



Arizona Oil and Gas Conservation Commission

Samantha Roberts, R.G.
Program Administrator Arizona Oil and Gas Conservation Commission
1110 W. Washington Street, Phoenix, AZ 85007
Ph: 602-771-4501 | azogcc.az.gov

Commissioners:
Frank Thorwald, Chair
J. Dale Nations, Ph.D., Vice Chair
William C. Feyerabend
F. Michael Conway, Ph.D.
James (Jim) Ballard
Robyn Sahid, Land Commissioner
Ex Officio (non-voting member)

NOTICE OF COMBINED PUBLIC MEETING AND POSSIBLE EXECUTIVE SESSION ARIZONA OIL AND GAS CONSERVATION COMMISSION

Pursuant to A.R.S. § 38-431.02, notice is hereby given to the members of the Arizona Oil and Gas Conservation Commission (AZOGCC) and to the general public that the AZOGCC will hold an open public meeting:

Friday, December 20, 2024
10:00 A.M. MST Phoenix, AZ
via Zoom using the link below:

<https://us02web.zoom.us/j/89194635122?pwd=11rcbPSCsRDoWEXXEtKldAqgbCuwgk.1>

Dial in:

+1 669 444 9171 US

Meeting ID:

891 9463 5122

Passcode/Participation ID:

395487

Please join a few minutes early to avoid technical difficulties and keep all microphones muted except when speaking. This virtual meeting will be recorded. If you experience difficulties logging into the meeting please contact Wendy Flood, at flood.wendy@azdeq.gov or (602) 717.0029 for technical assistance.

Executive Session: Pursuant to A.R.S. § 38-431.03(A)(3), the AZOGCC may vote to go into executive session, which will not be open to the public for the purposes of obtaining legal advice on any item on the Agenda.

CALL TO ORDER

1. Establish a quorum and conflicts of interests

AGENDA ITEMS FOR DISCUSSION, CONSIDERATION, AND POSSIBLE ACTION:

2. Administrator Updates – Samantha Roberts
 - a. Cobalt Well 20-23-31#1 Plugging Application
 - b. Valen Federal #1, API# 02-015-05002, Form 10
 - c. Discussion regarding confidential records - this discussion may include an attorney client discussion and may proceed into an executive session for that purpose.
 - d. Update on TRRC training information
 - e. Rules & Legislation Timeframe Updates
3. Orphan Wells Program Update
 - a. Previously plugged
 - i. Casa Grande Valley, API# 02-021-05009
 - b. Outreach update
 - c. New plugging applications



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- i. **LM Lockhart 1 Babbitt, API# 02-005-05016, Permit #03-04**
 - ii. **Orphaned Well #02-017-60009**
 - iii. **Orphaned Well #02-017-05021**
 - iv. **Orphaned Well #02-017-05153**
4. **AZOGCC Chairman Frank Thorwald Report**
 - a. **Discussion on State and Federal Legislation**
 5. **Call to the Public:**

Members of the public may address the AZOGCC during this Call to the Public. In the interest of maintaining an orderly meeting, comments shall not exceed three minutes per speaker. For any specific issues, the total comment period shall not exceed ten minutes per side. If a member of the public wishes to speak, they may unmute their telephone by pressing *6.

Pursuant to A.R.S. § 38-431.01(H), the AZOGCC members shall not discuss or take legal action on matters raised during an open call to the public unless the matters are properly noticed for discussion and legal action. As a result of public comment, the AZOGCC members may respond to criticism, may direct staff to review a matter, or may ask that a matter be placed on a future agenda.
 6. **AZOGCC Requests for Future Agenda Items**
 7. **Announcements**
 8. **Adjournment of the AZOGCC**

For additional information about this meeting, contact Samantha Roberts, Oil and Gas Program Administrator, azogcc@azdeq.gov or (602) 771-4501. At least 24 hours prior to any meeting, a copy of the agenda will be available for public inspection at the Arizona Department of Environmental Quality (ADEQ), 1110 W. Washington Street, Phoenix, AZ 85007, or online at <http://azogcc.az.gov/notices>. A copy of material provided to AZOGCC (with exception to material relating to possible executive sessions) are available for public inspection upon request by contacting the ADEQ Records Center at (602) 771-4380 or (800) 234-5677.

ADEQ will take reasonable measures to provide access to department services to individuals with limited ability to speak, write or understand English and/or to those with disabilities. Requests for language translation, ASL interpretation, CART captioning services or disability accommodations must be made at least 48 hours in advance by contacting the Title VI Nondiscrimination Coordinator, Leonard Drago, at 602-771-2288 or Drago.Leonard@azdeq.gov. For a TTY or other device, Telecommunications Relay Services are available by calling 711.

ADEQ tomará las medidas razonables para proveer acceso a los servicios del departamento a personas con capacidad limitada para hablar, escribir o entender inglés y/o para personas con discapacidades. Las solicitudes de servicios de traducción de idiomas, interpretación ASL (lengua de signos americano), subtítulo de CART, o adaptaciones por discapacidad deben realizarse con al menos 48 horas de anticipación comunicándose con el Coordinador de Anti-Discriminación del Título VI al 602-771-2288 o Drago.Leonard@azdeq.gov. Para un TTY u otro dispositivo, los servicios de retransmisión de telecomunicaciones están disponible llamando al 711.

Agenda Item 2a
Colbalt Well 20-23-
31#1

Confidential

Agenda Item 2b

PLUGGING RECORD

Operator		Address & Phone number		
Federal, State, or Indian Lease No. or lessor's name if fee lease US Well No. 02-015-05002		Well No. #1	Field & Reservoir	
Location of Well		Sec - Twp - Rge		County
Application to drill this well was filed in name of Western Drilling Comp		Has this well ever produced oil or gas? No	Character of well at completion (initial production) Oil (bbls/day) - 0 - Gas (MCF/day) - 0 - Dry? Yes	
Date plugged 8-26-2024		Total depth 1,314'	Amount well producing when plugged: Oil (bbls/day) - 0 - Gas (MCF/day) - 0 - Water (bbls/day) - 0 -	
Name of each formation containing oil or gas. Indicate which formation open to wellbore at time of plugging	Fluid content of each formation	Depth interval of each formation		Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount of cement
Hermit Shale	Water	1,010' - 1,815'		450 sacks cement
Coconino Sand	N/A	940' - 1,010'		100 sacks cement
Kaibab & Browlee	N/A	80' - 940'		470 sacks cement
Moenkopi Shale	N/A	0' - 80'		17.5 Ton Sand / 45 Sks cement

CASING RECORD

Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, etc.)	Packers and shoes
13-3/8"	60'	12'	48'		
8-5/8"	2,912'	1,312'	1,602'		1,310' to 2,912' left in well
7"	3,730'	3,730'	- 0 -		Pulled all in 1,958'

Was well filled with heavy drilling mud, according to regulations?

Indicate deepest formation containing fresh water

NAME AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE

Name	Address	Direction from this well

In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required.


Use reverse side for additional detail

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the _____ of the _____ (company) and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Date

10-Dec-24

Signature

 **Grant F. Smith**

Mail **one** copy of completed form to:
Oil and Gas Program Administrator
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007

Permit No. **AZ06cc-0043** email **one** copy to: ogcc@azdeq.gov

STATE OF ARIZONA

OIL & GAS CONSERVATION COMMISSION

Plugging Record

File **two** copies: one by mail, one electronically

Form No. 10

**Federal Orphaned Well Program
Plugging & Abandonment, Region 3
BLM, Arizona Strip Field Office
Valen Federal #1 Orphan Well
Contract 140L0623D0023 | TO 140L0624F0042
Final Report**

October 2, 2024

Prepared for:

**Bureau of Land Management, Arizona
Arizona Strip Field Office
ATTN: Mr. Patrick Griffiths || pgriffiths@blm.gov
Ms. Paula Johnson || pjohnson@blm.gov
Ms. Quindora Byrd || qbyrd@blm.gov
Via Email**

Prepared by:



**1935 E. Vine Street, Suite 370
Murray, UT 84121
UEI: LLKKPN8DH598
DUNS Number: 080549018
Cage Code: 7TS92
*8(a) Small Business***

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Final Report

In this section, North Wind presents our final report of the daily activities that were performed on location.

1.1 Summary of Daily Work

Photos Pre-Mobilization:





Work Conducted:

Tested for gas, none detected.

From rig daily reports:

Day One: 8-16-24

Travel from the front range of Colorado with cement equipment make sure tanks get spotted two 500 bbls on location near Colorado city they found their way no problem front range equipment makes it to rifle Colorado to stay the night cement truck bulk trailer and two pneumatics

Day two: 8-17-24

Travel with all equipment to the location arriving at 3 pm with all equipment except the rig, it will arrive the following day. Struggling with finding water and trucks.

Day Three: 8-18-24

Rig arrives to location around 5 pm all equipment is on location just missing water, got trucks lined out for Monday had a trucking company back out that was to fill the Saturday 8-17

Day four: 8-19-24

Crews arrive at 7 am JSA safety meeting RU waiting on welder done for the day and continue filling frac tank till 12 pm done for the day travel back to Colorado city.

Day five: 8-20-24

Arrive on location 7 am JSA safety meeting water trucks get frac tank filled, welder arrives at 7:30 am finished welding on BOP flange (WOF) at 9:20am gas monitor was used before work started along with hot work and a fire watch NU BOP 10am RU floor start TIH with 2 3/8 pipe at 11:30. Tag up at 1314' with tbg joint 42 hook up cmt pump try to establish cir pump 200 bbls fresh away no returns safety meeting about 1st pump EOT: 1254' sks 300 class g neat 1.15 yield 15.8lbs slurry 61.44 mix water 35.71 fresh Est TOC 1,016' displacement 3 bbls fresh plug 238' well went on a suck for 45 seconds whole pump never seeing returns TOOH with tbg standing back 40 racked back load of water came in loaded back up cmt pods travel back to Colorado city for the night let cmt set over night, see where we tag in the morning

Water on location: 500 bbls

Water used today: 260bbs

Total water on location: 460 bbls

Day six: 8-21-24

Arrive on location 7 am check well for psi: 0. JSA safety meeting TIH Tag TOC @1312' 2nd pump EOT: 1254 sks 150 3% cc slurry 35.53 mix 17.85 Est TOC 1,135' displacement 4.4 bbls plug 119' wait 4 hours tag 20 foot high @1292' lay down two joints SIWFN travel back to Colorado city get more CC and LCM ready to pump tomorrow morning.

Day seven: 8-22-24

Arrive on location 7 am check well psi: 0. JSA safety meeting rig down hose, pull on pipe stuck pull

over 25k pipe is free hook up to pipe to try and clear 3 bbls locked up psi up to 550psi shut down pump TOOH standing back. 5 joints where plugged off TIH with TBG tag @1287 lay down two joints 3rd pump EOT 1227' sks 100 3% with lcm and fiber mess slurry 23.68 mix 11.90 TOC Est 1,147 displacement 4.7 fresh plug 80 foot pull out of hole stand back 6 get stuck push 50 bbls down the back side 120 down the tbg get TBG free TOOH standing back called pump time at 11:30am wait four hours around 2 pm starting to flash flood company man decided to call it we drove out as a pack all of us made it back to the main road by 4:40pm will try again tomorrow water was cancelled and rescheduled for tomorrow as well cause we are running low around 100bbls usable

Day Eight: 8-23-24

Arrive on location 7 am JSA safety meeting check psi on well 0 TIH with TBG Tag on joint 32 @986' lay down two joints 4th pump EOT 943 sks 140 3% with lcm slurry 33.16 Mix 16.65 Est TOC 833 displacement 3.24 plug 110 pump time 8:10am wait four hours TIH with TBG Tag @ 724 5th pump EOT 633 sks 165 lcm 10 lbs. class g neat with LCM slurry 58 mix 12.96 TOC Est 400 plug 330 displacement 1.28 6th pump EOT 249 sks 165 10lbs class g neat cmt with LCM slurry 58 mix 12.96 Est TOC surface never seen plug 330 TOOH three joints try to break cir down TBG up CSG with 115 bbls fresh no luck well on a vacuum clean up truck travel back to town to get more LCM and sand.

Total bbls used: 720 bbls fresh water

Total sks left: 520 class g

Day Nine: 8-24-24

Arrive on location JSA safety meeting trying to figure out what to do wait around till 1 pm decision was made that we would have bullock construction come out bring 20 ton of sand to fill the hole calls were made and a plan was in the works travel back to Colorado city state hand approved the change order will be ready tomorrow morning. After researching the local geology, it was found that 2 zones in the wellbore to be very porous and/or vuggy. Due to not having any casing below 48' in depth was how we came up with using sand as a spacer to possibly hold cement in wellbore (change order initiated).

Day Ten: 8-25-24

Arrive on location JSA safety meeting dump truck arrived at 7:30 am with 20 ton we try and make a chute doesn't work breaks two tarps shovel in by hand 35,000 lbs of sand run in to tag with sand line 63' foot good tag pump 10 bbls of water on it holds a collum of fluid no bubbles and water level is staying the same 7th pump EOT @63'sks 45 class g neat with 3% cc and lcm 10.65 slurry good cmt to surface, clean up cmt truck wait four hours to tag mix water 5.35 Tag TOC @ 3' foot good tag water is not dropping at all. Call it a day at 3pm truck back to main road with pneumatic and pod trailer back at hotel 7pm done for the day Colorado city.

Day Eleven: 8-26-24

Arrive on location JSA safety meeting check well cmt is at surface, bring out miny x to clean and level out location. RD cmt equipment and RD move all equipment off to the edge of location and the cmt back to Colorado dig down 5 foot cut off well head and take off flange and return to Weatherford weld on cap and name plate back fill hole and continue to clean up location. Done with well everything will be gone off location in two days. Smoothed out and rake any areas with tire ruts and seed with locally sourced grass seed mix.

Total bbls used on location: 780 bbls fresh

Total sks used on location: 1,149 sks class g

Tested for gas, none detected.

Final Site Photos:



Final









Agenda Item 3a

PLUGGING RECORD

Operator		Address & Phone number			
Federal, State, or Indian Lease No. or lessor's name if fee lease		Well No.	Field & Reservoir		
Location of Well			Sec - Twp - Rge 06S 07E 25 SE SE		County
Application to drill this well was filed in name of		Has this well ever produced oil or gas?	Character of well at completion (initial production) Oil (bbls/day) Gas (MCF/day)		Dry?
Date plugged		Total depth	Amount well producing when plugged: Oil (bbls/day) Gas (MCF/day)		Water (bbls/day)
Name of each formation containing oil or gas. Indicate which formation open to wellbore at time of plugging	Fluid content of each formation	Depth interval of each formation		Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount of cement	

CASING RECORD

Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, etc.)	Packers and shoes

Was well filled with heavy drilling mud, according to regulations? Indicate deepest formation containing fresh water

NAME AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE

Name	Address	Direction from this well

In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required.

Use reverse side for additional detail

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the _____ of the _____ (company) and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Andrew Foss

Date

Signature

Mail one copy of completed form to:
Oil and Gas Program Administrator
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007
email one copy to: ogcc@azdeq.gov

Permit No. _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Plugging Record

File two copies: one by mail, one electronically

Form No. 10



Open wellhead and surrounding site prior to abandonment.



View down junked well prior to abandonment.



Setting rig up on site.



Cut wellhead with original clay pipe.



Junk removed from wellbore during plugging.



Well during plugging and abandonment.



Surface marker being welded to casing post plugging.



**7" & 4.75" CASING
CEMENT BOND LOG
GAMMA RAY/ CCL**

Company CASA GRANDE DEV CO.
Well LAVEEN #001
Field CASA GRANDE
County PINAL
State ARIZONA Country U.S.A.

Company CASA GRANDE DEV CO.
Well LAVEEN #001
Field CASA GRANDE
County PINAL
State ARIZONA Country U.S.A.

