

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

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 BTA OIL PRODUCERS, LLC		² OGRID Number 260297	
		³ Reason for Filing Code/ Effective Date NEW WELL 10/10/2020	
⁴ API Number 30 – 025-46957	⁵ Pool Name ANTELOPE RIDGE-BONESPRING NORTH		⁶ Pool Code 97293
⁷ Property Code 327302	⁸ Property Name NORTH RIDGE 8040 FEDERAL COM		⁹ Well Number 1H

II. ¹⁰ Surface Location

UL or lot no. C	Section 35	Township 22S	Range 34E	Lot Idn	Feet from the 300’	North/South Line NORTH	Feet from the 1620’	East/West line WEST	County LEA
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¹¹ Bottom Hole Location

UL or lot no. E	Section 2	Township 23S	Range 34E	Lot Idn	Feet from the 2600	North/South line NORTH	Feet from the 700	East/West line WEST	County LEA
¹² Lse Code F	¹³ Producing Method Code FLOWING		¹⁴ Gas Connection Date 10/13/20		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
34053	PLAINS MARKETING LP P.O. BOX 4648 HOUSTON, TX 77210-4648	
159160	VERSADO GAS PROCESSORS, LLC 1000 LOUISIANA ST. STE 4700 Houston, TX. 77002-5021	

IV. Well Completion Data

²¹ Spud Date 3/31/2020	²² Ready Date 10/10/2020	²³ TD 18,098’	²⁴ PBTd 18,077’	²⁵ Perforations 10,650’-18.050’	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
17 ½”		13 3/8”	1,812’		1,645
12 ¼”		9 5/8”	5,637’		2,290
8 ¾”		5 ½”	18,081’		2,430

V. Well Test Data

³¹ Date New Oil 10/10/2020	³² Gas Delivery Date 10/13/2020	³³ Test Date 10/15/2020	³⁴ Test Length 24 HOURS	³⁵ Tbg. Pressure 1875	³⁶ Csg. Pressure 1225
³⁷ Choke Size 24/64”	³⁸ Oil 708	³⁹ Water 2446	⁴⁰ Gas 858	1875	⁴¹ Test Method FLOWBACK
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: Katy Reddell			OIL CONSERVATION DIVISION Approved by: KURT SIMMONS		
Printed name: KATY REDDELL			Title: NMOCD, SANTA FE		
Title: REGULATORY ANALYST			Approval Date: 06/29/2021		
E-mail Address: kreddell@btaoil.com					
Date: 12/03/2020	Phone: 432-682-3753				

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, New Mexico 87505

Form C-102

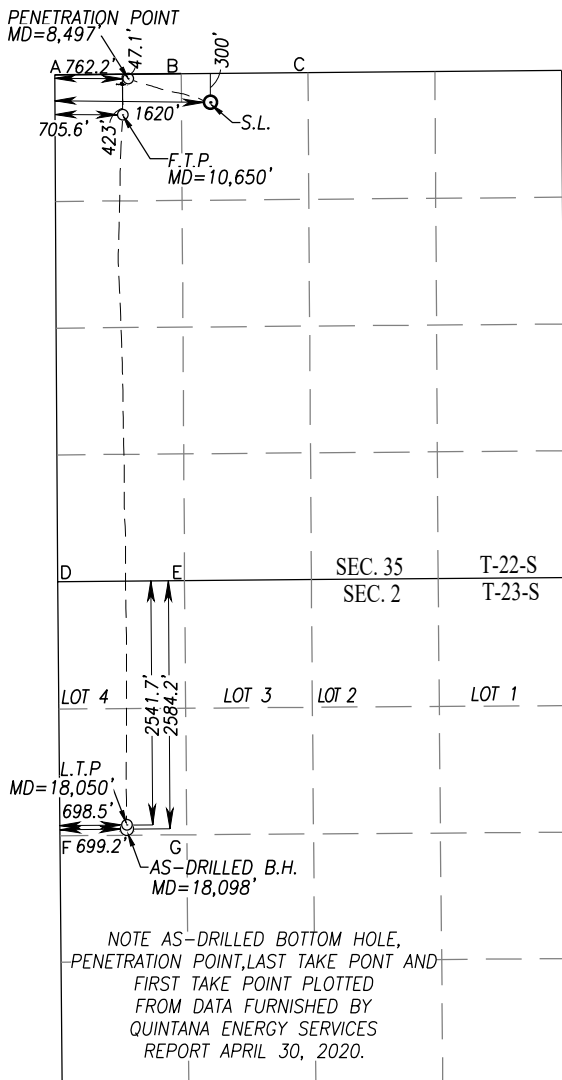
Revised August 1, 2011

Submit one copy to appropriate
District Office

X AMENDED REPORT
AS DRILLED PLAT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-46957		Pool Code 97293		Pool Name BONESPRING					
Property Code 327302		Property Name NORTH RIDGE 8040 FEDERAL COM						Well Number 1H	
OGRID No. 260297		Operator Name BTA OIL PRODUCERS, LLC						Elevation 3410'	
Surface Location									
UL or lot No. C	Section 35	Township 22-S	Range 34-E	Lot Idn	Feet from the 300	North/South line NORTH	Feet from the 1620	East/West line WEST	County LEA
AS-Drilled Bottom Hole Location If Different From Surface									
UL or lot No. E	Section 2	Township 23-S	Range 34-E	Lot Idn	Feet from the 2584.2	North/South line NORTH	Feet from the 699.2	East/West line WEST	County LEA
Penetration Point Location									
UL or lot No. D	Section 35	Township 22-S	Range 34-E	Lot Idn	Feet from the 47.1	North/South line NORTH	Feet from the 762	East/West line WEST	County LEA
Dedicated Acres 240		Joint or Infill		Consolidation Code		Order No.			



SCALE: 1"=2000'

GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 493874.6 N X= 815915.8 E LAT.=32.354597° N LONG.=103.444139° W PENETRATION POINT NAD 83 NME Y= 494120.0 N X= 815056.5 E LAT.=32.355291° N LONG.=103.446915° W FIRST TAKE POINT NAD 83 NME Y= 493743.7 N X= 815002.2 E LAT.=32.354258° N LONG.=103.447101° W	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 493814.3 N X= 774732.3 E LAT.=32.354473° N LONG.=103.443661° W PENETRATION POINT NAD 27 NME Y= 494059.8 N X= 773873.0 E LAT.=32.355167° N LONG.=103.446436° W FIRST TAKE POINT NAD 27 NME Y= 493683.4 N X= 773818.7 E LAT.=32.354134° N LONG.=103.446622° W
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CORNER COORDINATES TABLE
NAD 27 NME

A - Y= 494100.2 N, X= 773110.9 E	B - Y= 494111.6 N, X= 774429.1 E
C - Y= 494123.1 N, X= 775747.3 E	D - Y= 488821.5 N, X= 773142.0 E
E - Y= 488832.4 N, X= 774462.3 E	F - Y= 486176.1 N, X= 773163.4 E
G - Y= 486185.2 N, X= 774485.2 E	

CORNER COORDINATES TABLE
NAD 83 NME

A - Y= 494160.4 N, X= 814294.3 E	B - Y= 494171.9 N, X= 815612.6 E
C - Y= 494183.4 N, X= 816930.8 E	D - Y= 488881.6 N, X= 814325.5 E
E - Y= 488892.5 N, X= 815645.9 E	F - Y= 486236.2 N, X= 814347.0 E
G - Y= 486245.3 N, X= 815668.8 E	

LAST TAKE POINT NAD 83 NME Y= 486346.2 N X= 815044.5 E LAT.=32.333925° N LONG.=103.447162° W BOTTOM HOLE LOCATION NAD 83 NME Y= 486303.7 N X= 815045.6 E LAT.=32.333808° N LONG.=103.447160° W	LAST TAKE POINT NAD 27 NME Y= 486286.2 N X= 773860.9 E LAT.=32.333801° N LONG.=103.446684° W BOTTOM HOLE LOCATION NAD 27 NME Y= 486243.7 N X= 773862.0 E LAT.=32.333684° N LONG.=103.446682° W
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OPERATOR CERTIFICATION

I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Katy Reddell 12/03/2020

Signature Date

KATY REDDELL

Printed Name

kreddell@btaoil.com

E-mail Address

SURVEYOR CERTIFICATION

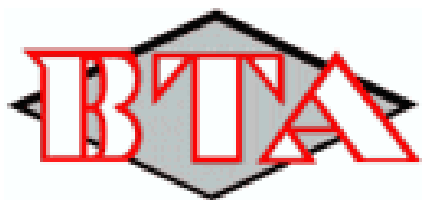
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MARCH 6, 2019

Date of Survey
Signature & Seal of Professional Surveyor:

Ronald J. Eidson 10/22/2020

Certificate Number	Gary G. Eidson	12641
	Ronald J. Eidson	3239
LSL	Rel.:19.11.0439	JWSC W.O.: 20.13.0494



BTA Oil Producers, LLC

Lea County, NM (NAD 83)

Sec 35, T22-S, R34-E

North Ridge 8040 Fed Com #1H

Wellbore #1

Design: Wellbore #1

Survey Report - Geographic

30 April, 2020





QES
Survey Report - Geographic



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well North Ridge 8040 Fed Com #1H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3435.0usft (Patterson #597)
Site:	Sec 35, T22-S, R34-E	MD Reference:	WELL @ 3435.0usft (Patterson #597)
Well:	North Ridge 8040 Fed Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project	Lea County, 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	Sec 35, T22-S, R34-E		
Site Position:		Northing:	493,874.60 usft
From:	Map	Easting:	815,915.80 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 21' 16.550 N
		Longitude:	103° 26' 38.900 W
		Grid Convergence:	0.48 °

Well	North Ridge 8040 Fed Com #1H		
Well Position	+N/-S	0.0 usft	Northing: 493,874.59 usft
	+E/-W	0.0 usft	Easting: 815,915.80 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 21' 16.550 N
		Longitude:	103° 26' 38.900 W
		Ground Level:	3,410.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM2020	3/17/2020	6.57
			Dip Angle (°) 60.12
			Field Strength (nT) 47,928.50000000

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°) 186.54

Survey Program	Date	4/30/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
126.0	18,098.0	QES MWD Surveys (Wellbore #1)	MWD	OWSG MWD - Standard

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	493,874.59	815,915.80	32° 21' 16.550 N	103° 26' 38.900 W
126.0	0.29	79.15	126.0	0.1	0.3	493,874.65	815,916.11	32° 21' 16.551 N	103° 26' 38.896 W
First MWD Survey @ 126.0' MD / 126.0' TVD									
158.0	0.38	273.46	158.0	0.1	0.3	493,874.68	815,916.09	32° 21' 16.551 N	103° 26' 38.897 W
251.0	0.49	288.54	251.0	0.2	-0.4	493,874.82	815,915.40	32° 21' 16.552 N	103° 26' 38.905 W
312.0	0.54	262.56	312.0	0.3	-0.9	493,874.87	815,914.87	32° 21' 16.553 N	103° 26' 38.911 W
374.0	0.42	255.33	374.0	0.2	-1.4	493,874.77	815,914.36	32° 21' 16.552 N	103° 26' 38.917 W
434.0	0.40	255.26	434.0	0.1	-1.9	493,874.66	815,913.94	32° 21' 16.551 N	103° 26' 38.922 W
496.0	0.45	232.58	496.0	-0.1	-2.3	493,874.46	815,913.54	32° 21' 16.549 N	103° 26' 38.926 W
557.0	0.41	249.62	557.0	-0.4	-2.7	493,874.24	815,913.15	32° 21' 16.547 N	103° 26' 38.931 W
619.0	0.38	280.67	619.0	-0.4	-3.1	493,874.20	815,912.74	32° 21' 16.546 N	103° 26' 38.936 W
678.0	0.39	280.56	678.0	-0.3	-3.5	493,874.27	815,912.35	32° 21' 16.547 N	103° 26' 38.940 W



