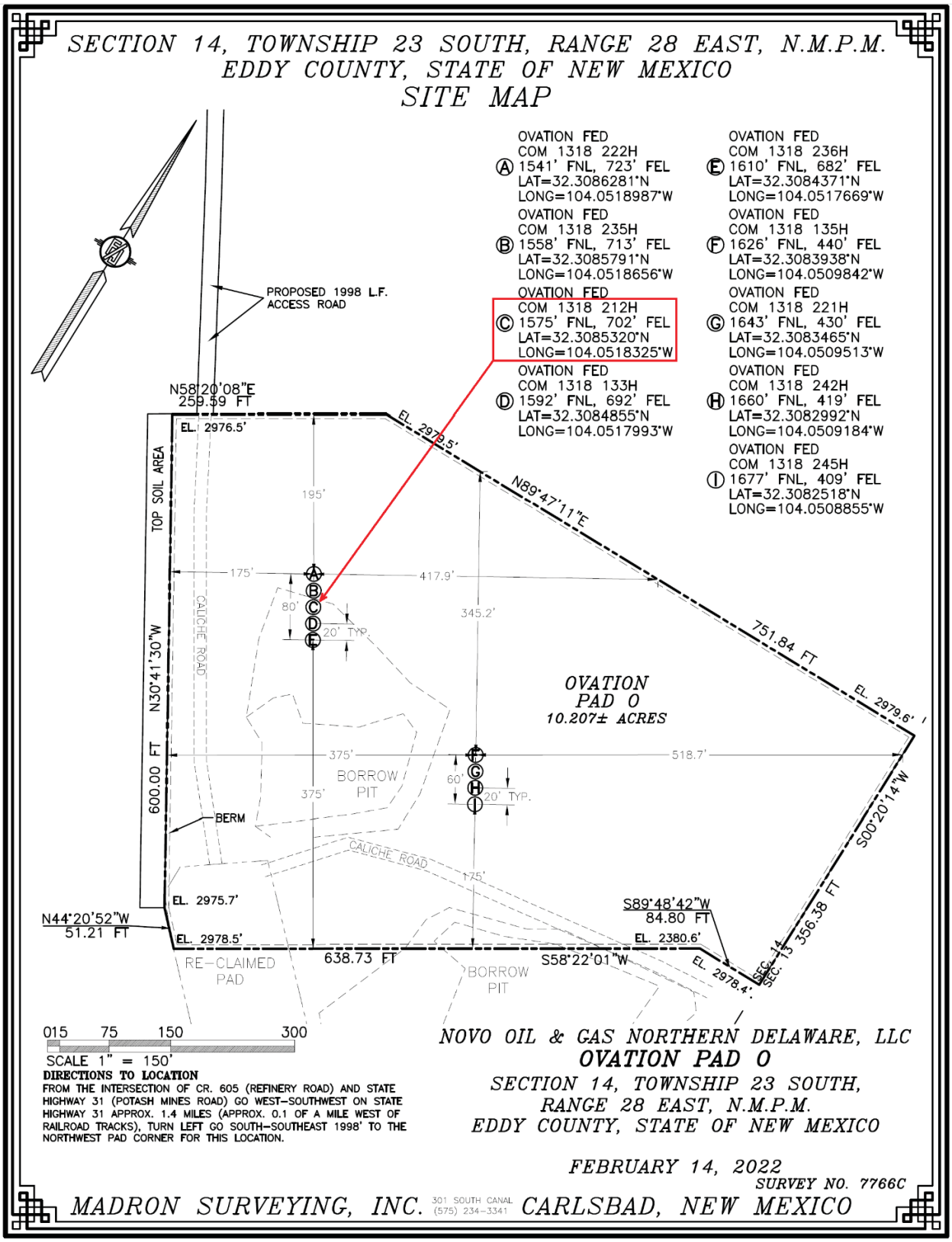
**GPS Coordinates: 32.30853198, -104.05183249**

Eddy County, NM

Directions: From Carlsbad, Travel South on Highway 285 for 7.7 miles. Turn left on New Mexico State Road 31(Potash Mines Rd) and travel 3.9 miles Turn right on to lease road and go 0.25 miles to location.