Location: API #: 02-021-05009
SEC 25 TWP 06S RGE 07E
Permanent Datum GROUND LEVEL Elevation
Log Measured From GROUND LEVEL
Drilling Measured From

Date 04-02-2024

Run Number	ONE
Depth Driller	3510'
Depth Logger	3476'
Bottom Logged Interval	3476'
Top Log Interval	SURFACE
Open Hole Size	N/A
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	N/A
Estimated Cement Top	SEE LOG
Time Well Ready	08:00
Time Logger on Bottom	10:15
Equipment Number	307
Location	FARMINGTON, N.M.
Recorded By	C. THOMASON
Witnessed By	B. MOSES

Run Number	Borehole Record			Tubing Record			
	Bit	From	To	Size	Weight	From	To
Casing Record							
Surface String		13.625"		68#	SURFACE		62'
Prot. String		7"		30#	SURFACE		3033'
Production String		4.75"		16#	1798"		3700'
Liner							

<<< Fold Here >>>

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, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

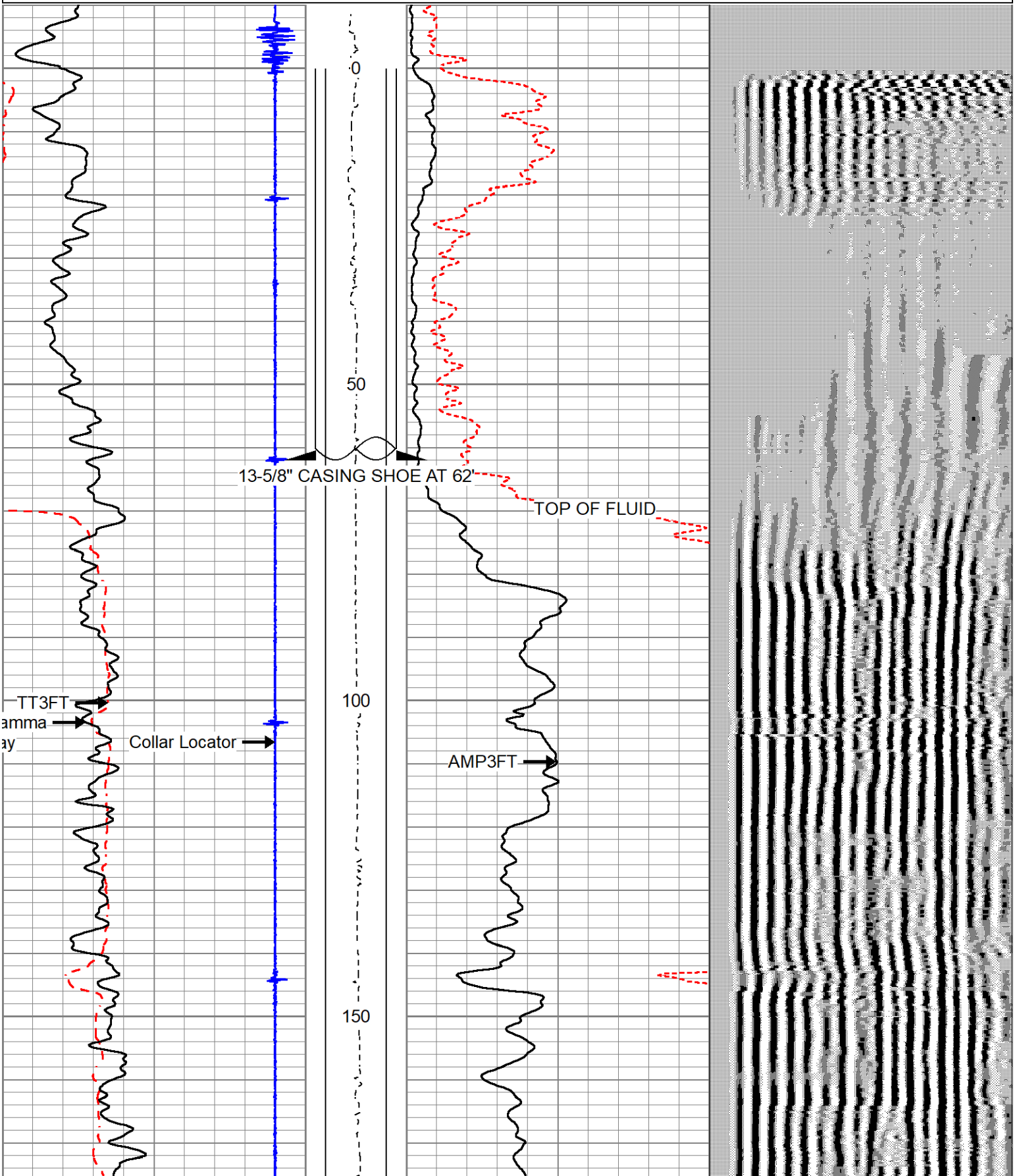
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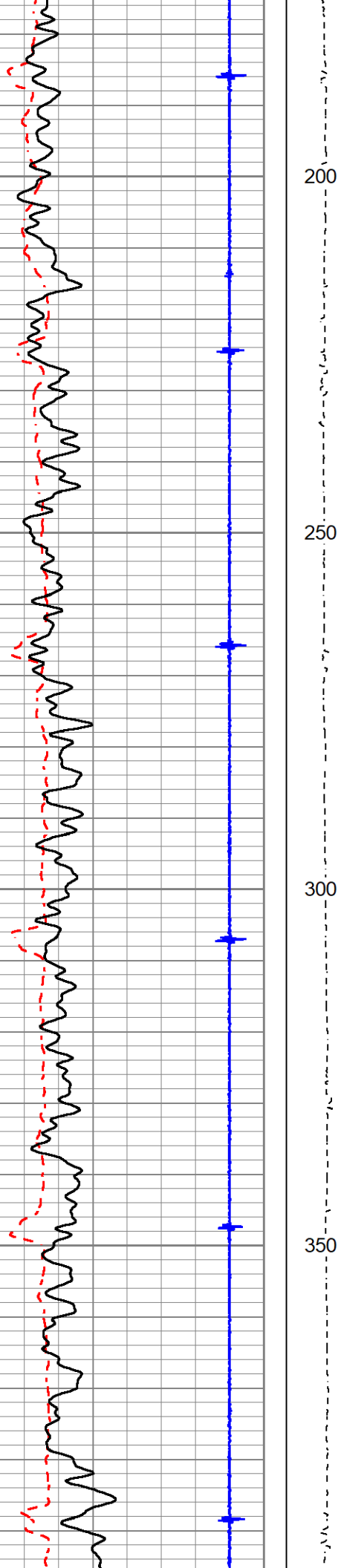


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0	Gamma Ray	200							



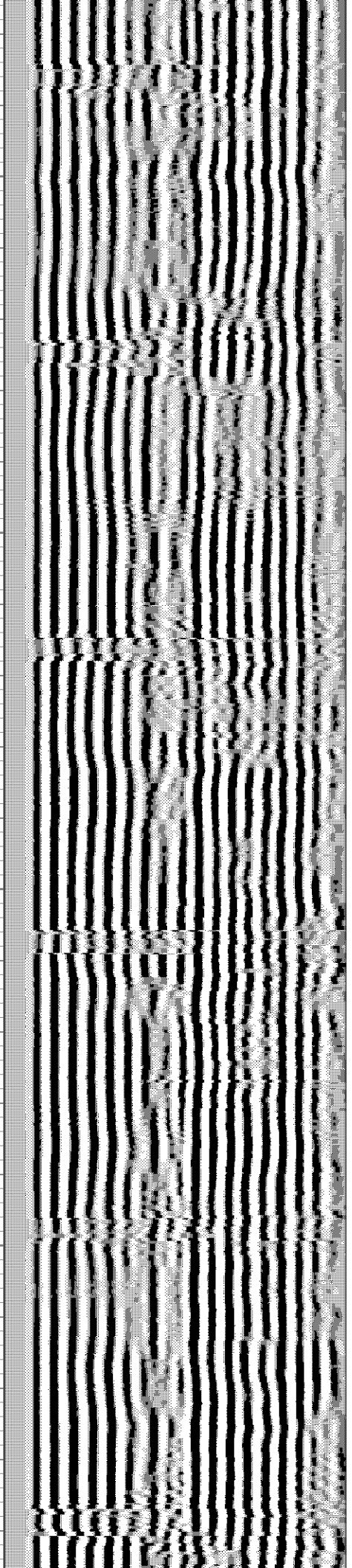
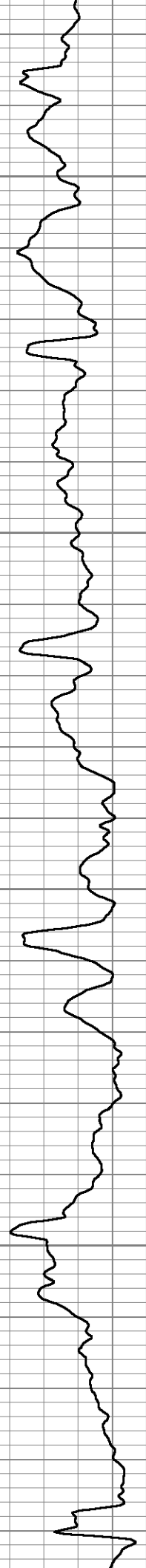


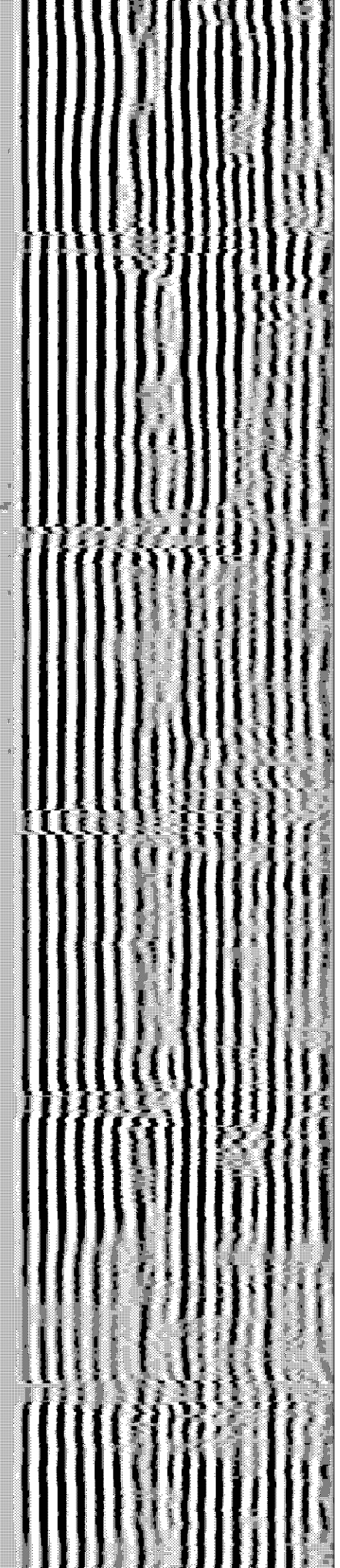
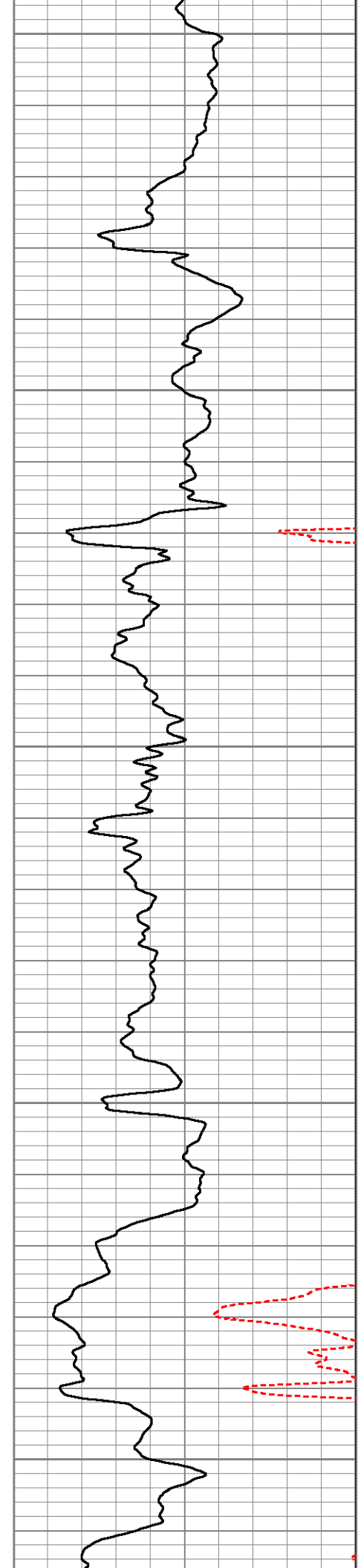
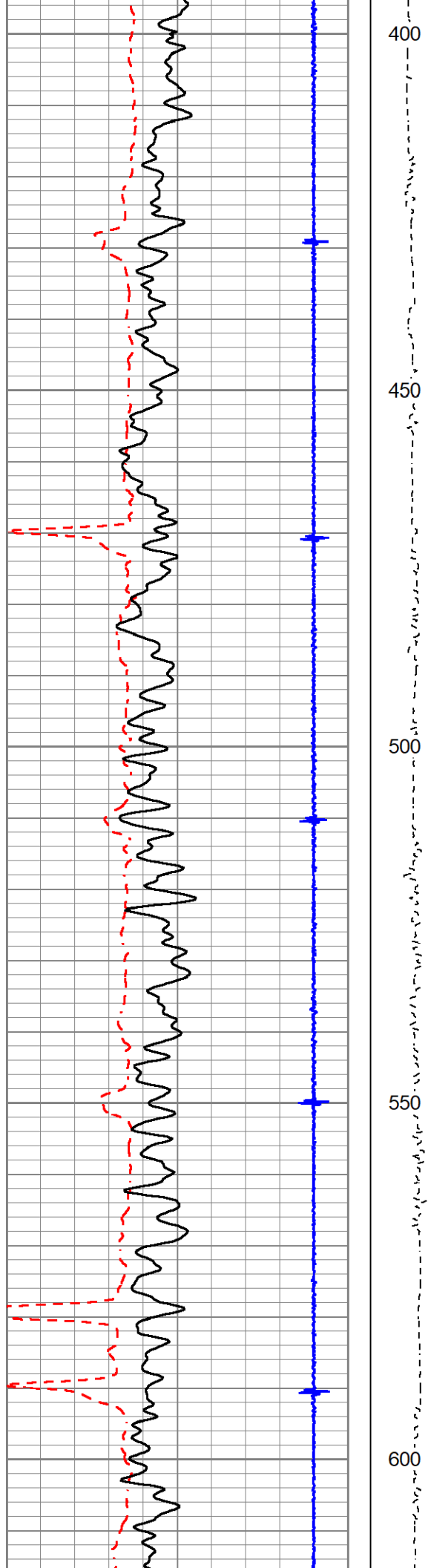
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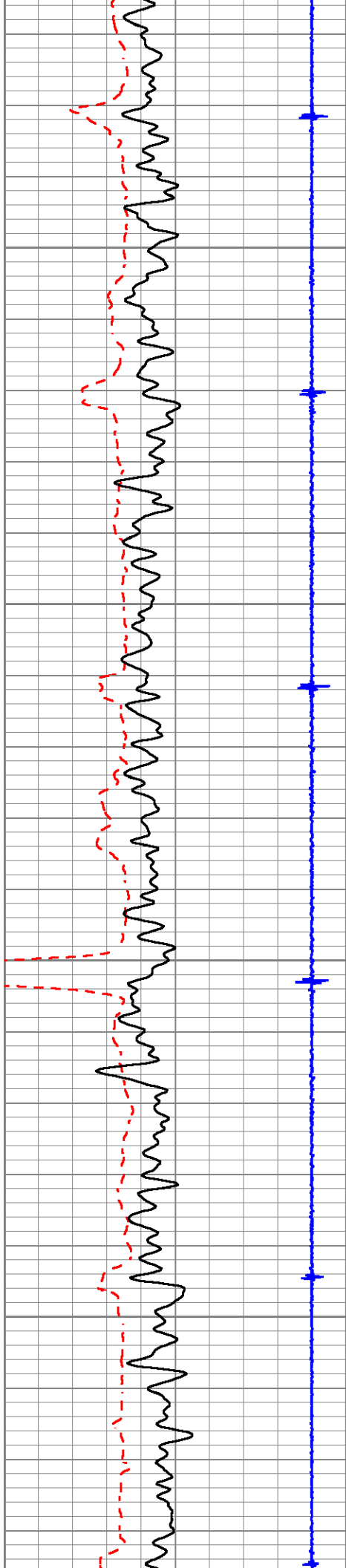
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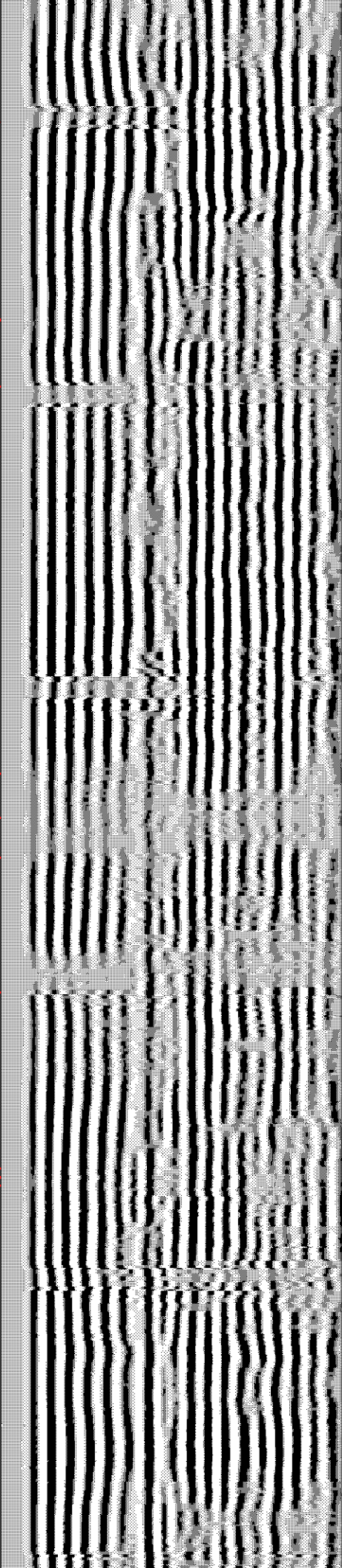
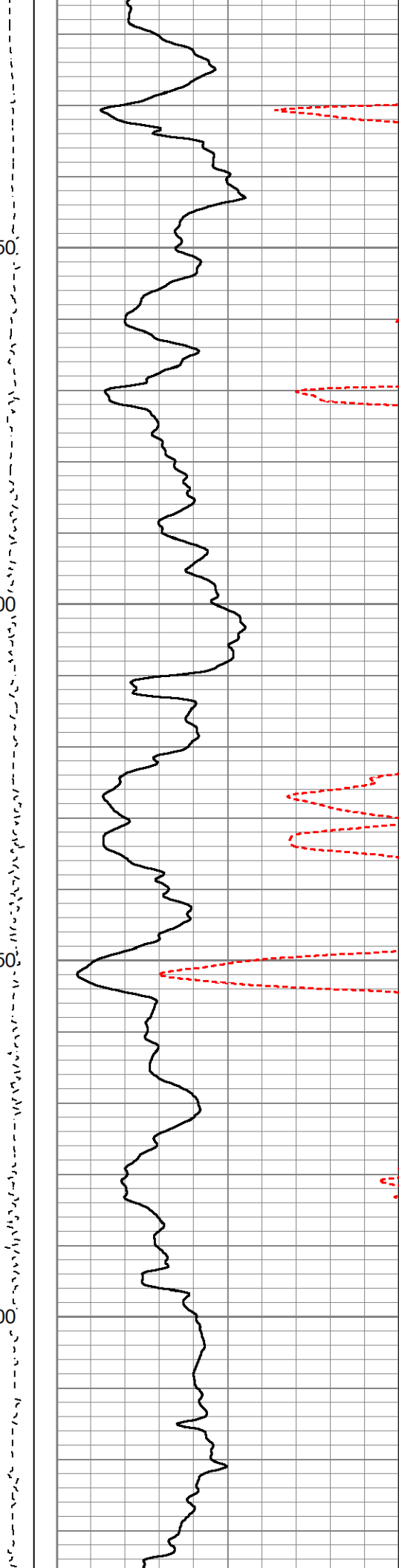


