

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Longfellow Energy LP 8115 Preston Road, Suite 800 Dallas, TX 75225		² OGRID Number 372210
		³ Reason for Filing Code/ Effective Date NW 4/2023
⁴ API Number 30 – 015-48302	⁵ Pool Name Empire; Glorieta - Yeso	⁶ Pool Code 96210
⁷ Property Code 330799	⁸ Property Name Prince Federal 19B	⁹ Well Number 001H

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
G	24	17S	28E		2168	North	1323	East	Eddy

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	19	17S	29E		1621	North	21	East	Eddy
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 1/15/2023	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
33479	Holly Frontier Refining and Marketing LLC 10 Desta Drive, Suite 350 W Midland, TX 79705	Oil
36785	DCP Operating Company LP	Gas

IV. Well Completion Data

²¹ Spud Date 10/19/2022	²² Ready Date 12/30/2022	²³ TD 4164'V/9370'M	²⁴ PBDT 4166'V/9314'M	²⁵ Perforations 4,626'-9,262'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2"	13-3/8"	385'	500		
12-1/4"	9-5/8"	1263'	560		
8-3/4"	7"	4435'	1495		
8-3/4	5-1/2"	9362'			
	2-7/8"	4157'			

V. Well Test Data

³¹ Date New Oil 1/7/2023	³² Gas Delivery Date 1/7/2023	³³ Test Date 1/15/2023	³⁴ Test Length 24 hours	³⁵ Tbg. Pressure 202	³⁶ Csg. Pressure 68
³⁷ Choke Size 64/64	³⁸ Oil 254	³⁹ Water 856	⁴⁰ Gas 248		⁴¹ Test Method Pumping

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:



Printed name:
David Cain

Title:
Regulatory Analyst

E-mail Address:
David.cain@longfellowenergy.com

Date: 4/20/2023
Phone: (972) 590-9900

OIL CONSERVATION DIVISION

Approved by:

PATRICIA MARTINEZ

Title:

PETROLEUM SPECIALIST

Approval Date:

4/21/2023

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.
1. Type of Well ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator		7. If Unit of CA/Agreement, Name and/or No.
3a. Address	3b. Phone No. (include area code)	8. Well Name and No.
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		9. API Well No.
		10. Field and Pool or Exploratory Area
		11. Country or Parish, State

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
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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 recompleat 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 recompleation 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.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)		
	Title	
Signature	Date	

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by	Title	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	

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 / 2158 FNL / 1323 FEL / TWSP: 17S / RANGE: 28E / SECTION: 24 / LAT: 32.822197 / LONG: -104.1256692 (TVD: 0 feet, MD: 0 feet)

PPP: SENE / 2092 FNL / 404 FEL / TWSP: 17S / RANGE: 28E / SECTION: 24 / LAT: 32.8228185 / LONG: -104.1227433 (TVD: 3734 feet, MD: 3864 feet)

BHL: SENE / 1627 FNL / 20 FEL / TWSP: 17S / RANGE: 29E / SECTION: 19 / LAT: 32.8228386 / LONG: -104.105673 (TVD: 4040 feet, MD: 9219 feet)

CONFIDENTIAL



U.S. Department of the Interior

BUREAU OF LAND MANAGEMENT

Well Completion Print

03/31/2023

Operator Name

LONGFELLOW ENERGY LP

SHL SENE Sec 24 17S 28E

Well Name

PRINCE FEDERAL 19B

County EDDY

Well Number

001H

State NM

US Well Number

3001548302

Lease Number(s) NMNM14847

Well Type

OIL WELL

Well Status Drilling Well

Agreement Name

Agreement Number(s)

Allottee/Tribe Name

Well Pad Name Prince Federal 19B

Well Pad Number 001H

ID

10400063499

Section 1 - General

Well Completion Report Id: 87117

Submission Date: 01-18-2023

BLM Office: Carlsbad Field Office

User: DAVID CAIN

Title: Engineering Technologist &

Federal/Indian: FEDERAL

Lease Number: NMNM14847

Lease Acres:

Agreement in place?: NO

Federal or Indian Agreement:

Agreement Number:

Agreement Name:

Keep this Well Completion Report confidential?:

APD Operator: LONGFELLOW ENERGY LP

ZOTA STEVENS

Digitally signed by ZOTA STEVENS
Date: 2023.04.06 15:00:32 -06'00'

Section 2 - Well

Field/Pool or Exploratory:

Pool Name: GLORIETA YESO

Field Name: EMPIRE

Well Type: OIL WELL

Spud Date: 10-17-2022

Date Total Measured Depth Reached: 11-13-2022

Drill & Abandon or Ready To Produce: READY TO

Well Class: HORIZONTAL

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
QUATERNARY	OTHER	Caliche	3697	0	0	USEABLE WATER	
BOTTOM SALT	SALT		3043	650	651	NONE	

Operator Name LONGFELLOW ENERGY LP SHL SENE Sec 24 17S 28E	Well Name PRINCE FEDERAL 19B	Well Number 001H	US Well Number 3001548302
	County EDDY	State NM	Lease Number(s) NMNM14847
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name Prince Federal 19B	Well Pad Number 001H	ID 10400063499

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
QUEEN	SANDSTONE		2103	1594	1612	NATURAL GAS, OIL	
SAN ANDRES	DOLOMITE		1402	2295	2326	NATURAL GAS, OIL	
GLORIETA	DOLOMITE		-49	3746	3863	NATURAL GAS, OIL	
YESO	DOLOMITE, OTHER	Paddock	-74	3771	3897	NATURAL GAS, OIL	

Completion and Completed

Completion Data

Wellbo re Code	Completi on Code	Interval Number	Case Number	Leas e Numb	Well Completion Type	Describe Well Completion Type	Completi on Status	Comple ed Date	Date First Produc	Formation	Interval Top (MD)	Interval Bottom (MD)	Interval Perforated	Perforatio n Size	Number of Holes	Status of Interv
00	SI	I	NMNM14847		NEW		POW	12-14-2022	01-07-2023	YESO	4626	9262	Y	.42	670	ISOLATED

Treatment Data

Wellbo re Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Totle Fluid (bbls)	Total Proppant (lbs)	Treatment Remarks
00	SI	I	Y	FRAC	351077	5662572	

Operator Name LONGFELLOW ENERGY LP SHL SENE Sec 24 17S 28E	Well Name PRINCE FEDERAL 19B	Well Number 001H	US Well Number 3001548302
	County EDDY	State NM	Lease Number(s) NMNM14847
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name Prince Federal 19B	Well Pad Number 001H	ID 10400063499

Production Data

Describe Disposition	Disposition of Gas	Describe Production	Production Method	Gas Gravity	API Oil Gravity	Interval	Number of Completions	Wellbore Code
	FLARED		ELECTRIC PUMP SUB-SURFACE	0.824	37	I	I	SI

Test Data

Casing Pressure (psi)	Tubing Pressure Shut-In (psi)	Tubing Pressur & Choke Size	Gas-Oil Ratio (SCF/Bbl)	24-Hour Rate Water(BWPD)	24-Hour Rate	24-Hour Rate Oil (bbls)	Hours Tested	Test Date	Interval Numb	Completion Code	Wellbore Code
68		202	976	856	248	254	24	01/15/2023	I	SI	00

Well Location

Survey Type: RECTANGULAR

Survey Number: 12797

Datum: NAD83

Vertical Datum: NAVD88

Reference Datum: KB

Aliquot/Lot/Tract	Section	Range	Township	EW-Indicator	EW-Foot	NS-Indicator	NS-Foot	Plug Type	Plug MD (ft)	Plug TVD (ft)	Lease Number	Lease Type	Elevation (MSL)	Longitude	Latitude	County	Meridian	State
SENE	24	28E	17S	FEL	1323	FNL	2168				STATE	STATE	3697	-104.125732	32.822615	EDDY	NEW MEXICO PRINCIPAL	SHL NEW MEXICO

Operator Name

LONGFELLOW ENERGY LP

SHL SENE Sec 24 17S 28E

Well Name

PRINCE FEDERAL 19B

County

EDDY

Well Status

Drilling Well

Allottee/Tribe Name

Well Pad Name

Prince Federal 19B

Well Number

001H

Agreement Name

Well Pad Number

001H

US Well Number

3001548302

Lease Number(s)

NMNM14847

Agreement Number(s)

ID

10400063499

	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Aliquot/Lot/Tract
KOP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	EDDY	32.8226115	-104.125732	-279	STATE	STATE				2098	FNL	831	FEL	17S	28E	24	SENE
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	EDDY	32.8229072	-104.1211005	-407	FEDERAL	NMNM14847				1613	FNL	100	FWL	17S	29E	19	Lot 2
EXIT Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	EDDY	32.8228618	-104.1056102	-469	FEDERAL	NMNM14847				1619	FNL	100	FEL	17S	29E	19	SENE
BHL Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	EDDY	32.8228547	-104.1056769	-467	FEDERAL	NMNM14847				1621	FNL	21	FEL	17S	29E	19	SENE

Casing, Liner and Tubing

Casing and Liner

Amount Pulled (ft)	Other Joint	Joint	Describe Other Casing Grade	Casing Grade	Wt(lbs/ft)	Casing Size	Bottom Setting Depth (MD)	Top Setting Depth (MD)	Hole Size	Casing String Type	Wellbore Code
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Operator Name LONGFELLOW ENERGY LP SHL SENE Sec 24 17S 28E	Well Name PRINCE FEDERAL 19B	Well Number 001H	US Well Number 3001548302
	County EDDY	State NM	Lease Number(s) NMNM14847
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name Prince Federal 19B	Well Pad Number 001H	ID 10400063499

Casing and Liner

Wellbo re Code	Casing String Type	Hole Size	Top Setting Depth (MD)	Bottom Setting Depth (MD)	Casing Size	Wt(lbs/ft)	Casing Grade	Describe Other Casing Grade	Joint	Other Joint	Amount Pulled (ft)
00	CONDUCTOR	17.5	0	385	13.375	54.5	J-55		OTHER	BTC	
00	SURFACE	12.25	0	1263	9.625	36	J-55		LT&C		
00	PRODUCTION	8.75	0	4435	7.0	32	L-80		OTHER	BK-HT	
00	PRODUCTION	8.75	4435	9362	5.5	20	L-80		OTHER	BK-HT	

Cementing

Wellbo re Code	Casing String Type	Stage Tool Depth	Cement Lead Type	Cement Lead Qty (sks)	Cement Lead Yield (cu.ft/sks)	Cement Lead Top (MD)	Cement Tail Type	Cement Tail Qty (sks)	Cement Tail Yield(cu.ft/sks)	Cement Tail Top (MD)	Total (Lead + Cement Slurry Volume)
00	CONDUCTOR		Class C	500	1.33	0					118.4
00	SURFACE		Class C	395	1.72	0	Class C	165	1.33	0	160.1
00	PRODUCTION		25/75 Poz C	460	2.16	0	Class C	1035	1.33	3601	422.1

Tubing

Wellbo re Code	Tubing Size	Describe Other	Tubing Setting Depth (MD/ft)	Packer Depth (MD/ft)	Tubing Weight	Tubing Grade	Describe Other	Tubing Coupling	Describe Other
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Operator Name LONGFELLOW ENERGY LP SHL SENE Sec 24 17S 28E	Well Name PRINCE FEDERAL 19B	Well Number 001H	US Well Number 3001548302
	County EDDY	State NM	Lease Number(s) NMNM14847
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name Prince Federal 19B	Well Pad Number 001H	ID 10400063499

Tubing

Wellbo re Code	Tubing Size	Describe Other	Tubing Setting Depth (MD/ft)	Packer Depth (MD/ft)	Tubing Weight	Tubing Grade	Describe Other	Tubing Coupling	Describe Other
00	2.875		4157		6	L-80		OTHER	8RD

Logs

Wellbore Code	Log Upload	Was Well Cored?	Was DST Run?	Directional Survey?	Geologic Report	Wellbore Diagram
00	YES	NO	NO	YES	NO	YES

Operator Name LONGFELLOW ENERGY LP SHL SENE Sec 24 17S 28E	Well Name PRINCE FEDERAL 19B	Well Number 001H	US Well Number 3001548302
	County EDDY	State NM	Lease Number(s) NMNM14847
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name Prince Federal 19B	Well Pad Number 001H	ID 10400063499

Operator

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records. 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 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 Well Completion Reports through this system satisfies regulations requiring a submission of Form 3160-4 or a Well Completion Report.