QES

Survey Report - Geographic



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well North Ridge 8040 Fed Com #1H
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Well:	North Ridge 8040 Fed Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
741.0	0.38	286.40	741.0	-0.2	-3.9	493,874.37	815,911.93	32° 21' 16.548 N	103° 26' 38.945 W
803.0	0.55	275.85	803.0	-0.1	-4.4	493,874.46	815,911.44	32° 21' 16.549 N	103° 26' 38.951 W
897.0	0.58	269.83	897.0	-0.1	-5.3	493,874.50	815,910.52	32° 21' 16.550 N	103° 26' 38.962 W
991.0	0.55	267.31	991.0	-0.1	-6.2	493,874.48	815,909.59	32° 21' 16.550 N	103° 26' 38.973 W
1,086.0	0.73	254.56	1,086.0	-0.3	-7.2	493,874.30	815,908.55	32° 21' 16.548 N	103° 26' 38.985 W
1,181.0	0.99	257.23	1,181.0	-0.6	-8.6	493,873.95	815,907.17	32° 21' 16.545 N	103° 26' 39.001 W
1,275.0	1.03	260.56	1,274.9	-1.0	-10.3	493,873.64	815,905.54	32° 21' 16.542 N	103° 26' 39.020 W
1,370.0	0.99	267.16	1,369.9	-1.1	-11.9	493,873.46	815,903.88	32° 21' 16.540 N	103° 26' 39.039 W
1,465.0	1.25	257.64	1,464.9	-1.4	-13.7	493,873.19	815,902.05	32° 21' 16.537 N	103° 26' 39.061 W
1,560.0	1.58	260.12	1,559.9	-1.8	-16.1	493,872.75	815,899.75	32° 21' 16.533 N	103° 26' 39.087 W
1,655.0	1.56	259.95	1,654.8	-2.3	-18.6	493,872.30	815,897.18	32° 21' 16.529 N	103° 26' 39.117 W
1,755.0	1.58	260.54	1,754.8	-2.8	-21.3	493,871.83	815,894.48	32° 21' 16.525 N	103° 26' 39.149 W
1,877.0	1.94	260.75	1,876.7	-3.4	-25.0	493,871.22	815,890.79	32° 21' 16.519 N	103° 26' 39.192 W
1,972.0	2.31	272.29	1,971.7	-3.6	-28.5	493,871.04	815,887.29	32° 21' 16.517 N	103° 26' 39.233 W
2,065.0	2.94	287.83	2,064.6	-2.7	-32.7	493,871.85	815,883.14	32° 21' 16.526 N	103° 26' 39.281 W
2,159.0	4.05	294.66	2,158.4	-0.6	-38.0	493,873.97	815,877.83	32° 21' 16.547 N	103° 26' 39.343 W
2,253.0	5.53	298.67	2,252.1	2.9	-45.0	493,877.53	815,870.84	32° 21' 16.583 N	103° 26' 39.424 W
2,348.0	7.80	296.75	2,346.4	8.0	-54.7	493,882.63	815,861.06	32° 21' 16.634 N	103° 26' 39.537 W
2,443.0	10.53	295.03	2,440.2	14.6	-68.4	493,889.20	815,847.44	32° 21' 16.700 N	103° 26' 39.696 W
2,538.0	13.29	296.84	2,533.2	23.2	-86.0	493,897.81	815,829.83	32° 21' 16.787 N	103° 26' 39.900 W
2,633.0	13.63	294.15	2,625.5	32.7	-105.9	493,907.32	815,809.87	32° 21' 16.883 N	103° 26' 40.132 W
2,729.0	12.30	289.42	2,719.1	40.8	-125.9	493,915.34	815,789.90	32° 21' 16.964 N	103° 26' 40.364 W
2,824.0	10.67	284.95	2,812.2	46.4	-143.9	493,920.98	815,771.86	32° 21' 17.021 N	103° 26' 40.573 W
2,919.0	8.79	281.08	2,905.8	50.0	-159.6	493,924.64	815,756.24	32° 21' 17.058 N	103° 26' 40.755 W
3,014.0	9.40	280.00	2,999.6	52.8	-174.3	493,927.38	815,741.48	32° 21' 17.087 N	103° 26' 40.927 W
3,109.0	8.61	282.96	3,093.5	55.7	-188.9	493,930.33	815,726.91	32° 21' 17.117 N	103° 26' 41.097 W
3,204.0	6.74	286.92	3,187.6	59.0	-201.2	493,933.54	815,714.64	32° 21' 17.150 N	103° 26' 41.239 W
3,299.0	6.50	287.66	3,282.0	62.2	-211.6	493,936.80	815,704.19	32° 21' 17.183 N	103° 26' 41.361 W
3,394.0	8.11	294.05	3,376.2	66.6	-222.9	493,941.16	815,692.94	32° 21' 17.227 N	103° 26' 41.492 W
3,489.0	7.35	289.07	3,470.3	71.3	-234.7	493,945.88	815,681.08	32° 21' 17.275 N	103° 26' 41.629 W
3,584.0	5.97	288.59	3,564.7	74.8	-245.1	493,949.44	815,670.65	32° 21' 17.311 N	103° 26' 41.751 W
3,678.0	5.60	287.57	3,658.2	77.8	-254.2	493,952.38	815,661.65	32° 21' 17.341 N	103° 26' 41.855 W
3,773.0	7.18	288.76	3,752.6	81.1	-264.2	493,955.69	815,651.61	32° 21' 17.374 N	103° 26' 41.972 W
3,867.0	6.28	287.18	3,846.0	84.5	-274.7	493,959.10	815,641.13	32° 21' 17.409 N	103° 26' 42.094 W
3,962.0	7.16	283.17	3,940.3	87.4	-285.4	493,961.98	815,630.40	32° 21' 17.438 N	103° 26' 42.219 W
4,057.0	9.15	280.69	4,034.4	90.1	-298.6	493,964.73	815,617.21	32° 21' 17.467 N	103° 26' 42.372 W
4,151.0	9.06	280.58	4,127.2	92.9	-313.2	493,967.48	815,602.59	32° 21' 17.495 N	103° 26' 42.542 W
4,246.0	7.03	280.66	4,221.2	95.3	-326.3	493,969.93	815,589.53	32° 21' 17.520 N	103° 26' 42.694 W
4,340.0	6.21	278.78	4,314.6	97.2	-336.9	493,971.77	815,578.85	32° 21' 17.539 N	103° 26' 42.819 W
4,434.0	6.59	280.72	4,408.0	99.0	-347.3	493,973.55	815,568.52	32° 21' 17.558 N	103° 26' 42.939 W
4,529.0	6.38	280.75	4,502.4	100.9	-357.8	493,975.54	815,557.98	32° 21' 17.578 N	103° 26' 43.061 W
4,623.0	7.62	283.08	4,595.7	103.3	-369.0	493,977.93	815,546.78	32° 21' 17.603 N	103° 26' 43.192 W
4,717.0	9.91	284.08	4,688.6	106.7	-382.9	493,981.31	815,532.86	32° 21' 17.637 N	103° 26' 43.354 W
4,812.0	8.65	281.59	4,782.4	110.1	-397.9	493,984.73	815,517.93	32° 21' 17.673 N	103° 26' 43.527 W
4,907.0	6.60	279.55	4,876.5	112.5	-410.2	493,987.07	815,505.55	32° 21' 17.697 N	103° 26' 43.672 W
5,002.0	7.11	279.25	4,970.8	114.3	-421.4	493,988.92	815,494.36	32° 21' 17.716 N	103° 26' 43.802 W
5,097.0	9.15	279.73	5,064.9	116.6	-434.7	493,991.15	815,481.12	32° 21' 17.739 N	103° 26' 43.956 W
5,192.0	8.41	283.94	5,158.8	119.5	-448.9	493,994.10	815,466.93	32° 21' 17.769 N	103° 26' 44.121 W
5,287.0	7.95	286.59	5,252.8	123.1	-461.9	493,997.64	815,453.89	32° 21' 17.806 N	103° 26' 44.273 W
5,382.0	9.11	285.29	5,346.7	126.9	-475.5	494,001.50	815,440.34	32° 21' 17.845 N	103° 26' 44.430 W
5,476.0	8.77	286.15	5,439.6	130.9	-489.5	494,005.46	815,426.28	32° 21' 17.885 N	103° 26' 44.594 W
5,604.0	10.71	286.29	5,565.8	136.9	-510.3	494,011.51	815,405.49	32° 21' 17.947 N	103° 26' 44.836 W
5,703.0	10.00	284.12	5,663.1	141.6	-527.5	494,016.19	815,388.32	32° 21' 17.994 N	103° 26' 45.035 W
5,798.0	8.83	287.74	5,756.9	145.8	-542.4	494,020.42	815,373.37	32° 21' 18.038 N	103° 26' 45.209 W
5,891.0	8.58	289.86	5,848.8	150.4	-555.7	494,024.95	815,360.05	32° 21' 18.084 N	103° 26' 45.364 W



QES

Survey Report - Geographic



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well North Ridge 8040 Fed Com #1H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3435.0usft (Patterson #597)
Site:	Sec 35, T22-S, R34-E	MD Reference:	WELL @ 3435.0usft (Patterson #597)
Well:	North Ridge 8040 Fed Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,986.0	8.33	288.90	5,942.8	155.0	-568.9	494,029.59	815,346.88	32° 21' 18.130 N	103° 26' 45.517 W
6,080.0	8.31	286.80	6,035.8	159.2	-581.9	494,033.76	815,333.93	32° 21' 18.173 N	103° 26' 45.668 W
6,083.1	8.31	286.80	6,038.8	159.3	-582.3	494,033.89	815,333.50	32° 21' 18.174 N	103° 26' 45.673 W
Cross 280' HL@ 6083.1' MD / 6038.8' TVD									
6,176.0	8.17	286.90	6,130.8	163.2	-595.0	494,037.75	815,320.76	32° 21' 18.213 N	103° 26' 45.821 W
6,270.0	8.10	286.30	6,223.8	167.0	-607.8	494,041.55	815,308.02	32° 21' 18.252 N	103° 26' 45.969 W
6,366.0	8.24	287.67	6,318.9	170.9	-620.8	494,045.53	815,294.97	32° 21' 18.292 N	103° 26' 46.121 W
6,460.0	8.16	286.87	6,411.9	174.9	-633.6	494,049.51	815,282.17	32° 21' 18.333 N	103° 26' 46.269 W
6,555.0	8.03	285.70	6,505.9	178.7	-646.5	494,053.27	815,269.33	32° 21' 18.371 N	103° 26' 46.419 W
6,650.0	7.64	284.03	6,600.1	182.0	-659.0	494,056.59	815,256.81	32° 21' 18.405 N	103° 26' 46.564 W
6,744.0	7.62	284.41	6,693.2	185.1	-671.1	494,059.66	815,244.72	32° 21' 18.436 N	103° 26' 46.705 W
6,839.0	7.57	283.33	6,787.4	188.1	-683.3	494,062.67	815,232.53	32° 21' 18.467 N	103° 26' 46.847 W
6,935.0	7.73	283.45	6,882.5	191.0	-695.7	494,065.63	815,220.09	32° 21' 18.497 N	103° 26' 46.992 W
7,023.1	7.82	283.23	6,969.8	193.8	-707.3	494,068.38	815,208.49	32° 21' 18.526 N	103° 26' 47.126 W
Cross 100' HL@ 7023.1' MD / 6969.8' TVD									
7,030.0	7.83	283.21	6,976.7	194.0	-708.2	494,068.59	815,207.58	32° 21' 18.528 N	103° 26' 47.137 W
7,125.0	7.86	283.26	7,070.8	197.0	-720.8	494,071.56	815,194.96	32° 21' 18.558 N	103° 26' 47.284 W
7,220.0	7.07	290.52	7,165.0	200.5	-732.6	494,075.10	815,183.16	32° 21' 18.594 N	103° 26' 47.421 W
7,314.0	6.95	290.94	7,258.3	204.6	-743.4	494,079.16	815,172.43	32° 21' 18.635 N	103° 26' 47.546 W
7,408.0	6.33	289.93	7,351.6	208.4	-753.6	494,082.96	815,162.25	32° 21' 18.674 N	103° 26' 47.664 W
7,503.0	5.99	290.27	7,446.1	211.9	-763.1	494,086.46	815,152.67	32° 21' 18.709 N	103° 26' 47.775 W
7,598.0	6.04	290.39	7,540.6	215.3	-772.5	494,089.92	815,143.34	32° 21' 18.744 N	103° 26' 47.884 W
7,693.0	5.67	289.64	7,635.1	218.6	-781.6	494,093.24	815,134.23	32° 21' 18.778 N	103° 26' 47.990 W
7,788.0	5.50	290.58	7,729.6	221.8	-790.2	494,096.42	815,125.55	32° 21' 18.810 N	103° 26' 48.091 W
7,882.0	5.02	290.53	7,823.2	224.9	-798.3	494,099.44	815,117.48	32° 21' 18.840 N	103° 26' 48.184 W
7,977.0	4.55	289.23	7,917.9	227.5	-805.8	494,102.14	815,110.03	32° 21' 18.868 N	103° 26' 48.271 W
8,071.0	5.92	285.55	8,011.5	230.1	-814.0	494,104.67	815,101.84	32° 21' 18.893 N	103° 26' 48.366 W
8,166.0	6.03	285.16	8,106.0	232.7	-823.5	494,107.29	815,092.30	32° 21' 18.920 N	103° 26' 48.477 W
8,260.0	6.89	288.18	8,199.4	235.7	-833.6	494,110.34	815,082.18	32° 21' 18.951 N	103° 26' 48.595 W
8,353.0	7.02	290.68	8,291.7	239.5	-844.2	494,114.09	815,071.57	32° 21' 18.989 N	103° 26' 48.718 W
8,447.0	6.40	291.97	8,385.1	243.5	-854.5	494,118.08	815,061.33	32° 21' 19.029 N	103° 26' 48.837 W
8,543.0	5.90	291.92	8,480.5	247.3	-864.0	494,121.92	815,051.79	32° 21' 19.068 N	103° 26' 48.948 W
8,637.0	5.27	292.16	8,574.1	250.8	-872.5	494,125.35	815,043.31	32° 21' 19.103 N	103° 26' 49.047 W
8,733.0	4.52	294.98	8,669.7	254.0	-880.0	494,128.61	815,035.80	32° 21' 19.136 N	103° 26' 49.134 W
8,828.0	4.12	300.41	8,764.4	257.3	-886.3	494,131.92	815,029.47	32° 21' 19.169 N	103° 26' 49.207 W
8,923.0	3.17	301.21	8,859.2	260.4	-891.5	494,135.01	815,024.28	32° 21' 19.200 N	103° 26' 49.268 W
9,018.0	2.26	307.59	8,954.1	262.9	-895.3	494,137.51	815,020.54	32° 21' 19.225 N	103° 26' 49.311 W
9,112.0	1.63	313.75	9,048.1	265.0	-897.7	494,139.57	815,018.11	32° 21' 19.246 N	103° 26' 49.339 W
9,207.0	1.93	308.51	9,143.0	266.9	-899.9	494,141.50	815,015.88	32° 21' 19.265 N	103° 26' 49.365 W
9,303.0	2.37	304.55	9,239.0	269.0	-902.8	494,143.63	815,012.98	32° 21' 19.286 N	103° 26' 49.398 W
9,398.0	1.80	275.26	9,333.9	270.3	-905.9	494,144.88	815,009.88	32° 21' 19.299 N	103° 26' 49.434 W
9,493.0	2.29	267.76	9,428.8	270.3	-909.3	494,144.94	815,006.50	32° 21' 19.300 N	103° 26' 49.474 W
9,588.0	2.41	270.27	9,523.8	270.3	-913.2	494,144.88	815,002.60	32° 21' 19.299 N	103° 26' 49.519 W
9,683.0	1.38	241.99	9,618.7	269.8	-916.2	494,144.35	814,999.60	32° 21' 19.294 N	103° 26' 49.554 W
9,778.0	1.11	240.59	9,713.7	268.8	-918.0	494,143.36	814,997.78	32° 21' 19.285 N	103° 26' 49.576 W
9,902.0	1.42	269.61	9,837.7	268.2	-920.6	494,142.76	814,995.20	32° 21' 19.279 N	103° 26' 49.606 W
9,986.0	4.32	195.45	9,921.6	265.1	-922.5	494,139.70	814,993.32	32° 21' 19.249 N	103° 26' 49.628 W
10,081.0	15.28	171.42	10,015.1	249.2	-921.6	494,123.82	814,994.23	32° 21' 19.092 N	103° 26' 49.619 W
10,176.0	24.93	172.78	10,104.2	216.9	-917.2	494,091.51	814,998.63	32° 21' 18.772 N	103° 26' 49.571 W
10,230.6	29.63	177.23	10,152.7	192.0	-915.1	494,066.59	815,000.73	32° 21' 18.525 N	103° 26' 49.549 W
Cross 100' HL@ 10230.6' MD / 10152.7' TVD									
10,270.0	33.09	179.71	10,186.3	171.5	-914.5	494,046.10	815,001.25	32° 21' 18.322 N	103° 26' 49.544 W
10,365.0	43.59	180.12	10,260.7	112.7	-914.5	493,987.26	815,001.32	32° 21' 17.740 N	103° 26' 49.549 W
10,460.0	55.94	178.19	10,322.0	40.3	-913.3	493,914.89	815,002.49	32° 21' 17.024 N	103° 26' 49.543 W
10,555.0	65.49	179.62	10,368.4	-42.5	-911.8	493,832.14	815,004.03	32° 21' 16.205 N	103° 26' 49.533 W



