

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. **NMNM61349**

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 **1001 West Wilshire Boulevard Suite 206, Oklahoma** 3b. Phone No. (include area code) **(405) 404-0414**

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)
SEC 6/T23S/R29E/NMP

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

8. Well Name and No. **RANA SALADA FED COM 0504/133**

9. API Well No. **3001546086**

10. Field and Pool or Exploratory Area
Purple Sage/Wolfcamp

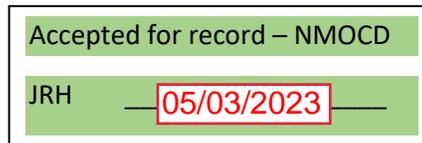
11. Country or Parish, State
EDDY/NM

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 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 performed 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 determined that the site is ready for final inspection.)

Request for workover procedure to install 2 7/8" tubing. See attachment for more information.



14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
JUSTIN CARTER / Ph: (405) 286-3375

Title **Landman**

Signature _____ Date **03/16/2022**

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by
Jonathon W Shepard / Ph: (575) 234-5972 / Accepted

Title **Petroleum Engineer** Date **05/14/2022**

Office **CARLSBAD**

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.

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: NESE / 1443 FSL / 612 FEL / TWSP: 23S / RANGE: 29E / SECTION: 6 / LAT: 32.3309826 / LONG: -104.0175754 (TVD: 0 feet, MD: 0 feet)

PPP: NWSW / 1860 FSL / 0 FWL / TWSP: 23S / RANGE: 29E / SECTION: 4 / LAT: 32.332193 / LONG: -103.998412 (TVD: 9761 feet, MD: 15067 feet)

PPP: NWSW / 1860 FSL / 0 FWL / TWSP: 23S / RANGE: 29E / SECTION: 5 / LAT: 32.332096 / LONG: -104.015553 (TVD: 9652 feet, MD: 9761 feet)

PPP: NESE / 1443 FSL / 612 FEL / TWSP: 23S / RANGE: 29E / SECTION: 6 / LAT: 32.3309826 / LONG: -104.0175754 (TVD: 0 feet, MD: 0 feet)

BHL: NESE / 1870 FSL / 330 FEL / TWSP: 23S / RANGE: 29E / SECTION: 4 / LAT: 32.3322813 / LONG: -103.9823504 (TVD: 9761 feet, MD: 20017 feet)

Novo Oil & Gas, LLC



CAPITAL WORKOVER PROCEDURE

AFE NUMBER: 4000006

Responsibility: Paul Jobe – Senior Operations Engineer
Brad Walls – Production Superintendent

Procedure Date: March 1, 2022

Rana Salada Fed Com 0504 133H
API #: 30-015-46086
WOLFCAMP B INTERVAL
1443' FSL & 6607' FEL
T23S, R29E, SEC 6 SE/4
GPS Coordinates: 32.3331, -103.99094
Eddy County, NM

RANA SALADA FED COM 0504 133H CAPITAL WORKOVER

Novo Oil & Gas, LLC

RANA SALADA FED COM 0504 133H Workover Procedure

Casing: 5-1/2" 20# P110 EC DSC/C-IS+ set @ 18,426 ft
Liner: None
Tubing: None
Elevation: 3,071 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
-

1. MIRU **Hurricane** workover rig.
2. MIRU auxiliary equipment.
3. Install back-pressure valve, remove tree, install and test BOPs.
4. Remove back-pressure valve.
5. RIH with slickline and gauge ring & junk basket to 10,800 ft to verify casing is clear and ready to receive tubing.
6. Pick up and RIH with a total of 325 to 340 joints 2-7/8, 6.5#/ft L80 production tubing (depending on actual tubing joint length) including BHA as described below:
 - BHA:
 - 1 X-Nipple 3.66" OD, 2.31" ID x profile x 2-7/8" (0.81 ft)
 - 1 joint 2-7/8", 6.5 #/ft L80 tubing (~31 ft)
 - 1 XN-Nipple 3.66" OD, 2.2" ID x profile x 2-7/8" (0.82 ft)
 - 1 pump out sub/Wireline re-entry guide 3.67" OD, 2.8" ID, (0.46 ft)
 - **Planned EOT @ ~10,547 ft** depending on actual tubing joint lengths
7. Land tubing in tubing head, install back-pressure valve in tubing, remove BOP, and reinstall wellhead.