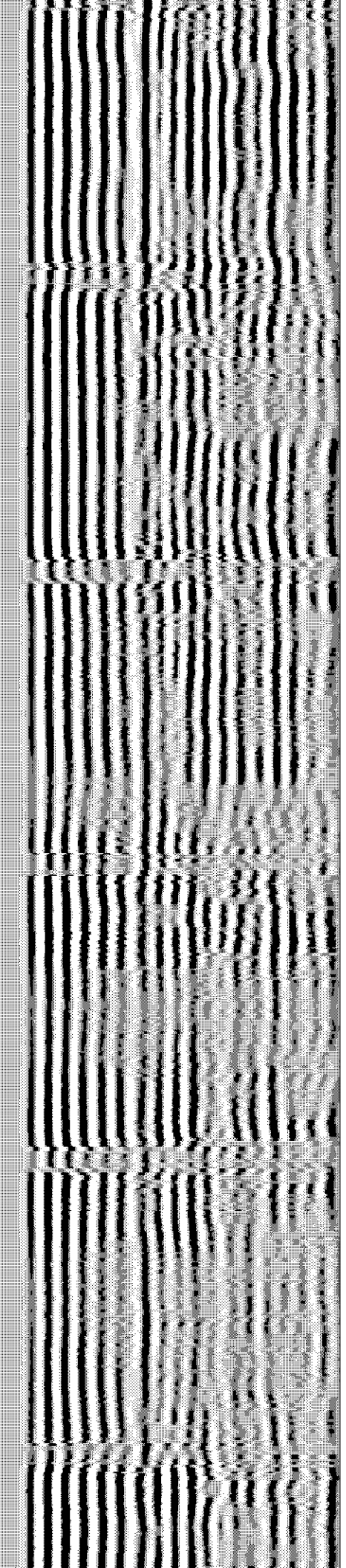
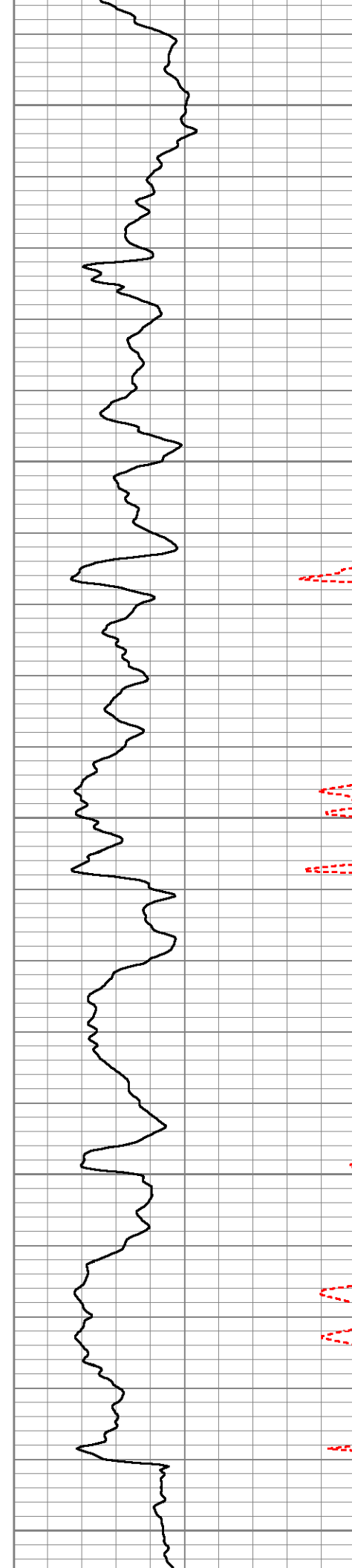
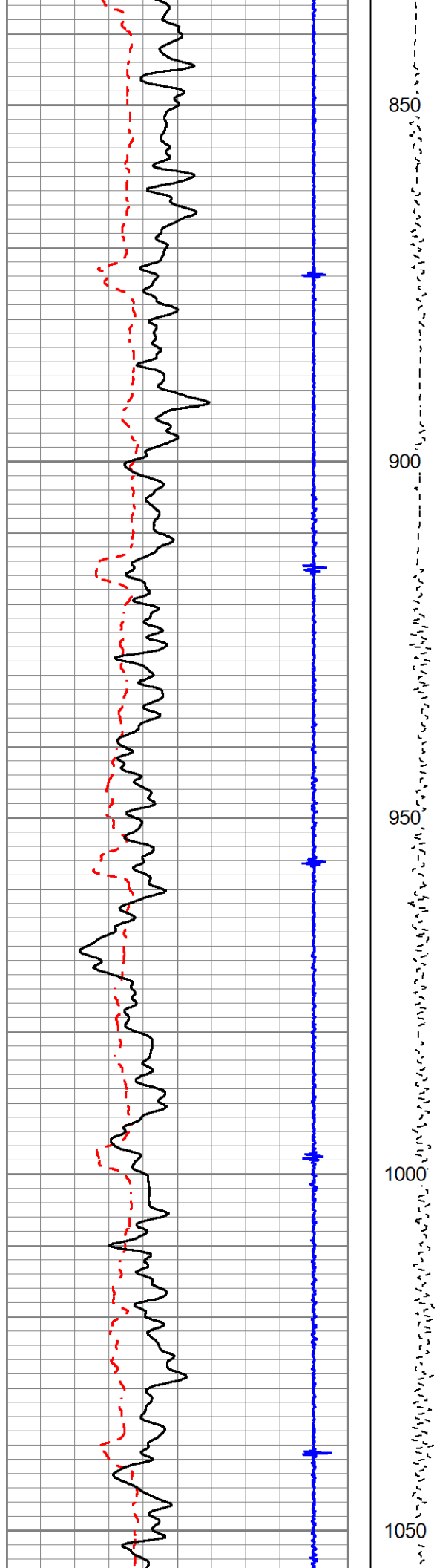
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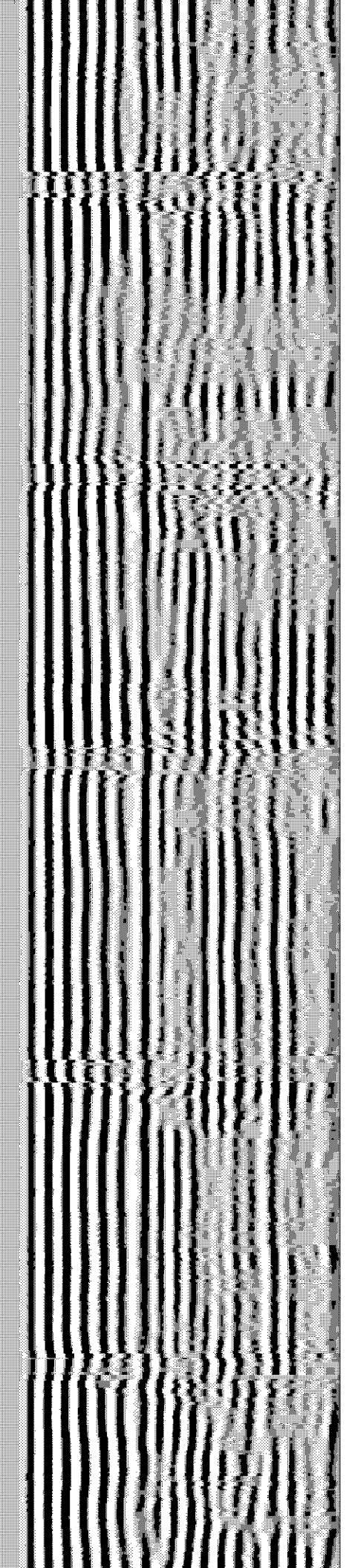
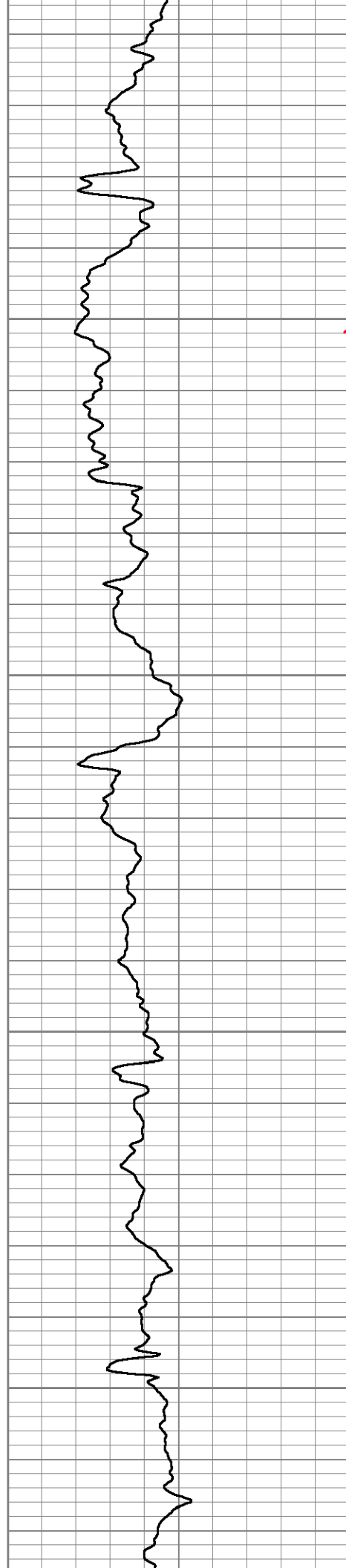
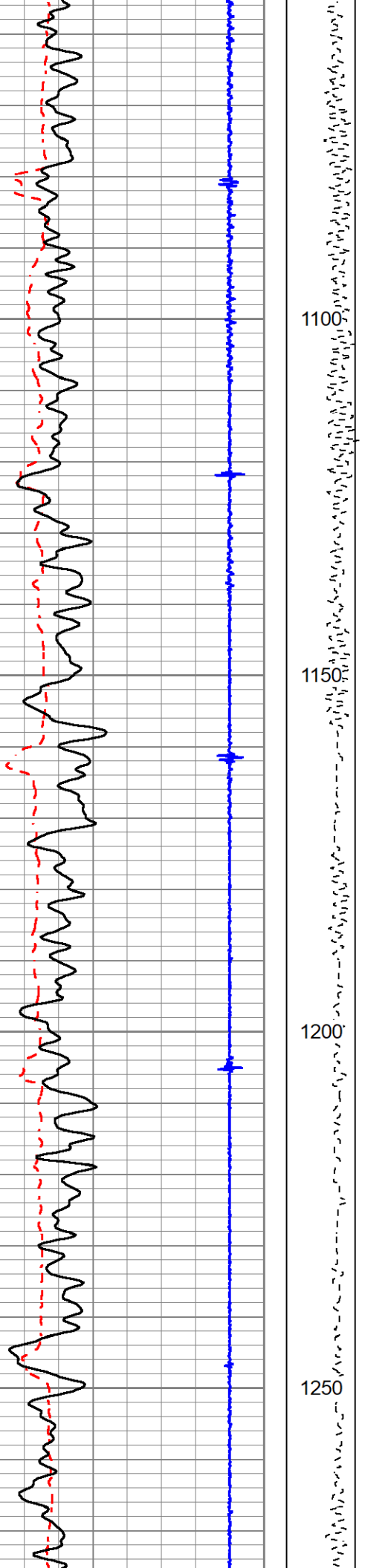
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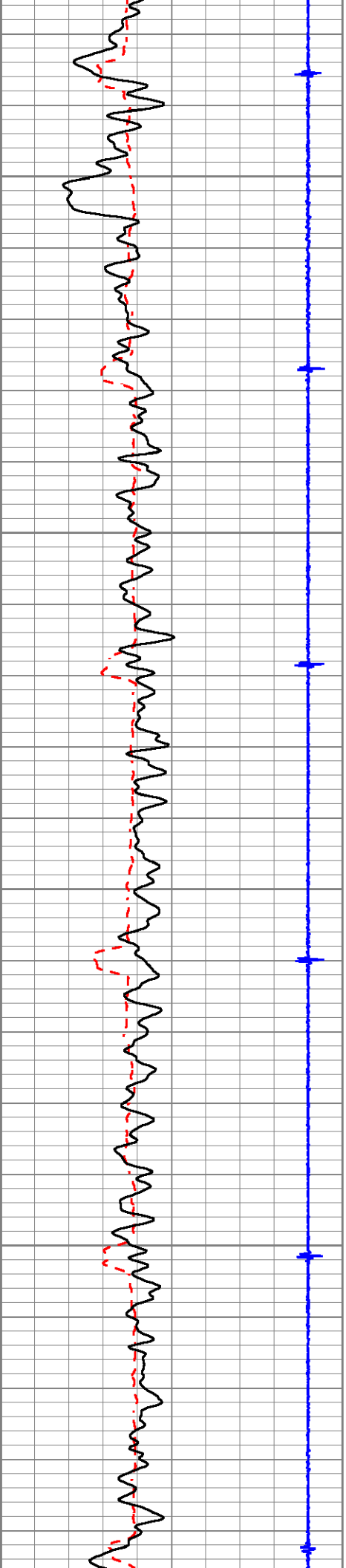
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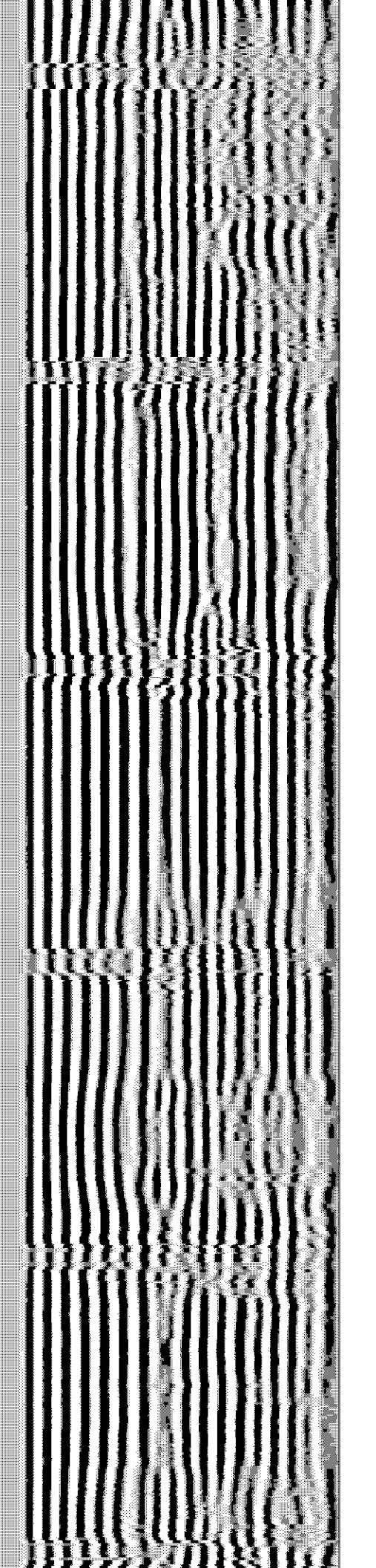
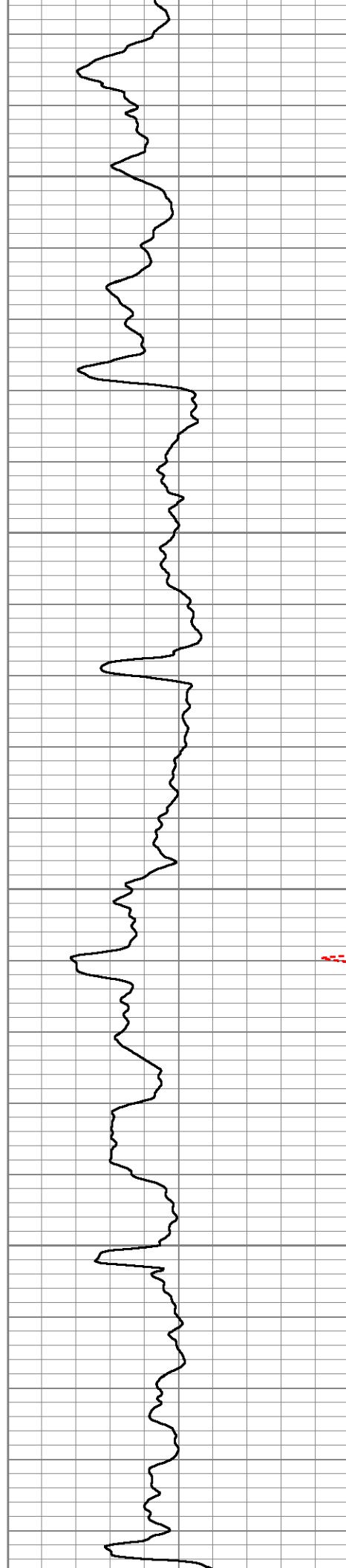