QES

Survey Report - Geographic



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well North Ridge 8040 Fed Com #1H
Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3435.0usft (Patterson #597)
Site:	Sec 35, T22-S, R34-E	MD Reference:	WELL @ 3435.0usft (Patterson #597)
Well:	North Ridge 8040 Fed Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,651.0	72.19	182.86	10,403.0	-131.9	-913.8	493,742.70	815,002.03	32° 21' 15.320 N	103° 26' 49.565 W
10,746.0	82.91	183.38	10,423.5	-224.4	-918.8	493,650.21	814,996.98	32° 21' 14.405 N	103° 26' 49.632 W
10,868.0	91.08	183.29	10,429.9	-345.9	-925.9	493,528.69	814,989.90	32° 21' 13.203 N	103° 26' 49.727 W
10,963.0	92.70	183.73	10,426.8	-440.7	-931.7	493,433.92	814,984.09	32° 21' 12.266 N	103° 26' 49.804 W
11,058.0	93.12	181.86	10,421.9	-535.4	-936.3	493,339.16	814,979.46	32° 21' 11.329 N	103° 26' 49.867 W
11,152.0	91.97	180.83	10,417.8	-629.3	-938.5	493,245.28	814,977.26	32° 21' 10.400 N	103° 26' 49.901 W
11,245.0	90.38	180.88	10,415.9	-722.3	-939.9	493,152.32	814,975.87	32° 21' 9.481 N	103° 26' 49.927 W
11,340.0	91.36	181.23	10,414.4	-817.3	-941.7	493,057.34	814,974.12	32° 21' 8.541 N	103° 26' 49.956 W
11,434.0	89.73	180.93	10,413.5	-911.2	-943.4	492,963.37	814,972.35	32° 21' 7.611 N	103° 26' 49.986 W
11,529.0	90.94	181.01	10,413.0	-1,006.2	-945.1	492,868.38	814,970.74	32° 21' 6.672 N	103° 26' 50.014 W
11,625.0	89.73	181.08	10,412.4	-1,102.2	-946.8	492,772.40	814,968.99	32° 21' 5.722 N	103° 26' 50.043 W
11,720.0	90.99	181.05	10,411.8	-1,197.2	-948.6	492,677.42	814,967.23	32° 21' 4.782 N	103° 26' 50.073 W
11,815.0	89.59	181.89	10,411.3	-1,292.1	-951.0	492,582.46	814,964.79	32° 21' 3.843 N	103° 26' 50.111 W
11,910.0	90.77	182.03	10,411.0	-1,387.1	-954.3	492,487.52	814,961.54	32° 21' 2.904 N	103° 26' 50.158 W
12,005.0	89.40	182.61	10,410.9	-1,482.0	-958.1	492,392.60	814,957.70	32° 21' 1.965 N	103° 26' 50.212 W
12,099.0	87.94	181.14	10,413.1	-1,575.9	-961.2	492,298.68	814,954.62	32° 21' 1.036 N	103° 26' 50.257 W
12,194.0	87.47	177.89	10,416.9	-1,670.8	-960.4	492,203.77	814,955.42	32° 21' 0.097 N	103° 26' 50.256 W
12,289.0	88.28	177.26	10,420.4	-1,765.7	-956.4	492,108.92	814,959.44	32° 20' 59.158 N	103° 26' 50.219 W
12,384.0	89.79	177.10	10,422.0	-1,860.5	-951.7	492,014.05	814,964.11	32° 20' 58.219 N	103° 26' 50.173 W
12,478.0	91.27	177.08	10,421.1	-1,954.4	-946.9	491,920.18	814,968.89	32° 20' 57.290 N	103° 26' 50.127 W
12,573.0	89.17	177.94	10,420.8	-2,049.3	-942.8	491,825.28	814,973.01	32° 20' 56.350 N	103° 26' 50.088 W
12,668.0	90.29	178.30	10,421.2	-2,144.3	-939.7	491,730.33	814,976.13	32° 20' 55.410 N	103° 26' 50.061 W
12,762.0	89.26	177.56	10,421.6	-2,238.2	-936.3	491,636.40	814,979.52	32° 20' 54.481 N	103° 26' 50.030 W
12,857.0	89.79	177.13	10,422.4	-2,333.1	-931.9	491,541.50	814,983.92	32° 20' 53.541 N	103° 26' 49.988 W
12,952.0	89.34	177.96	10,423.1	-2,428.0	-927.8	491,446.59	814,987.99	32° 20' 52.602 N	103° 26' 49.950 W
13,046.0	90.66	177.68	10,423.1	-2,521.9	-924.2	491,352.66	814,991.57	32° 20' 51.672 N	103° 26' 49.917 W
13,141.0	88.87	178.59	10,423.5	-2,616.9	-921.1	491,257.72	814,994.66	32° 20' 50.733 N	103° 26' 49.890 W
13,236.0	90.04	178.78	10,424.4	-2,711.8	-919.0	491,162.75	814,996.84	32° 20' 49.793 N	103° 26' 49.874 W
13,332.0	91.22	178.53	10,423.3	-2,807.8	-916.7	491,066.78	814,999.09	32° 20' 48.843 N	103° 26' 49.857 W
13,427.0	90.10	178.68	10,422.2	-2,902.8	-914.4	490,971.82	815,001.41	32° 20' 47.903 N	103° 26' 49.839 W
13,521.0	90.77	178.90	10,421.5	-2,996.7	-912.4	490,877.85	815,003.39	32° 20' 46.973 N	103° 26' 49.825 W
13,616.0	89.59	179.36	10,421.2	-3,091.7	-911.0	490,782.86	815,004.83	32° 20' 46.033 N	103° 26' 49.818 W
13,712.0	90.49	179.49	10,421.1	-3,187.7	-910.0	490,686.86	815,005.80	32° 20' 45.083 N	103° 26' 49.816 W
13,807.0	92.12	179.64	10,419.0	-3,282.7	-909.3	490,591.90	815,006.52	32° 20' 44.143 N	103° 26' 49.816 W
13,902.0	92.70	179.05	10,415.0	-3,377.6	-908.2	490,496.99	815,007.60	32° 20' 43.204 N	103° 26' 49.813 W
13,997.0	92.40	178.36	10,410.8	-3,472.5	-906.0	490,402.11	815,009.75	32° 20' 42.265 N	103° 26' 49.797 W
14,092.0	91.61	178.76	10,407.4	-3,567.4	-903.7	490,307.19	815,012.13	32° 20' 41.326 N	103° 26' 49.778 W
14,185.0	92.09	178.86	10,404.4	-3,660.3	-901.7	490,214.26	815,014.06	32° 20' 40.406 N	103° 26' 49.765 W
14,281.0	90.55	178.76	10,402.2	-3,756.3	-899.7	490,118.31	815,016.06	32° 20' 39.457 N	103° 26' 49.751 W
14,375.0	88.92	179.82	10,402.7	-3,850.3	-898.6	490,024.32	815,017.22	32° 20' 38.527 N	103° 26' 49.746 W
14,470.0	89.82	180.64	10,403.7	-3,945.3	-899.0	489,929.33	815,016.84	32° 20' 37.587 N	103° 26' 49.760 W
14,564.0	92.54	180.01	10,401.8	-4,039.2	-899.5	489,835.36	815,016.31	32° 20' 36.657 N	103° 26' 49.775 W
14,659.0	89.45	179.26	10,400.1	-4,134.2	-898.9	489,740.39	815,016.91	32° 20' 35.717 N	103° 26' 49.777 W
14,754.0	87.21	178.24	10,402.9	-4,229.1	-896.8	489,645.46	815,018.98	32° 20' 34.778 N	103° 26' 49.762 W
14,849.0	89.59	178.03	10,405.5	-4,324.0	-893.7	489,550.56	815,022.07	32° 20' 33.838 N	103° 26' 49.735 W
14,943.0	91.44	176.98	10,404.7	-4,417.9	-889.6	489,456.66	815,026.17	32° 20' 32.909 N	103° 26' 49.697 W
15,037.0	89.96	178.04	10,403.5	-4,511.8	-885.5	489,362.75	815,030.25	32° 20' 31.980 N	103° 26' 49.658 W
15,131.0	88.72	179.96	10,404.6	-4,605.8	-883.9	489,268.78	815,031.89	32° 20' 31.050 N	103° 26' 49.648 W
15,226.0	90.55	180.00	10,405.2	-4,700.8	-883.9	489,173.79	815,031.92	32° 20' 30.110 N	103° 26' 49.657 W
15,321.0	89.87	179.65	10,404.9	-4,795.8	-883.6	489,078.79	815,032.21	32° 20' 29.170 N	103° 26' 49.663 W
15,416.0	88.56	180.35	10,406.2	-4,890.8	-883.6	488,983.80	815,032.21	32° 20' 28.230 N	103° 26' 49.672 W
15,511.0	90.60	179.88	10,406.9	-4,985.8	-883.8	488,888.81	815,032.02	32° 20' 27.290 N	103° 26' 49.683 W
15,606.0	89.26	179.37	10,407.0	-5,080.8	-883.2	488,793.81	815,032.64	32° 20' 26.350 N	103° 26' 49.685 W
15,701.0	88.75	179.47	10,408.6	-5,175.8	-882.2	488,698.83	815,033.61	32° 20' 25.410 N	103° 26' 49.683 W
15,796.0	90.80	178.61	10,409.0	-5,270.7	-880.6	488,603.85	815,035.20	32° 20' 24.470 N	103° 26' 49.674 W



QES
Survey Report - Geographic



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Project:	Lea County, NM (NAD 83)	TVD Reference:	WELL @ 3435.0usft (Patterson #597)
Site:	Sec 35, T22-S, R34-E	MD Reference:	WELL @ 3435.0usft (Patterson #597)
Well:	North Ridge 8040 Fed Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,891.0	90.35	178.81	10,408.1	-5,365.7	-878.5	488,508.88	815,037.34	32° 20' 23.530 N	103° 26' 49.658 W
15,987.0	87.77	179.67	10,409.6	-5,461.7	-877.2	488,412.91	815,038.61	32° 20' 22.581 N	103° 26' 49.652 W
16,081.0	89.57	179.27	10,411.8	-5,555.6	-876.3	488,318.95	815,039.48	32° 20' 21.651 N	103° 26' 49.651 W
16,176.0	90.04	179.38	10,412.1	-5,650.6	-875.2	488,223.95	815,040.60	32° 20' 20.711 N	103° 26' 49.648 W
16,270.0	89.23	179.71	10,412.7	-5,744.6	-874.5	488,129.96	815,041.34	32° 20' 19.781 N	103° 26' 49.648 W
16,365.0	88.92	180.26	10,414.3	-5,839.6	-874.4	488,034.97	815,041.37	32° 20' 18.841 N	103° 26' 49.657 W
16,459.0	90.41	179.49	10,414.8	-5,933.6	-874.2	487,940.98	815,041.57	32° 20' 17.911 N	103° 26' 49.663 W
16,554.0	89.09	180.41	10,415.2	-6,028.6	-874.1	487,845.98	815,041.66	32° 20' 16.971 N	103° 26' 49.672 W
16,649.0	90.63	180.39	10,415.5	-6,123.6	-874.8	487,750.99	815,040.99	32° 20' 16.031 N	103° 26' 49.689 W
16,744.0	88.16	180.21	10,416.5	-6,218.6	-875.3	487,656.00	815,040.50	32° 20' 15.091 N	103° 26' 49.703 W
16,839.0	89.71	179.75	10,418.2	-6,313.6	-875.3	487,561.02	815,040.53	32° 20' 14.151 N	103° 26' 49.712 W
16,934.0	91.53	178.94	10,417.2	-6,408.6	-874.2	487,466.04	815,041.62	32° 20' 13.211 N	103° 26' 49.709 W
17,029.0	90.69	179.62	10,415.4	-6,503.5	-873.0	487,371.06	815,042.81	32° 20' 12.271 N	103° 26' 49.704 W
17,124.0	89.31	180.81	10,415.4	-6,598.5	-873.3	487,276.07	815,042.45	32° 20' 11.331 N	103° 26' 49.717 W
17,219.0	89.31	180.52	10,416.5	-6,693.5	-874.4	487,181.08	815,041.35	32° 20' 10.392 N	103° 26' 49.739 W
17,313.0	86.26	180.93	10,420.2	-6,787.4	-875.6	487,087.17	815,040.16	32° 20' 9.463 N	103° 26' 49.762 W
17,409.0	89.09	180.98	10,424.0	-6,883.3	-877.2	486,991.27	815,038.56	32° 20' 8.514 N	103° 26' 49.790 W
17,504.0	91.02	180.18	10,424.0	-6,978.3	-878.2	486,896.28	815,037.60	32° 20' 7.574 N	103° 26' 49.810 W
17,598.0	90.04	179.22	10,423.1	-7,072.3	-877.7	486,802.29	815,038.09	32° 20' 6.644 N	103° 26' 49.814 W
17,693.0	88.73	179.27	10,424.1	-7,167.3	-876.5	486,707.31	815,039.35	32° 20' 5.704 N	103° 26' 49.808 W
17,788.0	88.42	179.49	10,426.5	-7,262.3	-875.4	486,612.34	815,040.37	32° 20' 4.764 N	103° 26' 49.806 W
17,882.0	87.74	179.48	10,429.6	-7,356.2	-874.6	486,518.40	815,041.22	32° 20' 3.835 N	103° 26' 49.805 W
17,977.0	89.79	178.86	10,431.7	-7,451.2	-873.2	486,423.44	815,042.59	32° 20' 2.895 N	103° 26' 49.798 W
18,046.0	91.64	178.56	10,430.8	-7,520.1	-871.7	486,354.46	815,044.15	32° 20' 2.212 N	103° 26' 49.786 W
18,059.5	91.64	178.56	10,430.4	-7,533.6	-871.3	486,340.97	815,044.49	32° 20' 2.079 N	103° 26' 49.784 W
Cross 100' HL@ 18059.5' MD / 10430.4' TVD									
18,098.0	91.64	178.56	10,429.3	-7,572.1	-870.3	486,302.50	815,045.45	32° 20' 1.698 N	103° 26' 49.776 W
TD @ 18098.0' MD / 10429.3' TVD									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
126.0	126.0	0.1	0.3	First MWD Survey @ 126.0' MD / 126.0' TVD	
6,083.1	6,038.8	159.3	-582.3	Cross 280' HL@ 6083.1' MD / 6038.8' TVD	
7,023.1	6,969.8	193.8	-707.3	Cross 100' HL@ 7023.1' MD / 6969.8' TVD	
10,230.6	10,152.7	192.0	-915.1	Cross 100' HL@ 10230.6' MD / 10152.7' TVD	
18,059.5	10,430.4	-7,533.6	-871.3	Cross 100' HL@ 18059.5' MD / 10430.4' TVD	
18,098.0	10,429.3	-7,572.1	-870.3	TD @ 18098.0' MD / 10429.3' TVD	



QES

QES Directional Drilling
13000 W. Hwy 80 East
Odessa, TX 79765
Office: (432)-563-0200

