

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.

5. Lease Serial No. NMNM0542015

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

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

3a. Address 228 ST. CHARLES AVENUE, SUITE 912, NEW 3b. Phone No. (include area code)
(504) 523-1831

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

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

8. Well Name and No. OVATION FED COM 1318/222H

9. API Well No. 3001549074

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

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				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 recompleate 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.)

7/27/2023 - 8/2/2023: 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

Contractor
Title

Signature

Date
08/24/2023

THE SPACE FOR FEDERAL OR STATE OFFICE USE

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

Petroleum Engineer
Title

08/25/2023
Date

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 of this form to U.S. Department of the Interior, Bureau of Land 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 / 1541 FNL / 723 FEL / TWSP: 23S / RANGE: 28E / SECTION: 14 / LAT: 32.3086281 / LONG: -104.0518987 (TVD: 0 feet, MD: 0 feet)

PPP: SWNW / 1528 FNL / 276 FWL / TWSP: 23S / RANGE: 28E / SECTION: 13 / LAT: 32.3086636 / LONG: -104.0486655 (TVD: 9660 feet, MD: 9850 feet)

BHL: SENE / 1530 FNL / 130 FEL / TWSP: 23S / RANGE: 29E / SECTION: 18 / LAT: 32.3081797 / LONG: -104.0157619 (TVD: 9930 feet, MD: 20120 feet)

Well Name: OVATION FED COM 1318	Well Location: T23S / R28E / SEC 14 / SENE / 32.3086281 / -104.0518987	County or Parish/State: EDDY / NM
Well Number: 222H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0542015	Unit or CA Name:	Unit or CA Number:
US Well Number: 300154907400X1	Well Status: Drilling Well	Operator: NOVO OIL AND GAS NORTHERN DELAWARE LLC

Subsequent Report

Sundry ID: 2747780

Type of Submission: Subsequent Report Type of Action: Workover Operations

Date Sundry Submitted: 08/24/2023 Time Sundry Submitted: 12:26

Date Operation Actually Began: 07/27/2023

Actual Procedure: 7/27/2023 - 8/2/2023: Workover to repair hole in tubing and replace necessary tubing and gas lift system. See attachments.

SR Attachments

Actual Procedure

Ovation_Fed_Com_1318_222H_tbg_workover_procedure_revised_and_WBD_attachments_20230824122549.pdf

Well Name: OVATION FED COM 1318	Well Location: T23S / R28E / SEC 14 / SENE / 32.3086281 / -104.0518987	County or Parish/State: EDDY / NM
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Lease Number: NMNM0542015	Unit or CA Name:	Unit or CA Number:
US Well Number: 300154907400X1	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 12:26 PM
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	

Novo Oil & Gas, LLC

CAPITAL WORKOVER PROCEDURE

Well	Property Number	AFE Number
OVATION FED COM 1318 222H	30015-10071	4000033

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: July 27, 2023 – Edited August 24, 2023