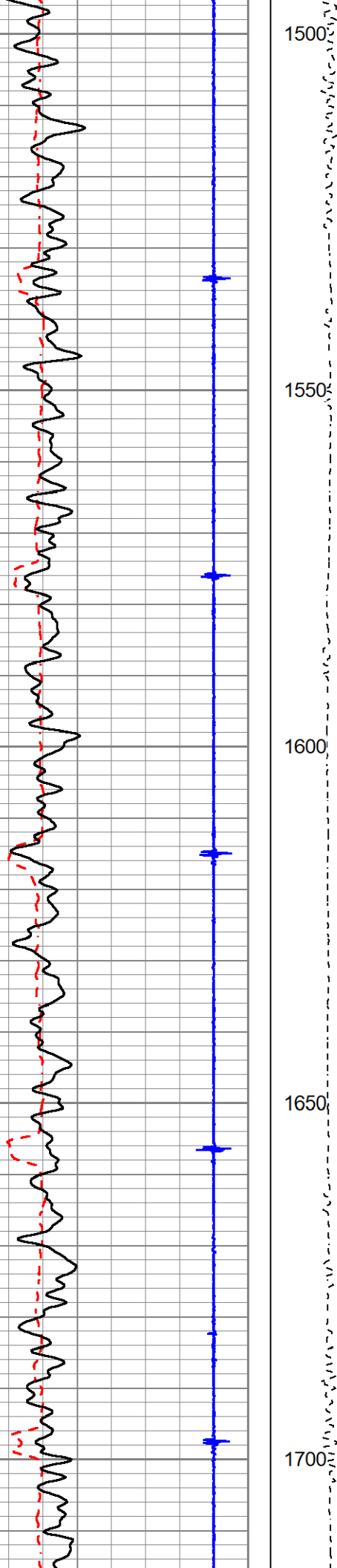




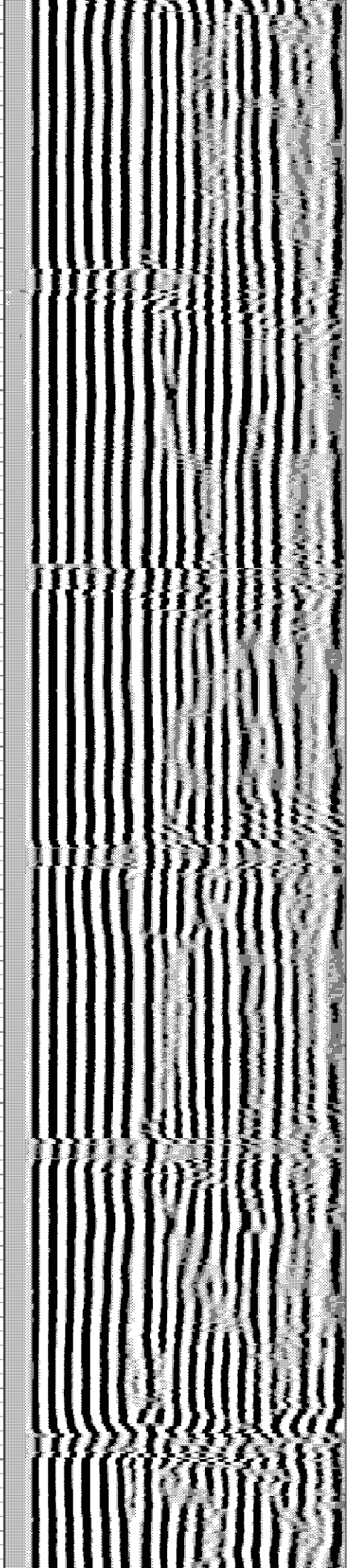
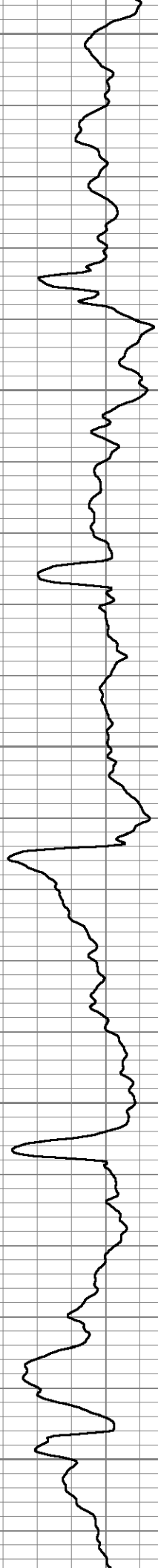


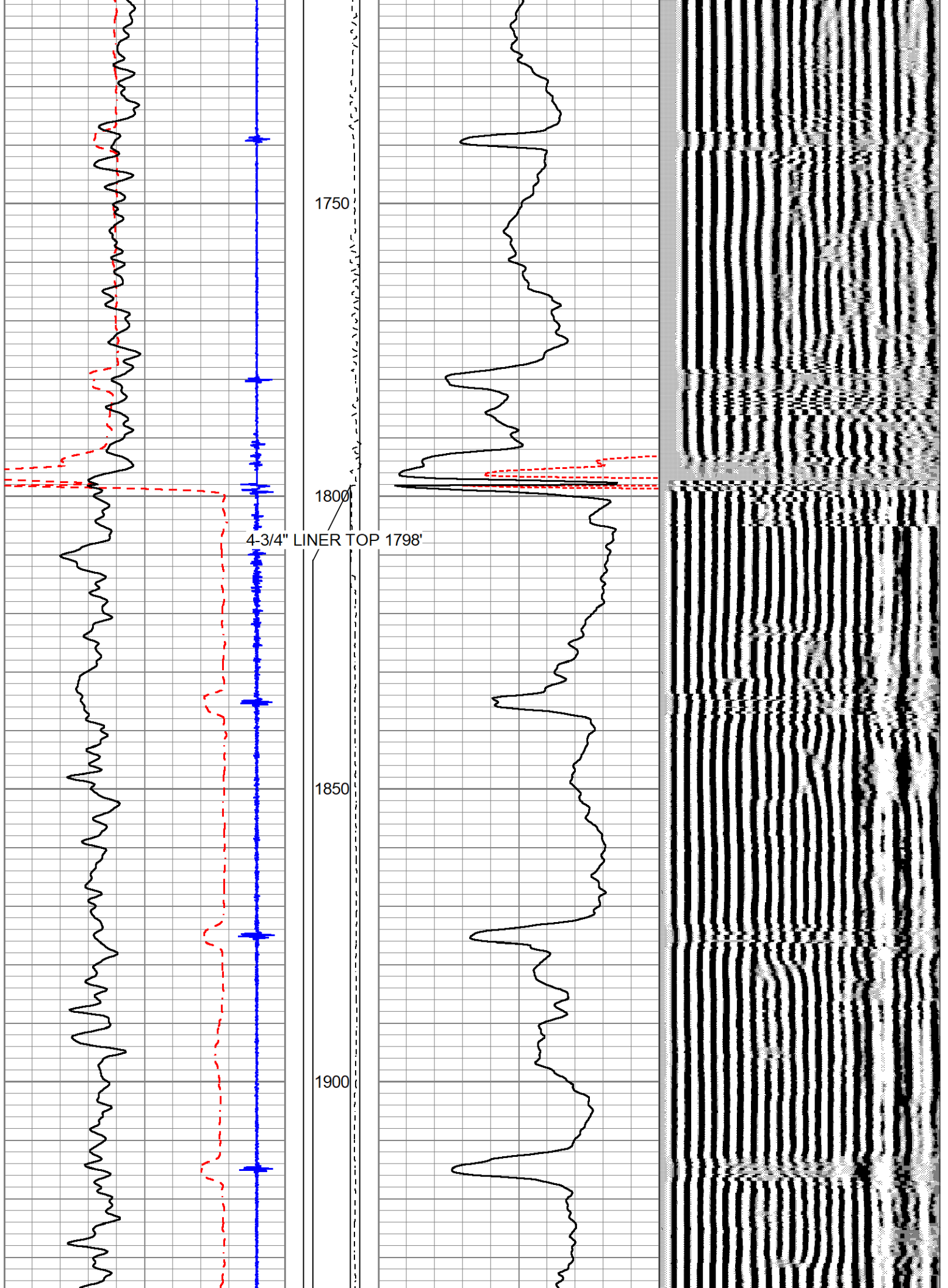
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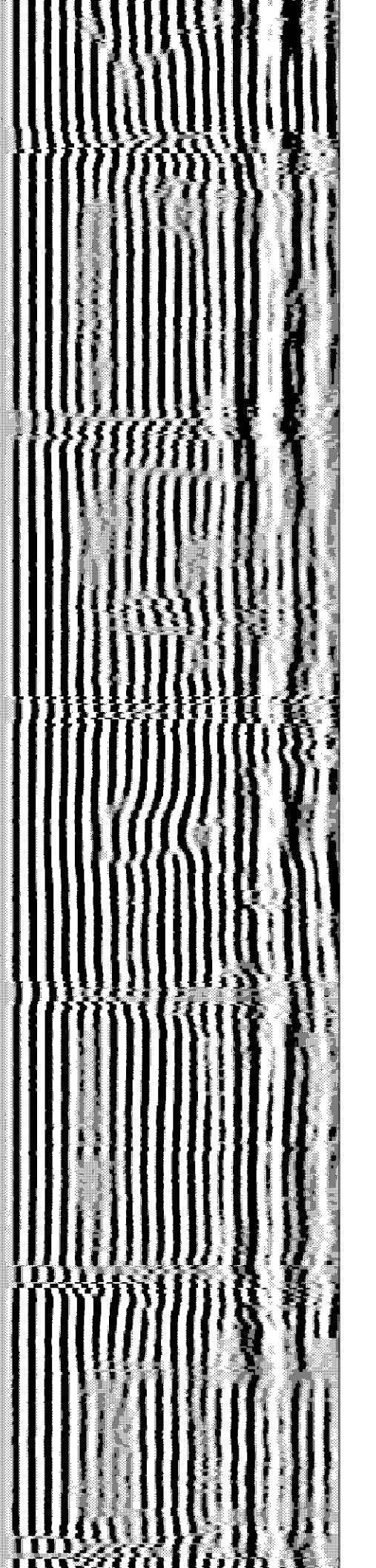
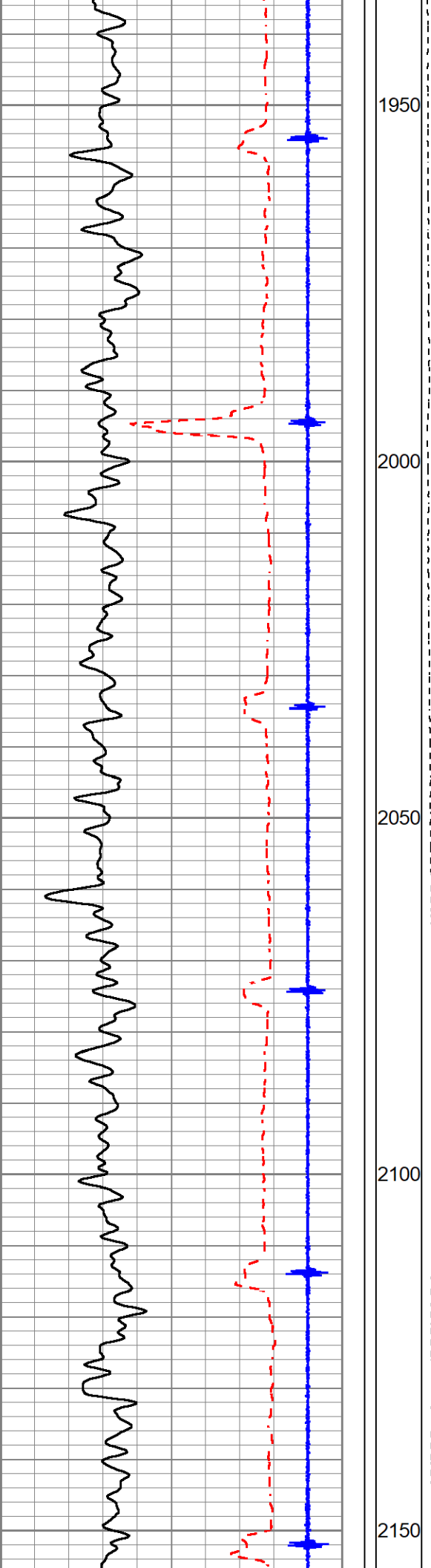


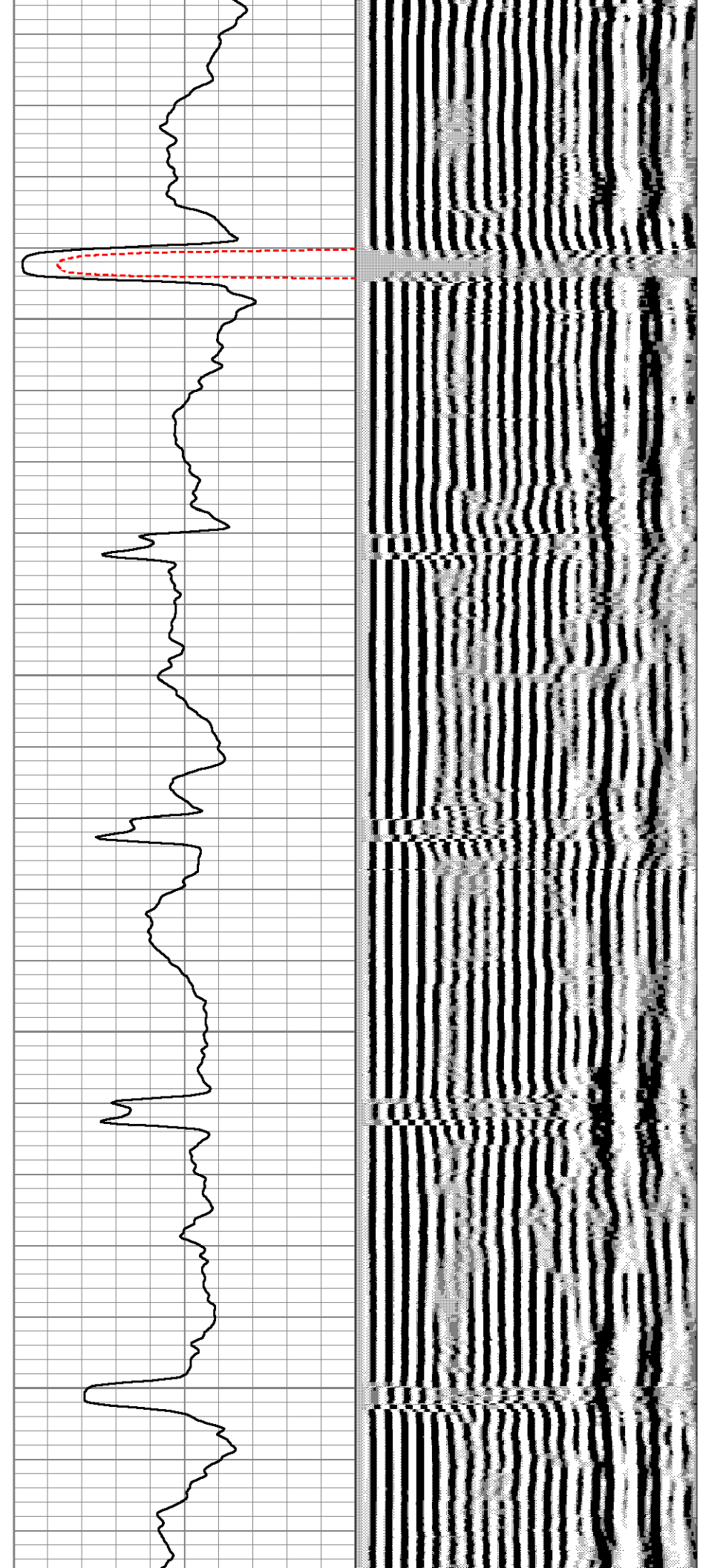
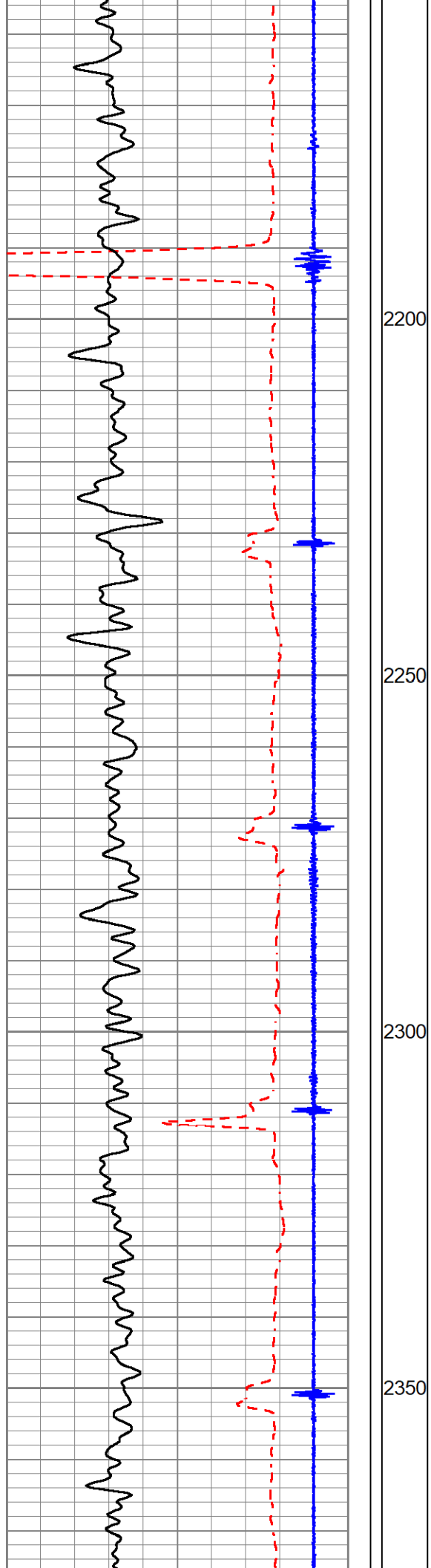