North Ridge 8040 Fed Com #1 H

Scale 2":100' - MD

4/30/2020 3:02 AM

Oper. Company: BTA Oil

Well: North Ridge 8040 Fed Com #1 H

Rig: Patterson #597

Well ID: 30-025-46957

Job Number: WT-200510

State: NM

County: Lea

Country: USA

PBHL: 18029.00

Last Svy MD: 17977.00

Last Calc. Date: 4/30/2020

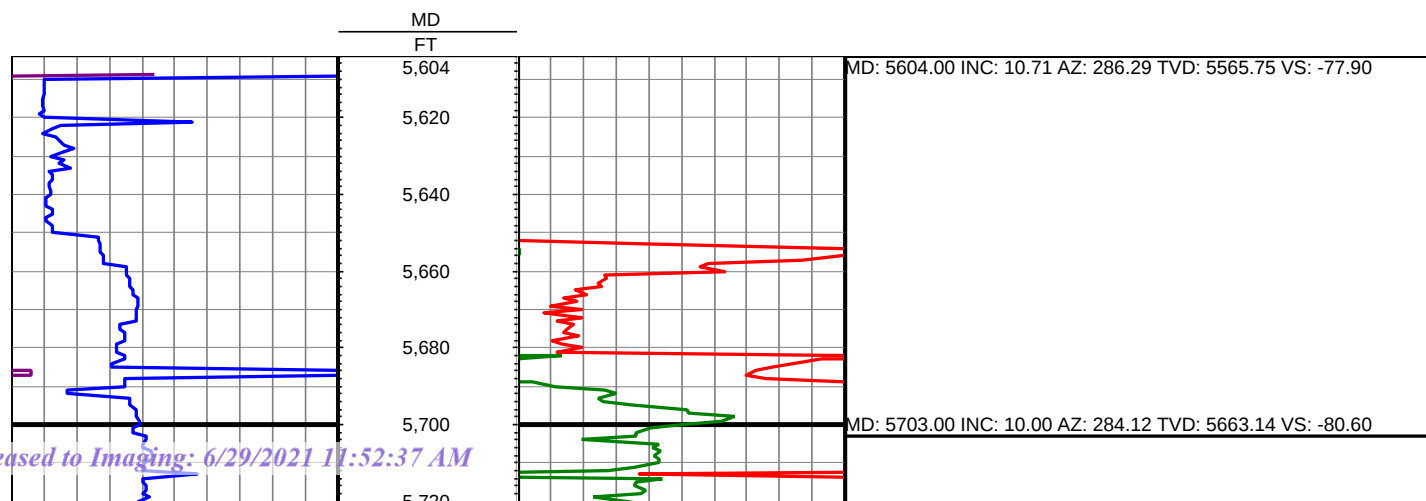
Calculation Method: Minimum Curvature

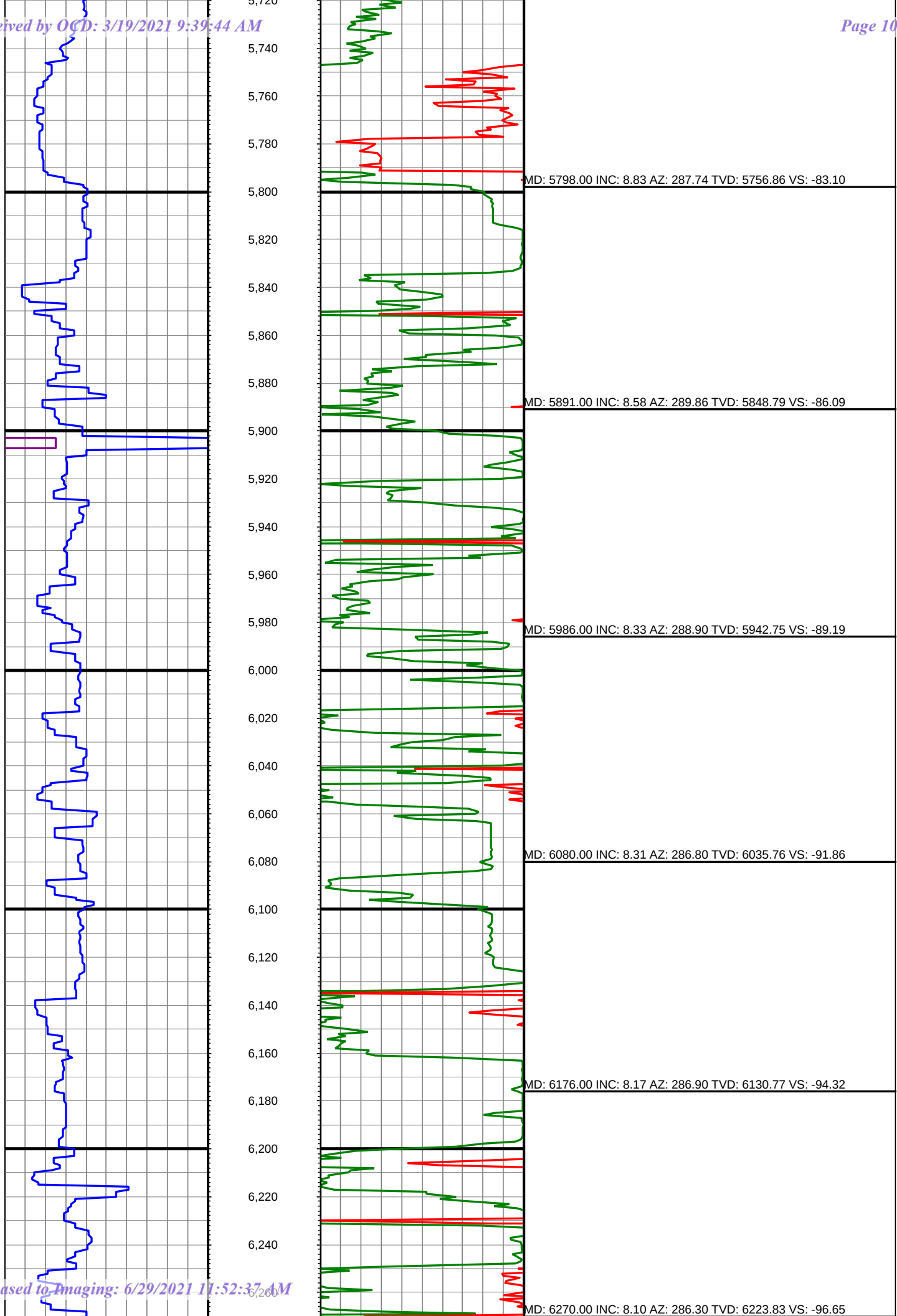
Day Hand: Dalton Christesson

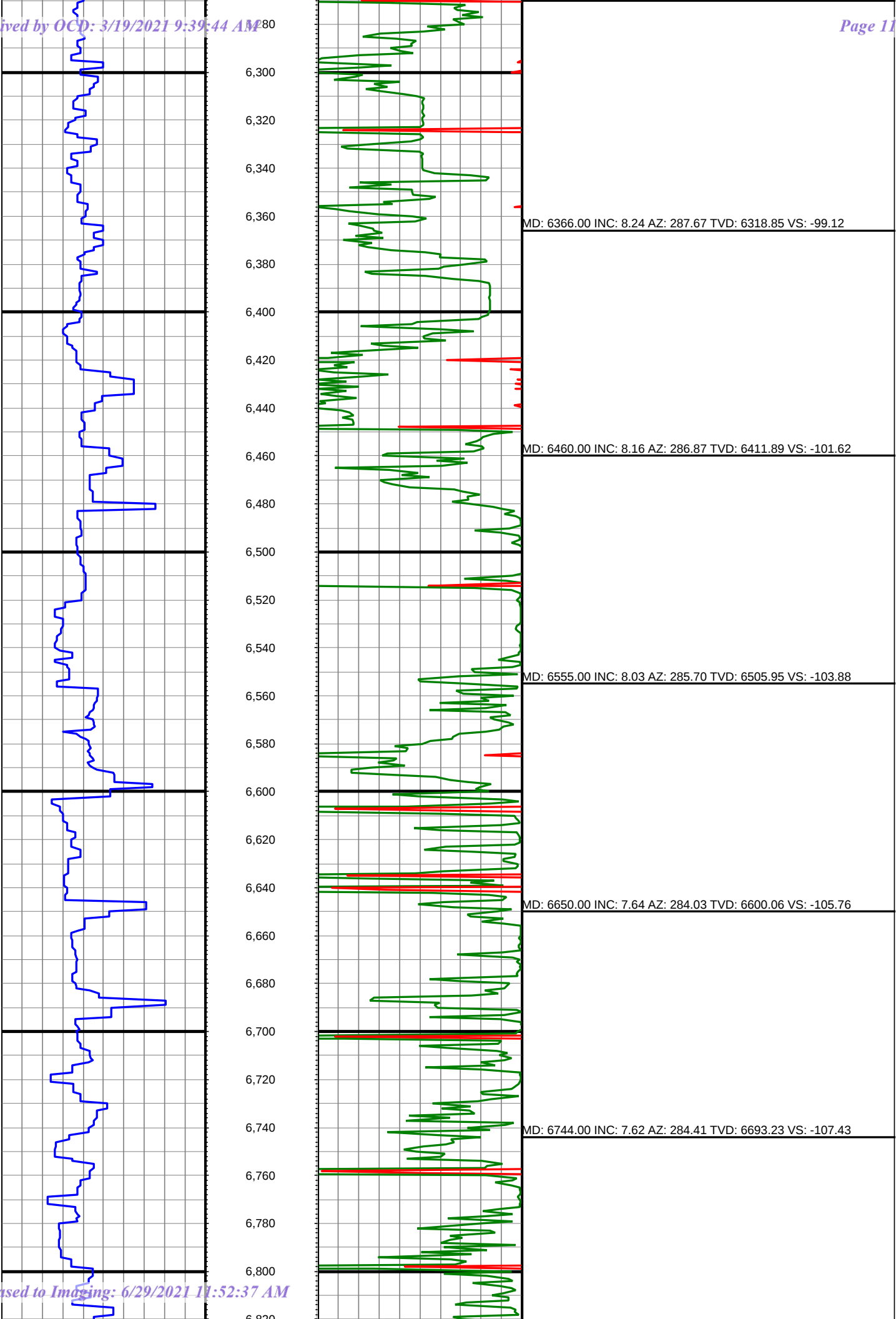
Night Hand: Edward Robles

Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	205 CBG	765 DETEQ	205 CBG	1120 CBG	
Bit Size	8 3/4	8 3/4	8 3/4	8 3/4	
Cal Factor	3.75	3.50	3.88	3.10	
Survey Offset	52.00	50.00	54.00	52.00	
Gamma Offset	43.00	40.00	44.00	43.00	
Resistivity Offset	0.00	0.00	0.00	0.00	
Start Depth	5652.00	9957.00	10796.00	13736.00	
StartDate	4/19/2020	4/23/2020	4/24/2020	4/26/2020	
StartTime	05:30	05:00	06:00	18:00	
EndDepth	9957.00	10796.00	13736.00	18098.00	
EndDate	4/23/2020	4/24/2020	4/26/2020	4/30/2020	
EndTime	04:00	05:30	17:00	03:00	
Mud Type	WBM	WBM	WBM	WBM	
Mud Weight	9-9.5	9-9.5	9-9.5	9-9.5	
Funnel Viscosity	25-30	25-30	25-30	25-30	
Hole Data			Casing Data		
Size	From	To	Size	From	To
17 1/2	0.00	1812.00			
12 1/4	1812.00	5652.00			
8 3/4	5652.00	18098.00			

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost damages or expenses incurred or sustained by anyone resulting from an interpretation made by any of our officers, agents, or employees.







MD: 6839.00 INC: 7.57 AZ: 283.33 TVD: 6787.39 VS: -109.03

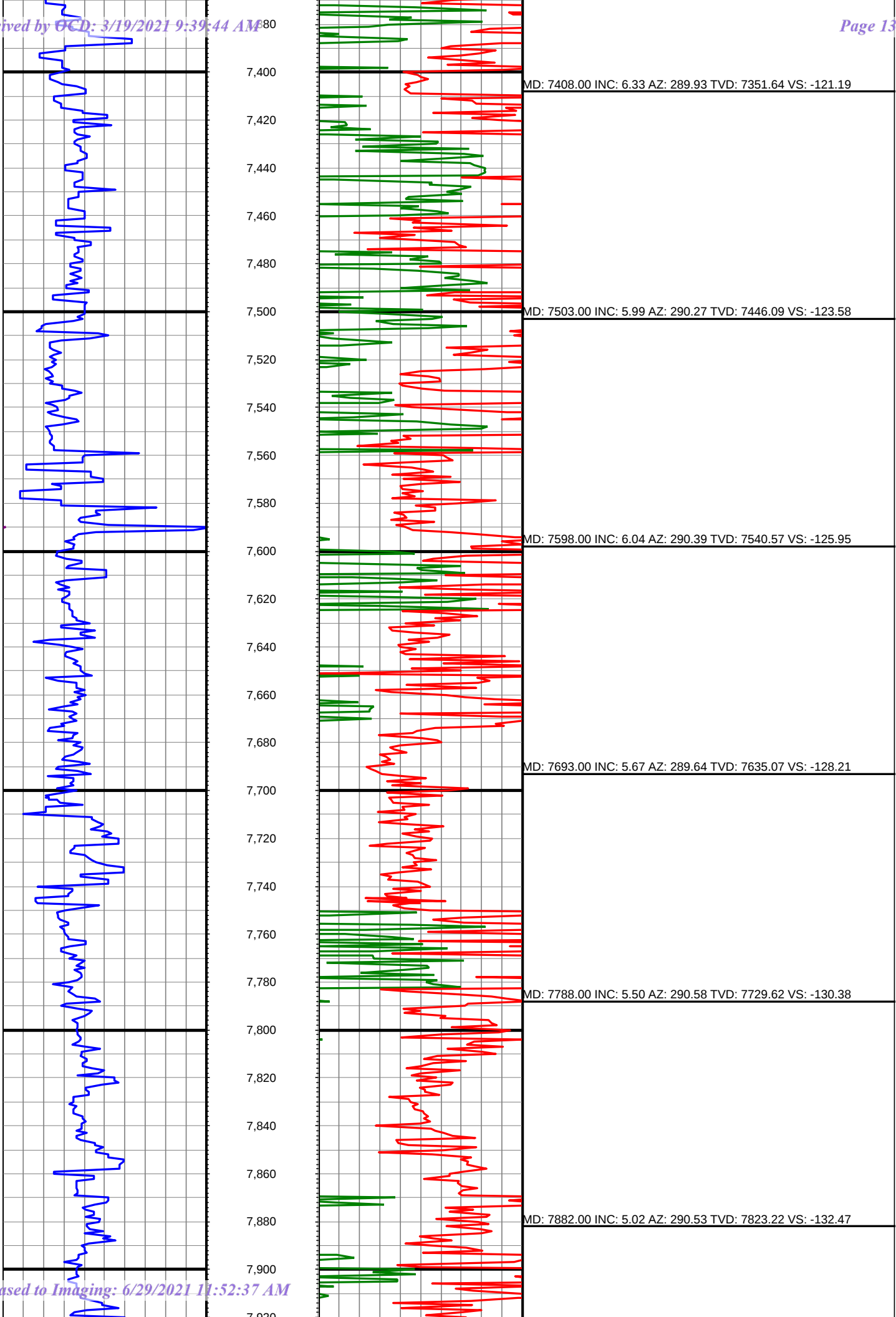
MD: 6935.00 INC: 7.73 AZ: 283.45 TVD: 6882.54 VS: -110.56

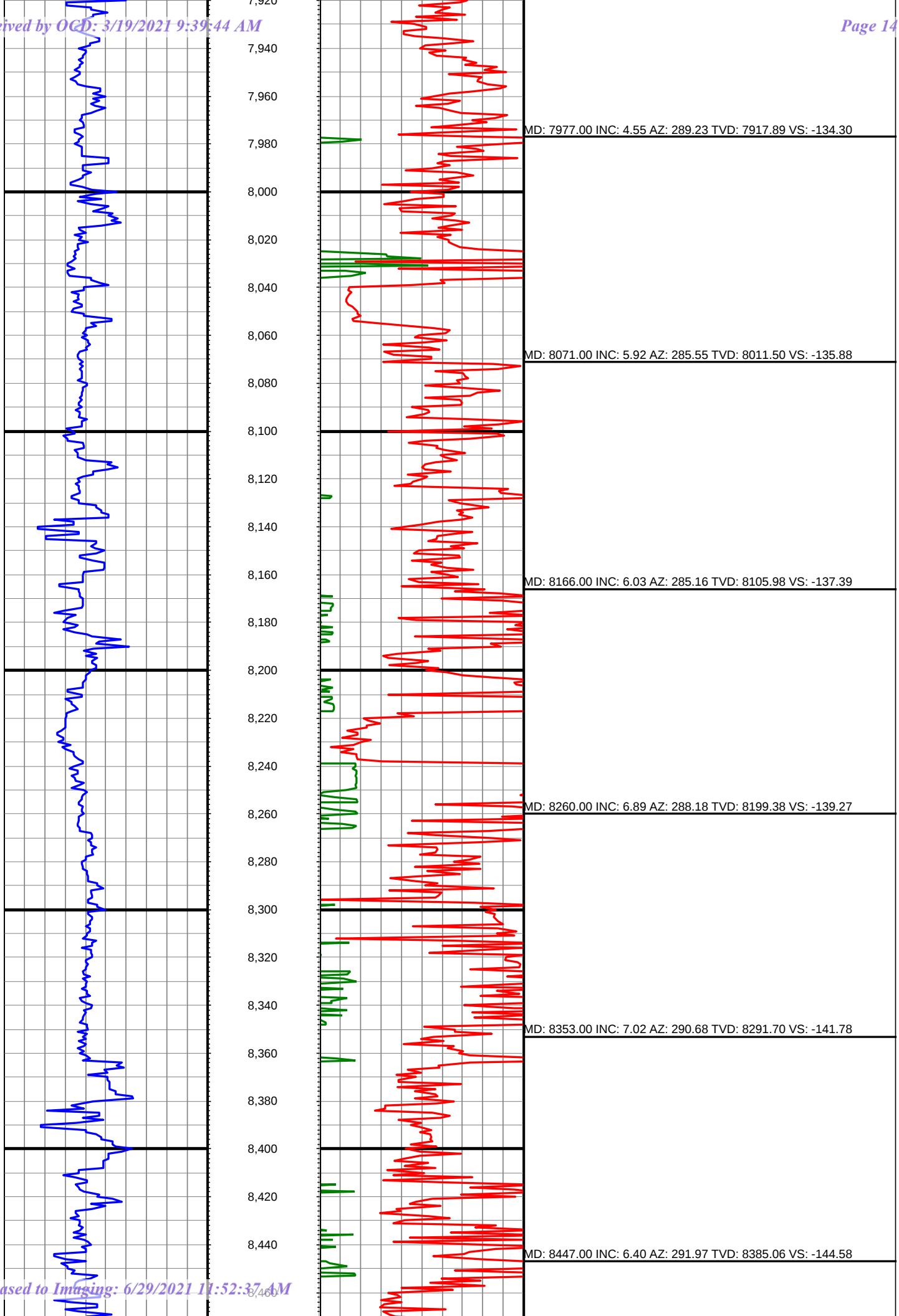
MD: 7030.00 INC: 7.83 AZ: 283.21 TVD: 6976.66 VS: -112.08