Novo Oil & Gas, LLC

**Wellsite Layout – Ovation Fed Com 1318 Pad O**



# OVATION FED COM 1318 212H
# Workover Background and Scope

**Executive Summary:**
Production from the Ovation Fed Com 1318 212H began November 1, 2022, and the well flowed up tubing until December 28, 2022 when gas-lift injection was initialized. Since that time production from the well has been assisted by the gas-lift system via annular gas injection. Through multiple Crestwood downtime and pressure events since April 4, 2023, the well has struggled to maintain consistent flow. Since the beginning of July 2023, the pressure differential between tubing and casing has steadily diminished to the point where they have equalized. The well was shut-in July 9 to evaluate fluid level and it level was found to be at 1,500 ft from surface. A test of the tubing and casing pressures indicate either a hole in the tubing or a cut gas-lift valve. Either of those preclude any measurable production contribution from the reservoir.

**Scope of Workover:**
This workover is being proposed to remove and inspect the existing tubing, gas-lift system, packer and BHA, replace all joints and components that are damaged beyond reuse, then rerun tubing and gas-lift back into the well and return the well to production utilizing annular gas injection.

- Due to the deviated trajectory of this well, there is potential that we will not be able to deliver enough torque to unset the packer. This has been the case with other workovers on this pad. If this scenario is encountered the scope of the workover will include running free-point calculations, cutting tubing, then running the hole with fishing tools and work-string to retrieve tubing and packer. Historically we have been free all the way to the packer, just unable to deliver enough torque through the production tubing to unset the packer.

# OVATION FED COM 1318 212H
# Workover Procedure

| | |
|---|---|
| Casing: | 5 1/2" 20# P-110 set at 20,080 ft |
| Liner: | None |
| Tubing: | 2-7/8", 6.5 #/ft L80 tubing and gas-lift system. EOT @ 9,575.59 ft |
| Elevation: | 2,980 ft GL 3,006.90 KB |
| Average Lateral TVD: | 9,823 ft |

**Pre-Job safety meeting**

Before any work is performed there will be a tailgate safety meeting held to discuss the job details, hazards and inspection of equipment. Make sure all safety equipment in proper place: chock blocks, grounding cables, and fire extinguishers.

- Fall protection is required when working at heights. A man lift will be used when deemed appropriate by Novo company representative. Fall protection is required at all times while working from a man lift.
- Well and tubing string information will be given by the Novo company representative.
- Understanding of max pull capabilities of workover rig, and weight of tubing in well, as well as weight of work string.
- Proper PPE required to perform work
- Designated smoking area
- Emergency evacuation procedure and designated muster areas
- Job procedures and designated duties and responsibilities
- Contingency plans specific to each vendor involved in operations

8/5/2023:

1. MIRU WOR.
2. MIRU auxiliary equipment.
3. Kill well with weighted brine.
4. Install back-pressure valve, remove tree, install and test BOPs.
5. Remove back-pressure valve.

8/6/2023:

6. Unset packer at 9,555 ft and pull out of the hole with the existing tubing and gas- lift system, packer and BHA. NOTE: Inspect tubing as it comes out of the hole to locate the hole in the tubing and to determine how many joints need to be replaced when re-running tubing and gas-lift system. If the tubing is in bad shape as it comes out of the well, lay down and contact Audra Manning with JD Rush to have a new tubing string delivered to location. Also contact Champion-X to provide gas-lift system replacement.
7. **NOTE: If packer will not unset and we cannot J off the packer, we will move into tubing recovery mode, running free-point calculations, cutting tubing below deepest gas-lift mandrel and pulling out of the hole with tubing and gas-lift system, then going back in with overshot and jars to get the packer and remaining tubing. IF THIS CONTINGENCY BECOMES NECESSARY, WE WILL HAVE A CALL TO DISCUSS PRIOR TO CUTTING TUBING.**

8. RIH with gauge-ring/junk-basket combo to 9,400 ft ensure casing is clear, then POOH with same.

8/7/2023:

9. Run in hole on wireline with packer and BHA as below and set packer at **9,360 ft**.

    - 1 AS1X packer 2-7/8" x 5-1/2" 20 #/ft
    - Stringer nipple in top of packer with 2.31" ID profile
    - 2 pup-joints 2-7/8", 6.5 #/ft L80 tubing
    - 1 XN-Nipple 3.66" OD, 2.2" ID x profile x 2-7/8"
    - 1 pump out sub/Wireline re-entry guide 3.67" OD, 2.8" ID

10. Pick up and run-in hole with 2-7/8, 6.5#/ft L80 production tubing and gas-lift system as described in attached Gas Lift Design. *Actual tubing depths will be as per on location calculations for depths based on actual tubing lengths.*

11. **Sting into packer at 9,360 ft**.