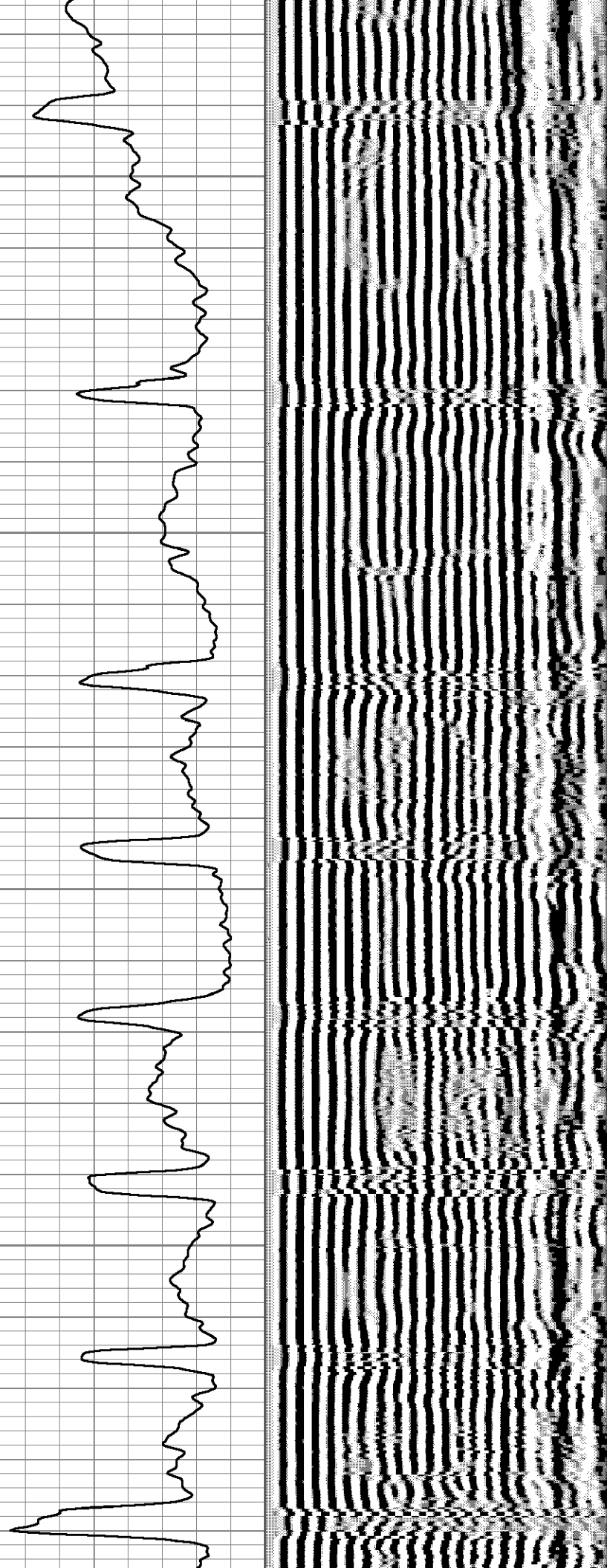
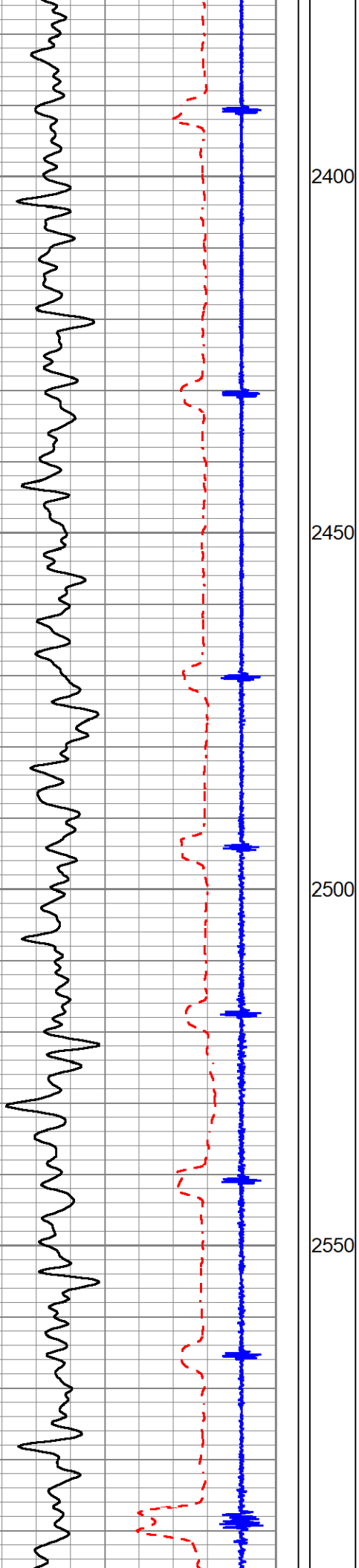
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1600
1650
1700