Name: LONGFELLOW ENERGY LP

Signed By: DAVID CAIN **Title:** Engineering Technologist & Regulatory Specialist **Signed on:** 03/30/2023

Street Address: 16803 DALLAS PARKWAY

City: ADDISON **State:** TX **Zip:** 75001

Phone: (214)265-4715

Email address: DAVID.CAIN@LONGFELLOWENERGY.COM

Field

Representative Name:

Street Address:

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

Phone: **Extension:**

Email address:

Attachments

- PRINCE_FEDERAL_19B__1H_ST01_FINAL_SURVEY_20230116135631.pdf
- PRINCE_FEDERAL_19B_001H_WBD_1_5_23_20230116135645.pdf
- FINAL_ST01_Prince_Federal_19B_001H_1MD_20230116135957.pdf
- PRINCE_FEDERAL_19B_001H_AS_DRILLED_12_9_22_signed_20230330110332.pdf
- PRINCEFEDERAL19B_002H_20230330110348.pdf

Operator Name LONGFELLOW ENERGY LP SHL SENE Sec 24 17S 28E	Well Name PRINCE FEDERAL 19B	Well Number 001H	US Well Number 3001548302
	County EDDY	State NM	Lease Number(s) NMNM14847
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name Prince Federal 19B	Well Pad Number 001H	ID 10400063499

Attachments

- PRINCE_FEDERAL_19B__1H_ST01_FINAL_SURVEY_20230116135631.pdf
- PRINCE_FEDERAL_19B_001H_WBD_1_5_23_20230116135645.pdf
- FINAL_ST01_Prince_Federal_19B_001H_1MD_20230116135957.pdf
- PRINCE_FEDERAL_19B_001H_AS_DRILLED_12_9_22_signed_20230330110332.pdf
- PRINCEFEDERAL19B_002H_20230330110348.pdf

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☒ AMENDED REPORT
As-Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-48302		² Pool Code 96210		³ Pool Name EMPIRE; GLORIETA-YESO	
⁴ Property Code 330799		⁵ Property Name PRINCE FEDERAL 19B			⁶ Well Number 001H
⁷ OGRID No. 372210		⁸ Operator Name LONGFELLOW ENERGY, LP			⁹ Elevation 3696.8

¹⁰ Surface Location									
UL or lot no. G	Section 24	Township 17 S	Range 28 E	Lot Idn	Feet from the 2168	North/South line NORTH	Feet from the 1323	East/West line EAST	County EDDY

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. H	Section 19	Township 17 S	Range 29 E	Lot Idn	Feet from the 1621	North/South line NORTH	Feet from the 21	East/West line EAST	County EDDY

¹² Dedicated Acres 147.28	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSL-8511						
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁷ OPERATOR CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.	
Signature David Cain	Date 12/21/2022
Printed Name david.cain@longfellowenergy.com	
E-mail Address	
¹⁸ SURVEYOR CERTIFICATION	
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.	
DECEMBER 9, 2022	
Date of Survey	
Signature and Seal of Professional Surveyor WILLIAM F. JARAMILLO	
Certificate Number: LS 12797	

SW CORNER SEC. 24
LAT. = 32.8138603°N
LONG. = 104.1384647°W
NMSP EAST (FT)
N = 659870.21
E = 601204.84

SE CORNER SEC. 24
LAT. = 32.8140040°N
LONG. = 104.1214570°W
NMSP EAST (FT)
N = 659932.51
E = 606429.84

SW CORNER SEC. 19
LAT. = 32.8128479°N
LONG. = 104.1214627°W
NMSP EAST (FT)
N = 659511.90
E = 606428.92

SE CORNER SEC. 19
LAT. = 32.8128631°N
LONG. = 104.1056019°W
NMSP EAST (FT)
N = 659527.59
E = 611301.71

W/4 CORNER SEC. 24
LAT. = 32.8211976°N
LONG. = 104.1383705°W
NMSP EAST (FT)
N = 662539.66
E = 601228.84

E/4 CORNER SEC. 24
LAT. = 32.8212873°N
LONG. = 104.1214299°W
NMSP EAST (FT)
N = 662582.33
E = 606432.84

W/4 CORNER SEC. 19
LAT. = 32.8200949°N
LONG. = 104.1214373°W
NMSP EAST (FT)
N = 662148.50
E = 606431.45

E/4 CORNER SEC. 19
LAT. = 32.8200615°N
LONG. = 104.1056102°W
NMSP EAST (FT)
N = 662146.48
E = 611293.51

NW CORNER SEC. 24
LAT. = 32.8285163°N
LONG. = 104.1383286°W
NMSP EAST (FT)
N = 665202.37
E = 601236.81

NE CORNER SEC. 24
LAT. = 32.8285895°N
LONG. = 104.1214098°W
NMSP EAST (FT)
N = 665238.99
E = 606433.68

NW CORNER SEC. 19
LAT. = 32.8273415°N
LONG. = 104.1214155°W
NMSP EAST (FT)
N = 664784.94
E = 606432.86

NE CORNER SEC. 19
LAT. = 32.8273104°N
LONG. = 104.1056041°W
NMSP EAST (FT)
N = 664783.74
E = 611289.69

N/4 CORNER SEC. 24
LAT. = 32.8285531°N
LONG. = 104.1298694°W
NMSP EAST (FT)
N = 665220.65
E = 603835.19

N/4 CORNER SEC. 19
LAT. = 32.8273413°N
LONG. = 104.1142272°W
NMSP EAST (FT)
N = 664789.39
E = 608640.89

PRINCE FEDERAL 19B 001H
ELEV. = 3696.8'
LAT. = 32.8226115°N (NAD83)
LONG. = 104.1257320°W
NMSP EAST (FT)
N = 663061.48
E = 605110.33

KICK OFF POINT
2098' FNL, 831' FEL
LAT. = 32.8228121°N
LONG. = 104.1241304°W

SURFACE LOCATION
KOP
FTP
LTP
BOTTOM OF HOLE

21'

2202.81 FT

1621'

1613' FNL, 100' FWL
LAT. = 32.8229072°N
LONG. = 104.1211005°W
NMSP EAST (FT)
N = 663162.63
E = 611270.84

1619' FNL, 100' FEL
LAT. = 32.8228618°N
LONG. = 104.1059334°W

LAST TAKE POINT

SCALED

Intent _____ As Drilled x - -

API # 30-015-48302		
Operator Name: LONGFELLOW ENERGY, LP	Property Name: PRINCE FEDERAL 19B	Well Number 001H

Kick Off Point (KOP)

UL H	Section 24	Township 17S	Range 28E	Lot	Feet 2098	From N/S NORTH	Feet 831	From E/W EAST	County EDDY
Latitude 32.8228121					Longitude 104.1241304			NAD 83	

First Take Point (FTP)

UL E	Section 19	Township 17S	Range 29E	Lot	Feet 1613	From N/5 NORTH	Feet 100	From E/W WEST	County EDDY
Latitude 32.8229072					Longitude 104.1211005			NAD 83	

Last Take Point (LTP)

UL H	Section 19	Township 17S	Range 29E	Lot	Feet 1619	From N/5 NORTH	Feet 100	From E/W EAST	County EDDY
Latitude 32.8228618					Longitude 104.1059334			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit? _____

Is this well an infill well? _____

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API#		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018



Longfellow Energy

Eddy Co., NM (Nad-83)
PRINCE FEDERAL 19B
001H

ST01

Design: ST01

Standard Survey Report

14 November, 2022





Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 26.6' @ 3721.10usft (FRONTIER 26)
Site:	PRINCE FEDERAL 19B	MD Reference:	RKB = 26.6' @ 3721.10usft (FRONTIER 26)
Well:	001H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	WBDS_SQL_2

Project	Eddy Co., NM (Nad-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	PRINCE FEDERAL 19B				
Site Position:		Northing:	663,061.48 usft	Latitude:	32.822612
From:	Map	Easting:	605,110.33 usft	Longitude:	-104.125732
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.113 °

Well	001H					
Well Position	+N/-S	0.00 usft	Northing:	663,061.48 usf	Latitude:	32.822612
	+E/-W	0.00 usft	Easting:	605,110.33 usf	Longitude:	-104.125732
Position Uncertainty		0.00 usft	Wellhead Elevation:	usf	Ground Level:	3,694.50 usf

Design	ST01				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	2,901.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	86.92	

Survey Program	Date	11/14/22			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
164.00	2,901.00	Survey #1 (Wellbore #1)	MWD+IFR1+SAG+FDIR	OWSG MWD + IFR1 + Sag + FDIR Correction	
2,987.00	9,370.00	Survey #1 (ST01)	MWD+IFR1+SAG+FDIR	OWSG MWD + IFR1 + Sag + FDIR Correction	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
PRINCE #1: SHL										
164.00	0.19	141.23	164.00	-0.21	0.17	0.16	0.12	0.12	0.00	
225.00	0.43	192.39	225.00	-0.51	0.18	0.16	0.56	0.39	83.87	
315.00	0.97	131.45	314.99	-1.35	0.68	0.61	0.94	0.60	-67.71	
406.00	1.42	102.61	405.97	-2.10	2.36	2.24	0.81	0.49	-31.69	
497.00	4.30	74.49	496.85	-1.44	6.75	6.66	3.43	3.16	-30.90	
588.00	7.24	71.26	587.38	1.32	15.47	15.52	3.25	3.23	-3.55	
678.00	9.10	70.50	676.47	5.51	27.55	27.81	2.07	2.07	-0.84	
769.00	9.84	71.14	766.23	10.43	41.69	42.19	0.82	0.81	0.70	
860.00	11.14	75.41	855.70	15.16	57.56	58.29	1.66	1.43	4.69	
950.00	11.49	83.31	943.96	18.39	74.88	75.75	1.76	0.39	8.78	
1,041.00	11.41	89.65	1,033.15	19.50	92.88	93.79	1.39	-0.09	6.97	
1,132.00	11.46	91.47	1,122.35	19.33	110.92	111.79	0.40	0.05	2.00	
1,205.00	11.48	87.94	1,193.89	19.40	125.43	126.29	0.96	0.03	-4.84	



Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 26.6' @ 3721.10usft (FRONTIER 26)
Site:	PRINCE FEDERAL 19B	MD Reference:	RKB = 26.6' @ 3721.10usft (FRONTIER 26)
Well:	001H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	WBDS_SQL_2