OVATION FED COM 1318 222H
API #: 30-015-49074

WOLFCAMP A INTERVAL

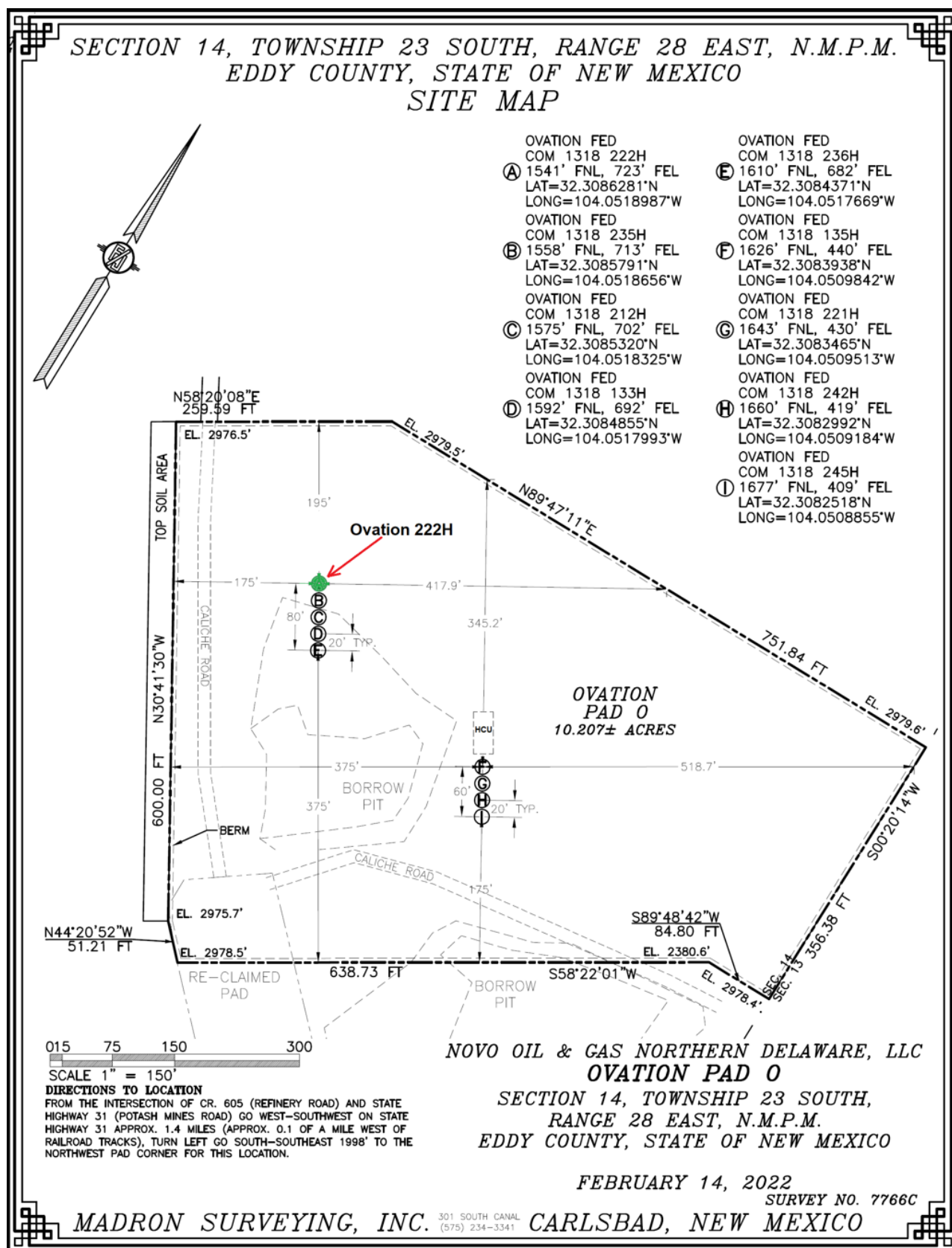
GPS Coordinates: 32.30862812, -104.05189871

Eddy County, NM

OVATION FED COM 1318 222H WORKOVER

Novo Oil & Gas, LLC

Wellsite Layout – Ovation Fed Com 1318 Pad O



OVATION FED COM 1318 222H WORKOVER

Novo Oil & Gas, LLC

OVATION FED COM 1318 222H Workover Background and Scope

Executive Summary:

Production from the Ovation Fed Com 1318 222H began November 1, 2022, and the well flowed up tubing until February 12, 2023, when the gas-lift compressor was set and brought online to initiate gas lift injection. Since that time production from the well has been assisted by the gas-lift system via annular gas injection. At the beginning of June, 2023, Crestwood's line pressure began increasing causing the well to show indications the well was beginning to load. By June 23rd gas production from the reservoir had dropped to zero, followed by oil and water by June 28th.

Well has been shut-in to build pressure to see if we could get it to unload but with no success. Examination of the tubing and annulus pressures show no indication of an apparent hole in the tubing, and a fluid level shot revealed we were injecting at the orifice valve just above the packer. This indicates the issue is most likely below the packer and not in the tubing/gas-lift system. To that end, we pumped an acid treatment followed by a scale squeeze to restore production from the reservoir, but there has been no production uplift following the treatment.

Scope of Workover:

This workover is to remove the existing tubing, gas-lift system, packer and BHA, run in the hole with a work-string and clean well out to TD, 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.

OVATION FED COM 1318 222H WORKOVER

Novo Oil & Gas, LLC

OVATION FED COM 1318 222H Workover Procedure

Casing: 5 1/2" 20# P-110 set at 20,160 ft
Liner: None
Tubing: 2-7/8", 6.5 #/ft L80 tubing and gas-lift system. EOT @ 9,615.61 ft
Elevation: 2,979 ft GL 3,005.70 KB
Average TVD: 9,916 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
-

7/27/2023:

1. MIRU WOR.

7/28/2023:

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.
6. Unset packer at 9,602 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 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.**

7/29/2023:

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.**

OVATION FED COM 1318 222H WORKOVER

Novo Oil & Gas, LLC

IF THIS CONTINGENCY BECOMES NECESSARY, WE WILL HAVE A CALL TO DISCUSS PRIOR TO CUTTING TUBING.