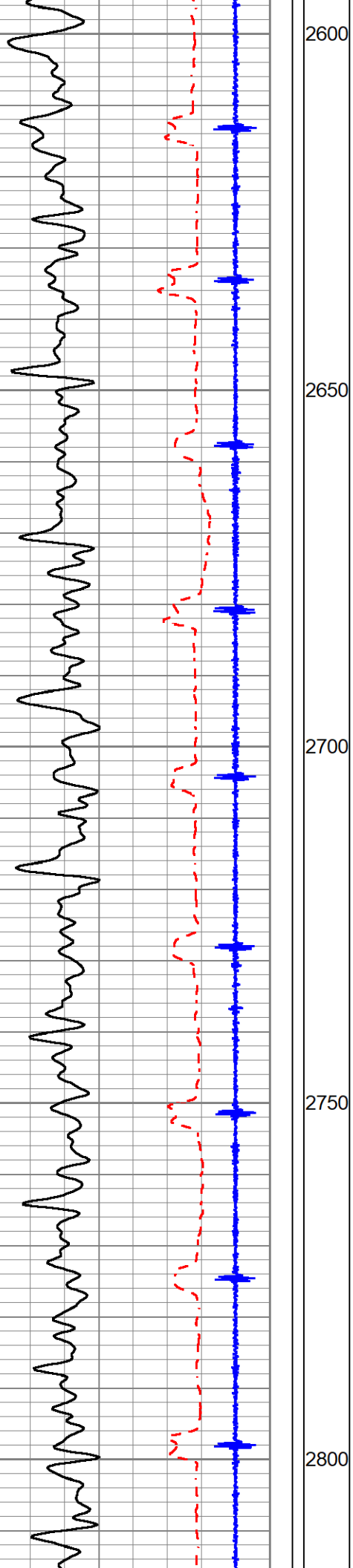




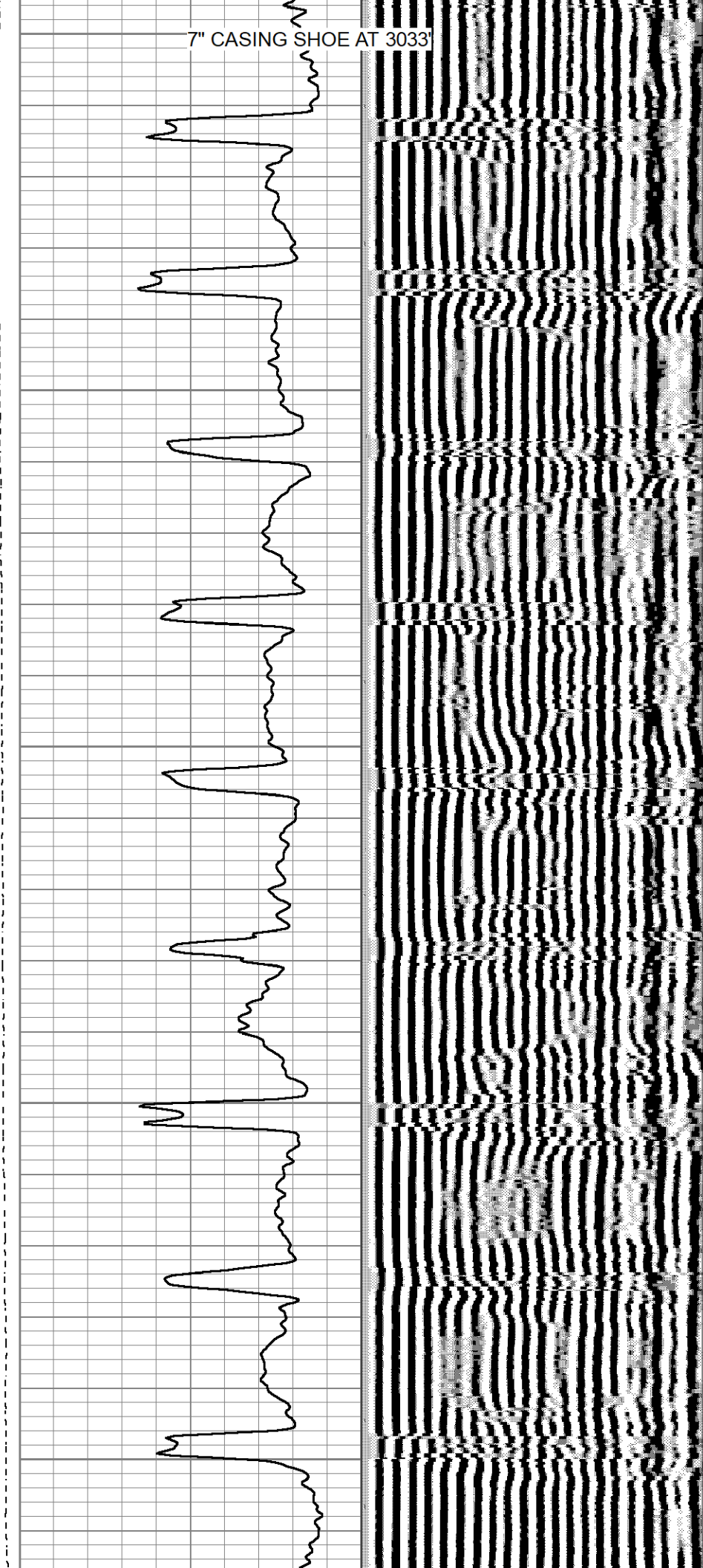


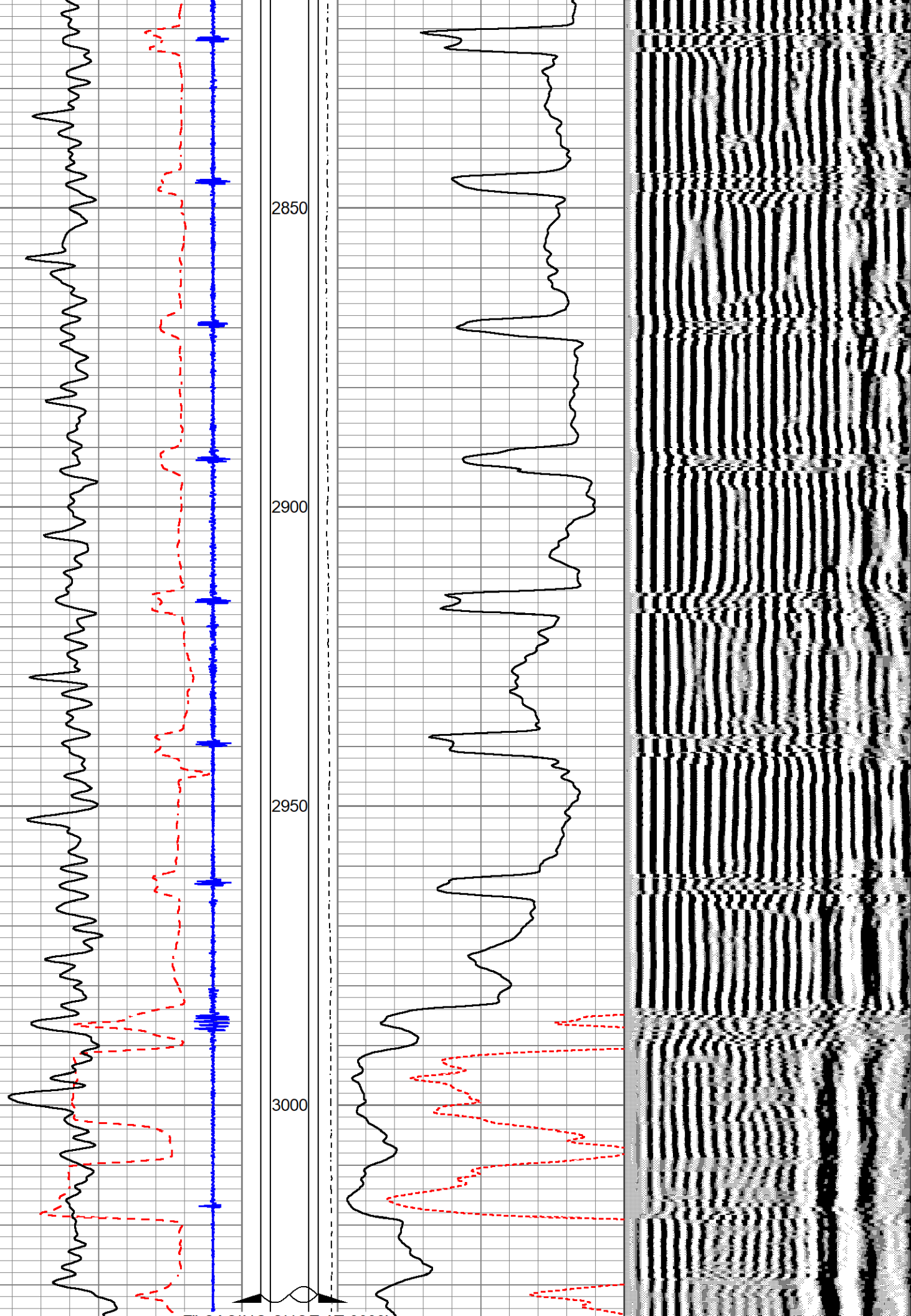




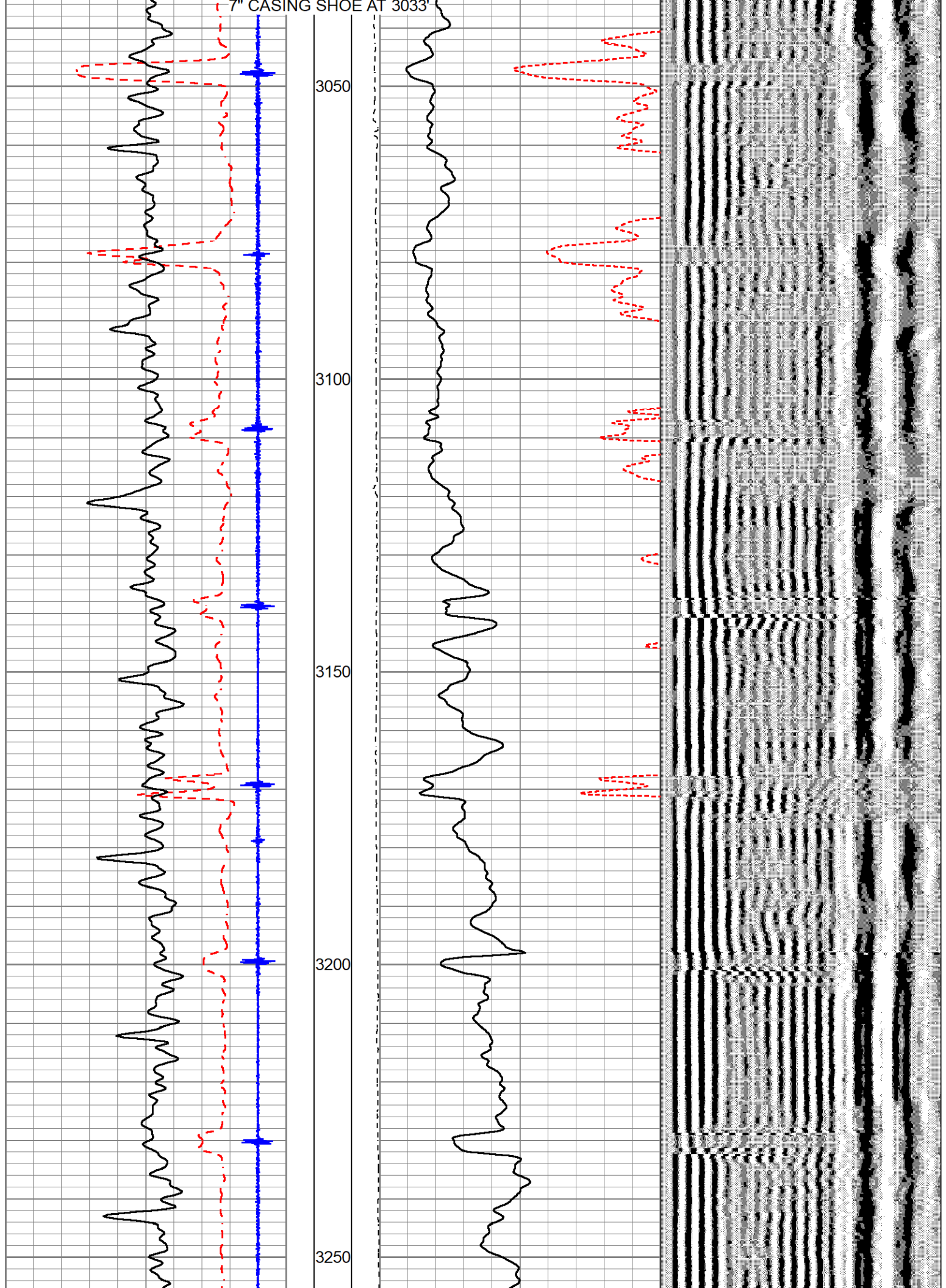


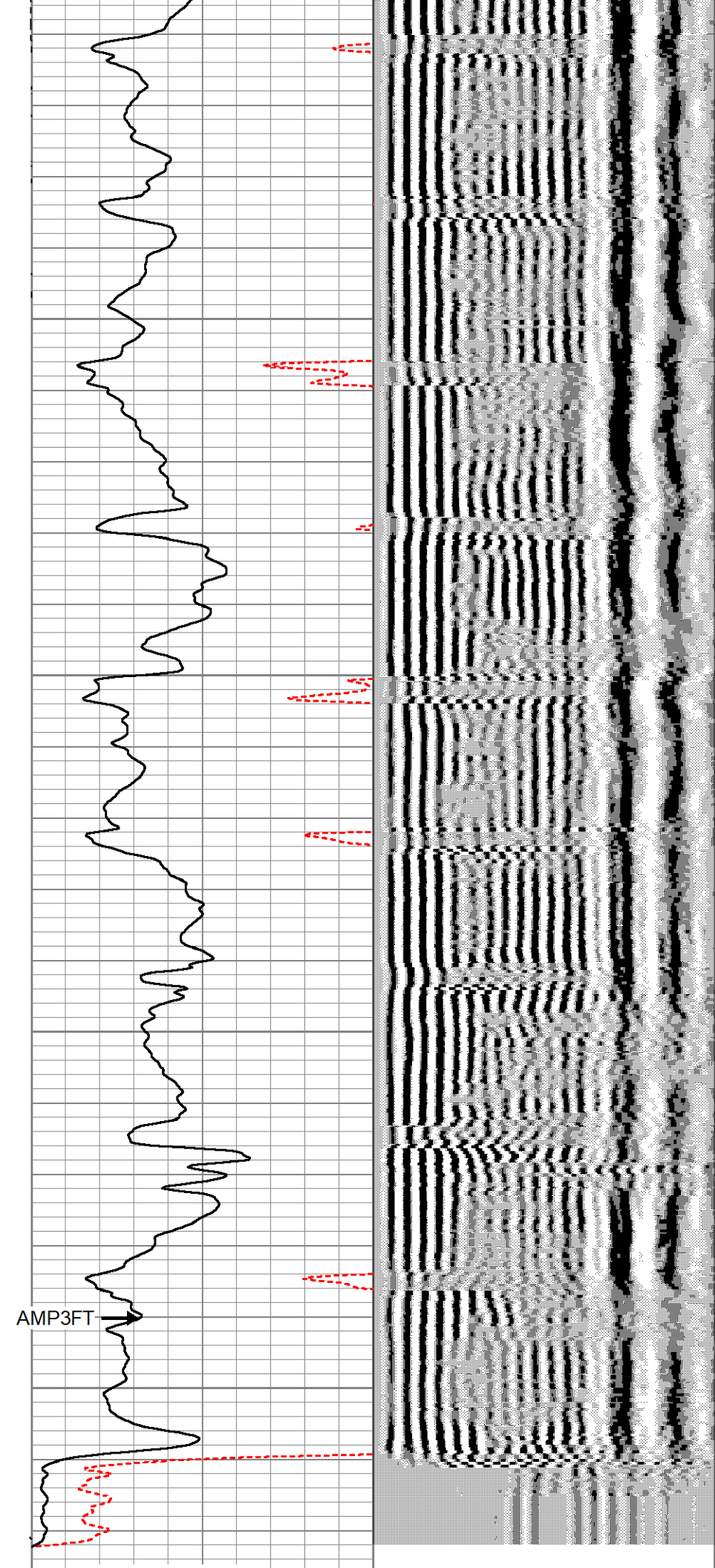
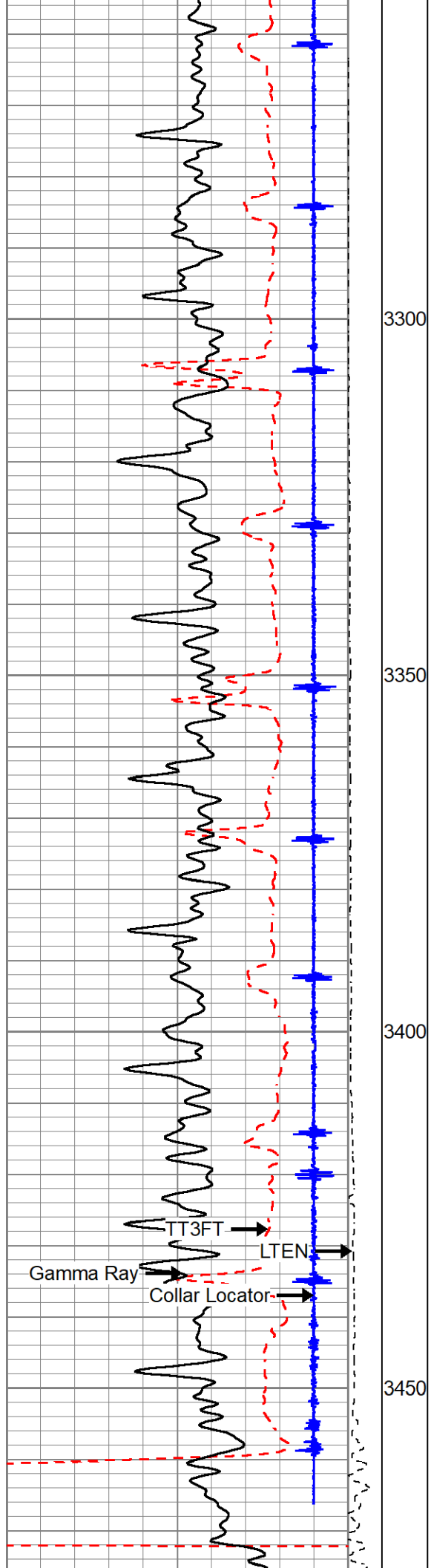
7" CASING SHOE AT 3033'





7" CASING SHOE AT 3033'





295	TT3FT (usec)	195	LTEN	0	AMP3FT X 5 (mV)	20	200	Variable Density (usec)	1200
36	Collar Locator	-4	0 (lb) 500	0	AMP3FT (mV)	100			
0	Gamma Ray	200							



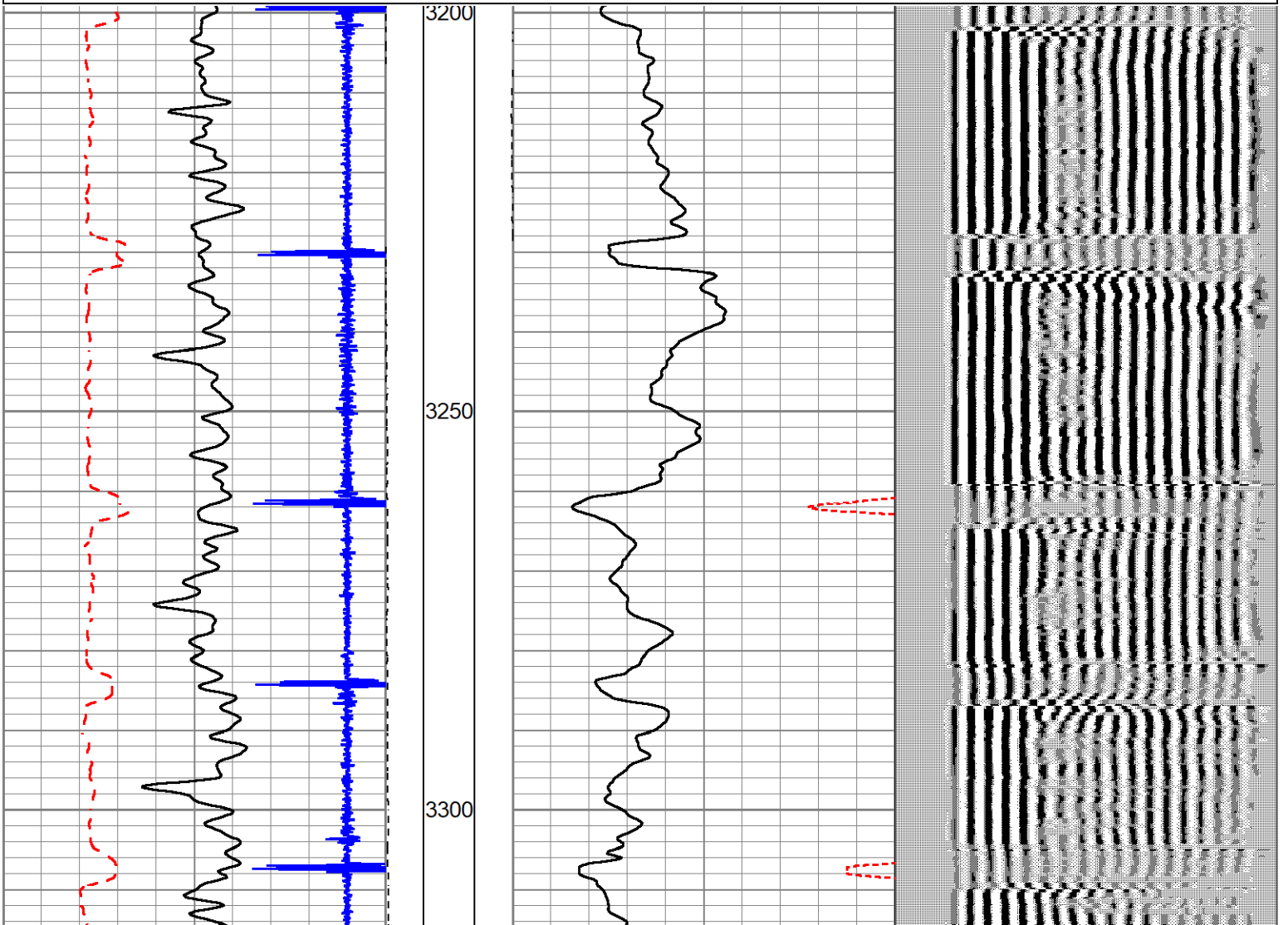
MAIN PASS

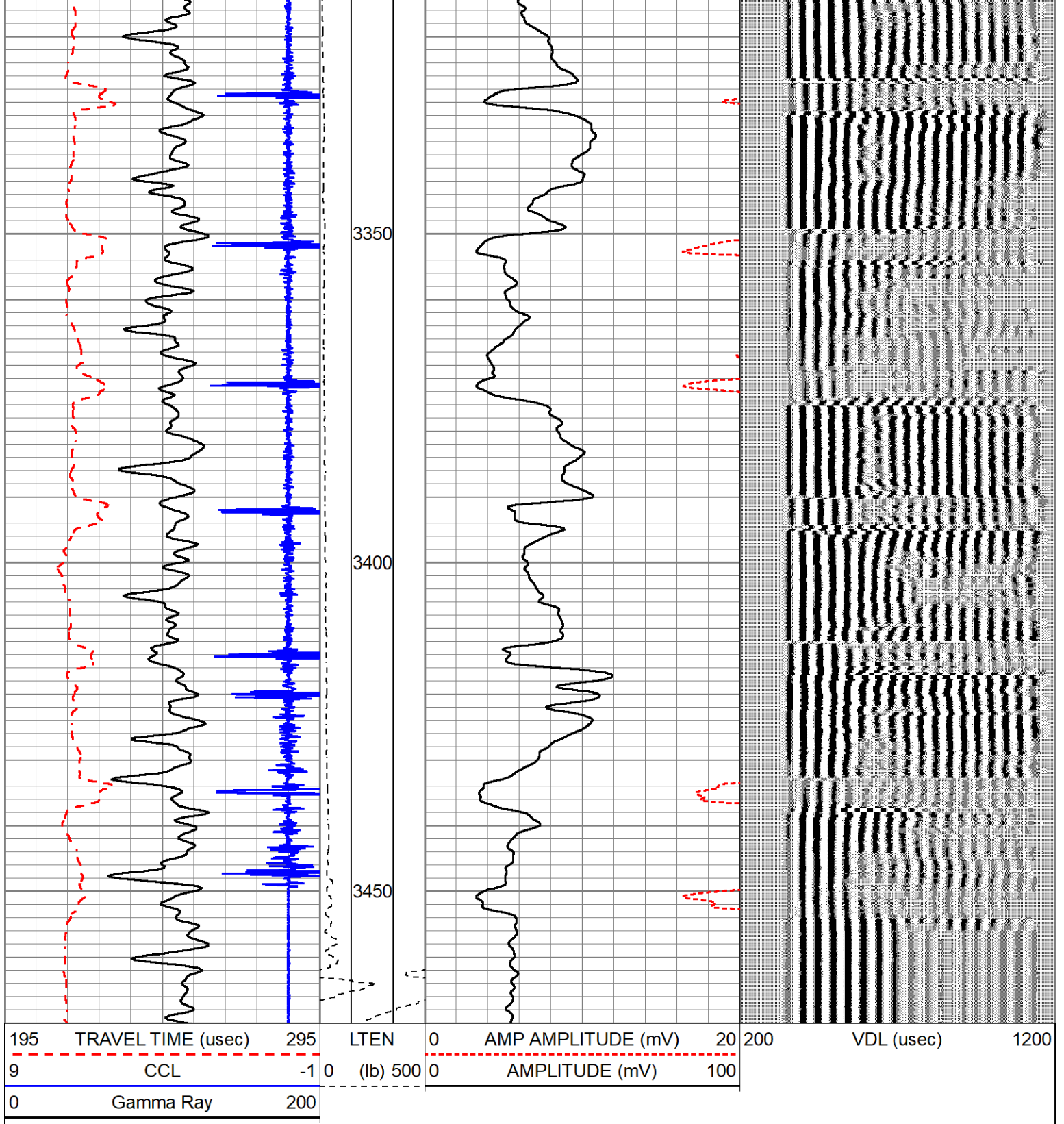


REPEAT PASS

Database File casa grande dev co laveen 1.db
 Dataset Pathname pass14
 Presentation Format cbl_drs
 Dataset Creation Tue Apr 02 09:47:51 2024
 Charted by Depth in Feet scaled 1:240

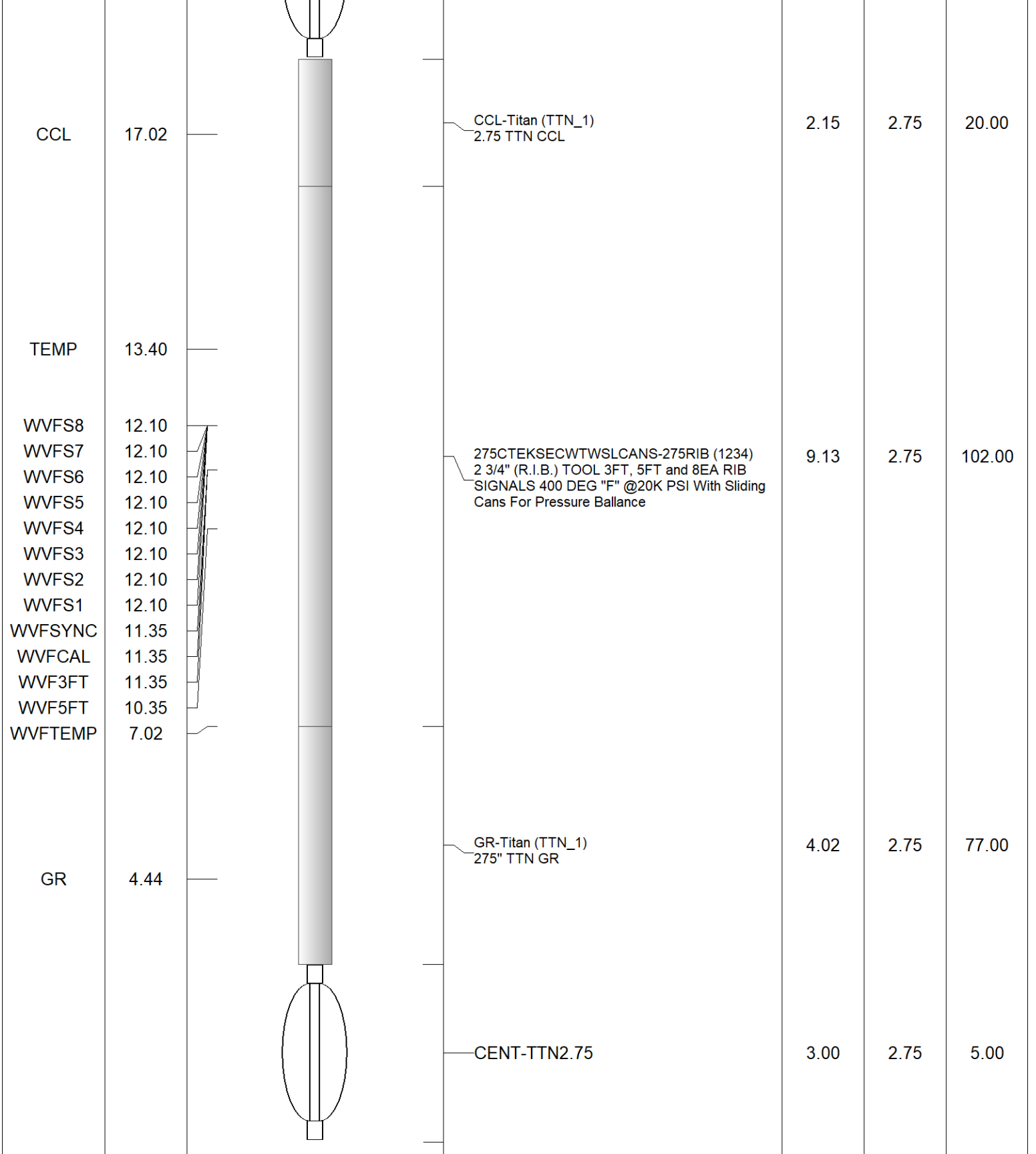
195	TRAVEL TIME (usec)	295	LTEN	0	AMP AMPLITUDE (mV)	20	200	VDL (usec)	1200
9	CCL	-1	0 (lb) 500	0	AMPLITUDE (mV)	100			
0	Gamma Ray	200							





REPEAT PASS

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CENT-TTN2.75	3.00	2.75	5.00



Dataset: casa grande dev co laveen 1.db: field/well/run1/merge4
 Total length: 21.29 ft
 Total weight: 209.00 lb
 O.D.: 2.75 in

Agenda Item 3c.i

APPLICATION TO PLUG AND ABANDON

FIELD L.M. Lockhart Babbitt #1, Gray Mountain, Arizona

OPERATOR Formerly L.M. Lockhart (orphaned) ADDRESS & PHONE N/A

LEASE NUMBER (Lessor's name if fee) N/A WELL NO. API# 02-005-05016

LOCATION Lat/Long 35.711839 -111.432733; Southeast of Gray Mountain in Coconino County, Arizona; Parcel # 302-09-005A
NE 1/4 of NE1/4 of Section 21, Township 27 North, Range 9 East

TYPE OF WELL DRY TOTAL DEPTH 3,624 ft
(Oil, Gas, or Dry)

ALLOWABLE (If Assigned) N/A

LAST PRODUCTION TEST OIL N/A (Bbls.) WATER N/A (Bbls.)
GAS N/A (MCF) DATE OF TEST N/A

PRODUCING HORIZON N/A PRODUCING FROM N/A TO N/A

1. COMPLETE CASING RECORD:

Video log of well shows steel conductor casing to 65 ft bgs and then open hole to obstruction at 762 ft bgs.

Well was initially completed with the following casing:

- 0 – 2,376 ft bgs 7-inch diameter, 10 thread lapweld casing
- 2,376 – 3,464 ft bgs 7-inch diameter, 8 round thread seamless casing

Documentation suggests that as much 7-inch casing as possible was recovered in preparation for abandonment (since well was dry and did not produce oil). A completely open hole below the 762 ft bgs obstruction is anticipated, but not known.

2. FULL DETAILS OF PROPOSED PLAN OF WORK:

P&A to comply with AAC R12-7-127B. Plugging as follows:

Plug 1 (Redwall Aquifer, 2,780'-2,630', 40 Sacks Type III Cement)

Mix 40 sacks of Type III cement and spot a balanced plug inside casing to cover the Redwall formation top.

Plug 2 (Supai Formation Top, 1,850'-1,700', 40 Sacks Type III Cement)

Mix 40 sacks Type III cement and spot a balanced plug inside casing to cover the Supai formation top.