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
1,299.00	11.49	85.28	1,286.01	20.51	144.11	145.00	0.56	0.01	-2.83	
1,393.00	10.77	84.31	1,378.24	22.15	162.18	163.13	0.79	-0.77	-1.03	
1,488.00	9.91	82.46	1,471.70	24.10	179.11	180.15	0.97	-0.91	-1.95	
1,582.00	9.19	79.68	1,564.39	26.51	194.52	195.66	0.91	-0.77	-2.96	
1,675.00	8.51	78.00	1,656.29	29.27	208.55	209.82	0.78	-0.73	-1.81	
1,769.00	9.28	83.45	1,749.16	31.58	222.89	224.26	1.21	0.82	5.80	
1,864.00	10.19	82.49	1,842.79	33.55	238.83	240.29	0.97	0.96	-1.01	
1,958.00	11.53	78.53	1,935.10	36.51	256.28	257.87	1.63	1.43	-4.21	
2,053.00	11.34	77.99	2,028.22	40.34	274.72	276.49	0.23	-0.20	-0.57	
2,147.00	12.61	80.09	2,120.17	44.03	293.87	295.81	1.43	1.35	2.23	
2,240.00	12.66	80.71	2,210.92	47.42	313.93	316.02	0.16	0.05	0.67	
2,335.00	12.36	80.30	2,303.66	50.81	334.22	336.47	0.33	-0.32	-0.43	
2,429.00	12.11	79.08	2,395.53	54.38	353.82	356.23	0.38	-0.27	-1.30	
2,524.00	11.92	84.62	2,488.45	57.19	373.37	375.90	1.23	-0.20	5.83	
2,619.00	11.95	85.62	2,581.40	58.86	392.95	395.54	0.22	0.03	1.05	
2,712.00	11.73	85.31	2,672.42	60.36	411.97	414.61	0.25	-0.24	-0.33	
2,807.00	11.58	85.65	2,765.46	61.88	431.10	433.80	0.17	-0.16	0.36	
2,901.00	11.45	85.54	2,857.57	63.32	449.81	452.56	0.14	-0.14	-0.12	
2,987.00	9.39	81.12	2,942.14	65.07	465.25	468.08	2.57	-2.40	-5.14	
3,081.00	8.06	69.06	3,035.06	68.61	478.99	481.98	2.40	-1.41	-12.83	
3,181.00	7.94	65.98	3,134.09	73.92	491.84	495.10	0.45	-0.12	-3.08	
3,276.00	11.46	70.44	3,227.72	79.75	506.73	510.28	3.79	3.71	4.69	
3,371.00	15.65	73.34	3,320.05	86.59	527.91	531.80	4.47	4.41	3.05	
3,465.00	19.29	77.88	3,409.71	93.49	555.25	559.47	4.13	3.87	4.83	
3,559.00	25.43	82.68	3,496.60	99.33	590.48	594.96	6.81	6.53	5.11	
3,654.00	31.43	87.06	3,580.12	103.20	635.50	640.12	6.68	6.32	4.61	
3,749.00	36.18	88.87	3,659.04	105.02	688.30	692.94	5.11	5.00	1.91	
3,843.00	41.45	88.07	3,732.25	106.62	747.18	751.82	5.63	5.61	-0.85	
3,937.00	47.07	89.67	3,799.55	107.87	812.74	817.36	6.10	5.98	1.70	
4,032.00	53.41	90.49	3,860.28	107.74	885.73	890.23	6.71	6.67	0.86	
4,126.00	60.31	90.48	3,911.64	107.07	964.39	968.75	7.34	7.34	-0.01	
4,221.00	59.53	90.87	3,959.25	106.11	1,046.59	1,050.77	0.89	-0.82	0.41	
4,315.00	59.00	90.56	4,007.29	105.10	1,127.38	1,131.39	0.63	-0.56	-0.33	
4,409.00	66.32	88.63	4,050.44	105.73	1,210.81	1,214.74	8.00	7.79	-2.05	
4,502.00	73.64	88.92	4,082.25	107.60	1,298.12	1,302.02	7.88	7.87	0.31	
4,595.00	83.54	88.74	4,100.63	109.46	1,389.14	1,393.02	10.65	10.65	-0.19	
4,625.56	84.40	88.22	4,103.84	110.27	1,419.52	1,423.40	3.29	2.81	-1.72	
PRINCE #1: FTP										
4,627.57	84.45	88.18	4,104.03	110.33	1,421.52	1,425.40	3.29	2.81	-1.71	
ST LP TARG ET (25' NORTH & 25' DEEP ER)										
4,689.00	86.18	87.13	4,109.05	112.83	1,482.69	1,486.61	3.29	2.81	-1.71	
4,784.00	85.65	86.72	4,115.82	117.92	1,577.32	1,581.37	0.70	-0.56	-0.43	
4,879.00	89.22	89.26	4,120.07	121.24	1,672.14	1,676.24	4.61	3.76	2.67	



Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 26.6' @ 3721.10usft (FRONTIER 26)
Site:	PRINCE FEDERAL 19B	MD Reference:	RKB = 26.6' @ 3721.10usft (FRONTIER 26)
Well:	001H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	WBDS_SQL_2

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,973.00	89.33	89.65	4,121.26	122.14	1,766.13	1,770.14	0.43	0.12	0.41	
5,067.00	89.09	89.76	4,122.55	122.62	1,860.12	1,864.02	0.28	-0.26	0.12	
5,161.00	88.64	89.35	4,124.42	123.35	1,954.10	1,957.90	0.65	-0.48	-0.44	
5,256.00	87.27	88.81	4,127.81	124.87	2,049.02	2,052.77	1.55	-1.44	-0.57	
5,350.00	86.43	88.48	4,132.97	127.09	2,142.85	2,146.58	0.96	-0.89	-0.35	
5,444.00	86.78	88.49	4,138.54	129.57	2,236.65	2,240.38	0.37	0.37	0.01	
5,539.00	88.82	89.39	4,142.18	131.33	2,331.56	2,335.25	2.35	2.15	0.95	
5,634.00	87.75	88.86	4,145.03	132.78	2,426.51	2,430.13	1.26	-1.13	-0.56	
5,727.00	91.32	90.13	4,145.78	133.60	2,519.48	2,523.02	4.07	3.84	1.37	
5,822.00	90.70	89.79	4,144.11	133.67	2,614.47	2,617.87	0.74	-0.65	-0.36	
5,917.00	90.26	89.50	4,143.31	134.25	2,709.46	2,712.76	0.55	-0.46	-0.31	
6,008.00	89.50	88.88	4,143.50	135.54	2,800.45	2,803.69	1.08	-0.84	-0.68	
6,099.00	89.27	88.66	4,144.48	137.49	2,891.42	2,894.64	0.35	-0.25	-0.24	
6,212.00	89.09	86.91	4,146.10	141.86	3,004.32	3,007.61	1.56	-0.16	-1.55	
6,302.00	88.50	87.61	4,147.99	146.16	3,094.20	3,097.59	1.02	-0.66	0.78	
6,393.00	90.10	89.23	4,149.10	148.67	3,185.15	3,188.54	2.50	1.76	1.78	
6,484.00	91.41	89.70	4,147.90	149.52	3,276.14	3,279.44	1.53	1.44	0.52	
6,574.00	91.81	90.07	4,145.37	149.70	3,366.10	3,369.29	0.61	0.44	0.41	
6,665.00	92.79	89.46	4,141.72	150.07	3,457.03	3,460.10	1.27	1.08	-0.67	
6,756.00	90.54	89.32	4,139.08	151.04	3,547.98	3,550.97	2.48	-2.47	-0.15	
6,846.00	90.40	89.99	4,138.34	151.58	3,637.97	3,640.87	0.76	-0.16	0.74	
6,937.00	90.49	91.79	4,137.63	150.17	3,728.95	3,731.64	1.98	0.10	1.98	
7,028.00	90.52	91.75	4,136.83	147.36	3,819.91	3,822.31	0.05	0.03	-0.04	
7,119.00	87.94	90.83	4,138.05	145.31	3,910.87	3,913.03	3.01	-2.84	-1.01	
7,212.00	88.25	91.08	4,141.14	143.76	4,003.80	4,005.75	0.43	0.33	0.27	
7,305.00	88.33	90.68	4,143.92	142.33	4,096.75	4,098.49	0.44	0.09	-0.43	
7,399.00	88.92	90.64	4,146.17	141.25	4,190.72	4,192.26	0.63	0.63	-0.04	
7,492.00	88.97	90.80	4,147.89	140.08	4,283.69	4,285.04	0.18	0.05	0.17	
7,587.00	89.23	90.19	4,149.38	139.26	4,378.68	4,379.84	0.70	0.27	-0.64	
7,682.00	89.68	90.01	4,150.28	139.10	4,473.67	4,474.69	0.51	0.47	-0.19	
7,775.00	90.32	90.11	4,150.28	139.00	4,566.67	4,567.55	0.70	0.69	0.11	
7,870.00	89.76	90.03	4,150.22	138.88	4,661.67	4,662.41	0.60	-0.59	-0.08	
7,965.00	90.26	89.95	4,150.20	138.90	4,756.67	4,757.27	0.53	0.53	-0.08	
8,060.00	90.60	90.65	4,149.49	138.40	4,851.67	4,852.11	0.82	0.36	0.74	
8,154.00	89.31	92.66	4,149.56	135.69	4,945.62	4,945.78	2.54	-1.37	2.14	
8,249.00	89.65	92.70	4,150.42	131.25	5,040.51	5,040.30	0.36	0.36	0.04	
8,343.00	90.57	92.59	4,150.24	126.91	5,134.41	5,133.83	0.99	0.98	-0.12	
8,438.00	90.99	93.10	4,148.95	122.19	5,229.29	5,228.31	0.70	0.44	0.54	
8,532.00	90.74	91.65	4,147.53	118.30	5,323.19	5,321.87	1.57	-0.27	-1.54	
8,627.00	89.26	90.53	4,147.53	116.49	5,418.17	5,416.62	1.95	-1.56	-1.18	
8,722.00	85.86	90.49	4,151.57	115.65	5,513.07	5,511.33	3.58	-3.58	-0.04	
8,815.00	86.93	90.72	4,157.42	114.67	5,605.88	5,603.96	1.18	1.15	0.25	
8,910.00	87.69	91.09	4,161.88	113.17	5,700.76	5,698.62	0.89	0.80	0.39	
9,005.00	88.67	91.22	4,164.90	111.25	5,795.69	5,793.31	1.04	1.03	0.14	



Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 26.6' @ 3721.10usft (FRONTIER 26)
Site:	PRINCE FEDERAL 19B	MD Reference:	RKB = 26.6' @ 3721.10usft (FRONTIER 26)
Well:	001H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	WBDS_SQL_2

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,100.00	89.34	91.55	4,166.55	108.96	5,890.65	5,888.01	0.79	0.71	0.35	
9,194.00	90.12	91.59	4,166.99	106.38	5,984.61	5,981.70	0.83	0.83	0.04	
9,291.22	91.17	91.74	4,165.90	103.56	6,081.78	6,078.58	1.09	1.08	0.16	
PRINCE #1: LTP										
9,296.00	91.22	91.75	4,165.80	103.41	6,086.56	6,083.34	1.09	1.08	0.16	
9,370.00	91.22	91.75	4,164.22	101.15	6,160.51	6,157.06	0.00	0.00	0.00	
Projection to Bit: 9370.00' MD/ 4164.22' TVD - Final Station Closure Distance= 6161.34 /Direction= 89.0 6 - TD: Latitude=										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
9,370.00	4,164.22	101.15	6,160.51	Projection to Bit: 9370.00' MD/ 4164.22' TVD	
9,370.00	4,164.22	101.15	6,160.51	Final Station Closure Distance= 6161.34 /Direction= 89.06	
9,370.00	4,164.22	101.15	6,160.51	TD: Latitude= 32.822855 / Longitude= -104.105677	
9,370.00	4,164.22	101.15	6,160.51	TD: Y= 663162.63 / X= 611270.84	

Checked By: _____

Approved By: _____

Date: _____



Gamma Ray

1" = 100'

MD FT

Company: Longfellow Energy,LP Well: ST01 Prince Federal 19B-001H Field: Loco Hills API: 30-015-48302 County: Eddy State: New Mexico Country: USA Rig: Frontier 26 AFE: Job: NM-22-1115		Company: Longfellow Energy,LP Well: ST01 Prince Federal 19B-001H Field: Loco Hills API: 30-015-48302 County: Eddy State New Mexico Country USA Rig: Frontier 26	
Well Location NAD 1983 New Mexico Eastern Zone Latitude: 32.82261 Longitude: -104.12573 Y: 663,061.48 X: 605,110.33		Section: Township: Range:	
Permanent Datum: Mean Sea Level Kelly Bushing Elev: N/A Log Measured From: Rotary Table Drill Floor Elev: 3721.1 Height of Reference: 26.6 Ground Level Elev: 3694.50			

Depth Drilled: 120.0	to: 9370.0	Disclaimer: Wellbenders Directional Services uses its best efforts to provide customers with accurate information and interpretations with services performed but does not warranty the accuracy of information or interpretations.
Depth Logged: 1250.0	to: 9370.04	
Date Logged: 19 Oct 2022 12:54	to: 14 Nov 2022 08:20	

Received by OCD: 4/20/2023

Hole Data			Casing Data		
Size	From (MD)	To (MD)	Size	From (MD)	To (MD)
17.50	0	385	13 3/8	0	385
12.25	385	1265	9 5/8	385	1265
8.75	1265	9370			