12. EOT @ ~9,381 ft.

13. Space out and land tubing in tubing head, install back-pressure valve in tubing, remove BOP, and reinstall wellhead.

14. Remove back-pressure valve.

15. Rig up pump truck and pump through tubing and BHA to ensure all is clear.

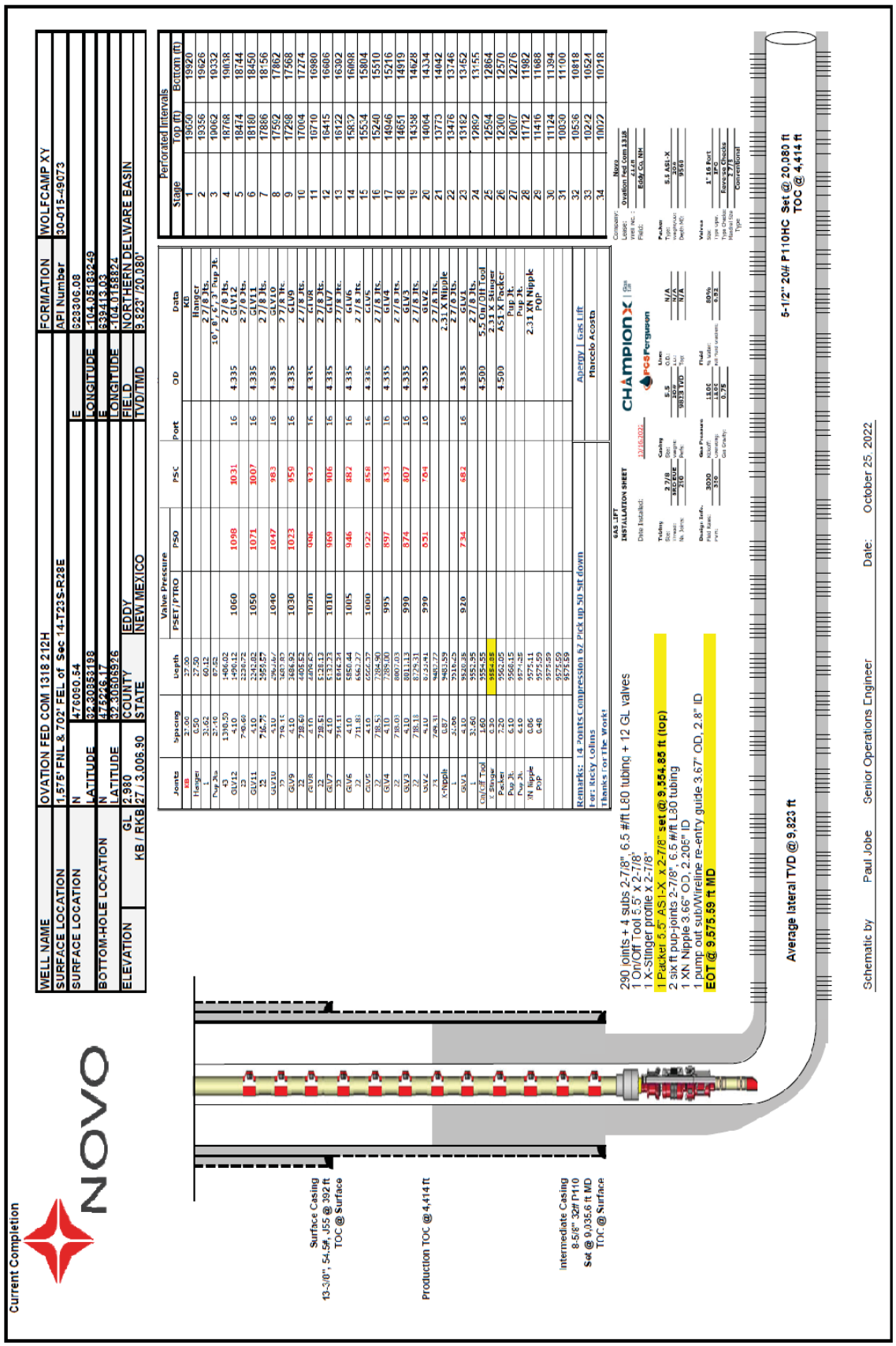
16. Rig down and move off workover rig and auxiliary equipment.