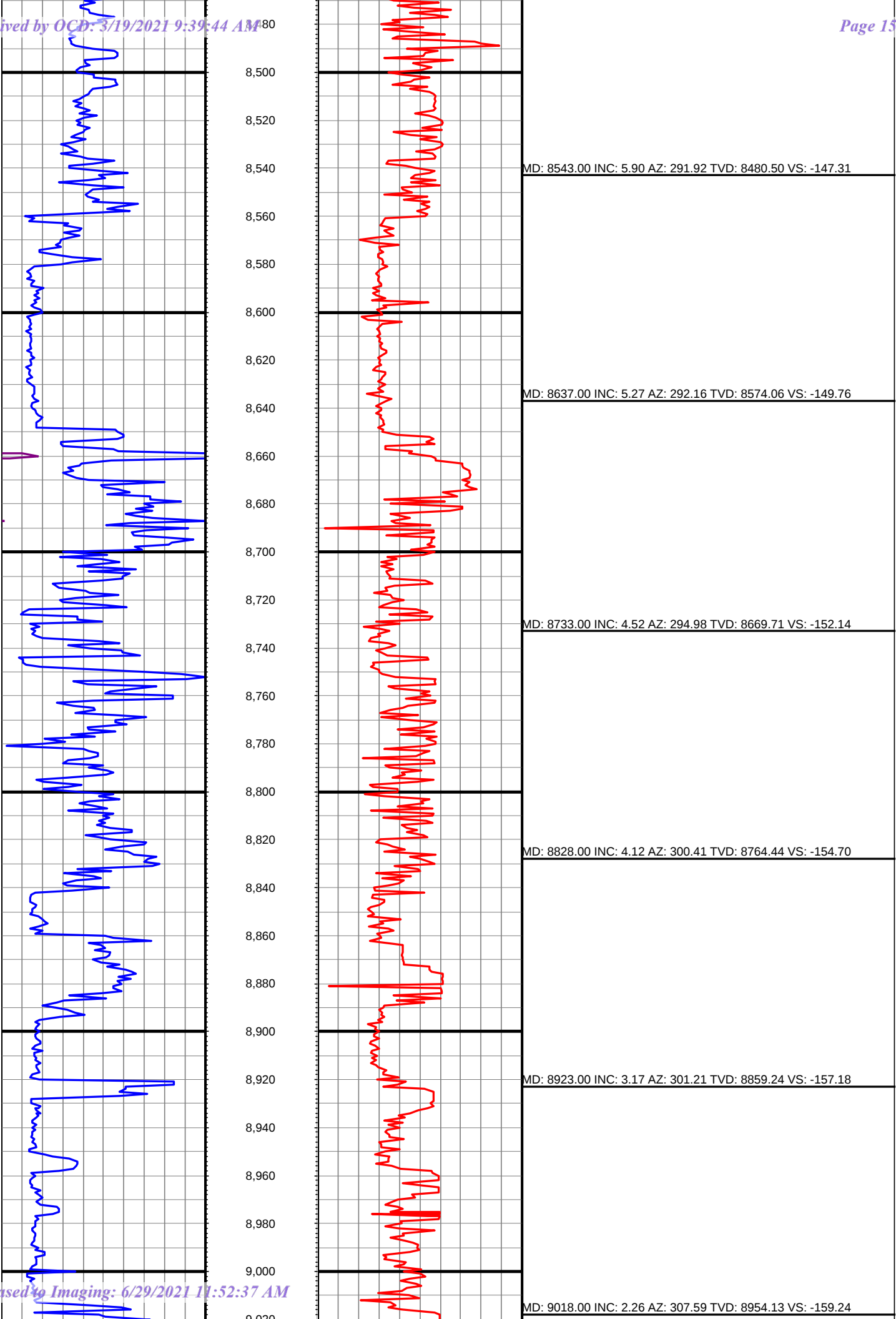
MD: 7125.00 INC: 7.86 AZ: 283.26 TVD: 7070.77 VS: -113.59

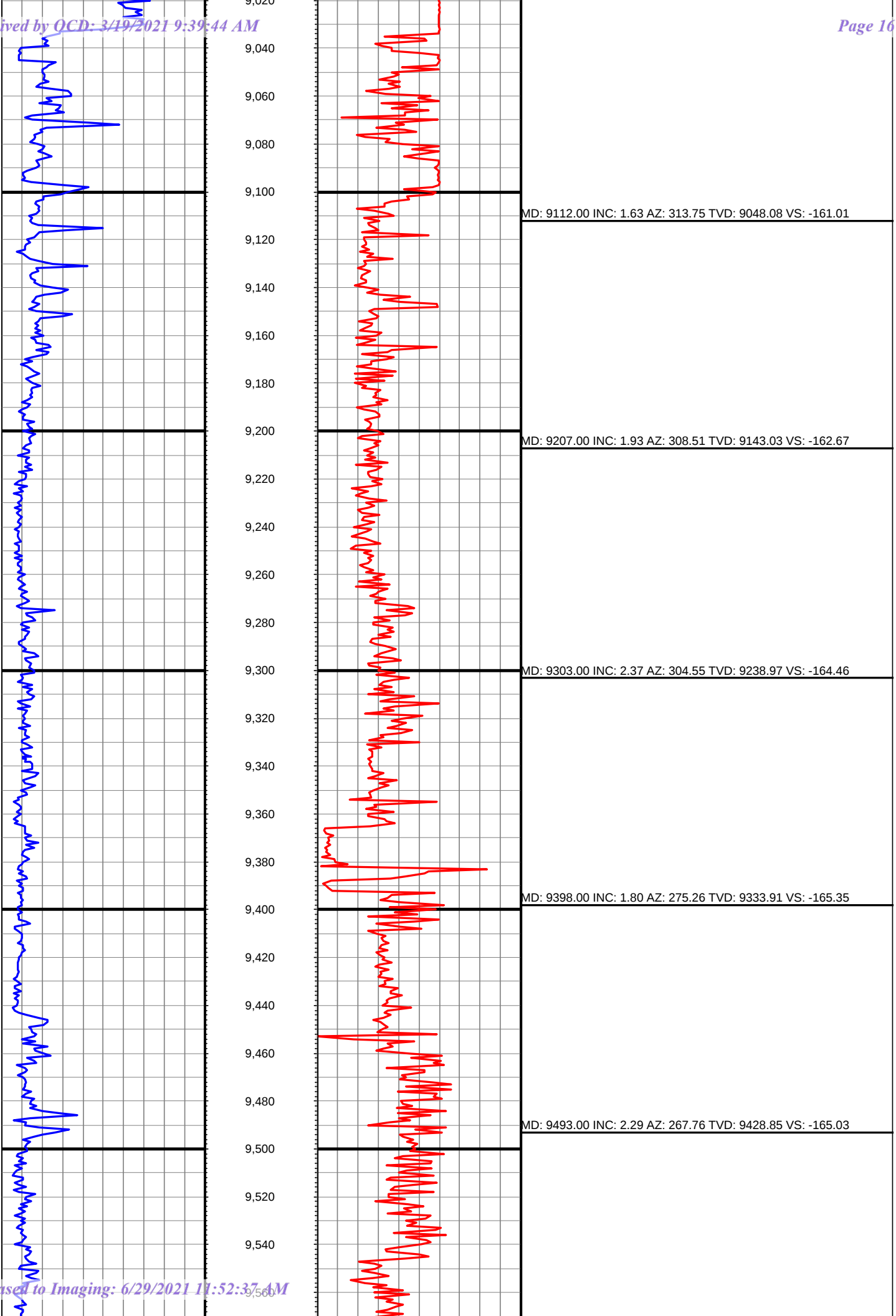
MD: 7220.00 INC: 7.07 AZ: 290.52 TVD: 7164.97 VS: -115.76

MD: 7314.00 INC: 6.95 AZ: 290.94 TVD: 7258.27 VS: -118.57









MD: 9588.00 INC: 2.41 AZ: 270.27 TVD: 9523.77 VS: -164.52

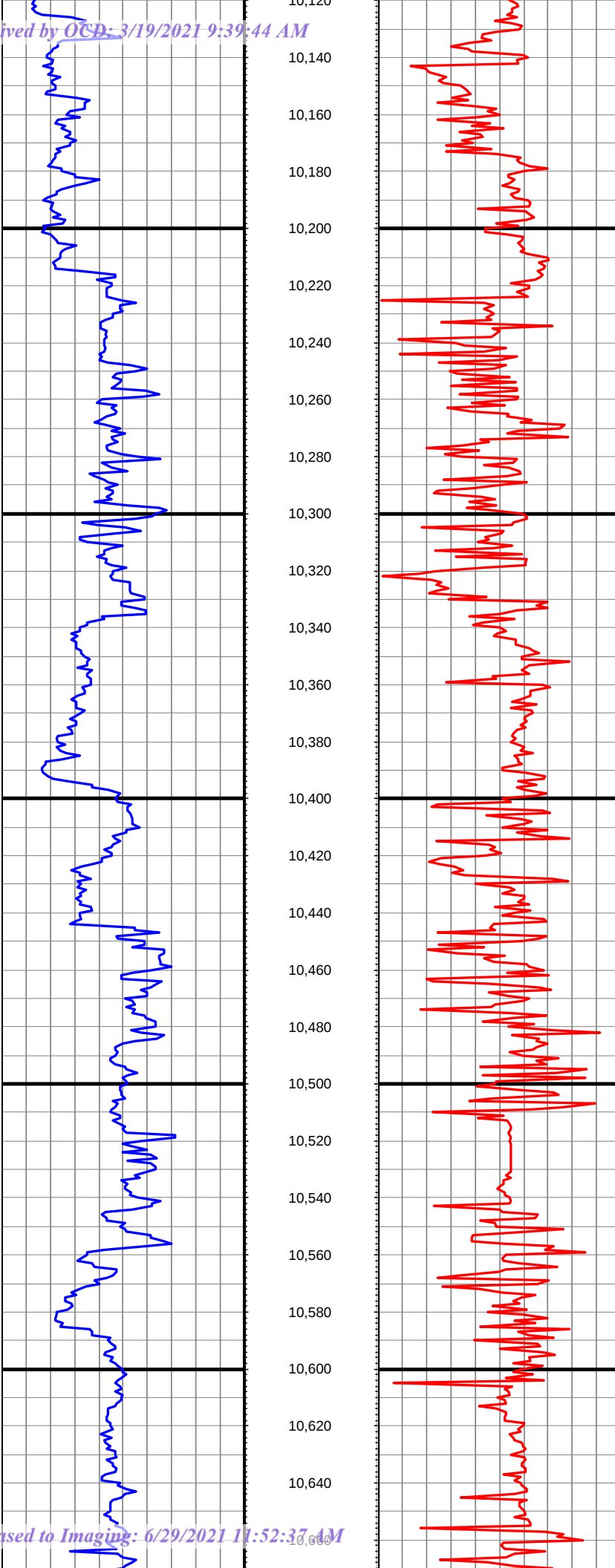
MD: 9683.00 INC: 1.38 AZ: 241.99 TVD: 9618.71 VS: -163.65

MD: 9778.00 INC: 1.11 AZ: 240.59 TVD: 9713.69 VS: -162.46

MD: 9902.00 INC: 1.42 AZ: 269.61 TVD: 9837.66 VS: -161.57

MD: 9986.00 INC: 4.32 AZ: 195.45 TVD: 9921.57 VS: -158.32

MD: 10081.00 INC: 15.28 AZ: 171.42 TVD: 10015.07 VS: -142.65



MD: 10176.00 INC: 24.93 AZ: 172.78 TVD: 10104.17 VS: -111.04

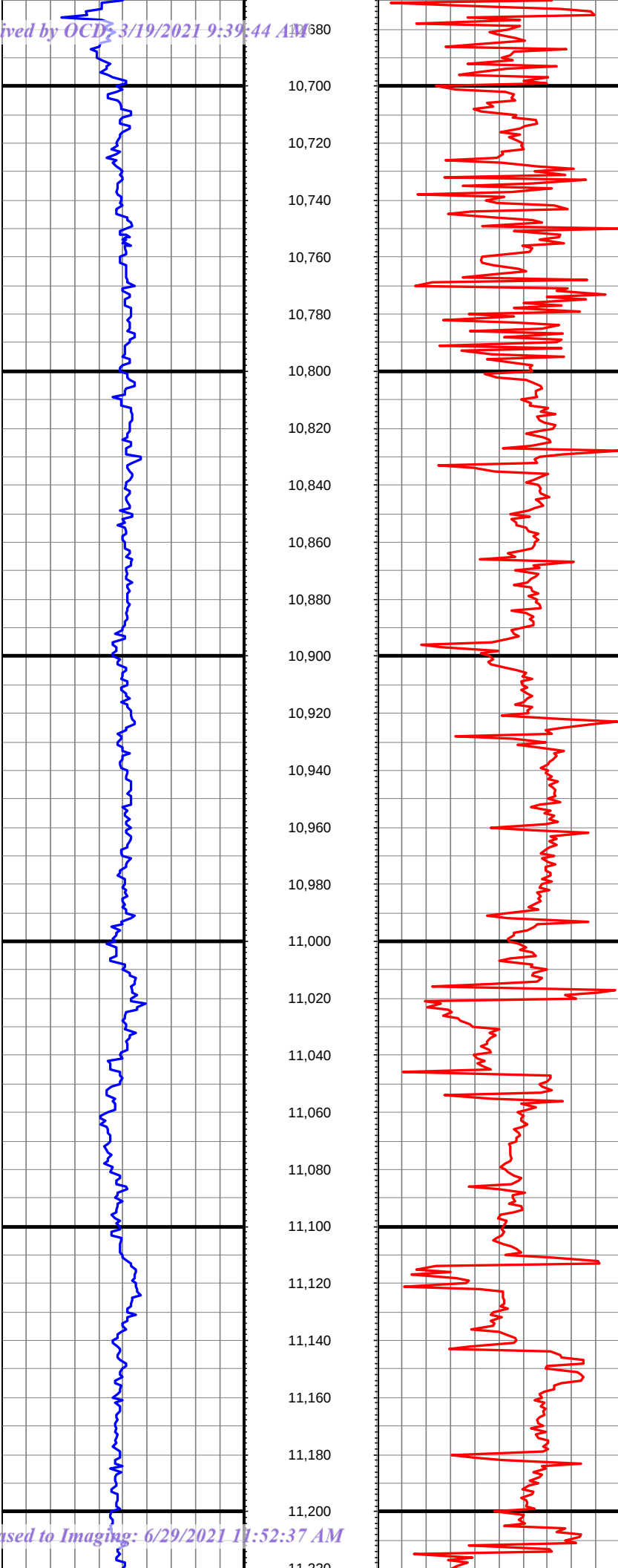
MD: 10270.00 INC: 33.09 AZ: 179.71 TVD: 10186.33 VS: -66.23