Plug 3 (Surface Casing Shoe and Coconino Formation Top, 150'-Surface, 52 Sacks Type III Cement)

Mix 52 sacks Type III cement and spot a balanced plug inside casing to cover the Coconino formation top and the surface casing shoe.

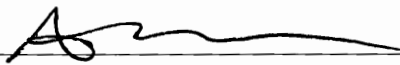
Post abandonment procedures will include:

- A marker as outlined in AAC R12-7-127 F
- Restoration as outlined in AAC R12-7-127 G
- 48 hour notification as outlined in AAC R12-7-127 H
- Filing of a plugging record within 15 days as outlined in AAC R12-7-127 I

See Attachment A for diagrams and further details

DATE COMMENCING OPERATIONS January 2024

NAME OF PERSON DOING WORK Drake Well Services ADDRESS 607 W. Pinon St, Farmington, NM 87401



Signature
Abra Bentley, RG, President, Hydro Geo Chem, Inc.

Title
51 W Wetmore Road Tucson, AZ 85705

Address
12/14/24

Date

Mail one copy of completed form to:
Oil and Gas Program Administrator
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007
email one copy to: ogcc@azdeq.gov

Date Approved _____
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Plug and Abandon
File two copies: one by mail, one electronically
Form No. 9

Attachment A

Plug And Abandonment Procedure

L.M. Lockhart, Babbit #001

API 02-005-05016

660' FNL & 660' FEL, Section 21, 27N, 9E

Coconino County, AZ

1. Hold pre-job safety meeting. Comply with all Arizona safety and environmental regulations. Test rig anchors prior to moving in rig if not rigged to base beam or outriggers.
2. Perform spiral gas check. Check casing, tubing and Bradenhead pressures.
3. Remove existing piping on casing valve. Rig up blow lines from casing valves and begin blowing down casing pressure. Kill well as necessary. Ensure well is dead or on a vacuum.
4. Nipple down wellhead and nipple up blow out preventer (BOP). Function test BOP.
5. Pick up appropriate bit on 2-3/8" work string. Rig up power swivel. Drill out soil blockage at 762'. Round trip to 2780'.
6. Rig up to pump cement down tubing. Pump water to establish rate down tubing.
7. Circulate wellbore.

NOTE: All Plugs Include 50' excess.

8. Plug 1 (**Redwall Aquifer, 2,780'-2,630', 40 Sacks Type III Cement**)
Mix 40 sacks of Type III cement and spot a balanced plug inside casing to cover the Redwall formation top.
9. Plug 2 (**Supai Formation Top, 1,850'-1,700', 40 Sacks Type III Cement**)
Mix 40 sacks Type III cement and spot a balanced plug inside casing to cover the Supai formation top.
10. Plug 3 (**Surface Casing Shoe and Coconino Formation Top, 150'-Surface, 52 Sacks Type III Cement**)
Mix 52 sacks Type III cement and spot a balanced plug inside casing to cover the Coconino formation top and the surface casing shoe.
11. Nipple down cementing valves and cut off wellhead. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. Rig down, move off location and restore location per BLM stipulations.

Proposed Wellbore Diagram

L.M. Lockhart
Babbit #001
API: 02-005-05016
Coconino County, AZ

Plug 3
150 feet - Surface
150 foot plug
52 Sacks of Type III Cement

Plug 2
1850 feet - 1700 feet
150 foot plug
40 sacks of Type III Cement

Plug 1
2780 feet - 2630 feet
150 foot plug
40 sacks of Type III Cement

Perforations
N/A

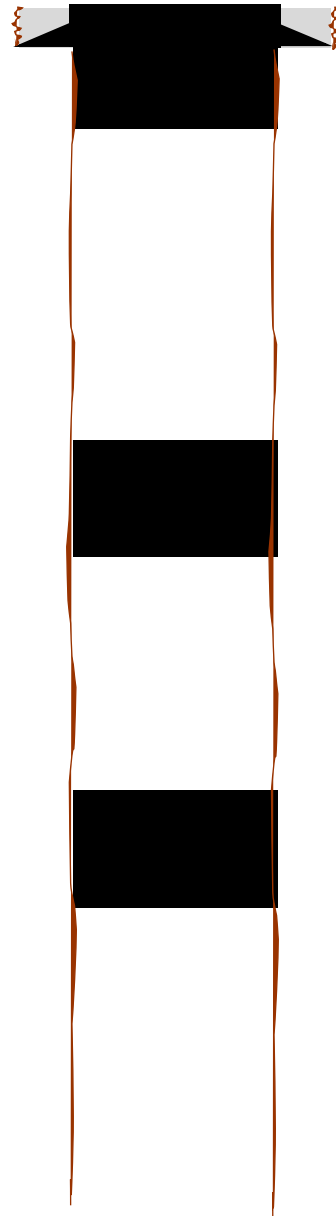
Surface Casing
12.75" to 65'
OH: Unknown

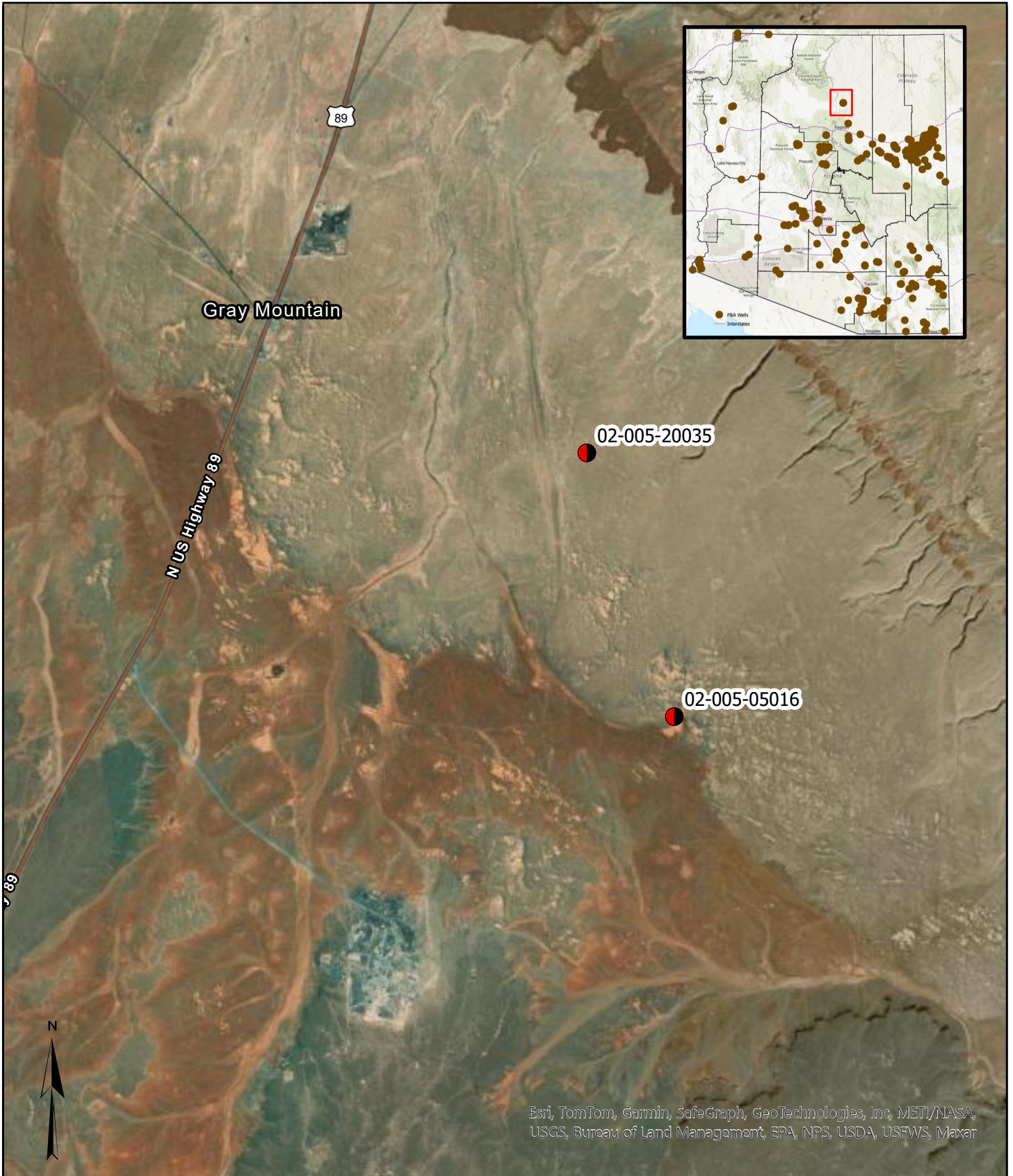
Estimated Formations
Coconino - 65'
Supai - 1800'
Redwell - 2730'
Temple Butte - 3100'
Tapeats - 3364'
Quartzite - 3523'
Pre-Cam - 3570'
Granite - 3622'

Water at 1300'

Production Casing (Removed)
7" to 3464 feet

Open Hole
≈8.75" to 3624
0.04176 cu-ft/ft






Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, USDA, USFWS, Maxar

0 0.5 1 1.5 2 Miles

Legend ● Well Locations



HYDRO GEO CHEM, INC.
Environmental Science & Technology

P&A WELL LOCATION - API 02-005-05016			
API Well #02-005-05016 Well Plug and Abandon Coconino County, Arizona			
Author MSM	Date 12/17/24	File Reference 2022023170G_SiteMap_05016	Figure 1

Agenda Item 3.c.ii

APPLICATION TO PLUG AND ABANDON

FIELD Holbrook

OPERATOR Lydia Johnson (now orphan) ADDRESS & PHONE _____

LEASE NUMBER (Lessor's name if fee) _____ WELL NO. 02-017-60009

LOCATION SW ¼ of the NE ¼ of Section 33, Township 14 North, Range 20 East

TYPE OF WELL Dry TOTAL DEPTH 1,540'
(Oil, Gas, or Dry)

ALLOWABLE (If Assigned) _____

LAST PRODUCTION TEST OIL _____ (Bbls.) WATER _____ (Bbls.)

GAS _____ (MCF) DATE OF TEST _____

PRODUCING HORIZON _____ PRODUCING FROM _____ TO _____

1. COMPLETE CASING RECORD:

10" set at 10'
4.5" at 1,500'

2. FULL DETAILS OF PROPOSED PLAN OF WORK:

Well was abandoned with heavy mud which dehydrates and causes channeling. Drill out mud from surface to PBTD of 1,540'

Plug 1: 1,540'-1,440' (Ft. Apache)

Plug 2: 645'-545' (Coconino)

Plug 3: Surface - 545' attempting to fill annular along with casing

Post abandonment procedures will include:

- A marker as outlined in AAC R12-7-127 F
- Restoration as outlined in AAC R12-7-127 G
- 48 hour notification as outlined in AAC R12-7-127 H
- Filing of a plugging record within 15 days as outline in AAC R12-7-127 I

DATE COMMENCING OPERATIONS Jan 10, 2025

NAME OF PERSON DOING WORK Drake Energy Services ADDRESS 607 W Pinon St, Farmington, NM 87401



Signature
Petroleum Engineer

Title
4650 E Cotton Center Blvd, Suite 110, Phoenix, AZ 85040

Address
12/16/2024
Date

Mail one copy of completed form to:

Oil and Gas Program Administrator
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007

email one copy to: ogcc@azdeq.gov

Date Approved _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Application to Plug and Abandon

File two copies: one by mail, one electronically

Form No. 9

Permit No. AZOGCC:0097

Proposed Wellbore Diagram

Lydia Johnson
Aztec #002
API: 02-017-60009
Navajo County, Arizona

Plug 2
150 feet - Surface
150 foot plug
24 Sacks of Type III Cement

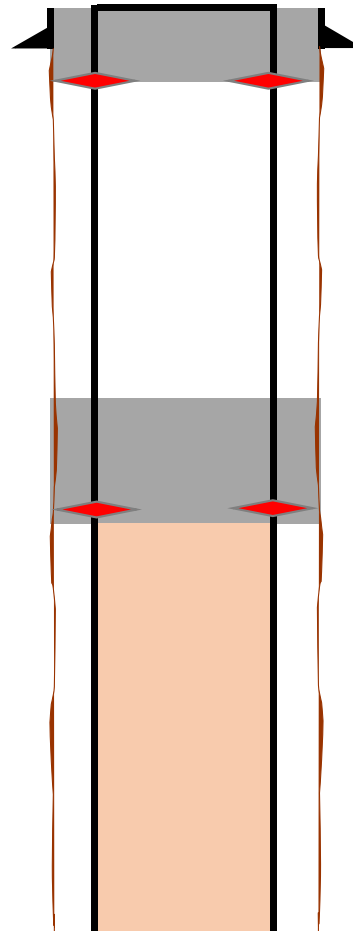
Surface Casing
10.75" 40.5# to 10'
OH: ≈12.75"

Formation
Coconio - 555 feet
Salt - 715 feet

Plug 1
765 feet - 455'
310 foot plug
50 Sacks of Type III Cement

Perforations
N/A

Production Casing
4.5" 9.5# to 1500'
OH: 6.25"



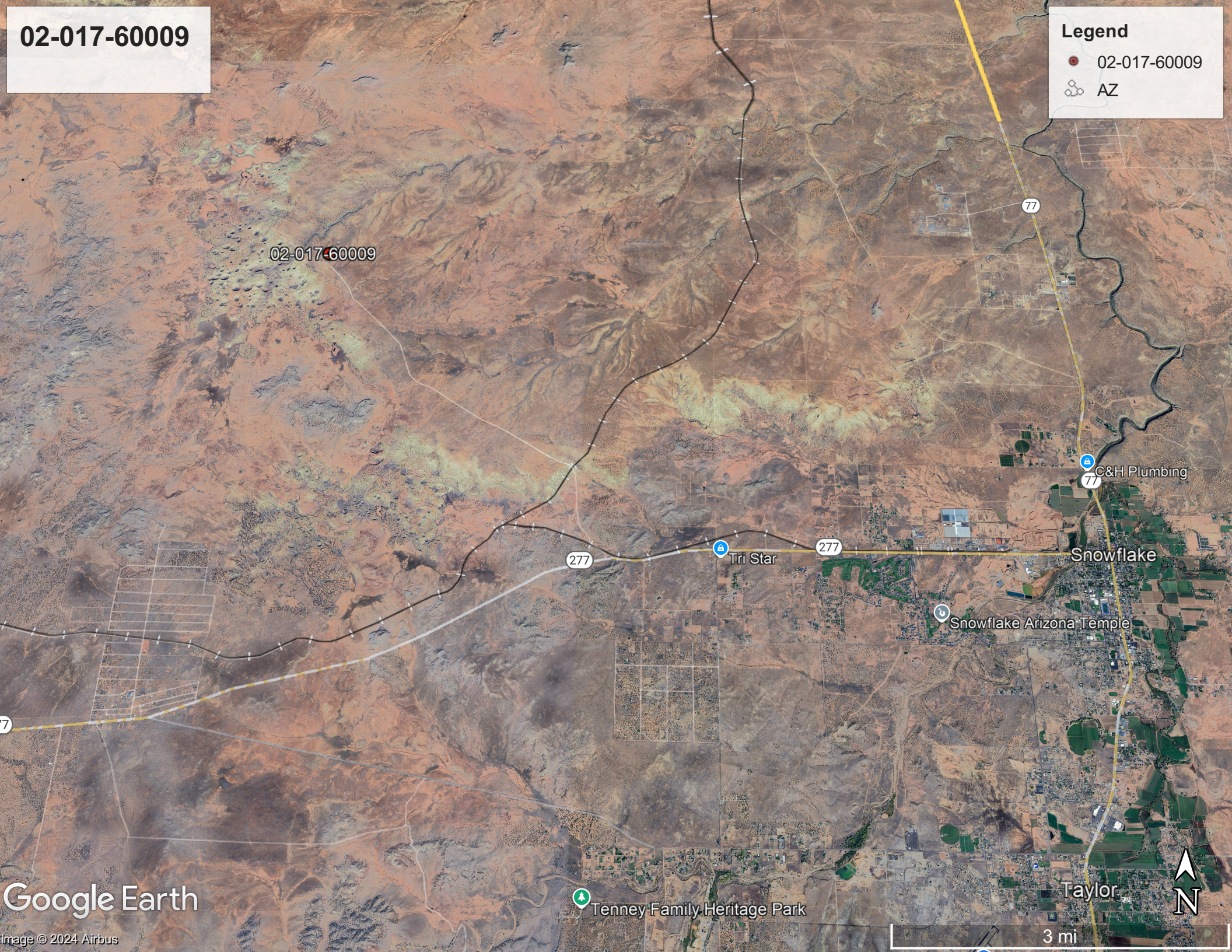
Heavy Mud Abandonment
Drilled out to 765"

02-017-60009

Legend

- 02-017-60009
- ⊞ AZ

02-017-60009



Google Earth

Image © 2024 Airbus

Tenney Family Heritage Park

3 mi



02-017-60009

Legend

- 02-017-60009
- ⊞ AZ

02-017-60009

Google Earth

Image © 2024 Airbus

Rocking

1000 ft



Agenda Item 3.c.iii

APPLICATION TO PLUG AND ABANDON

FIELD Holbrook

OPERATOR Union and Continental Oil (now orphan) ADDRESS & PHONE _____

LEASE NUMBER (Lessor's name if fee) _____ WELL NO. 02-017-05021

LOCATION SW NE Sec. 34,15N-19E

TYPE OF WELL Dry TOTAL DEPTH 3,609'
(Oil, Gas, or Dry)

ALLOWABLE (If Assigned) _____

LAST PRODUCTION TEST OIL _____ (Bbls.) WATER _____ (Bbls.)