17. Finalize surface connections.

18. Return well to production and gas-lift injection.

Novo Oil & Gas, LLC

**Current Well Schematic – Ovation Fed Com 1318 212H**:




| Joints | Spacing | Depth | Valve Pressure PSET/PTRO | PSO | PSC | Port | OD | Data |
|---|---|---|---|---|---|---|---|---|
| Hanger | 6.50 | 27.50 | | | | | | Hanger |
| 1 | 31.62 | 60.12 | | | | | | 2 7/8 Jts. |
| Pup Jts | 37.40 | 97.52 | | | | | | 10', 8', 6', 3' Pup Jt. |
| 43 | 1390.50 | 1406.02 | 1060 | 1098 | 3031 | 16 | 4.335 | 2 7/8 Jts. |
| GLV12 | 4.10 | 1496.12 | | | | | | GLV12 |
| 23 | 748.60 | 2226.72 | | | | | | 2 7/8 Jts. |
| GLV11 | 4.10 | 2285.82 | 1050 | 1071 | 3007 | 16 | 4.335 | GLV11 |
| 23 | 748.75 | 3034.57 | | | | | | 2 7/8 Jts. |
| GLV10 | 4.10 | 3042.67 | 1040 | 1047 | 983 | 16 | 4.335 | GLV10 |
| 23 | 748.15 | 3820.82 | | | | | | 2 7/8 Jts. |
| GLV9 | 4.10 | 3686.92 | 1030 | 1023 | 959 | 16 | 4.335 | GLV9 |
| 23 | 748.60 | 4435.62 | | | | | | 2 7/8 Jts. |
| GLV8 | 4.10 | 4804.25 | 1020 | 998 | 937 | 16 | 4.335 | GLV8 |
| 23 | 748.51 | 5128.13 | | | | | | 2 7/8 Jts. |
| GLV7 | 4.10 | 5187.33 | 1010 | 969 | 906 | 16 | 4.335 | GLV7 |
| 23 | 748.51 | 5935.84 | | | | | | 2 7/8 Jts. |
| GLV6 | 4.10 | 5850.44 | 1005 | 946 | 882 | 16 | 4.335 | GLV6 |
| 22 | 711.83 | 6562.27 | | | | | | 2 7/8 Jts. |
| GLV5 | 4.10 | 6666.37 | 1000 | 922 | 858 | 16 | 4.335 | GLV5 |
| 22 | 748.53 | 7284.90 | | | | | | 2 7/8 Jts. |
| GLV4 | 4.10 | 7389.00 | 995 | 897 | 833 | 16 | 4.335 | GLV4 |
| 22 | 748.60 | 8001.60 | | | | | | 2 7/8 Jts. |
| GLV3 | 4.10 | 8111.70 | 990 | 874 | 807 | 16 | 4.335 | GLV3 |
| 22 | 718.18 | 8729.31 | | | | | | 2 7/8 Jts. |
| GLV2 | 4.10 | 8733.41 | 990 | 851 | 784 | 16 | 4.335 | GLV2 |
| 23 | 749.31 | 9482.22 | | | | | | 2 7/8 Jts. |
| X-Nipple | 0.87 | 9483.59 | | | | | | 2.31 X Nipple |
| 1 | 31.06 | 9514.25 | | | | | | 2 7/8 Jts. |
| GLV1 | 31.40 | 9545.38 | 920 | 734 | 682 | 16 | 4.335 | 2 7/8 Jts. |
| 1 | 31.60 | 9576.55 | | | | | | 2 7/8 Jts. |
| On/Off Tool | 1.60 | 9554.55 | | | | | 4.500 | 5.5 On/Off Tool |
| X Stinger | 0.30 | 9584.85 | | | | | | 2.31 X Stinger |
| Packer | 7.20 | 9562.05 | | | | | 4.500 | AS1-X Packer |
| Pup Jt. | 6.10 | 9568.15 | | | | | | Pup Jt. |
| Pup Jt. | 6.10 | 9577.25 | | | | | | Pup Jt. |
| XN Nipple | 0.86 | 9575.11 | | | | | | 2.31 XN Nipple |
| POP | 0.48 | 9575.59 | | | | | | POP |
| | | 9575.59 | | | | | | |
| | | 9575.59 | | | | | | |