MD: 10365.00 INC: 43.59 AZ: 180.12 TVD: 10260.74 VS: -7.77

MD: 10460.00 INC: 55.94 AZ: 178.19 TVD: 10321.99 VS: 63.99

MD: 10555.00 INC: 65.49 AZ: 179.62 TVD: 10368.41 VS: 146.02

MD: 10651.00 INC: 72.19 AZ: 182.86 TVD: 10403.05 VS: 235.10



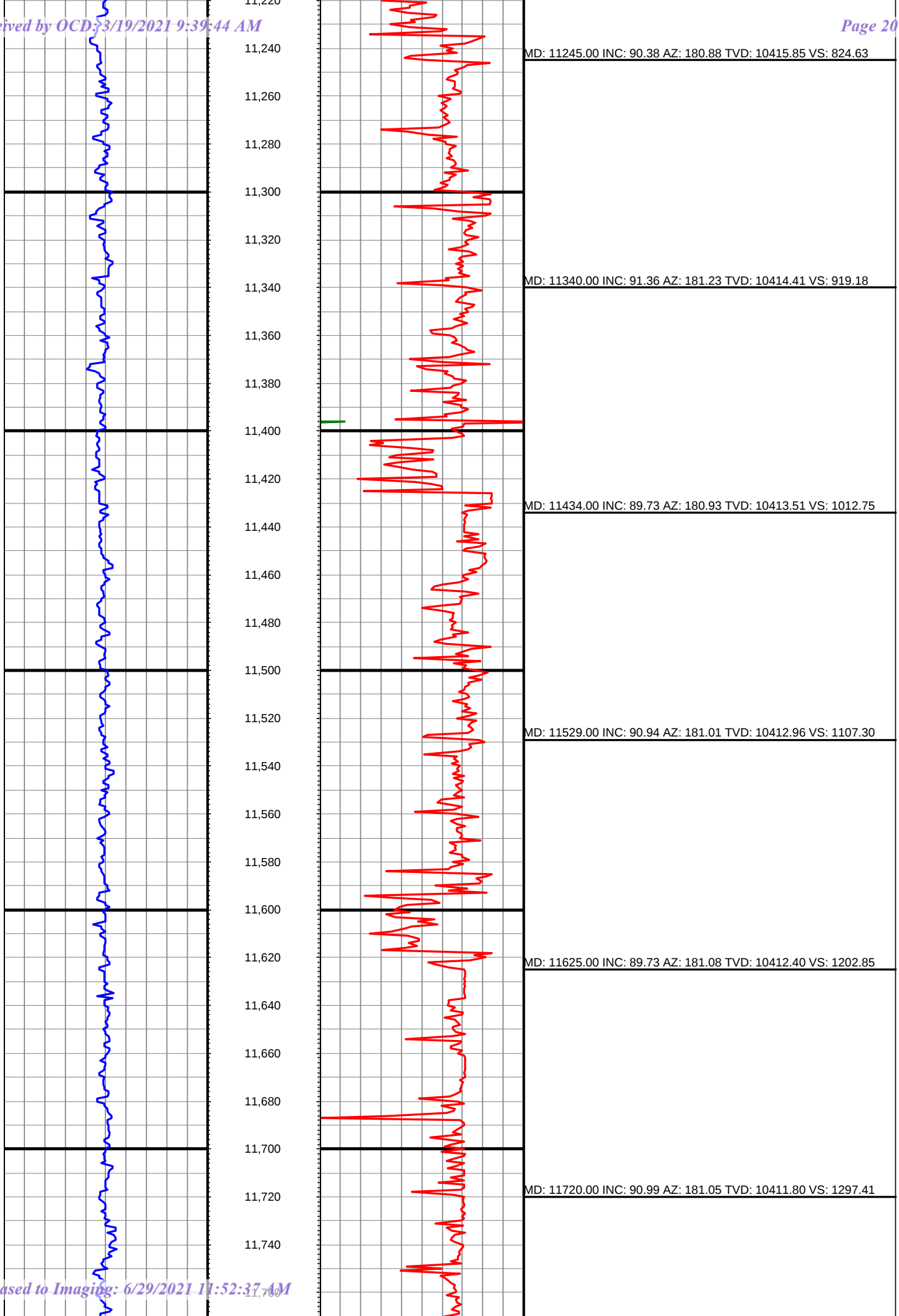
MD: 10746.00 INC: 82.91 AZ: 183.38 TVD: 10423.50 VS: 327.57

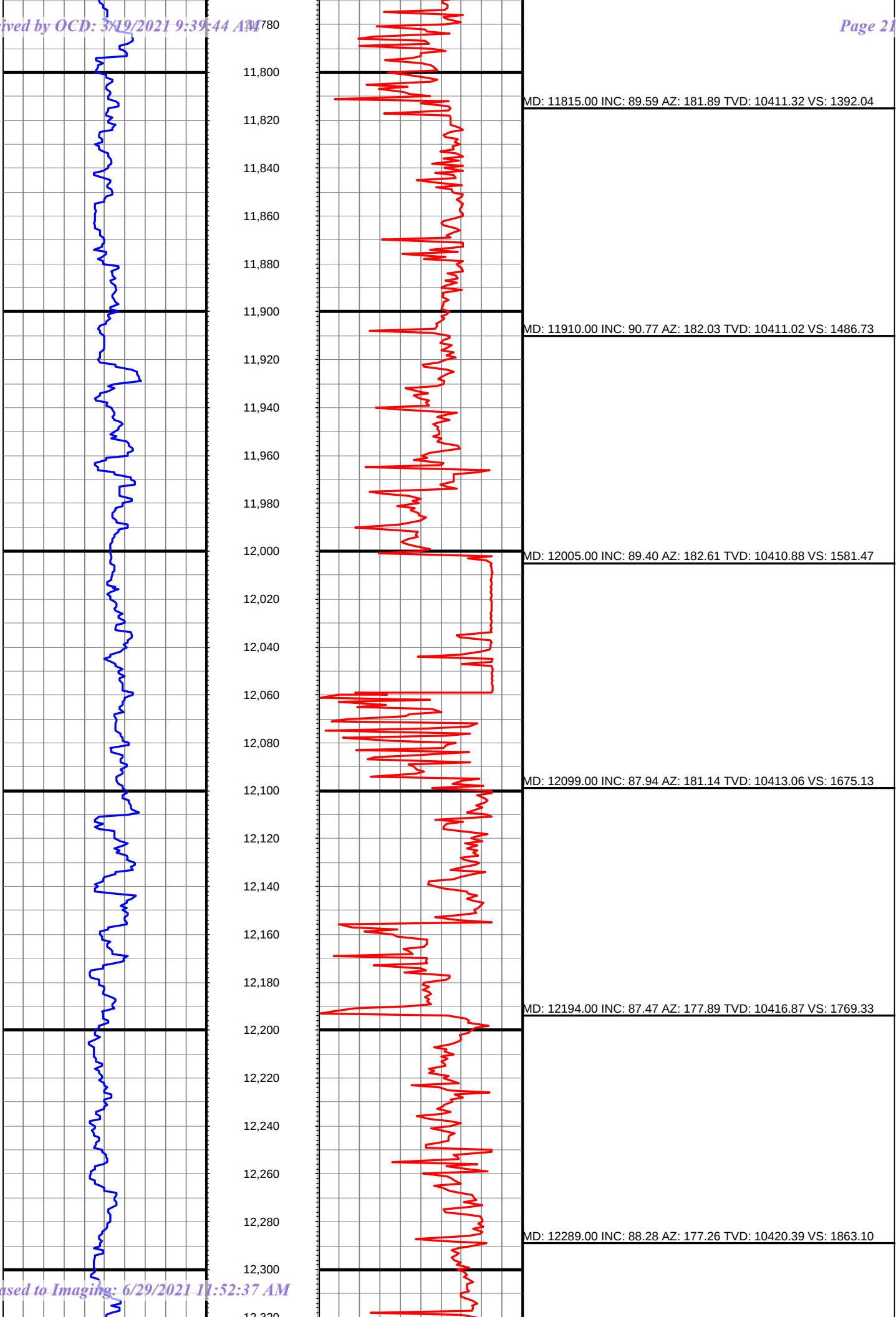
MD: 10868.00 INC: 91.08 AZ: 183.29 TVD: 10429.89 VS: 449.11

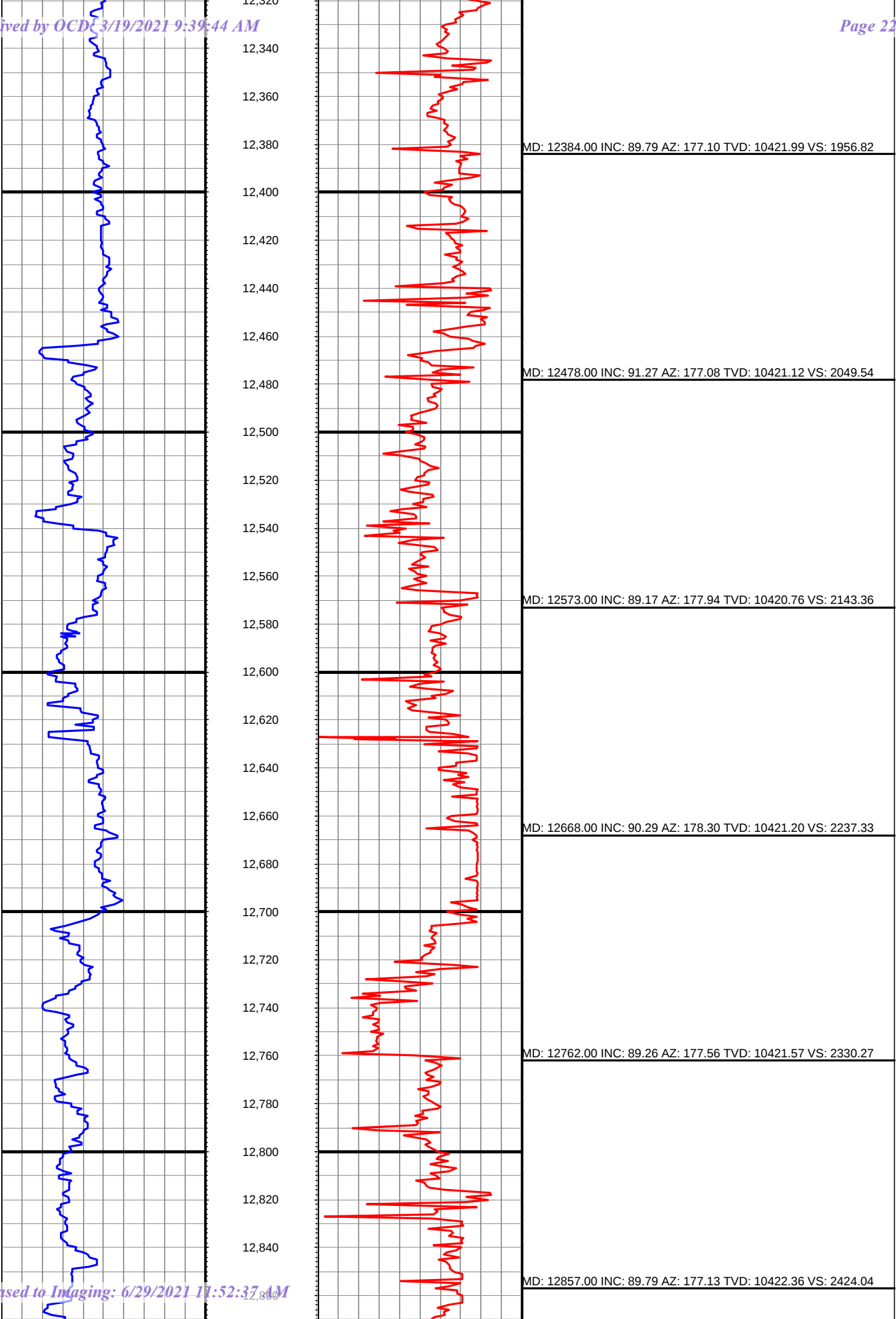
MD: 10963.00 INC: 92.70 AZ: 183.73 TVD: 10426.76 VS: 543.92

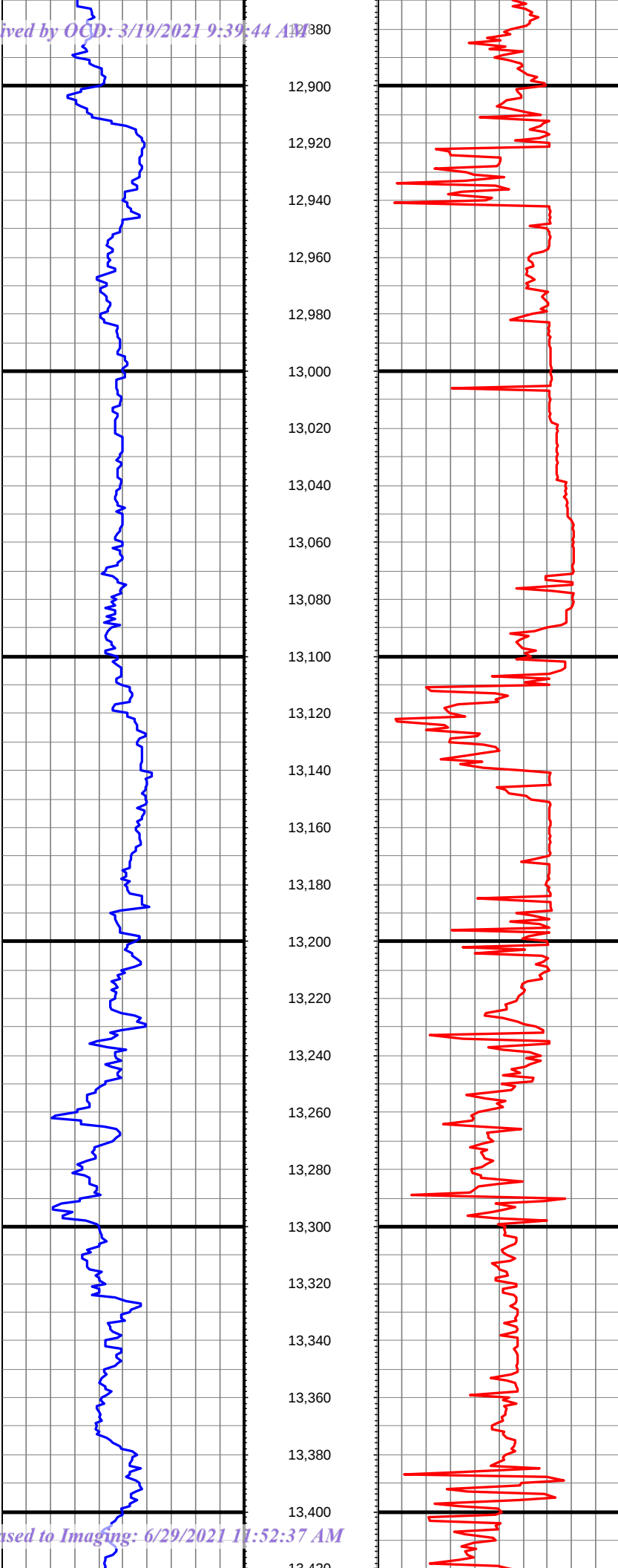
MD: 11058.00 INC: 93.12 AZ: 181.86 TVD: 10421.93 VS: 638.59