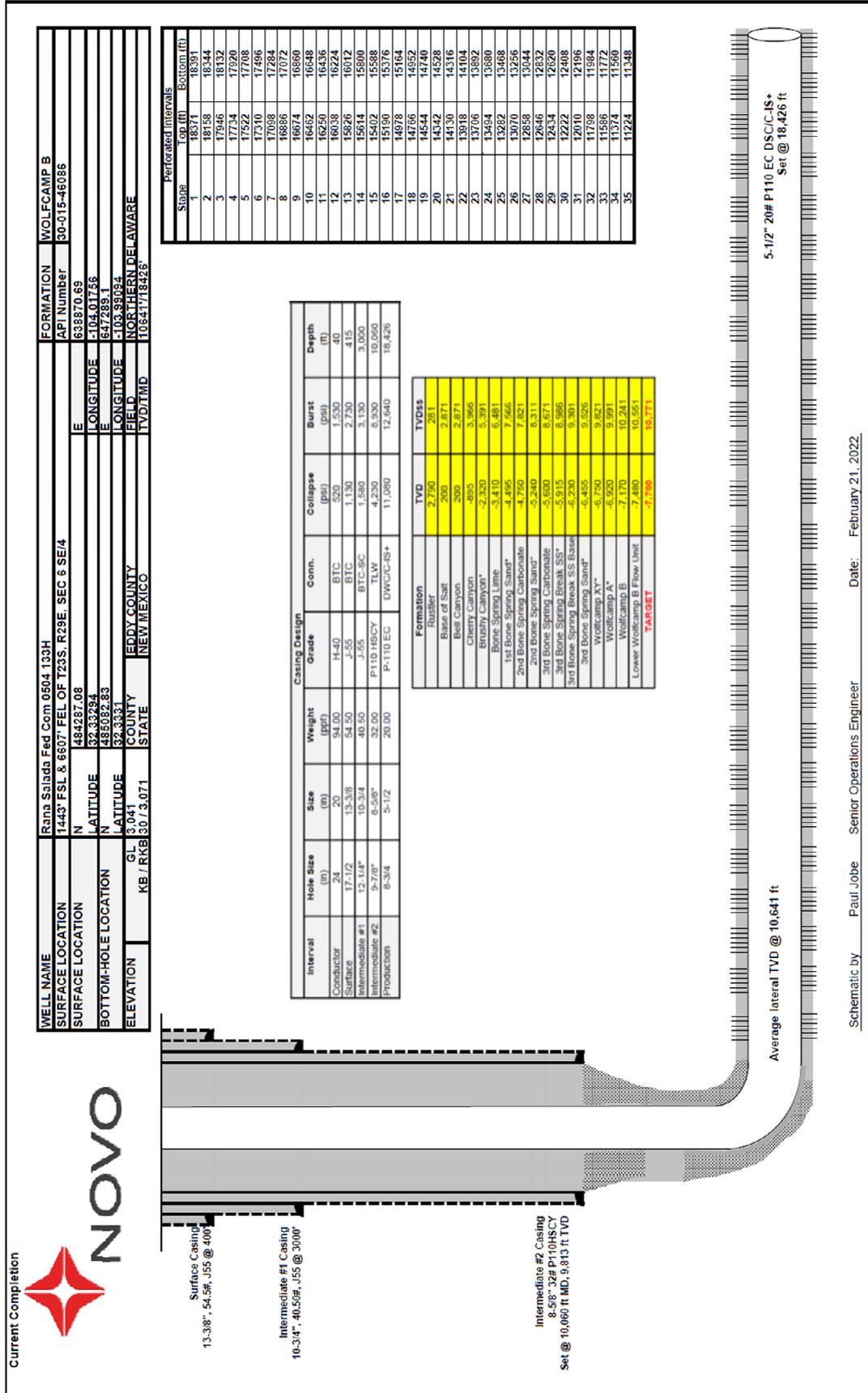
RANA SALADA FED COM 0504 133H CAPITAL WORKOVER

Novo Oil & Gas, LLC

8. Remove back-pressure valve.
9. Rig up pump truck and pump out plug making tubing live
10. Rig down and move off workover rig and auxiliary equipment.
11. Finalize surface connections.
12. Return well to production.