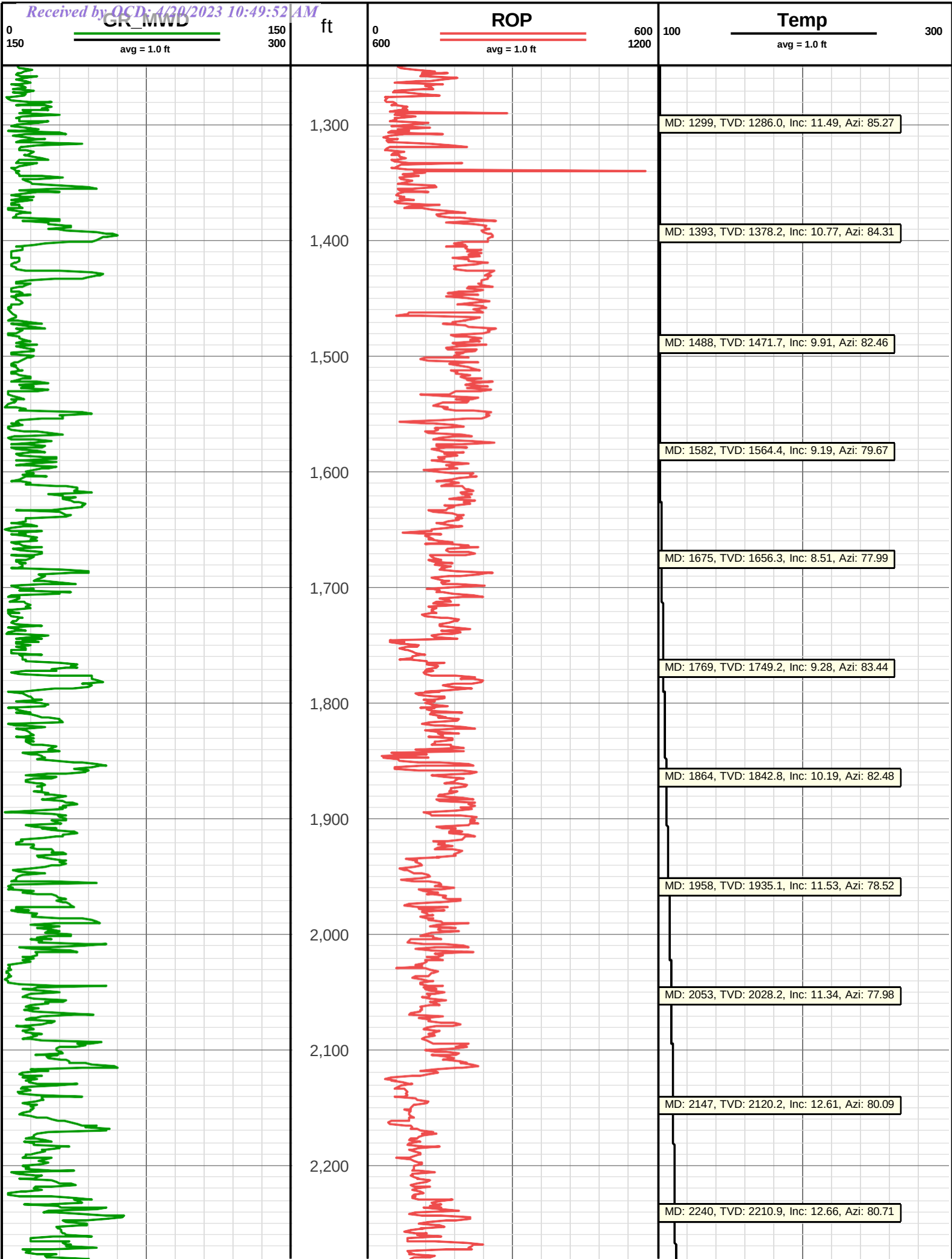
Remarks

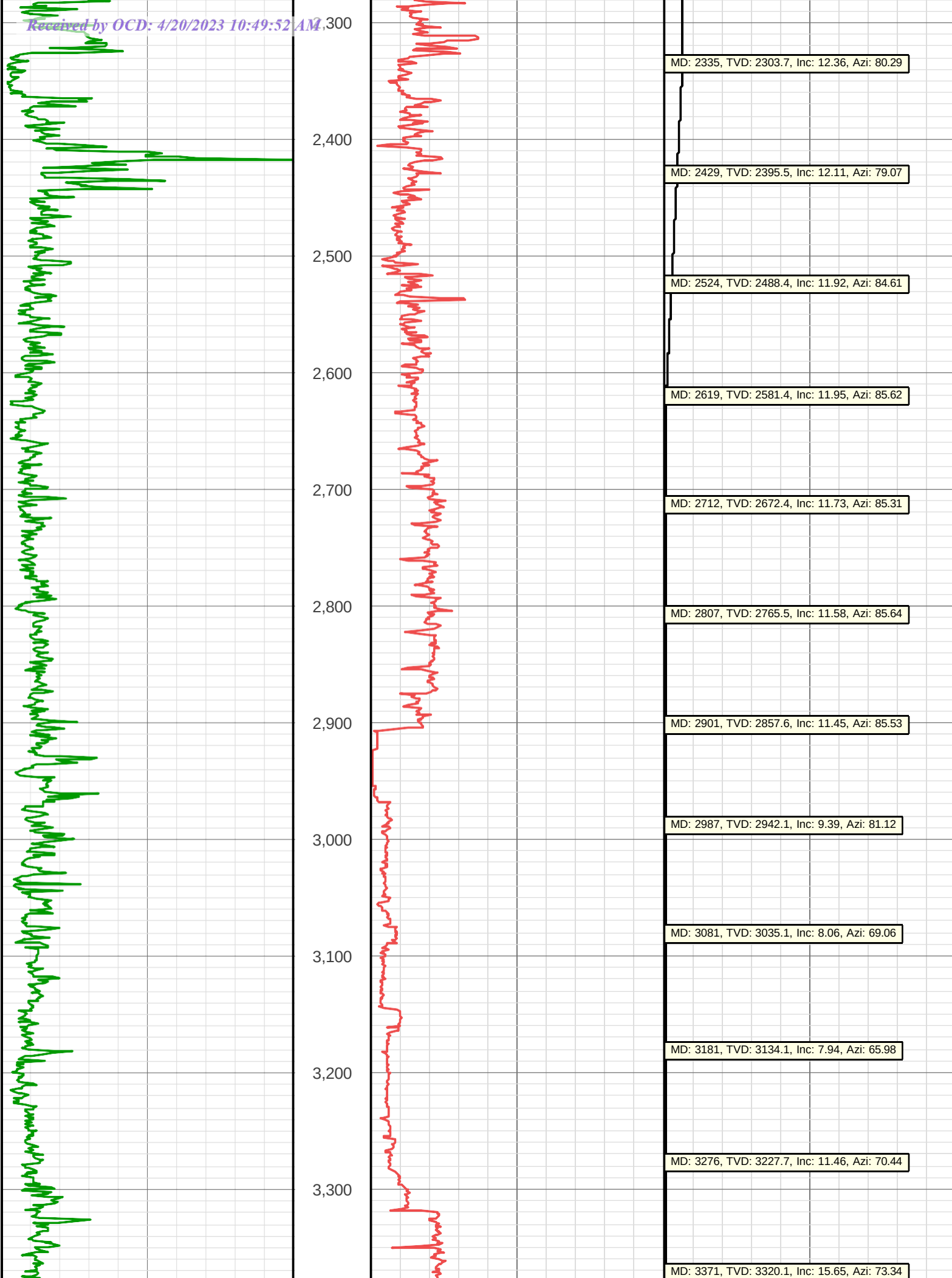
Received by OCD: 4/20/2023 10:49:52 AM								
Run Data								
Run Name	MWD Run 1	MWD Run 2 + SQC	MWD Run ST01 + SQC	MWD Run 6 + SQC	MWD Run 7 +SQC	MWD Run 8 +SQC		
Start Date	19 Oct 2022	20 Oct 2022	4 Nov 2022	5 Nov 2022	9 Nov 2022	11 Nov 2022		
Start Time	11:00	12:00	5:00	11:25	2:00	6:30		
End Date	20 Oct 2022	22 Oct 2022	5 Nov 2022	9 Nov 2022	11 Nov 2022	13 Nov 2022		
End Time	01:30	11:30	20:30	12:45	4:00	15:30		
Depth In	120	385	2905	3145	6354	8060		
Depth Out	385	1265	3145	6354	8060	9370		
Log Top			2856	3085	6295	8001		
Log Bottom			3096	6294	8001	9311		
Hole Size	17.50	12.25	8.75	8.75	8.75	8.75		

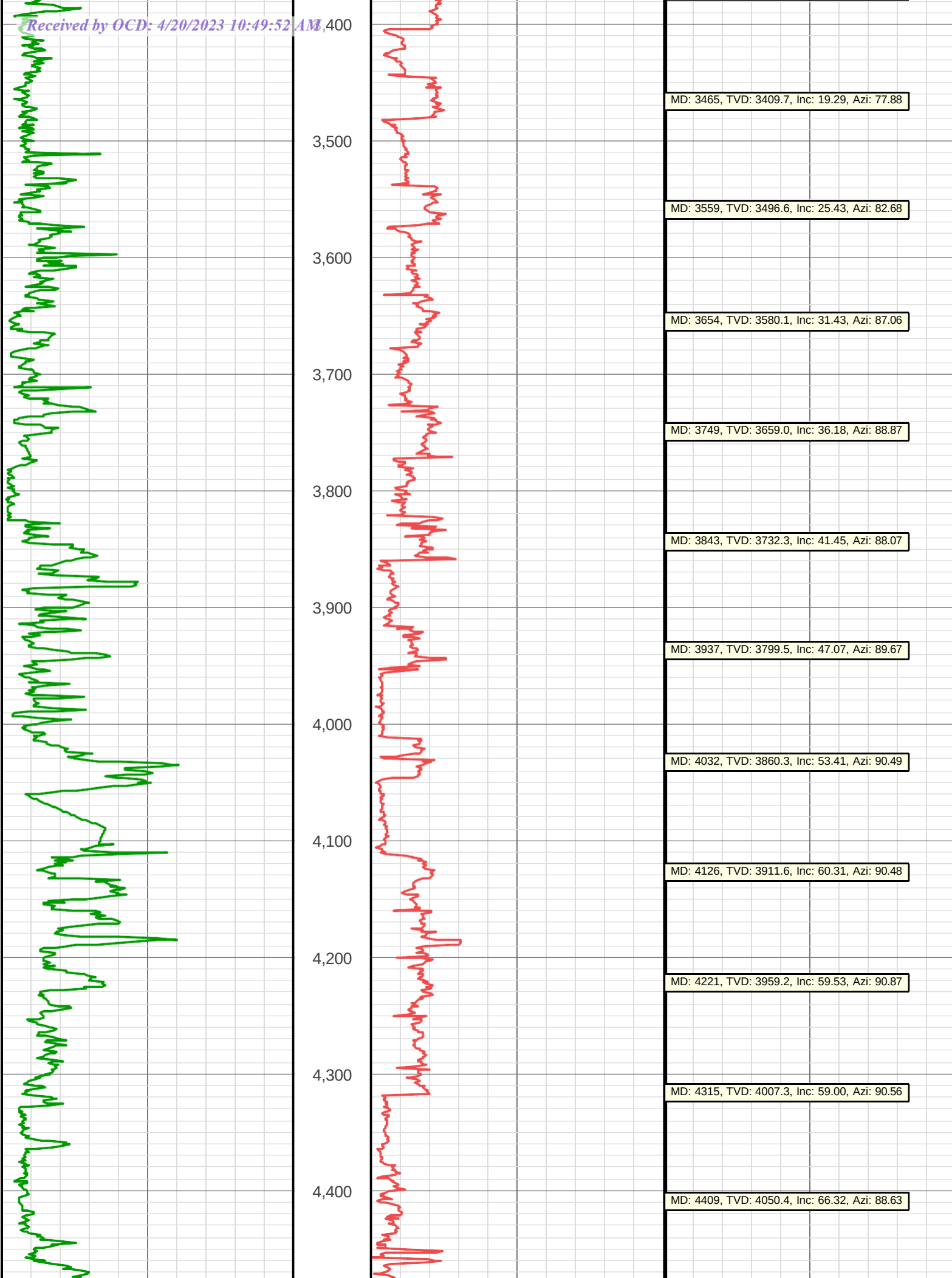
Tool Data								
Run Name	MWD Run 1	MWD Run 2 + SQC	MWD Run ST01 + SQC	MWD Run 6 + SQC	MWD Run 7 +SQC	MWD Run 8 +SQC		
Directional Sensor SN	200319	20319	20360	20360	20064	20064		
Directional Offset	54	60	64	75	74	74		
Gamma Sensor SN	DG0920	DG0920	DG1263	DG1263	DG796	DG796		
Gamma Offset			49	60	59	59		
Gamma Corr. Factor	1.0	1.0	3.7132	3.7132	3.716925	3.716925		