MD: 11152.00 INC: 91.97 AZ: 180.83 TVD: 10417.76 VS: 732.11









MD: 12952.00 INC: 89.34 AZ: 177.96 TVD: 10423.08 VS: 2517.87

MD: 13046.00 INC: 90.66 AZ: 177.68 TVD: 10423.08 VS: 2610.78

MD: 13141.00 INC: 88.87 AZ: 178.59 TVD: 10423.47 VS: 2704.76

MD: 13236.00 INC: 90.04 AZ: 178.78 TVD: 10424.37 VS: 2798.86

MD: 13332.00 INC: 91.22 AZ: 178.53 TVD: 10423.32 VS: 2893.94

MD: 13427.00 INC: 90.10 AZ: 178.68 TVD: 10422.22 VS: 2988.03

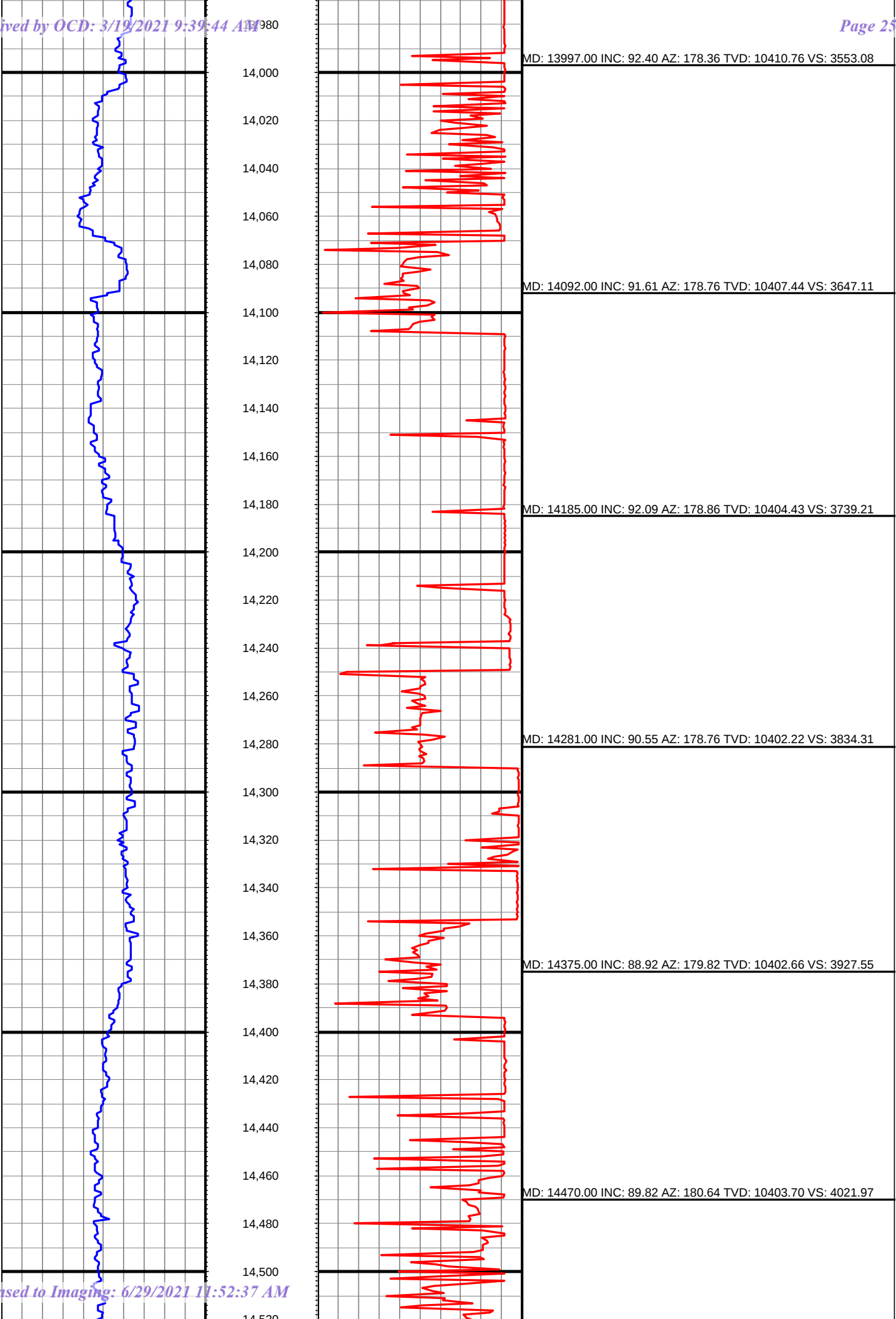
MD: 13521.00 INC: 90.77 AZ: 178.90 TVD: 10421.51 VS: 3081.16

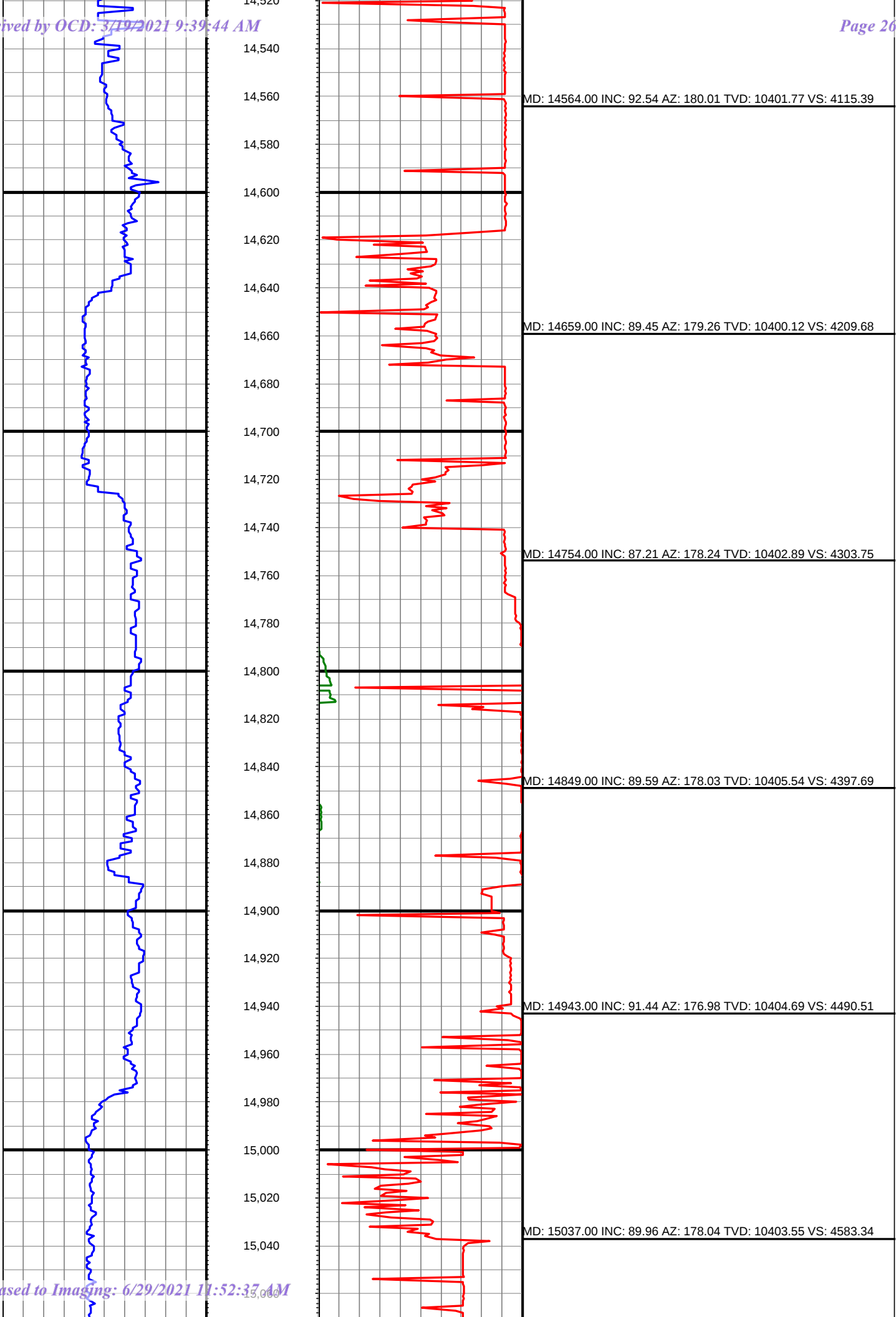
MD: 13616.00 INC: 89.59 AZ: 179.36 TVD: 10421.21 VS: 3175.37

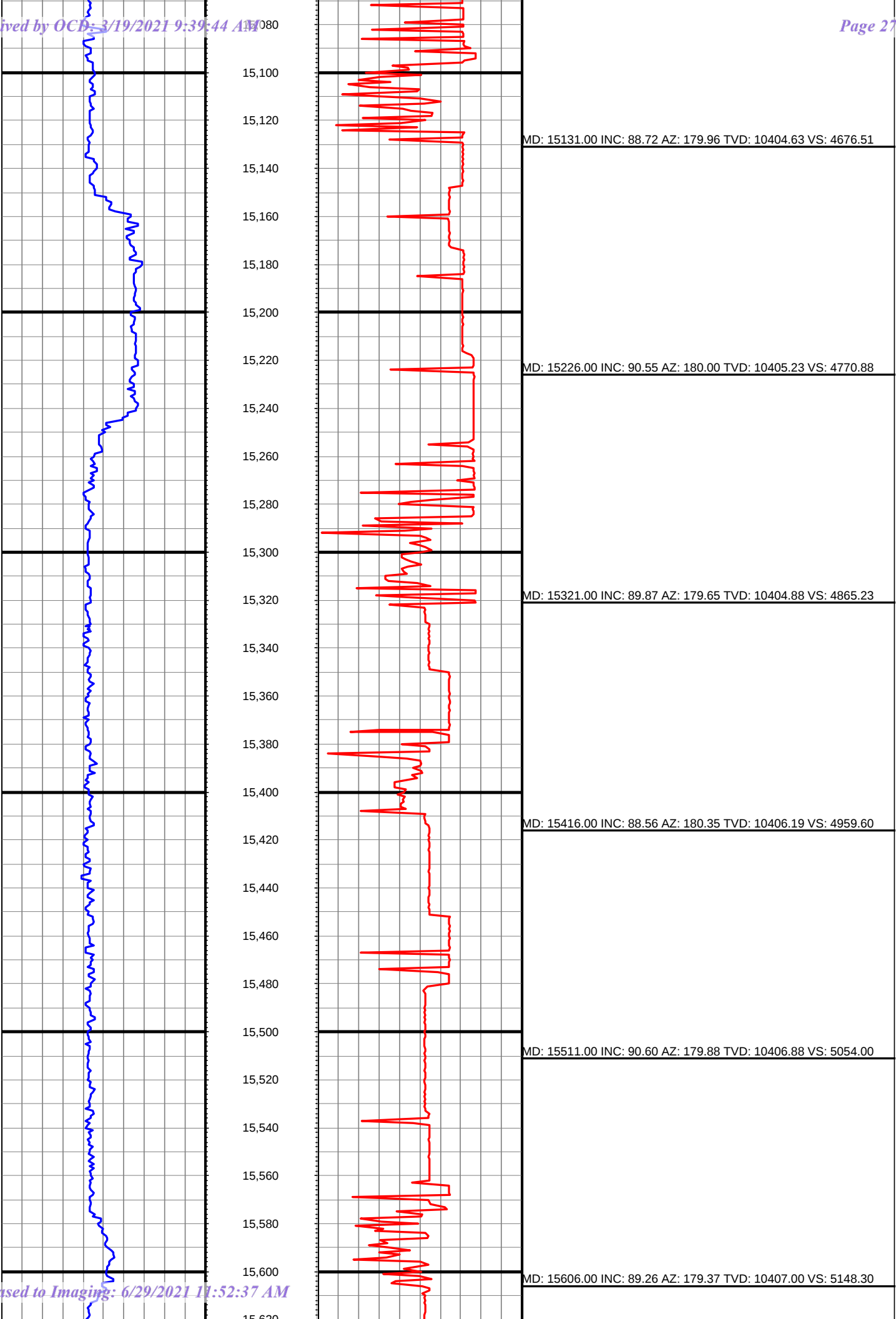
MD: 13712.00 INC: 90.49 AZ: 179.49 TVD: 10421.15 VS: 3270.63

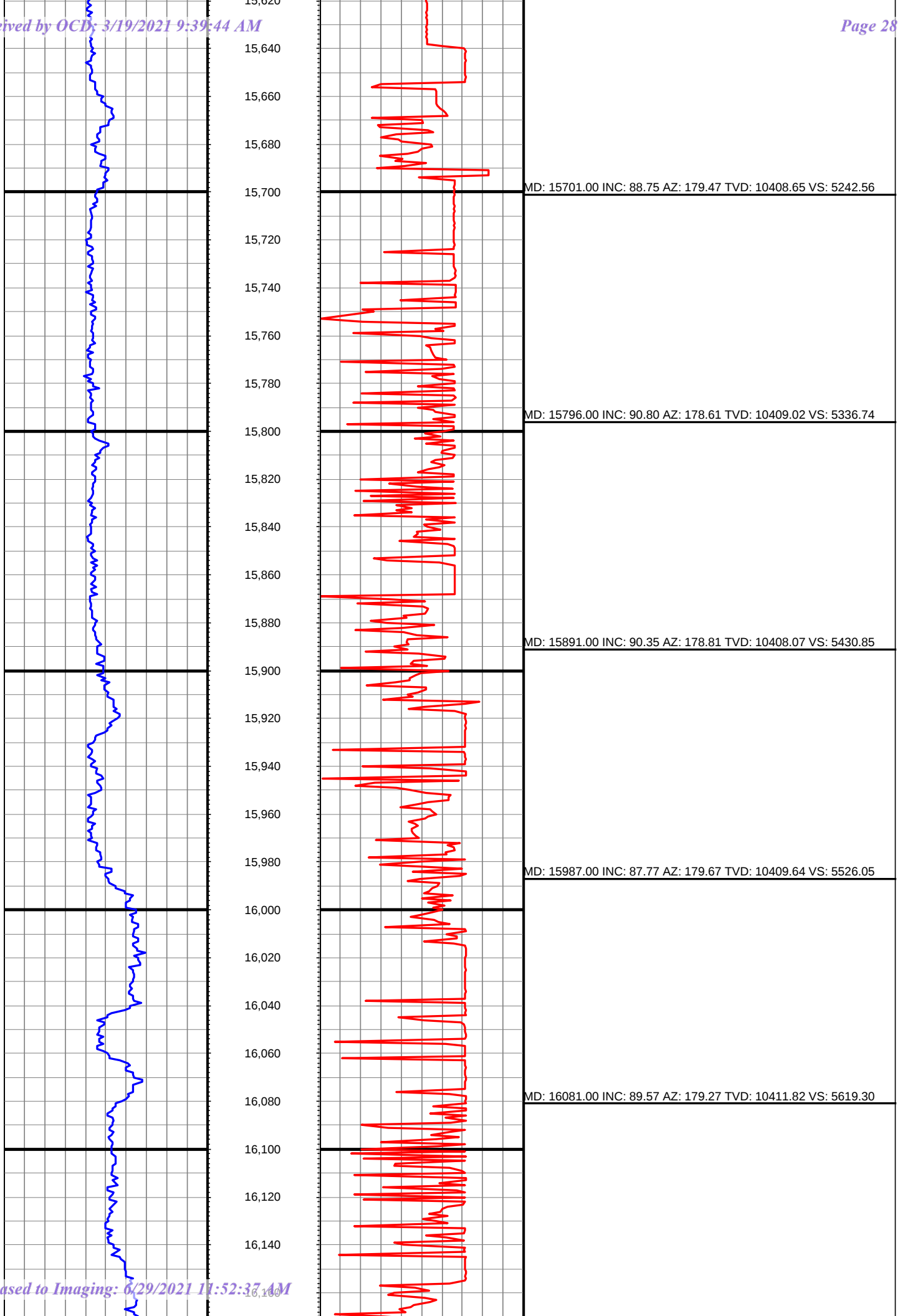
MD: 13807.00 INC: 92.12 AZ: 179.64 TVD: 10418.98 VS: 3364.90