| Perforated Intervals | | |
|---|---|---|
| Stage | Top (ft) | Bottom (ft) |
| 1 | 19020 | 19920 |
| 2 | 19356 | 19626 |
| 3 | 19062 | 19332 |
| 4 | 18768 | 19038 |
| 5 | 18474 | 18744 |
| 6 | 18180 | 18450 |
| 7 | 17886 | 18156 |
| 8 | 17592 | 17862 |
| 9 | 17298 | 17568 |
| 10 | 17004 | 17274 |
| 11 | 16710 | 16980 |
| 12 | 16415 | 16606 |
| 13 | 16122 | 16302 |
| 14 | 15828 | 16008 |
| 15 | 15534 | 15804 |
| 16 | 15240 | 15510 |
| 17 | 14946 | 15216 |
| 18 | 14651 | 14919 |
| 19 | 14358 | 14628 |
| 20 | 14064 | 14334 |
| 21 | 13770 | 14042 |
| 22 | 13476 | 13746 |
| 23 | 13182 | 13452 |
| 24 | 12889 | 13155 |
| 25 | 12594 | 12864 |
| 26 | 12300 | 12570 |
| 27 | 12007 | 12276 |
| 28 | 11712 | 11982 |
| 29 | 11416 | 11688 |
| 30 | 11124 | 11394 |
| 31 | 10830 | 11100 |
| 32 | 10536 | 10818 |
| 33 | 10242 | 10524 |
| 34 | 10022 | 10218 |

Novo Oil & Gas, LLC

**Gas Lift Installation Calculation Sheet – depths dependent on actual tubing lengths**

| OVATION FED COM 1318 212H - UPDATED DESIGN - PACKER AT 9,360 FT | | | | |
|---|---|---|---|---|
| Item | Description | Length each (ft) | Length (ft) | MD (ft) |
| 46 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 1502.82 | 1502.82 |
| 1 | GLV-12 **top** | 4.1 | 4.1 | 1502.82 |
| 22 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 718.74 | 2225.66 |
| 1 | GLV-11 **top** | 4.1 | 4.1 | 2225.66 |
| 21 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 686.07 | 2916 |
| 1 | GLV-10 **top** | 4.1 | 4.1 | 2916 |
| 23 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 751.41 | 3671 |
| 1 | GLV-9 **top** | 4.1 | 4.1 | 3671 |
| 21 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 686.07 | 4362 |
| 1 | GLV-8 **top** | 4.1 | 4.1 | 4362 |
| 22 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 718.74 | 5084 |
| 1 | GLV-7 **top** | 4.1 | 4.1 | 5084 |
| 21 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 686.07 | 5775 |
| 1 | GLV-6 **top** | 4.1 | 4.1 | 5775 |
| 22 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 718.74 | 6497 |
| 1 | GLV-5 **top** | 4.1 | 4.1 | 6497 |
| 22 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 718.74 | 7220 |
| 1 | GLV-4 **top** | 4.1 | 4.1 | 7220 |
| 21 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 686.07 | 7910 |
| 1 | GLV-3 **top** | 4.1 | 4.1 | 7910 |
| 22 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 718.74 | 8633 |
| 1 | GLV-2 **top** | 4.1 | 4.1 | 8633 |
| 21 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 686.07 | 9323 |
| 1 | GLV (OV)-1 **top** | 4.1 | 4.1 | 9323 |
| 1 | joints 2-7/8", 6.5 #/ft EUE L80 tubing | 32.67 | 32.67 | 9360 |
| 1 | On/Off Tool 5.5" x 2 7/8" | 2 | 2 | 9362 |
| 1 | Packer 5.5" AS1-X x 2-7/8" w/ 2.31" ID profile - t | 6 | 6 | 9362 |
| 2 | pup-joints 2-7/8", 6.5 #/ft EUE L80 tubing | 6 | 12 | 9380 |
| 1 | XN-Nipple 3.66" OD, 2.2" ID x profile x 2-7/8" | 0.82 | 0.82 | 9380 |
| 1 | Pump-out Plug/Wireline re-entry guide | 0.42 | 0.42 | 9381 |