RANA SALADA FED COM 0504 133H CAPITAL WORKOVER

Current Well Schematic:



WELL NAME	Rana Salada Fed Com 0504 133H	FORMATION	WOLFCAMP B
SURFACE LOCATION	1443' FSL & 6607' FEL OF T23S, R29E, SEC 6 SE/4	API Number	30-015-46086
BOTTOM-HOLE LOCATION	N 484287.08	E	638870.69
ELEVATION	GL 3,041	LONGITUDE	-104.01756
	KB / RKB 30 / 3.071	LONGITUDE	547289.1
		FIELD	103 99094
		TVD/TMD	NORTHERN DELAWARE
			10641/18426

Stage	Top (ft)	Bottom (ft)
1	18371	18391
2	18158	18344
3	17946	18132
4	17734	17920
5	17522	17708
6	17310	17496
7	17098	17284
8	16886	17072
9	16674	16860
10	16462	16648
11	16250	16436
12	16038	16224
13	15826	16012
14	15614	15800
15	15402	15588
16	15190	15376
17	14978	15164
18	14766	14952
19	14554	14740
20	14342	14528
21	14130	14316
22	13918	14104
23	13706	13892
24	13494	13680
25	13282	13468
26	13070	13256
27	12858	13044
28	12646	12832
29	12434	12620
30	12222	12408
31	12010	12196
32	11798	11984
33	11586	11772
34	11374	11560
35	11224	11348

Interval	Hole Size (in)	Size (in)	Weight (ppf)	Casing Design	Grade	Conn.	Collapse (psi)	Burst (psi)	Depth (ft)
Conductor	24	20	94.00	H-40	BTC	BTC	520	1,530	40
Surface	17-1/2	13-3/8	54.50	J-55	BTC	BTC	1,130	2,730	415
Intermediate #1	12-1/4"	10-3/4	40.50	J-55	BTC-SC	BTC-SC	1,580	3,130	3,000
Intermediate #2	9-7/8"	8-5/8"	32.00	P110 HSCY	TLW	TLW	4,200	6,930	10,060
Production	8-3/4"	5-1/2"	20.00	P-110 EC	DWCC-RI+		11,080	12,640	18,426

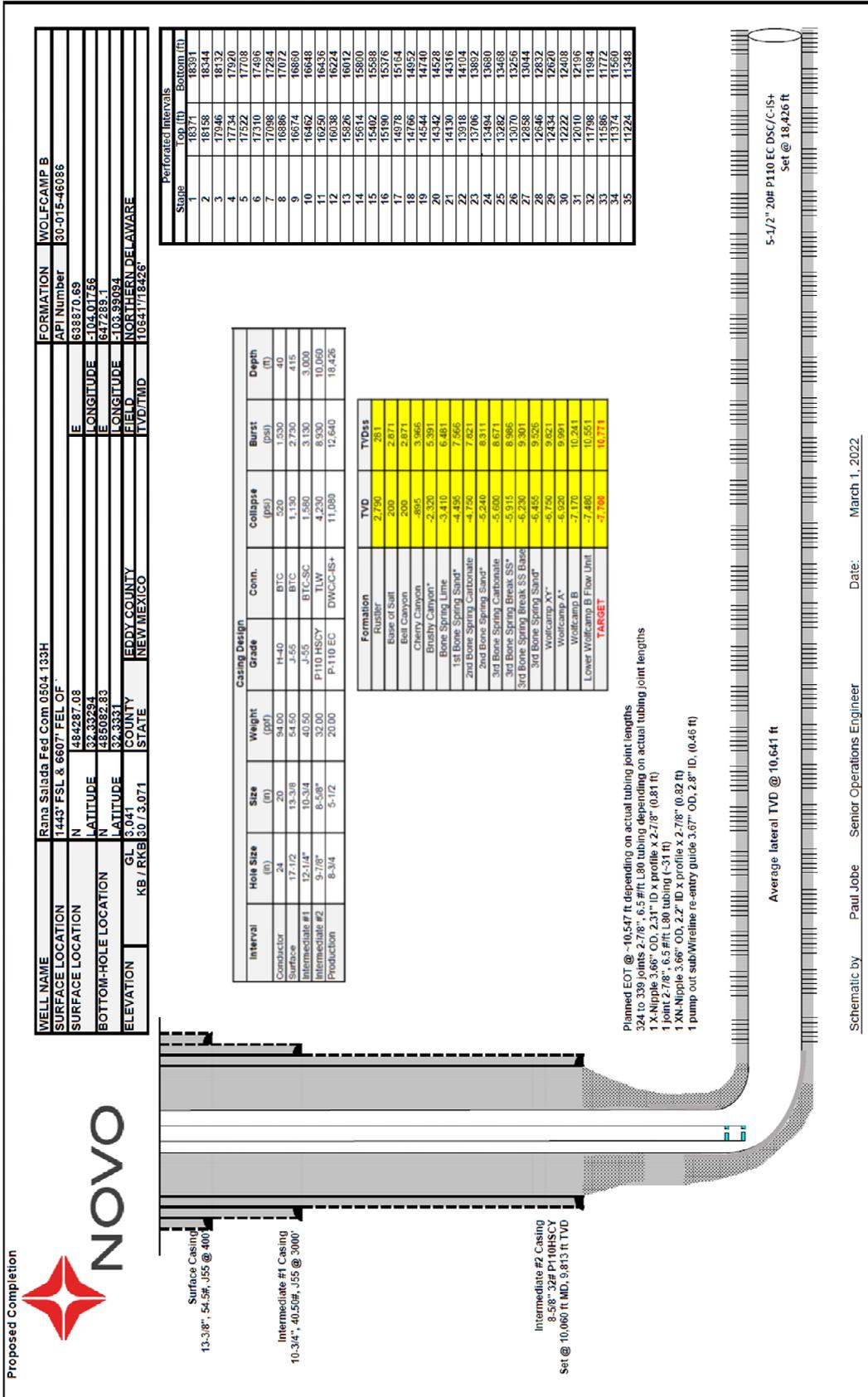
Formation	TVD	TVDSS
Rustler	2,790	2,811
Base of Salt	2,800	2,871
Bell Canyon	2,800	2,871
Cherry Canyon	4,895	3,966
Briehy Canyon	-2,300	3,391
Bone Spring Sand*	-3,410	6,481
1st Bone Spring Sand*	-4,165	7,566
2nd Bone Spring Sand*	-4,750	7,621
2nd Bone Spring Sand*	-5,240	8,311
3rd Bone Spring Sand*	-5,600	8,671
3rd Bone Spring Break SS*	-5,915	8,986
3rd Bone Spring Break SS*	-6,280	9,301
3rd Bone Spring Sand*	-6,455	9,526
Wolfcamp XT*	-6,790	9,621
Wolfcamp A*	-6,920	9,591
Wolfcamp B*	-7,170	10,241
Lower Wolfcamp B Flow Unit	-7,480	10,551
TARGET	-7,198	9,771