MD: 13902.00 INC: 92.70 AZ: 179.05 TVD: 10414.99 VS: 3459.07









MD: 16176.00 INC: 90.04 AZ: 179.38 TVD: 10412.15 VS: 5713.55

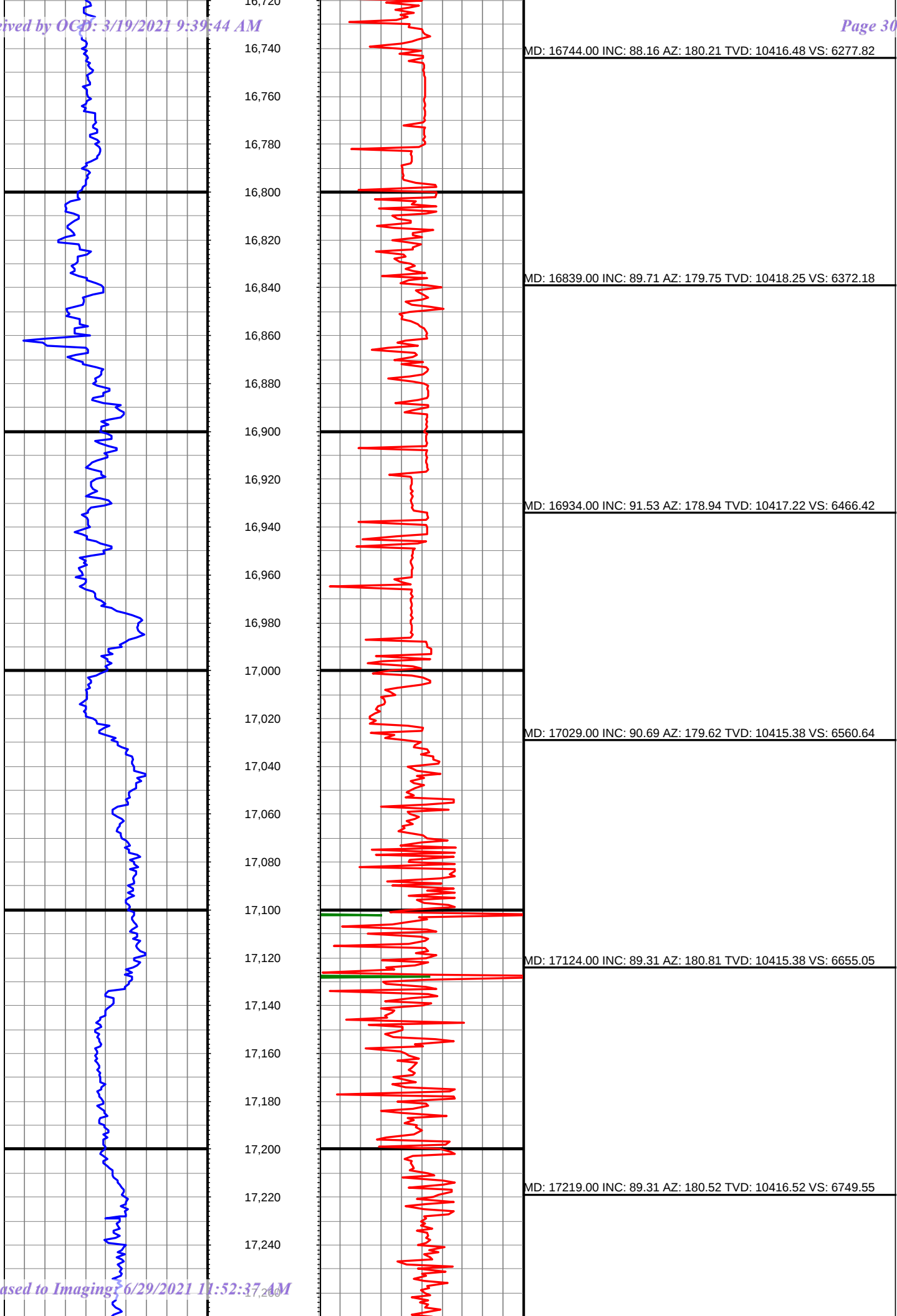
MD: 16270.00 INC: 89.23 AZ: 179.71 TVD: 10412.75 VS: 5806.85

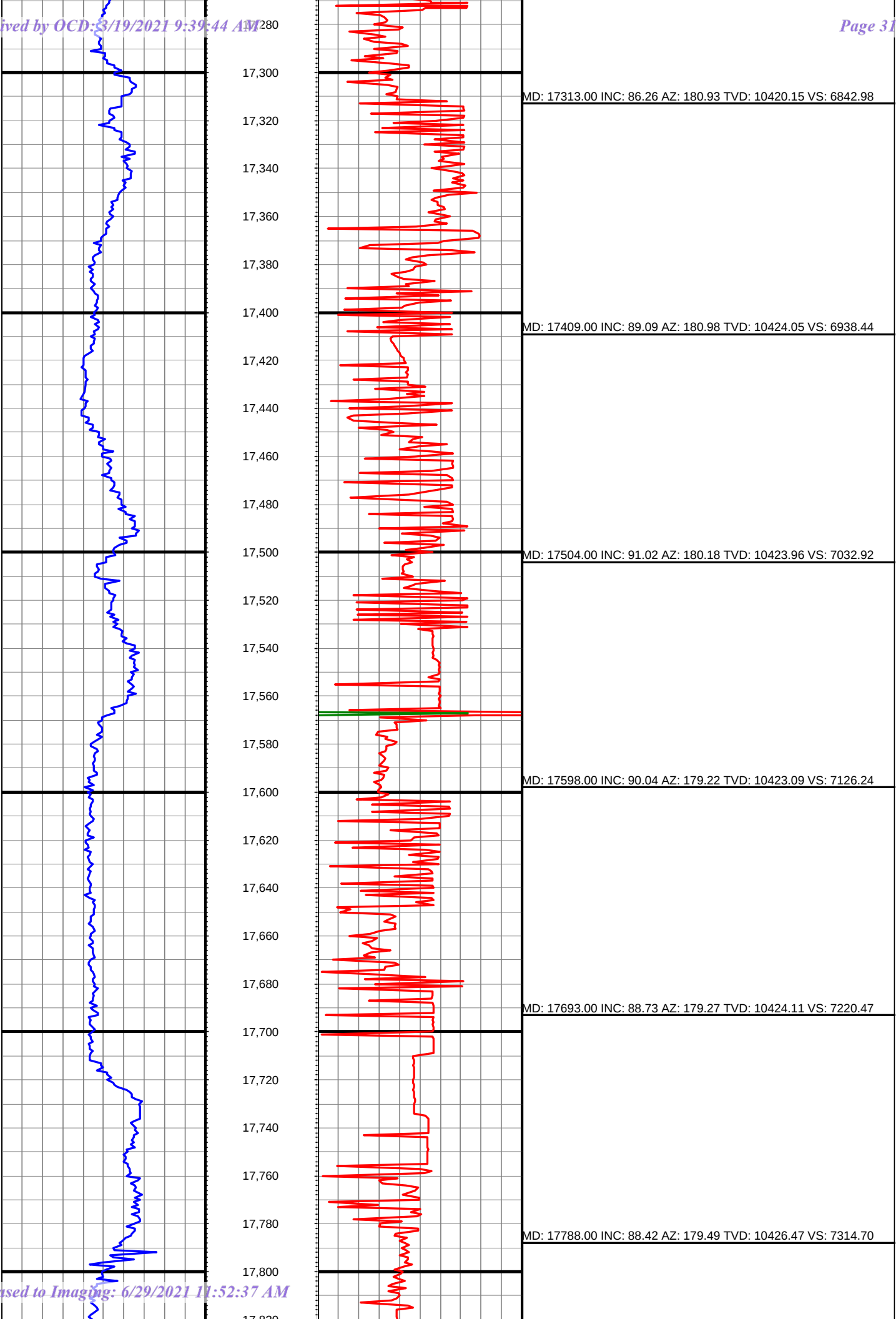
MD: 16365.00 INC: 88.92 AZ: 180.26 TVD: 10414.28 VS: 5901.21

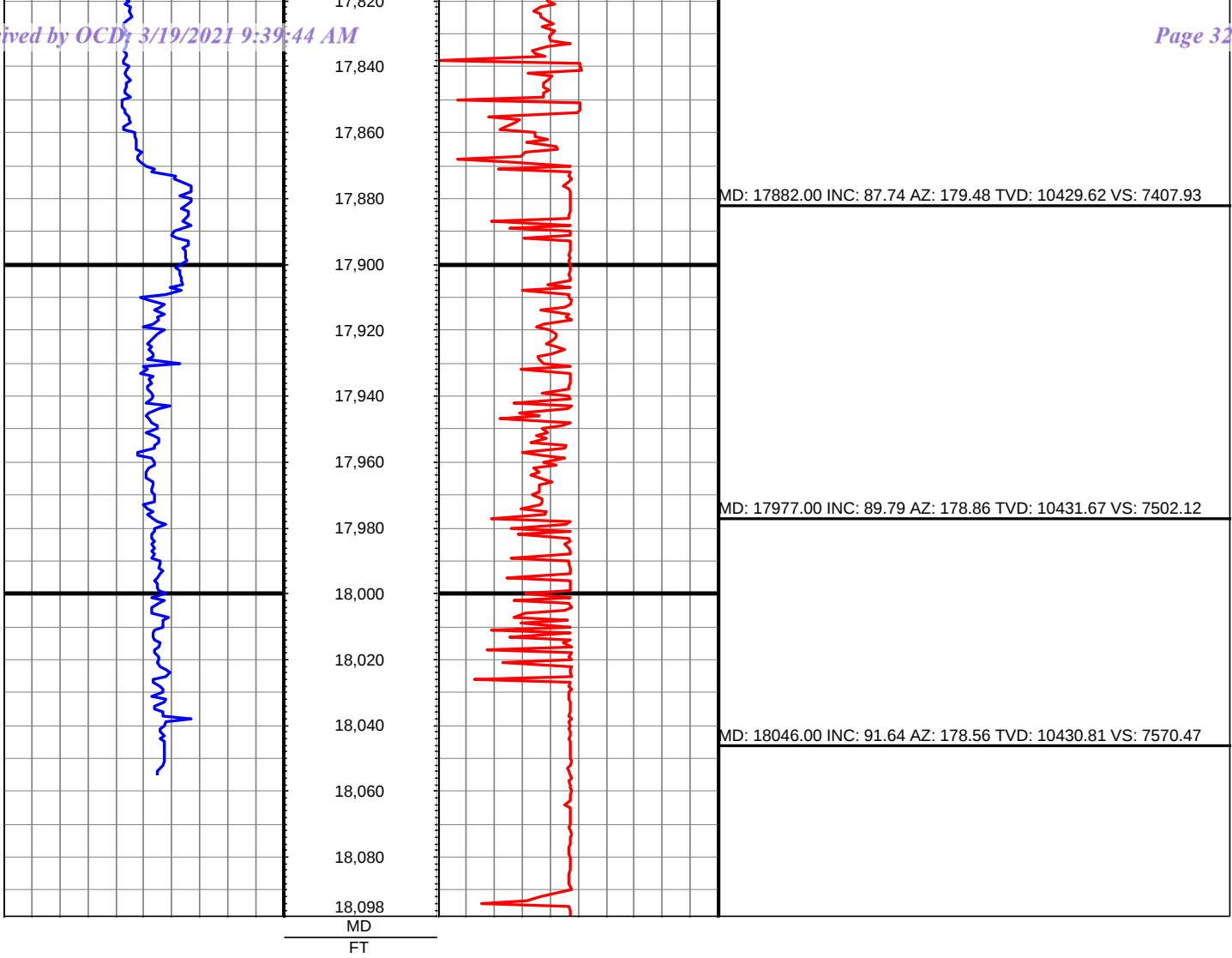
MD: 16459.00 INC: 90.41 AZ: 179.49 TVD: 10414.83 VS: 5994.57

MD: 16554.00 INC: 89.09 AZ: 180.41 TVD: 10415.24 VS: 6088.94

MD: 16649.00 INC: 90.63 AZ: 180.39 TVD: 10415.48 VS: 6183.39







Form 3160-5
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**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.
NMNM23768

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
NORTH RIDGE 8040 FEDERAL COM 1H9. API Well No.
30-025-4695710. Field and Pool or Exploratory Area
ANTELOPE RIDGE-BONESPRING11. County or Parish, State
LEA COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
BTA OIL PRODUCERS, LLC
Contact: KATY REDDELL
E-Mail: kreddell@btaoil.com3a. Address
104 S. PECOS
MIDLAND, TX 797013b. Phone No. (include area code)
Ph: 432-682-37534. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 35 T22S R34E NENW 300FNL 1620FWL
32.354595 N Lat, 103.444138 W Lon

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	Hydraulic Fracture
	☐ 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 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 recompleat 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.

TD @ 18,098' REACHED: 4/30/2020.
9/12/2020 THRU 9/23/2020: PERFORATE AND FRAC BONESPRING: 10,650' - 18,050' WITH 380,967 TOTAL BBLS
FLUID; 18,941,860 100 MESH SAND.
9/26/2020: COMPLETE DRILLOUT.
9/30/2020: 2-7/8" TUBING @ 10,230' ASIX PACKER @ 10,230'
10/10/2020: START FLOWING BACK AND TESTING.
PBTD= 18,077'

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #534305 verified by the BLM Well Information System
For BTA OIL PRODUCERS, LLC, sent to the Hobbs**

Name (Printed/Typed) KATY REDDELL

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 10/16/2020

THIS 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)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM23768

[illegible]

23. Casing and Liner Record (Report all strings set in well)

[illegible]

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	10238	10229						

25. Producing Intervals

28. Producing Intervals			29. Perforation Record			
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONESPRING	8497		10650 TO 18050			PERF AND FRAC
B)						
C)						
D)						

26. Perforation Record

28. Producing Intervals			29. Perforation Record			
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONESPRING	8497		10650 TO 18050			PERF AND FRAC
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
16050 TO 18050	380,967 TOTAL FLUID; 18,941,860 # SAND

28. Production - Interval A

Date First Produced 10/10/2020	Test Date 10/15/2020	Hours Tested 24	Test Production 	Oil BBL 708.0	Gas MCF 858.0	Water BBL 2446.0	Oil Gravity Corr. API 38.5	Gas Gravity	Production Method FLOWS FROM WELL
Choke Size 24/64"	Tbg. Press. Flwg. 1875 SI	Csg. Press. 1225.0	24 Hr. Rate 	Oil BBL 708	Gas MCF 858	Water BBL 2446	Gas:Oil Ratio	Well Status POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production 	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate 	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #539117 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(*Sold, used for fuel, vented, etc.*)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
BONESPRING	8497		FLOWING	RUSTLER TOP SALT BASE SALT CAPITAN REEF DELAWARE BELL CANYON CHERRY CANYON BRUSHY CANYON	1784 2305 3295 4175 5613 5703 6224 7113

32. Additional remarks (include plugging procedure):
BONESPRING LIME: 8497'
FIRST BONESPRING SAND: 9630'
SECOND BONESPRING SAND: 10141'

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #539117 Verified by the BLM Well Information System.
For BTA OIL PRODUCERS, LLC, sent to the Hobbs**

Name (*please print*) KATY REDDELL

Title REGULATORY ANALYST

Signature _____ (Electronic Submission)

Date 12/03/2020

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.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

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

ACKNOWLEDGMENTS

Action 21363

ACKNOWLEDGMENTS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 21363
	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.

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

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CONDITIONS

Action 21363

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	Action Number: 21363
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CONDITIONS

Created By	Condition	Condition Date
ksimmons	None	6/29/2021