Novo Oil & Gas, LLC

## Cost Estimate

**Ovation Fed Com 1318 212H**

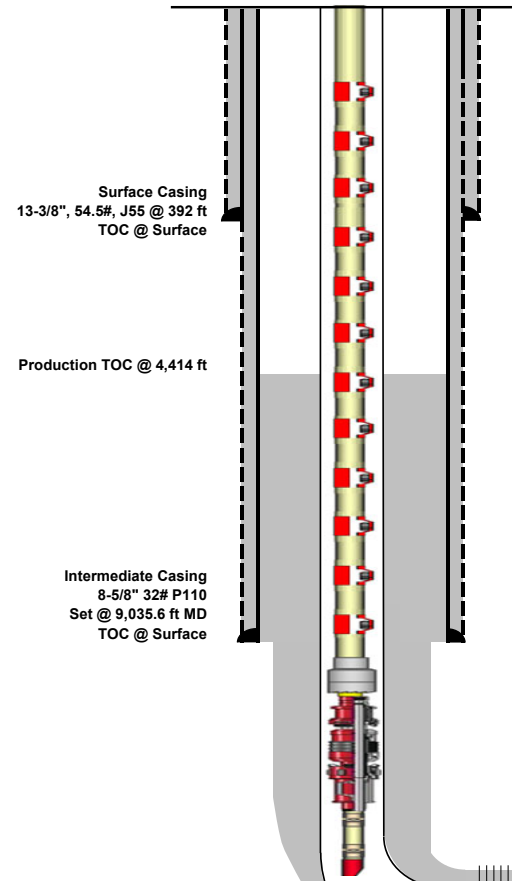
**July 26, 2023**

| Acct Code | Category | Descripton | Unit Cost | Unit | Total Cost |
|---|---|---|---|---|---|
| 706 | Workover Rig | COMPLETION/WORKOVER RIG | $20,000 | 4 | $80,000 |
| 708 | Tool & Equipment Rental | SLICKLINE | $8,000.00 | 3 | $24,000 |
| 712 | Tool & Equipment Rental | GAS BUSTER - WO FLOWBACK IRON | $300.00 | 4 | $1,200 |
| 712 | Tool & Equipment Rental | PORTABLES | $500 | 4 | $2,000 |
| 712 | Tool & Equipment Rental | TELEHANDLER | $300 | 4 | $1,200 |
| 712 | Tool & Equipment Rental | CRANE | $4,500 | 4 | $18,000 |
| 712 | Tool & Equipment Rental | FLOWBACK IRON/CREW | $4,500 | 4 | $18,000 |
| 713 | Fuel & Power | FUEL FOR ON LOCATION EQUIPMENT | $3.0390 | 4000 | $12,156 |
| 717 | Trucking | FUEL TRUCKING (PER HOUR) | $150 | 8 | $1,200 |
| 717 | Trucking | TRUCKING | $2,500 | 4 | $10,000 |
| 721 | Cased hole wireline | CASED HOLE WL GR/JB COMBO | $15,000 | 1 | $15,000 |
| 722 | Downhole Tools & Service | 5-1/2" PACKER | $20,000 | 1 | $20,000 |
| 722 | Downhole Tools & Service | GAS LIFT SYSTEM | $25,000 | 1 | $25,000 |
| 722 | Downhole Tools & Service | FISHING TOOLS | $12,000 | 3 | $36,000 |
| 722 | Downhole Tools & Service | TUBING CUTTERS | $12,000 | 3 | $36,000 |
| 726 | Supervision | CONSULTING SERVICES/SUPERVISION | $1,800 | 8 | $14,400 |
| 727 | Contract Labor/Services | PACKER HAND | $1,550 | 2 | $3,100 |
| 727 | Contract Labor/Services | GAS LIFT SYSTEM HAND | $1,550 | 2 | $3,100 |
| 727 | Contract Labor/Services | TORQUE AND TEST | $2,500 | 2 | $5,000 |
| 727 | Contract Labor/Services | PRESSURE PUMPING SERVICES | $8,500.00 | 4 | $34,000 |
| 727 | Contract Labor/Services | WELLHEAD | $3,600.00 | 2 | $7,200 |
| 727 | Contract Labor/Services | MILEAGE | $2.50 | 1200 | $3,000 |
| 727 | Contract Labor/Services | PRODUCTION TUBING INSPECTION | $10,000.00 | 1 | $10,000 |
| 751 | Vaccum truck | VACUUM TRUCK | $2,100 | 4 | $8,400 |
| 752 | Water | 10 PPG BRINE FOR KILLING WELL | $12.00 | 400 | $4,800 |
| 752 | Water | WATER FOR TREATING, ETC. | $1.50 | 1000 | $1,500 |
| 755 | Production Tubing | PRODUCTION TUBING - 2-7/8" | $9.00 | 9360 | $84,240 |
| | **NOTE: 2-7/8" PRODUCTION TUBING IS FROM JD RUSH** | | | | |
| | | | | | |
| | | | | | **$478,496** |
| 747 | Contingencies (Miscellaneous) | | | **10%** | **$47,850** |
| | **Workover Total** | | | | **$526,346** |

**Current Completion**

NOVO

| | | | | | | |
|---|---|---|---|---|---|---|
| WELL NAME | OVATION FED COM 1318 212H | | | | FORMATION | WOLFCAMP XY |
| SURFACE LOCATION | 1,575' FNL & 702' FEL of Sec 14-T23S-R28E | | | | API Number | 30-015-49073 |
| SURFACE LOCATION | N | 476090.54 | | E | 628306.08 | |
| | LATITUDE | 32.30853198 | | LONGITUDE | -104.05183249 | |
| BOTTOM-HOLE LOCATION | N | 475226.17 | | E | 639413.03 | |
| | LATITUDE | 32.30606926 | | LONGITUDE | -104.0158824 | |
| ELEVATION GL | 2,980 | COUNTY | EDDY | FIELD | NORTHERN DELWARE BASIN | |
| KB / RKB | 27 / 3,006.90 | STATE | NEW MEXICO | TVD/TMD | 9,823' /20,080' | |