7/30/2023 – 8/1/2023:

8. Pick up cleanout BHA (standard motor and mill) and 2-7/8" PH6 work-string, run in hole and clean out well to TD.
 - Use N2 as needed to maintain circulation.
 - Have other BHA tools available in the event debris and sand is more than can be circulated out with current bottom-hole pressures.
 - Pump cleanup sweeps as necessary during cleanout, again at TD and as necessary while tripping out of hole, pausing at heel to circulate sweeps until wellbore returns are clean.

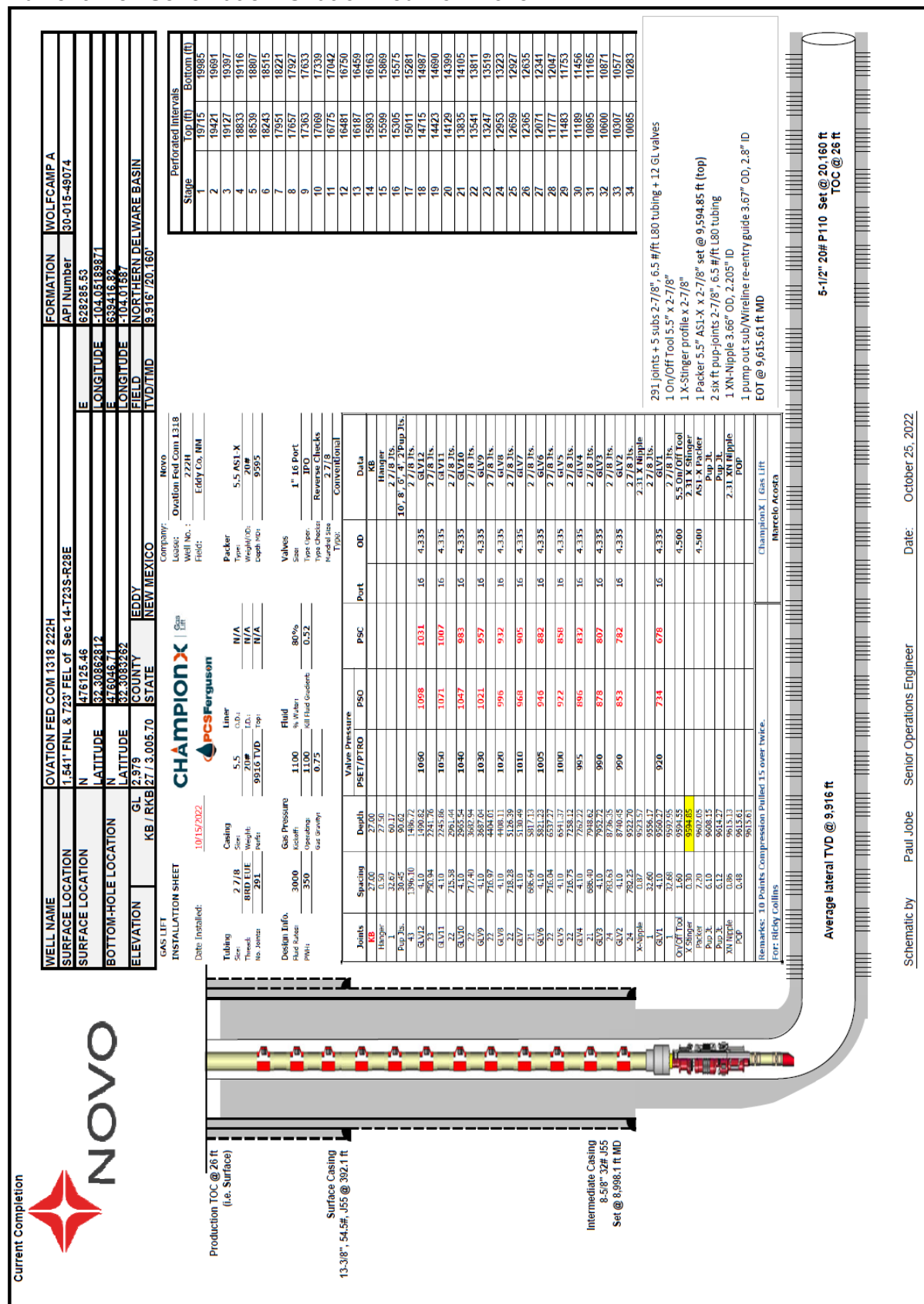
8/2/2023:

9. Pull out of hole with work-string and cleanout BHA and lay down same.
10. RIH with gauge-ring/junk-basket combo to 9,550 ft ensure casing is clear, then POOH with same.
11. Run in hole on wireline with packer and BHA as below and set packer at **9,450 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
12. Pick up and run in hole with 2-7/8, 6.5#/ft L80 production tubing and gas lift system and on/off tool and sting into packer at 9,450 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.

OVATION FED COM 1318 222H WORKOVER

Novo Oil & Gas, LLC

Current Well Schematic – Ovation Fed Com 1318 222H:



OVATION FED COM 1318 222H WORKOVER

Novo Oil & Gas, LLC

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

OVATION FED COM 1318 222H - UPDATED DESIGN - PACKER AT 9,450 FT				
Item	Description	Length each (ft)	Length (ft)	MD (ft)
1	sub 2-7/8", 6.5 #/ft EUE L80 tubing	5	5	5
46	joints 2-7/8", 6.5 #/ft EUE L80 tubing	32.67	1502.82	1507.82
1	GLV-12 top	4.1	4.1	1507.82
23	joints 2-7/8", 6.5 #/ft EUE L80 tubing	32.67	751.41	2263.33
1	GLV-11 top	4.1	4.1	2263.33
22	joints 2-7/8", 6.5 #/ft EUE L80 tubing	32.67	718.74	2986
1	GLV-10 top	4.1	4.1	2986
22	joints 2-7/8", 6.5 #/ft EUE L80 tubing	32.67	718.74	3709
1	GLV-9 top	4.1	4.1	3709
21	joints 2-7/8", 6.5 #/ft EUE L80 tubing	32.67	686.07	4399
1	GLV-8 top	4.1	4.1	4399
22	joints 2-7/8", 6.5 #/ft EUE L80 tubing	32.67	718.74	5122
1	GLV-7 top	4.1	4.1	5122
22	joints 2-7/8", 6.5 #/ft EUE L80 tubing	32.67	718.74	5845
1	GLV-6 top	4.1	4.1	5845
22	joints 2-7/8", 6.5 #/ft EUE L80 tubing	32.67	718.74	6568
1	GLV-5 top	4.1	4.1	6568
22	joints 2-7/8", 6.5 #/ft EUE L80 tubing	32.67	718.74	7291
1	GLV-4 top	4.1	4.1	7291
21	joints 2-7/8", 6.5 #/ft EUE L80 tubing	32.67	686.07	7981
1	GLV-3 top	4.1	4.1	7981
22	joints 2-7/8", 6.5 #/ft EUE L80 tubing	32.67	718.74	8704
1	GLV-2 top	4.1	4.1	8704
22	joints 2-7/8", 6.5 #/ft EUE L80 tubing	32.67	718.74	9426
1	GLV (OV)-1 top	4.1	4.1	9426
1	joints 2-7/8", 6.5 #/ft EUE L80 tubing	32.67	32.67	9463
1	On/Off Tool 5.5" x 2 7/8"	2	2	9465
1	Packer 5.5" AS1-X x 2-7/8" w/ 2.31" ID profile - t	6	6	9465
2	pup-joints 2-7/8", 6.5 #/ft EUE L80 tubing	6	12	9483
1	XN-Nipple 3.66" OD, 2.2" ID x profile x 2-7/8"	0.82	0.82	9483
1	Pump-out Plug/Wireline re-entry guide	0.42	0.42	9484