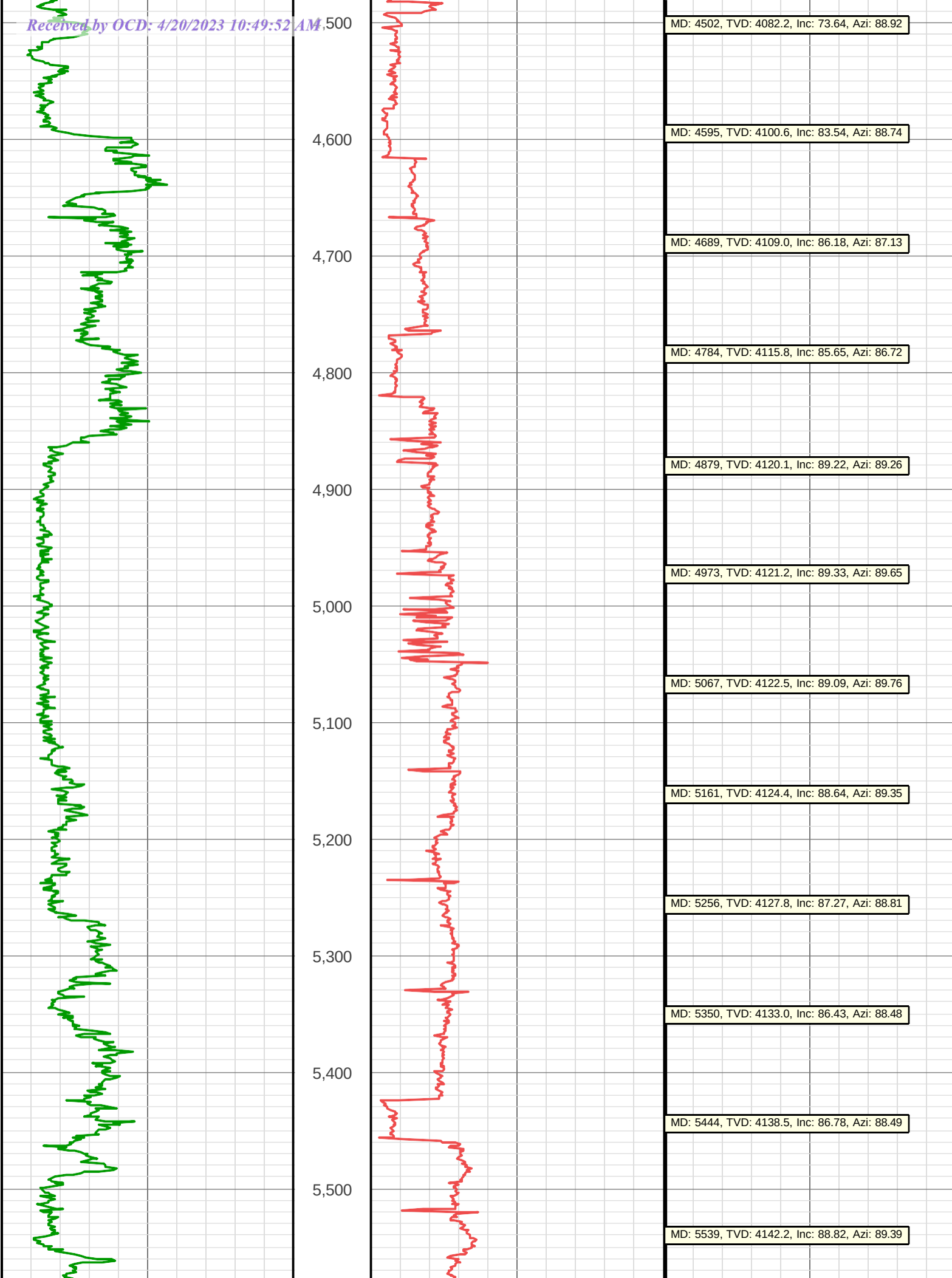
Mud Data								
Run Name	MWD Run 1	MWD Run 2 + SQC	MWD Run ST01 + SQC	MWD Run 6 + SQC	MWD Run 7 +SQC	MWD Run 8 +SQC		
Mud Type	Water Based	Water Based	Water Based	Water Based	Water Based	Water Based		
Mud Density (lb/gal)	8.8	9.5	9.2	9.1	8.9	9.2		
Funnel Visc. (s/qt)	36	28	28	28	30	30		
Plastic Visc. (cP)	5	1	1	1	2	2		
pH	0.0	9.0	11.5	8.5	8.0	8.0		
Chlor. Whole Mud (mg/L)	0	131000	94000	75000	40000	80000		
API Filtrate (cm3/30)	N/A	100	100	100/1	100	100		
Max MWD Temp (F)	86.0	86.0	113.0	271.4	113.0	109.4		

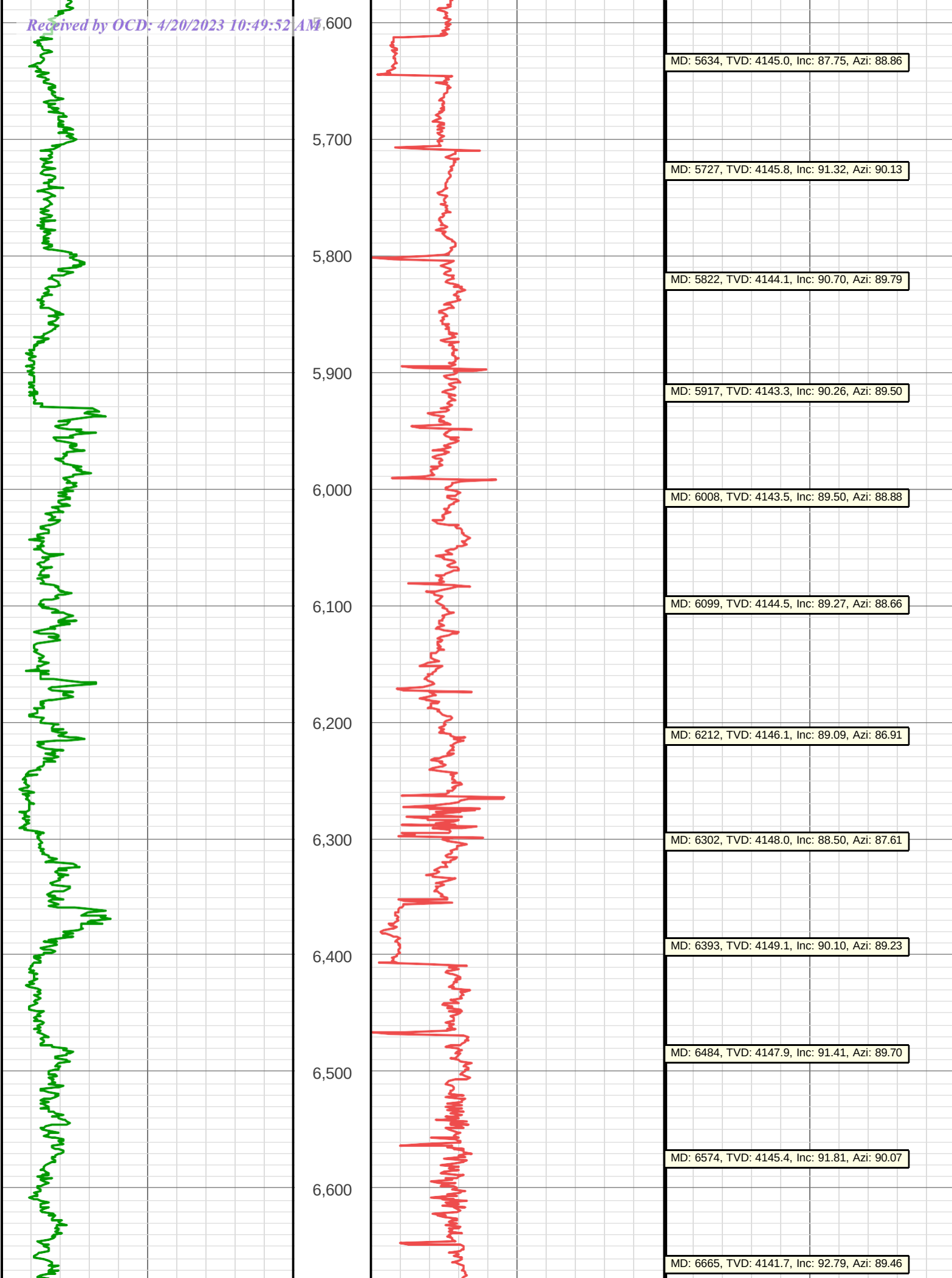
Received by <i>OCD: 4/20/2023 10:49:52 AM</i>		Personnel						
Run Name	MWD Run 1	MWD Run 2 + SQC	MWD Run ST01 + SQC	MWD Run 6 + SQC	MWD Run 7 +SQC	MWD Run 8 +SQC		
MWD Operator 1	Lavoy Vallaire	Lavoy Vallaire	Lavoy Vallaire	Lavoy Vallaire	Lavoy Vallaire	Lavoy Vallaire		
MWD Operator 2	James Anderson	James Anderson	Aaron Alter	Aaron Alter	Aaron Alter	Aaron Alter		
MWD Operator 3								