GAS LIFT INSTALLATION SHEET — CHAMPIONX | PCS Ferguson

Company: Novo Oil 8
Lease: Ovation Fed C
Well No. : 212H
Field: Northern Delav

Date Installed: 8/6/2023

Tubing — Size: 2.875" | Thread: EUE | No. Joints: 283

Casing — Size: 5.5" | Weight: 20# | Perfs:

Liner — O.D.: | I.D.: | Top:

Packer — Type: Wireline Set | Weight/OD: 20-23# / 4.5 | Depth MD:

Valves — Size: 1" 16 P | Type Oper.: IPO | Type Checks: Reverse Cl | Mandrel Size Type: 2.875 Conventi

Design Info. — Fluid Rates: 3000 | PWH: 350

Gas Pressure — Kickoff: 1100 | Operating: 1100 | Gas Gravity: 0.75

Fluid — % Water: 80% | Kill Fluid Gradient: 0.52

| Joints | Spacing | Depth | Valve Pressure PSET/PTRO | Surface Pressure PSO (Opening) | Surface Pressure PSC (Closing) | Port | OD | Data |
|---|---|---|---|---|---|---|---|---|
| KB | 26.00 | 26.00 | | | | | | K.B. |
| Hanger | 0.50 | 26.50 | | | | | 2.875 | Tubing Ha / 2.875" L-80 6 |
| 1 | 32.80 | 59.30 | | | | | 2.875 | 2.875" L-80 6.5 |
| SUBS | 3.00 | 62.30 | | | | | 2.875 | 2.875" L-80 6 |
| 44 | 1443.62 | 1505.92 | | | | | 4.335 | 2.875" 1" M |
| GLV #12 | 4.10 | 1510.02 | 1070 | 1099 | 1035 | 16 | 2.875 | 2.875" L-80 6 |
| 21 | 688.11 | 2198.13 | | | | | 4.335 | 2.875" 1" M |
| GLV #11 | 4.10 | 2202.23 | 1060 | 1075 | 1011 | 16 | 2.875 | 2.875" L-80 6 |
| 22 | 721.49 | 2923.72 | | | | | 4.335 | 2.875" 1" M |
| GLV #10 | 4.10 | 2927.82 | 1050 | 1048 | 984 | 16 | 2.875 | 2.875" L-80 6 |
| 21 | 688.23 | 3616.05 | | | | | 4.335 | 2.875" 1" M |
| GLV #9 | 4.10 | 3620.15 | 1040 | 1025 | 961 | 16 | 2.875 | 2.875" L-80 6 |
| 22 | 721.09 | 4341.24 | | | | | 4.335 | 2.875" 1" M |
| GLV #8 | 4.10 | 4345.34 | 1030 | 998 | 934 | 16 | 2.875 | 2.875" L-80 6 |
| 22 | 721.08 | 5066.42 | | | | | 4.335 | 2.875" 1" M |
| GLV #7 | 4.10 | 5070.52 | 1025 | 975 | 911 | 16 | 2.875 | 2.875" L-80 6 |
| 22 | 720.89 | 5791.41 | | | | | 4.335 | 2.875" 1" M |
| GLV #6 | 4.10 | 5795.51 | 1015 | 948 | 884 | 16 | 2.875 | 2.875" L-80 |
| 21 | 687.99 | 6483.50 | | | | | 4.335 | 2.875" 1" M |
| GLV #5 | 4.10 | 6487.60 | 1010 | 923 | 860 | 16 | 2.875 | 2.875" L-80 |
| 22 | 720.47 | 7208.07 | | | | | 4.335 | 2.875" 1" M |
| GLV #4 | 4.10 | 7212.17 | 1005 | 898 | 834 | 16 | 2.875 | 2.875" L-80 |
| 21 | 679.30 | 7891.47 | | | | | 4.335 | 2.875" 1" M |
| GLV #3 | 4.10 | 7895.57 | 1000 | 872 | 808 | 16 | 2.875 | 2.875" L-80 |
| 22 | 720.68 | 8616.25 | | | | | 4.335 | 2.875" 1" M |
| GLV #2 | 4.10 | 8620.35 | 995 | 843 | 781 | 16 | 2.875 | 2.875" L-80 |
| 20 | 654.27 | 9274.62 | | | | | 3.680 | X-Nip 2 |
| X-NIPPLE | 0.87 | 9275.49 | | | | | 2.875 | 2.875" L-80 |
| 1 | 32.78 | 9308.27 | | | | | 4.335 | 2.875" 1" M |
| GLV #1 | 4.10 | 9312.37 | 925 | 728 | 681 | 16 | 2.875 | 2.875" L-80 |
| 1 | 32.70 | 9345.07 | | | | | 4.500 | 4.5 ON/O |
| ON/OFF | 1.45 | 9346.52 | | | | | 3.250 | 2.31X S |
| STINGER | 1.30 | 9347.82 | | | | | 4.500 | AS1X 4.5 |
| AS1-X | 4.35 | 9352.17 | | | | | 2.875 | 2.875" L-80 |
| SUB | 6.10 | 9358.27 | | | | | 2.875 | 2.875" L-80 |
| SUB | 6.12 | 9364.39 | | | | | 3.680 | 2.31XN Nip(2 |
| XN-NIPPLE | 0.95 | 9365.34 | | | | | 3.680 | Pump ou |
| P.O.P. | 0.45 | 9365.79 | | | | | | |
| | | 9365.79 | | | | | | |
| | | 9365.79 | | | | | | |
| | | 9365.79 | | | | | | |
| | | 9365.79 | | | | | | |
| | | 9365.79 | | | | | | |
| | | 9365.79 | | | | | | |