OVATION FED COM 1318 222H WORKOVER

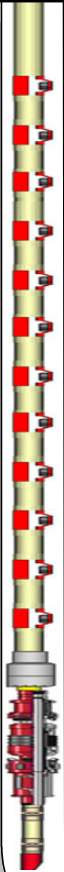
Ovation Fed Com 1318 222H
July 13, 2023

Acct Code	Category	Description	Unit Cost	Unit	Total Cost
706	Workover Rig	COMPLETION/WORKOVER RIG	\$20,000	7	\$140,000
708	Tool & Equipment Rental	SLICKLINE	\$8,000.00	4	\$32,000
712	Tool & Equipment Rental	GAS BUSTER - WO FLOWBACK IRON	\$300.00	7	\$2,100
712	Tool & Equipment Rental	PORTABLES	\$500	7	\$3,500
712	Tool & Equipment Rental	TELEHANDLER	\$300	7	\$2,100
712	Tool & Equipment Rental	CRANE	\$4,500	7	\$31,500
712	Tool & Equipment Rental	FLOWBACK IRON/CREW	\$4,500	7	\$31,500
713	Fuel & Power	FUEL FOR ON LOCATION EQUIPMENT	\$3.0390	7000	\$21,273
717	Trucking	FUEL TRUCKING (PER HOUR)	\$150	14	\$2,100
717	Trucking	TRUCKING	\$2,500	7	\$17,500
721	Cased hole wireline	CASED HOLE WL GR/JB COMBO	\$15,000	1	\$15,000
722	Downhole Tools & Service	2-7/8" PH6 WORKSTRING	\$8,000	7	\$56,000
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	4	\$48,000
722	Downhole Tools & Service	TUBING CUTTERS	\$12,000	4	\$48,000
726	Supervision	CONSULTING SERVICES/SUPERVISION	\$1,800	14	\$25,200
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	7	\$59,500
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
749	N2/CO2	N2 FOR CLEANOUT (\$/100 SCF)	\$0.90	136000	\$122,400
751	Vaccum truck	VACUUM TRUCK	\$2,100	7	\$14,700
752	Water	10 PPG BRINE FOR KILLING WELL	\$12.00	400	\$4,800
752	Water	WATER FOR TREATING, ETC.	\$1.50	2000	\$3,000
755	Production Tubing	PRODUCTION TUBING - 2-7/8"	\$9.00	9450	\$85,050
	NOTE: 2-7/8" PRODUCTION TUBING IS FROM JD RUSH				
747	Contingencies (Miscellaneous)			10%	\$84,162
	Workover Total				\$925,785

Current Completion



NOVO

Production TOC @ 26 ft
(i.e. Surface)Surface Casing
13-3/8", 54.5#, J55 @ 392.1 ftIntermediate Casing
8-5/8" 32# J55
Set @ 8,998.1 ft MD

WELL NAME		OVATION FED COM 1318 222H		FORMATION	WOLFCAMP A
SURFACE LOCATION		1,541' FNL & 723' FEL of Sec 14-T23S-R28E		API Number	30-015-49074
SURFACE LOCATION		N	476125.46	E	628285.53
LATITUDE		32.30862812	LONGITUDE		-104.05189871
BOTTOM-HOLE LOCATION		N	476046.71	E	639416.82
LATITUDE		32.3083262	LONGITUDE		-104.01587
ELEVATION		GL 2,979	COUNTY	EDDY	FIELD
KB / RKB		27 / 3,005.70	STATE	NEW MEXICO	NORTHERN DELWARE BASIN
				TVD/TMD	9,916' / 20,160'

GAS LIFT
INSTALLATION SHEET

Date Installed: 8/2/2023

Company: Novo
Lease: Ovation Fed Com 1318
Well No.: 222H
Field: Eddy Co, NM

Tubing	Casing	Liner
Size: 2 7/8	Size: 5.5	O.D.: 5.5
Thread: BRD EUE	Weight: 20#	I.D.: 4.50"
No. Joints: 287	Perfs: 9,916	Top: 9449.29

Packer
Type: 5.5 AS1-X Wireline Set
Weight/OD: 20-23# / 4.50" O.D.
Depth MD: 9449.29

Design Info.	Gas Pressure	Fluid
Fluid Rates: 3000-100	Kickoff: 1100	% Water: 1%
PWH: 350	Operating: 1100	Kill Fluid Gradient: 0.52
	Gas Gravity: 0.75	