GAS _____ (MCF) DATE OF TEST _____

PRODUCING HORIZON _____ PRODUCING FROM _____ TO _____

1. COMPLETE CASING RECORD:

10-3/4" @ 336'

Well has existing plugs 1,800'-1,900' and 575'-650' with steel cap on casing at surface

2. FULL DETAILS OF PROPOSED PLAN OF WORK:

Tag existing plug at 575'
Set plug from 575'-495' (Coconino), water zone needs abandoned properly
Plug 2: pump from surface-495'

- Post abandonment procedures will include:
- A marker as outlined in AAC R12-7-127 F
 - Restoration as outlined in AAC R12-7-127 G
 - 48 hour notification as outlined in AAC R12-7-127 H
 - Filing of a plugging record within 15 days as outline in AAC R12-7-127 I

DATE COMMENCING OPERATIONS Jan 10, 2024

NAME OF PERSON DOING WORK Drake Energy Services ADDRESS 607 W Pinon St, Farmington, NM 87401



Signature
Petroleum Engineer

Title
4650 E Cotton Center Blvd, Suite 110, Phoenix, AZ 85040

Address
12/16/2024

Date

Date Approved _____
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Plug and Abandon
File two copies: one by mail, one electronically
Form No. 9

Permit No. AZOGCC:09-08

Proposed Wellbore Diagram

Union Continental
Arizona #001
API: 02-017-05021
Navajo County, Arizona

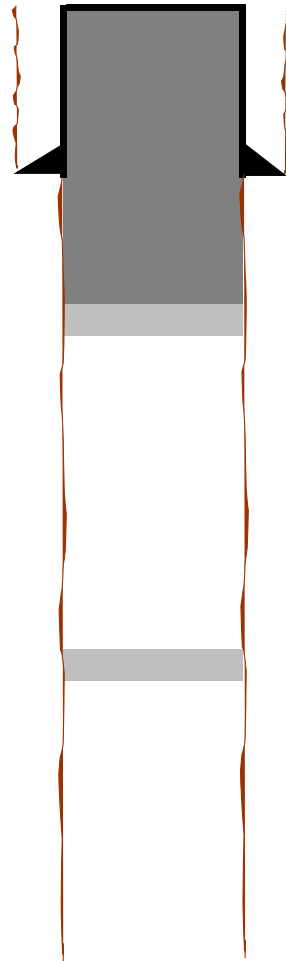
Surface Casing
10.75" 40.5# to 336'
OH: ≈12.75"

Formation
Coconio - 560 feet
Penn - 3096 feet
Red wall - 3577 feet
Granite - 3607 feet

Plug 1
575 feet - Surface
575 foot plug
212 Sacks of Type III Cement

Open Hole
9" Hole Drilled to 3609'

Perforations
N/A



Existing plug 650' to 575'

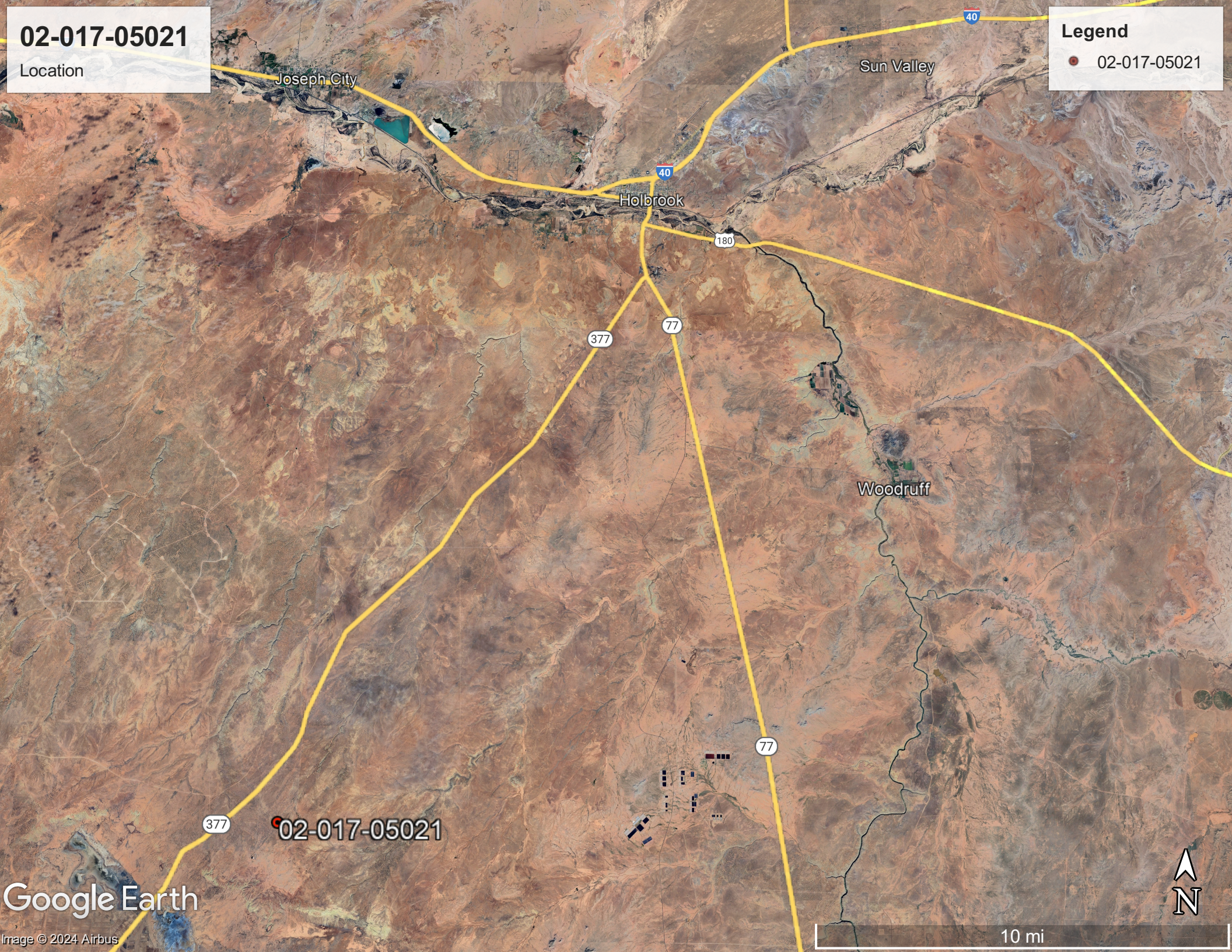
Existing plug 1900' to 1800'

02-017-05021

Location

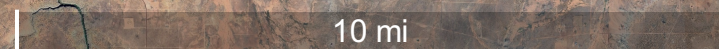
Legend

● 02-017-05021



Google Earth

Image © 2024 Airbus

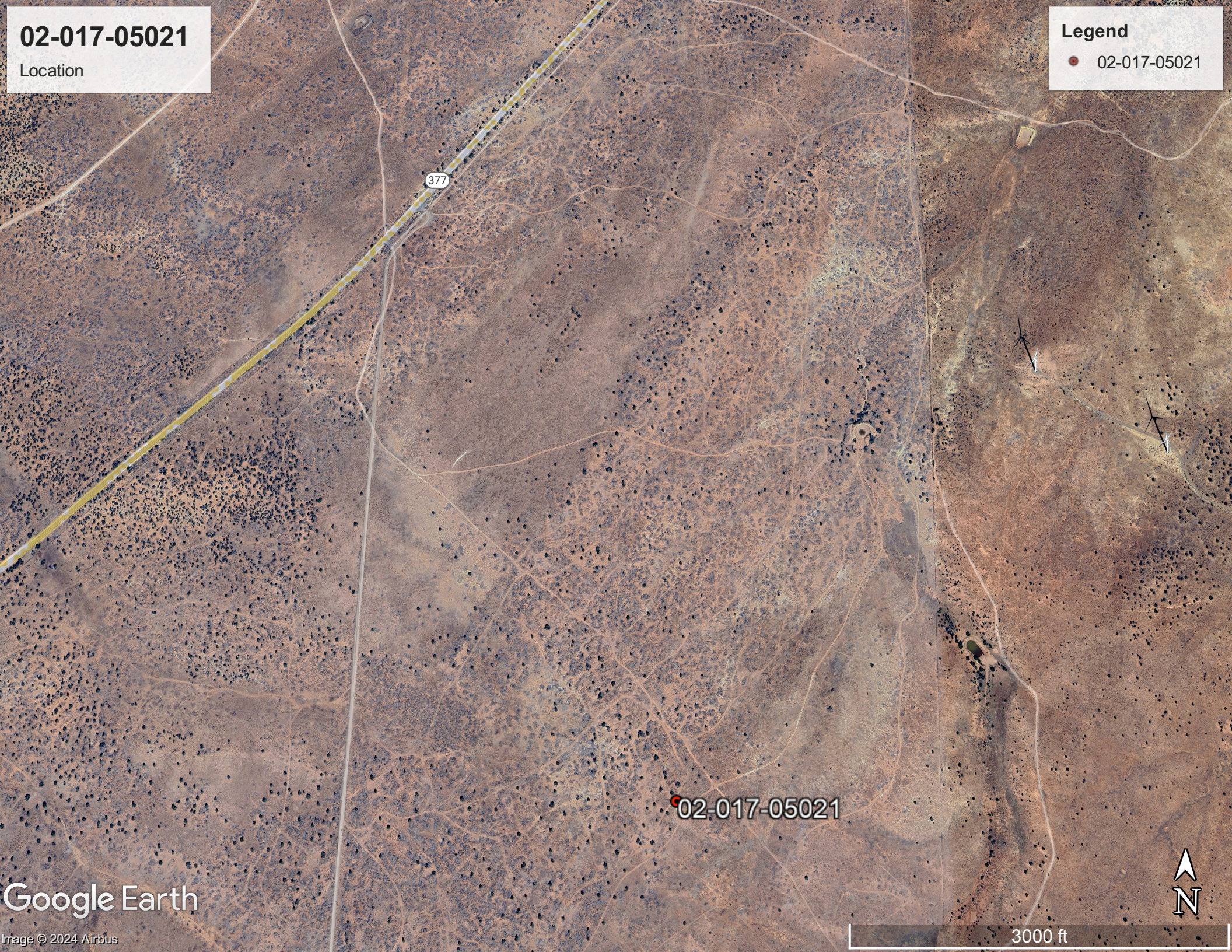


02-017-05021

Location

Legend

- 02-017-05021



Google Earth

Image © 2024 Airbus

3000 ft



Agenda Item 3.c.iv

APPLICATION TO PLUG AND ABANDON

FIELD Holbrook

OPERATOR Union and Continental Oil (now orphan) ADDRESS & PHONE _____

LEASE NUMBER (Lessor's name if fee) _____ WELL NO. 02-017-05153

LOCATION NE NE Sec. 19,15N-18E

TYPE OF WELL Dry TOTAL DEPTH 3,850'
(Oil, Gas, or Dry)

ALLOWABLE (If Assigned) _____

LAST PRODUCTION TEST OIL _____ (Bbls.) WATER _____ (Bbls.)

GAS _____ (MCF) DATE OF TEST _____

PRODUCING HORIZON _____ PRODUCING FROM _____ TO _____

1. COMPLETE CASING RECORD:

10-3/4" @ 747'

Well has existing plug from 750'-850' with steel cap on casing at surface

2. FULL DETAILS OF PROPOSED PLAN OF WORK:

Tag existing plug at 750', test casing
Plug: pump from surface-750' to cover Coconino

- Post abandonment procedures will include:
- A marker as outlined in AAC R12-7-127 F
 - Restoration as outlined in AAC R12-7-127 G
 - 48 hour notification as outlined in AAC R12-7-127 H
 - Filing of a plugging record within 15 days as outline in AAC R12-7-127 I

DATE COMMENCING OPERATIONS Jan 10, 2024

NAME OF PERSON DOING WORK Drake Energy Services ADDRESS 607 W Pinon St, Farmington, NM 87401



Signature
Petroleum Engineer

Title
4650 E Cotton Center Blvd, Suite 110, Phoenix, AZ 85040

Address
12/17/2024

Date

Mail one copy of completed form to:

Oil and Gas Program Administrator
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007

email one copy to: ogcc@azdeq.gov

Date Approved _____
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By _____

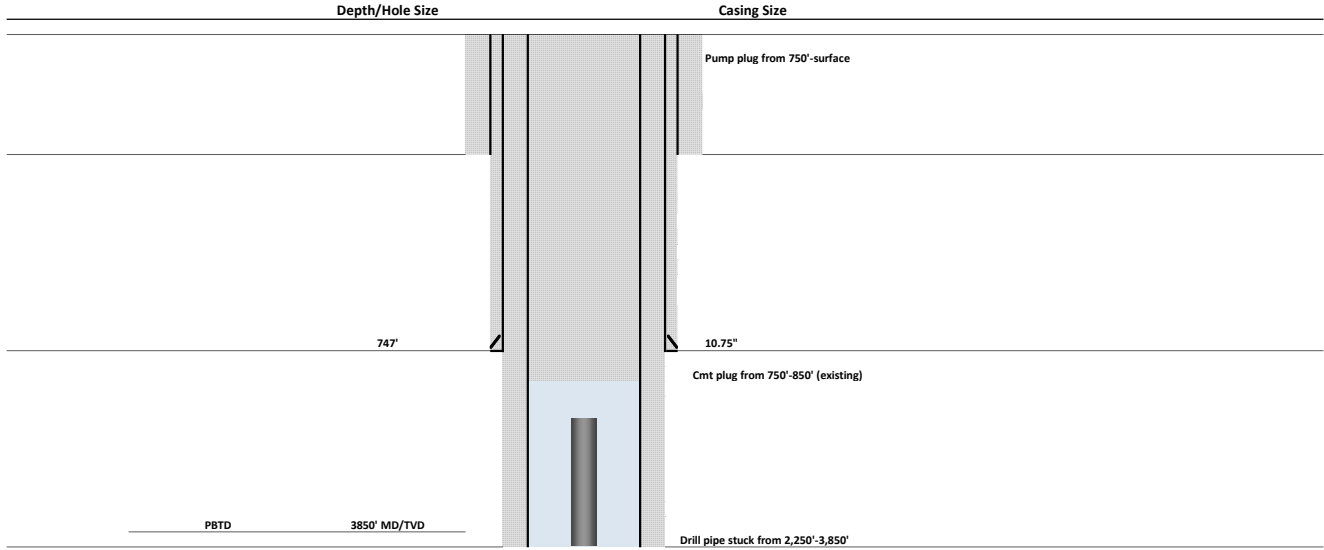
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Plug and Abandon
File two copies: one by mail, one electronically

Form No. 9

Permit No. AZOGCC:09-05

WELL DIAGRAM
Aztec Land and Cattle Company #1
API: 02-017-05153

MTS 12-14-24



02-017-05153

Location

Legend

- 02-017-05153

02-017-05153

Dry Lake

377



2 mi

Google Earth

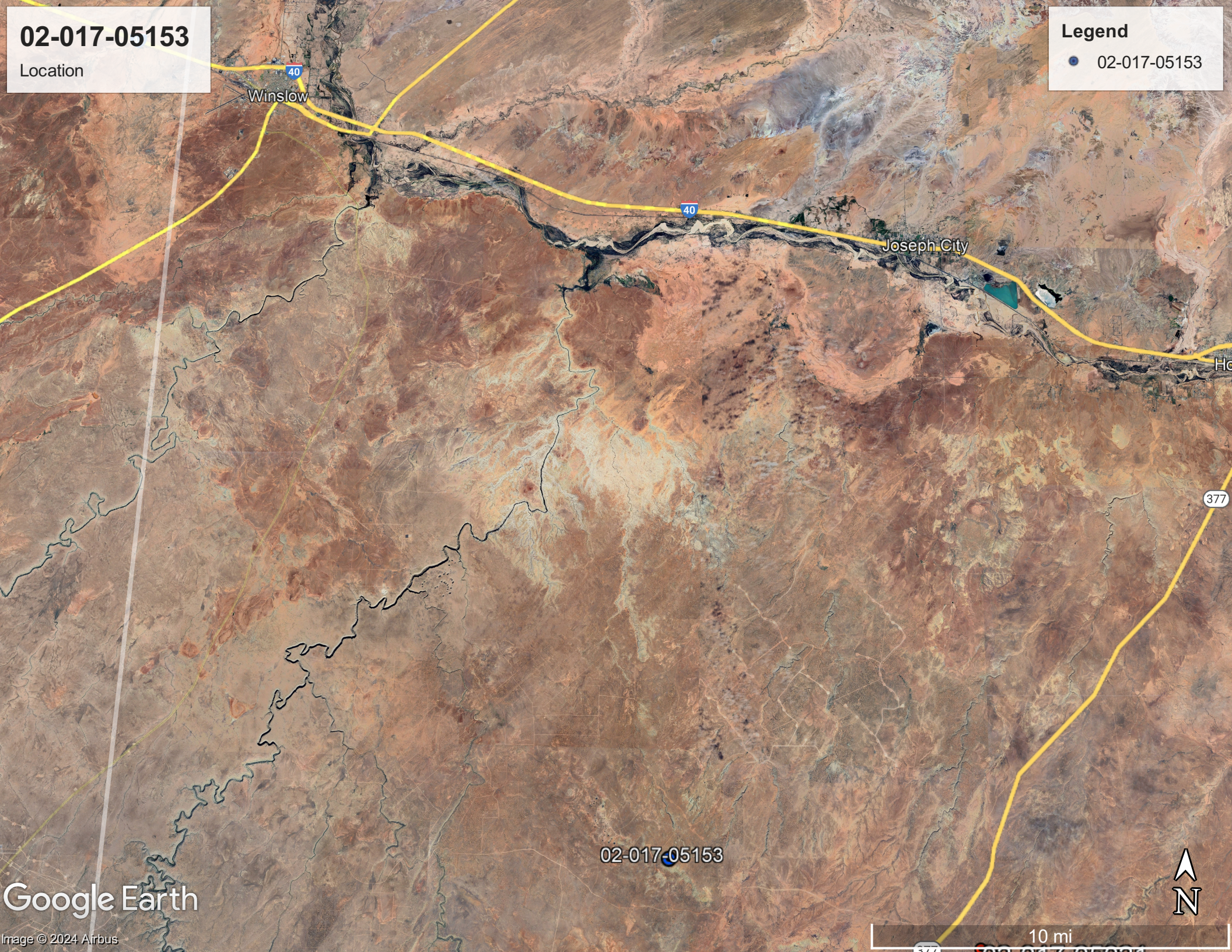
Image © 2024 Airbus

02-017-05153

Location

Legend

- 02-017-05153



Winslow

40

Joseph City

377

02-017-05153

Google Earth

Image © 2024 Airbus



10 mi