emarks: 68 up; 65 N ; 60 Down with 15 points on packer

ompany Rep: Mike James

CHAMPIONX Service Rep: Waldo

| Perforated Intervals | | |
|---|---|---|
| Stage | Top (ft) | Bottom (ft) |
| 1 | 19650 | 19920 |
| 2 | 19356 | 19626 |
| 3 | 19062 | 19332 |
| 4 | 18768 | 19038 |
| 5 | 18474 | 18744 |
| 6 | 18180 | 18450 |
| 7 | 17886 | 18156 |
| 8 | 17592 | 17862 |
| 9 | 17298 | 17568 |
| 10 | 17004 | 17274 |
| 11 | 16710 | 16980 |
| 12 | 16415 | 16686 |
| 13 | 16122 | 16392 |
| 14 | 15832 | 16098 |
| 15 | 15534 | 15804 |
| 16 | 15240 | 15510 |
| 17 | 14946 | 15216 |
| 18 | 14651 | 14919 |
| 19 | 14358 | 14628 |
| 20 | 14064 | 14334 |
| 21 | 13773 | 14042 |
| 22 | 13476 | 13746 |
| 23 | 13182 | 13452 |
| 24 | 12892 | 13155 |
| 25 | 12594 | 12864 |
| 26 | 12300 | 12570 |
| 27 | 12007 | 12276 |
| 28 | 11712 | 11982 |
| 29 | 11416 | 11688 |
| 30 | 11124 | 11394 |
| 31 | 10830 | 11100 |
| 32 | 10536 | 10818 |
| 33 | 10242 | 10524 |
| 34 | 10022 | 10218 |

283 joints + 1 sub 2-7/8", 6.5 #/ft L80 tubing + 12 GL valves, 1 On/Off Tool 5.5" x 2-7/8", 1 X-Stinger profile x 2-7/8", 1 Packer 5.5" AS1-X x 2-7/8" **set @ 9,347.82 ft (top) (9,352.17 ft bottom),** 2 six ft pup-joints 2-7/8", 6.5 #/ft L80 tubing, 1 XN-Nipple 3.66" OD, 2.205" ID, 1 pump out sub/Wireline re-entry guide 3.67" OD, 2.8" ID,

**Average lateral TVD @ 9,823 ft**

**5-1/2" 20# P110HC Set @ 20,080 ft**
**TOC @ 4,414 ft**

Schematic by Paul Jobe Senior Operations Engineer Date: August 7, 2023

**District I**
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
**District II**
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
**District III**
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
**District IV**
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 258350

## CONDITIONS

| | |
|---|---|
| Operator:<br>NOVO OIL & GAS NORTHERN DELAWARE, LLC<br>1001 West Wilshire Blvd<br>Oklahoma City, OK 73116 | OGRID:<br>372920 |
| | Action Number:<br>258350 |
| | Action Type:<br>[C-103] Sub. Workover (C-103R) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| dmcclure | None | 9/5/2023 |