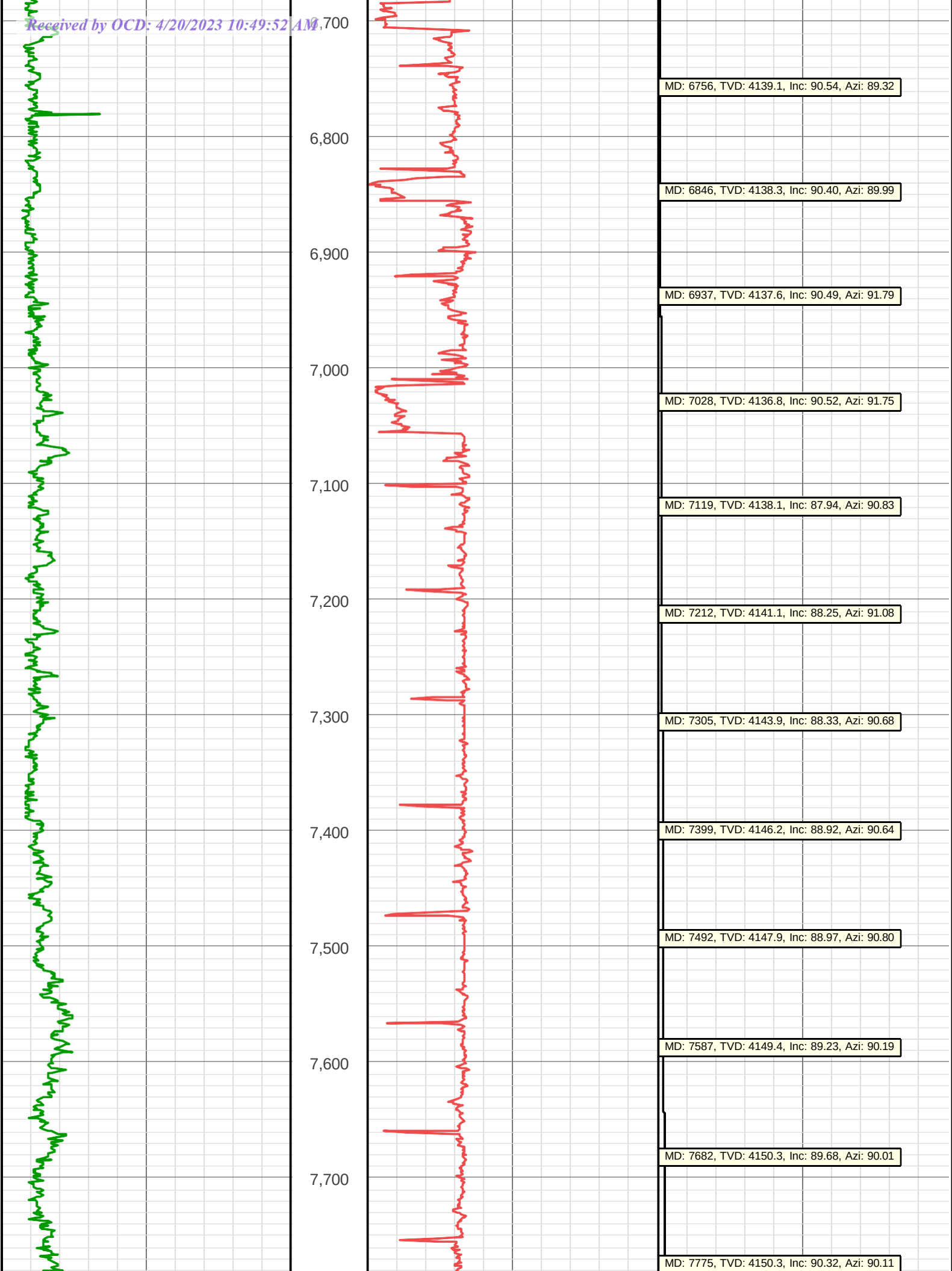


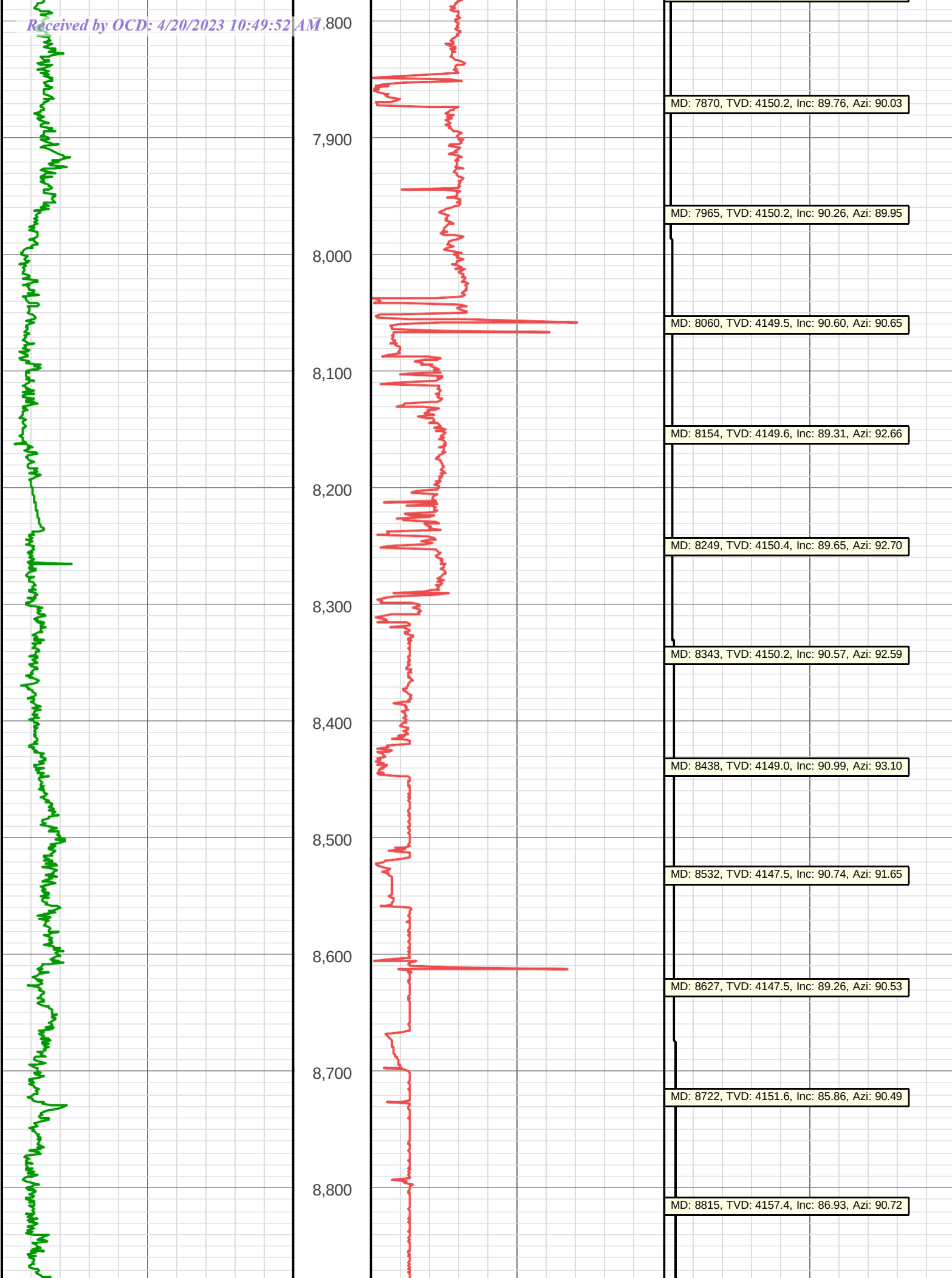


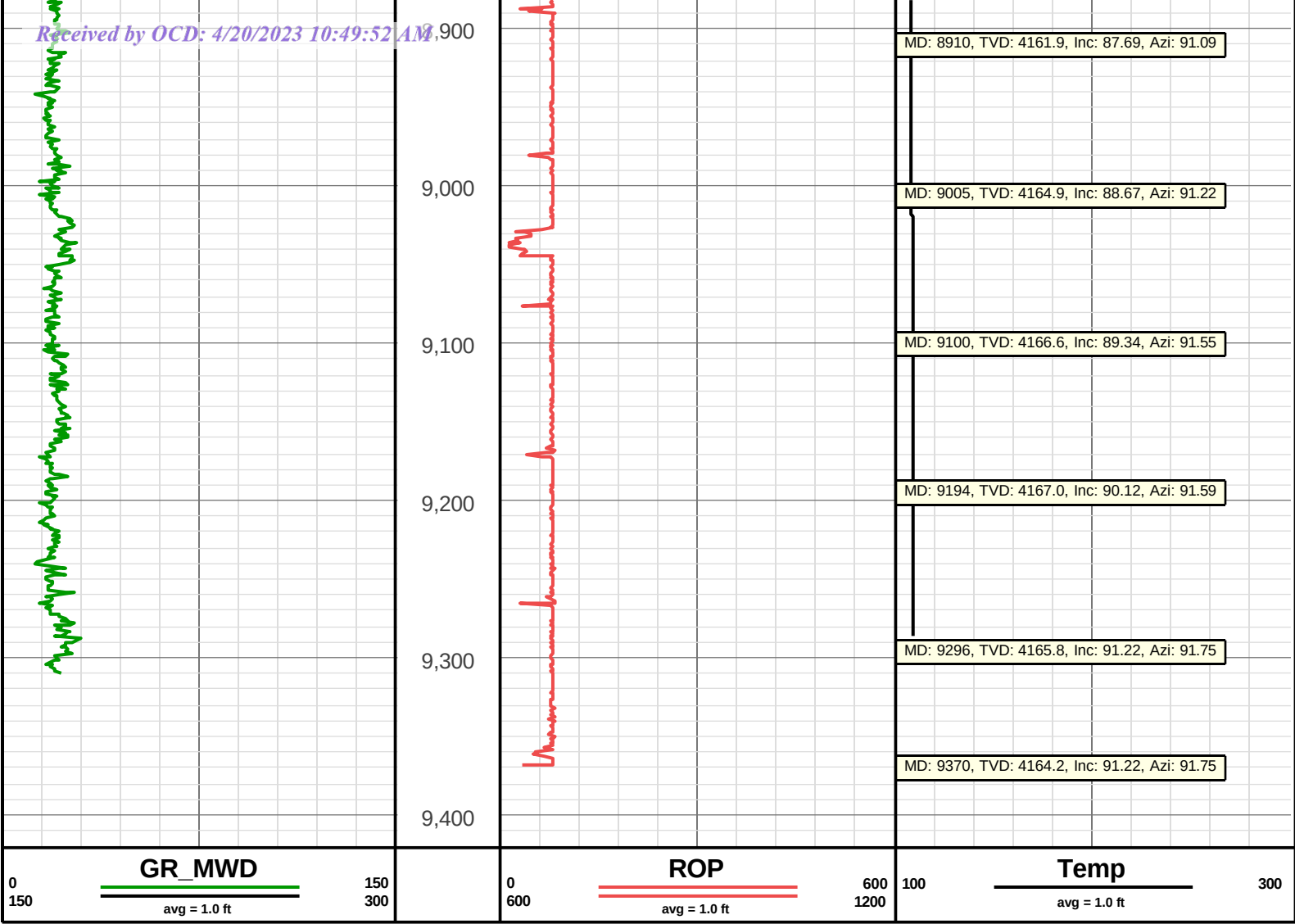












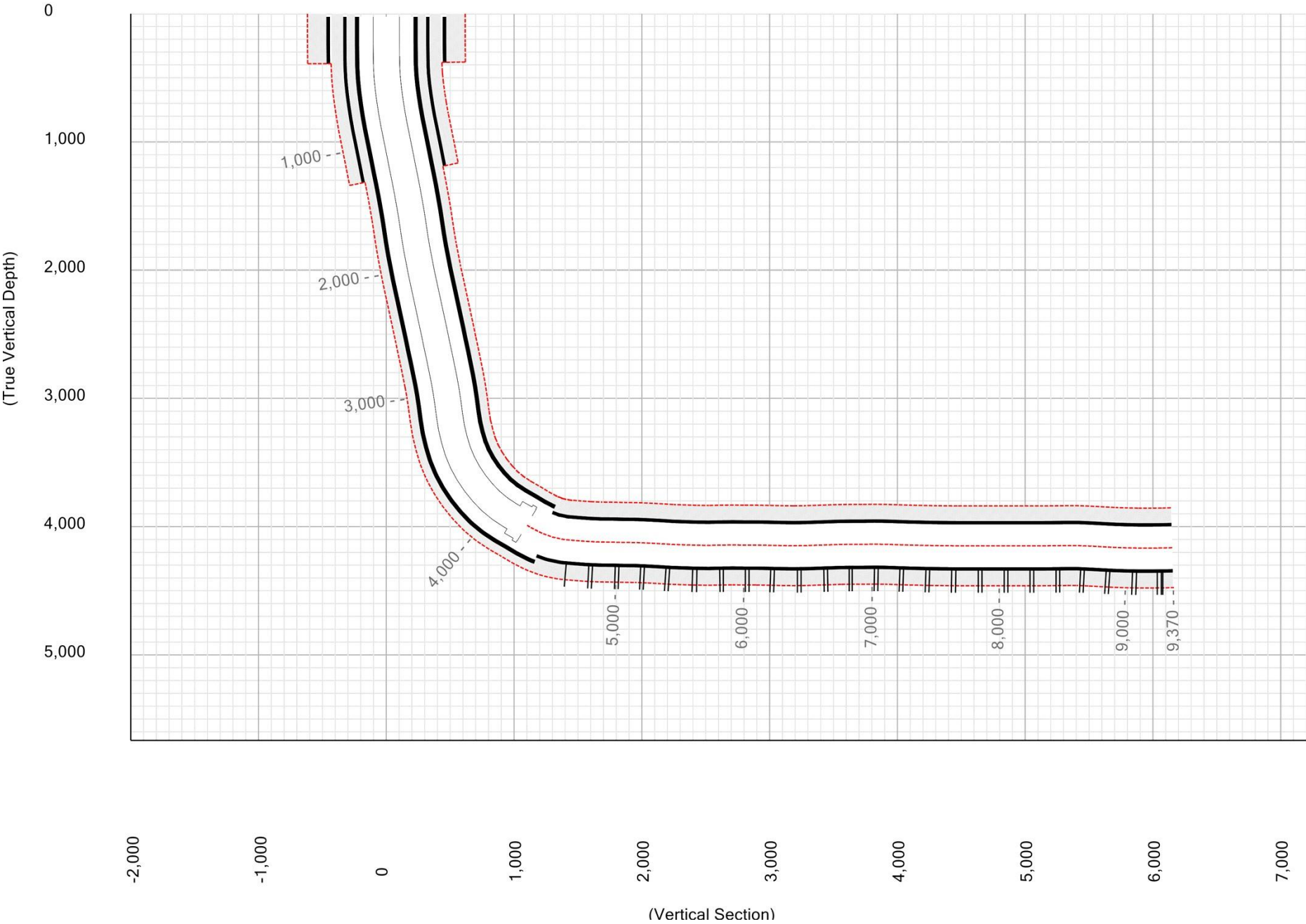
Received by OCD: 4/20/2023 10:49:52 AM										
Survey Data										
Survey	MD	Inc	Azimuth	TVD	VS	NS	EW	DLS	Temp	Source
Tie In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1	164.00	0.19	141.23	164.00	0.17	-0.21	0.17	0.11	0.00	
2	225.00	0.43	192.39	225.00	0.18	-0.51	0.18	0.57	0.00	
3	315.00	0.97	131.45	314.99	0.68	-1.35	0.68	0.94	0.00	
4	406.00	1.42	102.61	405.97	2.35	-2.10	2.36	0.81	0.00	
5	497.00	4.30	74.49	496.85	6.74	-1.44	6.74	3.43	0.00	
6	588.00	7.24	71.26	587.38	15.47	1.32	15.46	3.25	0.00	
7	678.00	9.10	70.50	676.47	27.56	5.52	27.54	2.08	0.00	
8	769.00	9.84	71.14	766.23	41.71	10.43	41.69	0.82	0.00	
9	860.00	11.14	75.41	855.70	57.58	15.16	57.55	1.67	0.00	
10	950.00	11.49	83.31	943.96	74.91	18.39	74.87	1.77	0.00	
11	1041.00	11.41	89.65	1033.15	92.93	19.50	92.88	1.38	0.00	
12	1132.00	11.46	91.47	1122.34	110.97	19.33	110.92	0.40	0.00	
13	1205.00	11.48	87.94	1193.89	125.47	19.40	125.43	0.96	0.00	
14	1299.00	11.49	85.27	1286.01	144.15	20.51	144.11	0.56	0.00	
15	1393.00	10.77	84.31	1378.24	162.23	22.15	162.18	0.79	0.00	
16	1488.00	9.91	82.46	1471.69	179.18	24.11	179.12	0.98	0.00	
17	1582.00	9.19	79.67	1564.39	194.58	26.52	194.53	0.91	0.00	
18	1675.00	8.51	77.99	1656.28	208.63	29.28	208.56	0.79	0.00	
19	1769.00	9.28	83.44	1749.15	222.96	31.59	222.89	1.21	0.00	
20	1864.00	10.19	82.48	1842.78	238.91	33.56	238.83	0.98	0.00	
21	1958.00	11.53	78.52	1935.10	256.37	36.52	256.28	1.63	0.00	
22	2053.00	11.34	77.98	2028.22	274.81	40.35	274.72	0.23	0.00	
23	2147.00	12.61	80.09	2120.17	293.96	44.04	293.86	1.43	0.00	
24	2240.00	12.66	80.71	2210.92	314.02	47.43	313.92	0.16	0.00	
25	2335.00	12.36	80.29	2303.66	334.33	50.83	334.21	0.32	0.00	
26	2429.00	12.11	79.07	2395.53	353.94	54.39	353.81	0.38	0.00	
27	2524.00	11.92	84.61	2488.45	373.50	57.21	373.37	1.23	0.00	
28	2619.00	11.95	85.62	2581.39	393.08	58.88	392.95	0.22	0.00	
29	2712.00	11.73	85.31	2672.42	412.10	60.39	411.96	0.24	0.00	
30	2807.00	11.58	85.64	2765.46	431.23	61.90	431.10	0.17	0.00	
31	2901.00	11.45	85.53	2857.57	449.95	63.35	449.80	0.15	0.00	
32	2987.00	9.39	81.12	2942.14	465.39	65.09	465.25	2.56	86.00	MWD Run ST01 + SQC

33	3091.00	8.06	69.06	3035.06	479.14	68.63	478.99	2.40	87.80	MWD Run ST01 + SQC
34	3181.00	7.94	65.98	3134.09	492.01	73.95	491.85	0.45	0.00	MWD Run 6 + SQC
35	3276.00	11.46	70.44	3227.72	506.92	79.78	506.74	3.78	93.20	MWD Run 6 + SQC
36	3371.00	15.65	73.34	3320.05	528.11	86.62	527.91	4.47	95.00	MWD Run 6 + SQC
37	3465.00	19.29	77.88	3409.70	555.46	93.51	555.25	4.12	96.80	MWD Run 6 + SQC
38	3559.00	25.43	82.68	3496.60	590.70	99.35	590.48	6.81	98.60	MWD Run 6 + SQC
39	3654.00	31.43	87.06	3580.12	635.73	103.22	635.49	6.69	100.40	MWD Run 6 + SQC
40	3749.00	36.18	88.87	3659.03	688.54	105.05	688.30	5.11	102.20	MWD Run 6 + SQC
41	3843.00	41.45	88.07	3732.25	747.42	106.65	747.18	5.62	100.40	MWD Run 6 + SQC
42	3937.00	47.07	89.67	3799.55	812.98	107.90	812.74	6.10	98.60	MWD Run 6 + SQC
43	4032.00	53.41	90.49	3860.27	885.98	107.77	885.73	6.71	95.00	MWD Run 6 + SQC
44	4126.00	60.31	90.48	3911.63	964.64	107.11	964.39	7.34	96.80	MWD Run 6 + SQC
45	4221.00	59.53	90.87	3959.24	1046.83	106.14	1046.60	0.90	96.80	MWD Run 6 + SQC
46	4315.00	59.00	90.56	4007.28	1127.62	105.13	1127.39	0.63	95.00	MWD Run 6 + SQC
47	4409.00	66.32	88.63	4050.42	1211.06	105.77	1210.82	8.00	100.40	MWD Run 6 + SQC
48	4502.00	73.64	88.92	4082.24	1298.36	107.63	1298.12	7.88	100.40	MWD Run 6 + SQC
49	4595.00	83.54	88.74	4100.62	1389.40	109.49	1389.15	10.65	105.80	MWD Run 6 + SQC
50	4689.00	86.18	87.13	4109.04	1482.95	112.86	1482.70	3.29	107.60	MWD Run 6 + SQC
51	4784.00	85.65	86.72	4115.80	1577.59	117.95	1577.32	0.70	109.40	MWD Run 6 + SQC