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

Joints	Spacing	Depth	Valve Pressure		Surface Pressure		Port	OD	Data
			PSET/PTRO	PSO (Opening)	PSC (Closing)				
KB	27.00	27.00							K.B.
Hanger	0.50	27.50							Tubing Hanger
1	32.70	60.20							2.875" L-80 6.5# EUE
SUB	8.09	68.29							2.875" L-80 6.5# EUE Sub
44	1437.11	1505.40					2.875		2.875" L-80 6.5# EUE
GLV 12	4.10	1509.50	1070	1100	1033	16	4.335		2.875" 1" Mandrel
23	750.95	2260.45					2.875		2.875" L-80 6.5# EUE
GLV 11	4.10	2264.55	1060	1073	1009	16	4.335		2.875" 1" Mandrel
22	718.44	2982.99					2.875		2.875" L-80 6.5# EUE
GLV 10	4.10	2987.09	1050	1049	984	16	4.335		2.875" 1" Mandrel
22	717.43	3704.52					2.875		2.875" L-80 6.5# EUE
GLV 9	4.10	3708.62	1040	1022	958	16	4.350		2.875" 1" Mandrel
22	714.21	4422.83					2.875		2.875" L-80 6.5# EUE
GLV 8	4.10	4426.93	1030	995	931	16	4.335		2.875" 1" Mandrel
21	685.46	5112.39					2.875		2.875" L-80 6.5# EUE
GLV 7	4.10	5116.49	1025	974	909	16	4.335		2.875" 1" Mandrel
22	717.50	5833.99					2.875		2.875" L-80 6.5# EUE
GLV 6	4.10	5838.09	1015	945	881	16	4.335		2.875" 1" Mandrel
22	716.46	6554.55					2.875		2.875" L-80 6.5# EUE
GLV 5	4.10	6558.65	1010	920	856	16	4.335		2.875" 1" Mandrel
22	717.07	7275.72					2.875		2.875" L-80 6.5# EUE
GLV 4	4.10	7279.82	1005	894	830	16	4.335		2.875" 1" Mandrel
22	718.71	7998.53					2.875		2.875" L-80 6.5# EUE
GLV 3	4.10	8002.63	1005	874	810	16	4.335		2.875" 1" Mandrel
22	718.53	8721.16					2.875		2.875" L-80 6.5# EUE
GLV 2	4.10	8725.26	1000	846	782	16	4.335		2.875" 1" Mandrel
20	652.36	9377.62					2.875		2.875" L-80 6.5# EUE
X-NIPPLE	0.87	9378.49					3.680		X-Nip 2.313
1	32.70	9411.19					2.875		2.875" L-80 6.5# EUE
GLV 1	4.10	9415.29	930	730	681	16	4.335		2.875" 1" Mandrel
1	32.70	9447.99					2.875		2.875" L-80 6.5# EUE
ON/OFF	1.30	9449.29					4.500		4.5 ON/OFF TOOL
STINGER	0.30	9449.59					3.540		2.31X Stinger
PACKER	7.20	9456.79					4.500		AS1X 4.50" OD
PUP JT	6.10	9462.89					2.875		2.875" L-80 6.5# EUE
PUP JT	6.11	9469.00					2.875		2.875" L-80 6.5# EUE
XN-NIP	0.86	9469.86					3.680		2.31XN Nip(2.205" NoGo)
P.O.P	0.48	9470.34					3.680		Pump out Plug
		9470.34							Pick Up Weight 58,000
		9470.34							Slack Off Weight 48,000
		9470.34							Wireline Set PKR @ 9450
		9470.34							Tubing Tally @ 9449.29

Remarks: AS1-X Packer Was Set With 10K In Compression
Company Rep: Steve Castello
Thanks for the work!CHAMPIONX
Service Rep: Ricardo Garcia
Phone Number: 432-212-6554

Perforated Intervals		
Stage	Top (ft)	Bottom (ft)
1	19715	19985
2	19421	19691
3	19127	19397
4	18833	19116
5	18539	18807
6	18243	18515
7	17951	18221
8	17657	17927
9	17363	17633
10	17069	17339
11	16775	17042
12	16481	16750
13	16187	16459
14	15893	16163
15	15599	15869
16	15305	15575
17	15011	15281
18	14715	14987
19	14423	14690
20	14129	14399
21	13835	14105
22	13541	13811
23	13247	13519
24	12953	13223
25	12659	12927
26	12365	12635
27	12071	12341
28	11777	12047
29	11483	11753
30	11189	11456
31	10895	11165
32	10600	10871
33	10307	10577
34	10085	10283

287 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 @ 9,449.59 ft (top) (9,456.79 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
 EOT @ 9,470.34 ft MD

Average lateral TVD @ 9,916 ft

5-1/2" 20# P110 Set @ 20,160 ft
TOC @ 26 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 258352

CONDITIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 258352
	Action Type: [C-103] Sub. Workover (C-103R)

CONDITIONS

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