Average lateral TVD @ 10,641 ft

5-1/2" 20# P110 EC DSC/CJS+
Set @ 18,426 ft

Schematic by Paul Jobe Senior Operations Engineer Date: February 21, 2022

Proposed Post-Workover Well Schematic:



Novo Oil & Gas, LLC

Cost Estimate

RANA SALADA FED COM 0504 133H
March 1, 2022

Acct Code	Category	Descripton	Unit Cost	Unit	Total Cost
706	Workover Rig	COMPLETION/WORKOVER RIG	\$10,000	4	\$40,000
712	Tool & Equipment Rental	GAS BUSTER - WO FLOWBACK IRON	\$150.00	4	\$600
712	Tool & Equipment Rental	PORTABLES	\$150	4	\$600
712	Tool & Equipment Rental	TELEHANDLER	\$100	4	\$400
717	Trucking	TRUCKING	\$2,500	4	\$10,000
721	Cased hole wireline	CASED HOLE WL GR/JB COMBO	\$10,000	1	\$10,000
726	Supervision	CONSULTING SERVICES/SUPERVISION	\$1,650	4	\$6,600
727	Contract Labor/Services	PRESSURE PUMPING SERVICES	\$1,000.00	1	\$1,000
727	Contract Labor/Services	WELLHEAD	\$2,100.00	2	\$4,200
751	Vaccum truck	VACUUM TRUCK	\$1,000	4	\$4,000
752	Water	WATER	\$1.50	125	\$188
755	Production Tubing	PRODUCTION TUBING - 2-7/8"	\$8.85	10547	\$93,341
	NOTE: 2-7/8" PRODUCTION TUBING IS FROM SOONER PIPE				
					\$170,928
	Contingencies (Miscellaneous Code 747)			10%	\$17,093
	Workover Total				\$188,021

RANA SALADA FED COM 0504 133H CAPITAL WORKOVER

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 206479

CONDITIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 1001 West Wilshire Blvd Oklahoma City, OK 73116	OGRID: 372920
	Action Number: 206479
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
john.harrison	None	5/3/2023