52	4879.00	89.22	89.26	4120.06	1672.42	121.27	1672.15	4.61	111.20	MWD Run 6 + SQC
53	4973.00	89.33	89.65	4121.25	1766.41	122.17	1766.13	0.43	113.00	MWD Run 6 + SQC
54	5067.00	89.09	89.76	4122.54	1860.40	122.65	1860.12	0.28	113.00	MWD Run 6 + SQC
55	5161.00	88.64	89.35	4124.40	1954.38	123.38	1954.10	0.65	114.80	MWD Run 6 + SQC
56	5256.00	87.27	88.81	4127.79	2049.30	124.90	2049.03	1.55	114.80	MWD Run 6 + SQC
57	5350.00	86.43	88.48	4132.96	2143.14	127.12	2142.86	0.96	114.80	MWD Run 6 + SQC
58	5444.00	86.78	88.49	4138.53	2236.95	129.61	2236.66	0.37	111.20	MWD Run 6 + SQC
59	5539.00	88.82	89.39	4142.17	2331.86	131.36	2331.57	2.35	113.00	MWD Run 6 + SQC
60	5634.00	87.75	88.86	4145.02	2426.81	132.81	2426.51	1.26	113.00	MWD Run 6 + SQC
61	5727.00	91.32	90.13	4145.77	2519.78	133.63	2519.49	4.07	113.00	MWD Run 6 + SQC
62	5822.00	90.70	89.79	4144.10	2614.77	133.70	2614.47	0.74	114.80	MWD Run 6 + SQC
63	5917.00	90.26	89.50	4143.30	2709.77	134.28	2709.47	0.55	113.00	MWD Run 6 + SQC
64	6008.00	89.50	88.88	4143.49	2800.76	135.57	2800.46	1.08	114.80	MWD Run 6 + SQC
65	6099.00	89.27	88.66	4144.47	2891.74	137.52	2891.43	0.35	116.60	MWD Run 6 + SQC

66	6212.00	88.09	86.91	4146.09	3004.64	141.89	3004.33	1.56	96.80	MWD Run 7 +SQC
67	6302.00	88.50	87.61	4147.98	3094.53	146.20	3094.21	1.02	96.80	MWD Run 7 +SQC
68	6393.00	90.10	89.23	4149.10	3185.49	148.70	3185.16	2.50	100.40	MWD Run 7 +SQC
69	6484.00	91.41	89.70	4147.90	3276.48	149.55	3276.14	1.54	104.00	MWD Run 7 +SQC
70	6574.00	91.81	90.07	4145.37	3366.44	149.73	3366.11	0.60	105.80	MWD Run 7 +SQC
71	6665.00	92.79	89.46	4141.72	3457.37	150.10	3457.03	1.27	107.60	MWD Run 7 +SQC
72	6756.00	90.54	89.32	4139.08	3548.32	151.07	3547.98	2.47	109.40	MWD Run 7 +SQC
73	6846.00	90.40	89.99	4138.33	3638.31	151.62	3637.98	0.76	109.40	MWD Run 7 +SQC
74	6937.00	90.49	91.79	4137.62	3729.29	150.20	3728.96	1.98	111.20	MWD Run 7 +SQC
75	7028.00	90.52	91.75	4136.83	3820.24	147.39	3819.91	0.05	111.20	MWD Run 7 +SQC
76	7119.00	87.94	90.83	4138.05	3911.19	145.34	3910.87	3.01	113.00	MWD Run 7 +SQC
77	7212.00	88.25	91.08	4141.15	4004.13	143.79	4003.81	0.43	113.00	MWD Run 7 +SQC
78	7305.00	88.33	90.68	4143.93	4097.07	142.37	4096.76	0.45	113.00	MWD Run 7 +SQC
79	7399.00	88.92	90.64	4146.19	4191.03	141.29	4190.72	0.63	113.00	MWD Run 7 +SQC
80	7492.00	88.97	90.80	4147.89	4284.01	140.13	4283.70	0.19	113.00	MWD Run 7 +SQC
81	7587.00	89.23	90.19	4149.39	4378.99	139.31	4378.68	0.70	113.00	MWD Run 7 +SQC
82	7682.00	89.68	90.01	4150.29	4473.98	139.15	4473.68	0.51	113.00	MWD Run 7 +SQC
83	7775.00	90.32	90.11	4150.30	4566.98	139.05	4566.68	0.70	111.20	MWD Run 7 +SQC
84	7870.00	89.76	90.03	4150.23	4661.98	138.94	4661.68	0.60	111.20	MWD Run 7 +SQC
85	7965.00	90.26	89.95	4150.21	4756.98	138.96	4756.68	0.54	111.20	MWD Run 7 +SQC
86	8060.00	90.60	90.65	4149.50	4851.98	138.46	4851.67	0.82	104.00	MWD Run 8 +SQC
87	8154.00	89.31	92.66	4149.57	4945.92	135.75	4945.63	2.55	105.80	MWD Run 8 +SQC
88	8249.00	89.65	92.70	4150.43	5040.80	131.30	5040.52	0.36	100.40	MWD Run 8 +SQC
89	8343.00	90.57	92.59	4150.25	5134.69	126.96	5134.42	0.99	102.20	MWD Run 8 +SQC
90	8438.00	90.99	93.10	4148.95	5229.56	122.24	5229.29	0.70	107.60	MWD Run 8 +SQC
91	8532.00	90.74	91.65	4147.53	5323.45	118.35	5323.20	1.56	109.40	MWD Run 8 +SQC
92	8627.00	89.26	90.53	4147.53	5418.43	116.54	5418.18	1.96	104.00	MWD Run 8 +SQC
93	8722.00	85.86	90.49	4151.58	5513.32	115.69	5513.07	3.57	105.80	MWD Run 8 +SQC
94	8815.00	86.93	90.72	4157.43	5606.13	114.71	5605.88	1.17	107.60	MWD Run 8 +SQC
95	8910.00	87.69	91.09	4161.89	5701.01	113.21	5700.76	0.89	107.60	MWD Run 8 +SQC
96	9005.00	88.67	91.22	4164.92	5795.93	111.30	5795.69	1.04	107.60	MWD Run 8 +SQC
97	9100.00	89.34	91.55	4166.57	5890.88	109.00	5890.65	0.79	107.60	MWD Run 8 +SQC
98	9194.00	90.12	91.59	4167.01	5984.84	106.42	5984.61	0.83	109.40	MWD Run 8 +SQC

99	9370.00	91.22	91.75	4165.82	6086.78	103.45	6086.56	1.08	0.00	MWD Run 8 +SQC
100	9370.00	91.22	91.75	4164.24	6160.73	101.19	6160.51	0.00	0.00	MWD Run 8 +SQC

Prince Federal # 1H, 1/5/2023



Prince Federal # 1H API # 30-015-48302					
2319' FNL & 1303' FEL		GL Elev:	3,693.00	KOP:	3,240
Section 11, Township 17S, Range 28E				EOC:	4,633
County, State: Eddy, NM				Fill Depth:	
Aux ID:				PBTD:	9,314.00
'KB' correction: 26.5; All Depths Corr To: KB				TD:	9,370.00
				BOP:	7 1/16 10M

Hole Size			
Diameter	Top At	Btm At	Date Drilled
17.5000	0.00	385.00	10/17/2022
12.2500	385.00	1,265.00	10/20/2022
8.7500	1,265.00	9,370.00	11/13/2022

Surface Casing						Date Ran: 10/17/2022	
Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	10	13.3750	54.50	J55	358.50	26.50	385.00

Intermediate Casing						Date Ran: 10/20/2022	
Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	30	9.6250	36.00		1,236.50	26.50	1,263.00

Production Casing						Date Ran: 11/13/2022	
Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	84	7.0000	32.00	L80	3,236.33	26.50	3,262.83
Bow spring every 3rd jt							
Marker Jt	1	7.0000	32.00	L80	21.13	3,262.83	3,283.96
Casing	28	7.0000	32.00	L80	1,150.60	3,283.96	4,434.56
Bow spring every 3rd jt							
Crossover	1	5.5000	20.00	L80	2.65	4,434.56	4,437.21
Casing	9	5.5000	20.00	L80	398.47	4,437.21	4,835.68
Solid body every 2nd jt							
Float Insert	1	5.5000	20.00	L80	1.20	4,835.68	4,836.88
Casing	51	5.5000	20.00	L80	2,281.19	4,836.88	7,118.07
Solid body every 2nd jt							
Marker Jt	1	5.5000	20.00	L80	22.11	7,118.07	7,140.18
Casing	44	5.5000	20.00	L80	1,973.47	7,140.18	9,113.65
Solid body every 2nd jt							
Marker Jt	1	5.5000	20.00	L80	21.14	9,113.65	9,134.79
Casing	4	5.5000	20.00	L80	179.13	9,134.79	9,313.92
Solid body every 2nd jt							
Float Collar	1	5.5000	20.00	L80	1.25	9,313.92	9,315.17
Casing	1	5.5000	20.00	L80	44.79	9,315.17	9,359.96
Float Shoe	1	5.5000	20.00	L80	2.04	9,359.96	9,362.00

Cement								
Top At	Btm At	I D	O D	TOC Per	# - Type	# Sx	Class	Wt.
0.00	385.00	13.375	17.500	Circ	1 - Lead	500	C	14.80
Circ 101 sx to surf								
0.00	1,263.00	9.625	12.250	Circ	1 - Lead	395	C 35/65	13.50
					2 - Tail	165	C	14.80

Cement								
Top At	Btm At	I D	O D	TOC Per	# - Type	# Sx	Class	Wt.
153 sx to surf								
4,435.00	9,362.00	5.500	8.750	Circ	1 - Lead	450	C 35/65	12.20
					2 - Tail	1035	C	14.80
0.00	4,435.00	7.000	8.750	Circ				
153 sx to surf								

Zone and Perfs

Comments / Completion Summary									
Well was originally sidetracked. Got stuck @ 7032'. Set cement plug @ 2900'. Re-drilled well.									
Stg	Top	Btm	Proppant	AIR	AIP	MIR	MIP	ISIP	Acid
1	9088	9262	239480	102	6849	123	7332	1458	4498
2	8885	9056	247420	126	6419	135	7315		2999
3	8682	8856	245440	123	6694	129	7166		3000
4	8479	8653	249360	127	6020	131	7261		2757
5	8276	8450	256380	128	6526	135	7292		3001
6	8073	8247	250280	131	6416	136	7098	1244	3001
7	7870	8044	249230	128	6495	135	7437	1274	3284
8	7667	7841	248720	131	6240	139	6732	1402	2924
9	7464	7634	247540	114	6483	121	7136	1527	3001
10	7261	7435	250880	118	6724	122	7088	1762	3001
11	7058	7232	249020	123	6553	136	7122	2300	4500
12	6851	7029	245180	117	6562	128	7203	1784	3001
13	6652	6826	259760	121	6665	135	7143	1650	3000
14	6449	6623	240900	116	6678	130	7179	1822	3886
15	6246	6420	247860	127	5312	137	6594		3001
16	6043	6217	240502	118	6660	128	7126	1160	3003
17	5840	6014	246160	134	6641	138	7109	1974	3856
18	5637	5809	239800	119	6775	132	7166	1800	3003
19	5434	5608	239200	115	6800	135	7241	1800	3003
20	5231	5405	238680	122	6897	136	7272	1035	2119
21	5028	5202	240620	124	6583	137	7260	1006	4095
22	4825	4999	242300	127	6466	136	7193	1632	2634
23	4626	4796	247860	128	6887	135	7394	2239	9528

Perforations								
Top	Bottom	Formation	Status	Opened	Closed	# / Ft	Ttl #	
4,626.00	4,796.00	Upper Paddock	A	12/15/2022	12/16/2022	4	34	
Stage 23 (4,4,4,4,4,3,4,3,4)								
4,825.00	4,999.00	Upper Paddock	A	12/15/2022	12/15/2022	4	34	
Stage 22 (4,4,4,4,4,3,4,3,4)								
5,028.00	5,202.00	Upper Paddock	A	12/15/2022	12/15/2022	4	34	
Stage 21 (4,4,4,4,4,3,4,3,4)								
5,231.00	5,405.00	Upper Paddock	A	12/15/2022	12/15/2022	4	28	
Stage 20 (4,4,4,4,4,4,4)								
5,434.00	5,608.00	Upper Paddock	A	12/14/2022	12/14/2022	4	28	
Stage 19 (4,4,4,4,4,4,4)								

Perforations

Top	Bottom	Formation	Status	Opened	Closed	# / Ft	Ttl #
5,637.00	5,809.00	Upper Paddock	A	12/14/2022	12/14/2022	4	28
Stage 18 (4,4,4,4,4,4,4)							
5,840.00	6,014.00	Upper Paddock	A	12/14/2022	12/14/2022	4	28
Stage 17 (4,4,4,4,4,4,4)							
6,043.00	6,217.00	Upper Paddock	A	12/13/2022	12/13/2022	4	28
Stage 16 (4,4,4,4,4,4,4)							
6,246.00	6,420.00	Upper Paddock	A	12/13/2022	12/13/2022	3	36
Stage 15 (4,4,4,3,3,3,3,3,3,3)							
6,449.00	6,623.00	Upper Paddock	A	12/13/2022	12/13/2022	4	28
Stage 14 (4,4,4,4,4,4,4)							
6,652.00	6,826.00	Upper Paddock	A	12/12/2022	12/13/2022	4	28
Stage 13 (4,4,4,4,4,4,4)							
6,851.00	7,029.00	Upper Paddock	A	12/12/2022	12/12/2022	4	28
Stage 12 (4,4,4,4,4,4,4)							
7,058.00	7,232.00	Upper Paddock	A	12/12/2022	12/12/2022	4	28
Stage 11 (4,4,4,4,4,4,4)							
7,261.00	7,435.00	Upper Paddock	A	12/12/2022	12/12/2022	4	28
Stage 10 (4,4,4,4,4,4,4)							
7,464.00	7,634.00	Upper Paddock	A	12/11/2022	12/12/2022	4	28
Stage 9 (4,4,4,4,4,4,4)							
7,667.00	7,841.00	Upper Paddock	A	12/11/2022	12/11/2022	4	28
Stage 8 (4,4,4,4,4,4,4)							
7,870.00	8,044.00	Upper Paddock	A	12/11/2022	12/11/2022	4	28
Stage 7 (4,4,4,4,4,4,4)							
8,073.00	8,247.00	Upper Paddock	A	12/11/2022	12/11/2022	4	28
Stage 6 (4,4,4,4,4,4,4)							
8,276.00	8,450.00	Upper Paddock	A	12/10/2022	12/11/2022	4	28
Stage 5 (4,4,4,4,4,4,4)							
8,479.00	8,653.00	Upper Paddock	A	12/10/2022	12/10/2022	4	28
Stage 4 (4,4,4,4,4,4,4)							
8,682.00	8,856.00	Upper Paddock	A	12/9/2022	12/9/2022	4	28
Stage 3 (4,4,4,4,4,4,4)							
8,885.00	9,056.00	Upper Paddock	A	12/8/2022	12/9/2022	4	28
Stage 2 (4,4,4,4,4,4,4)							
9,088.00	9,245.00	Upper Paddock	A	12/8/2022	12/8/2022	4	28
Stage 1 (4,4,4,4,4,4,4)							
9,277.00	9,288.00	Upper Paddock	A	12/4/2022		4	46
TOE PERFS FOR PUMP DOWN.							

Tubing						Date Ran: 12/30/2022	
Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Tubing	127	2.8750	6.50	L80	4,130.43	26.50	4,156.93
Band 3 per jt. First JNT above pump every 3'. Jts ,3/8" cap ran in well.							
ESP Pump	1	4.0000			0.66	4,156.93	4,157.59
Discharge Pump							
ESP Pump	1	4.0000			23.62	4,157.59	4,181.21
E3000, 96 Stages							

ESP Pump	1	4.0000			23.62	4,181.21	4,204.83
E3000, 96 Stages							
ESP Pump	1	4.0000			13.00	4,204.83	4,217.83
G42, 41 Stages							
ESP Intake	2	4.0000			8.94	4,217.83	4,226.77
Double gas sep/intakes: MODEL 400							
ESP Seal	2	4.0000			12.20	4,226.77	4,238.97
Double seals							
ESP Motor	1	4.5000			35.28	4,238.97	4,274.25
NEW, 286 HP . 450 MODEL							
ESP Sensor	1	4.0000			2.82	4,274.25	4,277.07
NEW, Zenith E7							
Tubing Sub	1	2.3750			2.00	4,277.07	4,279.07
Band cap string to sub							

District I
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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

ACKNOWLEDGMENTS

Action 209371

ACKNOWLEDGMENTS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 209371
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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CONDITIONS

Action 209371

CONDITIONS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 209371
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	Well Log needs to be submitted as a [UF-WL] EP Well Log Submission (Well Log) separately and not with the C-104 Completion Packet.	4/21/2023