

Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-25457
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator Empire New Mexico LLC		6. State Oil & Gas Lease No. B-934-0016
3. Address of Operator 2200 S. Utica Place, Suite 150, Tulsa, Oklahoma 74114		7. Lease Name or Unit Agreement Name New Mexico S State
4. Well Location Unit Letter _____ : _____ 330 _____ feet from the _____ North _____ line and _____ 1980 _____ feet from the _____ West _____ line Section 02 Township 22S Range 37E NMPM Lea County		8. Well Number #037
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3371		9. OGRID Number #330997
		10. Pool name or Wildcat Wantz; Abo

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☒ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Assess casing pressure and perforate from 7,320' to 7,330' and 7,338' to 7,340'.

Spud Date:

May 23, 2022

Rig Release Date:

May 28, 2022

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Joshua C. Cornell

TITLE Vice President – Land

DATE May 13, 2022

Type or print name Joshua C. Cornell

E-mail address: josh@empirepetrocorp.com

PHONE: 918-218-4383

For State Use Only

APPROVED BY:

Kerry Fortner

TITLE

Compliance Officer A

DATE 6/14/22

Conditions of Approva

NM S STATE #37 WELLBORE DIAGRAM

COUNTY/STATE: LEA, NM
LEASE: BLBR-DKRD-TUBB
CURRENT STATUS: ACTIVE
COMPL. DATE:
AP. No. 30-025-25457



SEC. 2, T. 22S & R. 37E

DATA

LOCATION: 330 FNL & 1990 FWL, SEC. 2, T. 22S & R. 37E
COUNTY/STATE: LEA, NM
FIELD: BLBR-DKRD-TUBB
FORMATION: ABO/GRANITE WASH
SPUD DATE: 03/24/77
API#: 30-025-25457
COMPLETION DATE: 05/13/77
STATUS: ACTIVE
IP:

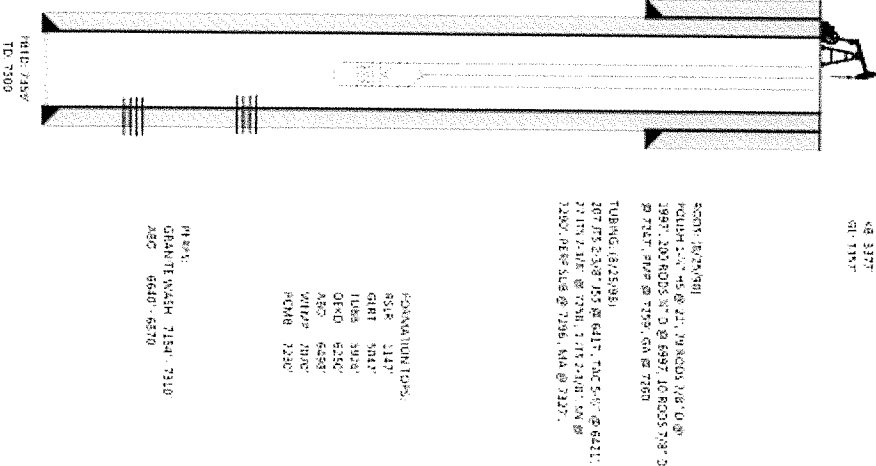
WELL HISTORY

COMPLETION DATA:

04/25/77: PERF GRANITE WASH F7154' - 7310' (29 SHOTS) AND ABO F16640' - 6870' (81 SHOTS) AC GRN WSH W/1075 GALS AND ABO W/2325 GALS. FRAC GRN WSH W/40,000 GALS + 46,000# SD AND ABO W/30,000 GALS + 30,000# SD.

WORKOVER HISTORY:

11/02/90: PERF F16606' - 7070' (78 SHOTS) AC FRAC W/17,500 GALS AC + 5250 GALS 15% HCL
11/12/90: RIH W/PMP & RODS SN @ 7291'.
04/24/98: RODS PARTED 3 RODS DWN. 7/8" BOC BREAK. FISH AND CHNG THE PMP. RUN BACK W/1.25 PMP.
08/25/98: PULLED RODS & TBG FOR A HOLE IN THE TBG. HOLE WAS 5 JTS ABOVE SN. RUN BACK IN HOLE W/1.25 PMP.
08/15/03: POOH W/RODS & PMP. HEAVY PARAFFIN TRT. RIH W/RODS & PMP. RWTP.
08/22/06: REPLACE PMP W/2-1.25-RHBC-12-4-34



PERF:
GRANITE WASH 7154' - 7310'
ABO 6640' - 6870'

RIH: 7154'
TD: 7310'

NM S STATE #37 WELLBORE DIAGRAM

COUNTY/STATE: LEA, NM
LEASE: BLBR/DRKD-TUBB
CURRENT STATUS: ACTIVE
COMPL. DATE:
AP. No. 30-025-25457



SEC. 2, T. 22S & R. 37E

DATA

LOCATION: 330 FNL & 1990 FWL, SEC. 2, T. 22S & R. 37E
COUNTY/STATE: LEA, NM
FIELD: BLBR-DRKD-TUBB
FORMATION: ABO/GRANITE WASH
SPUD DATE: 03/24/77
API#: 30-025-25457
STATUS: ACTIVE
IP:

46 3377
01 1157

COMPLETION DATA:

WELL HISTORY

04/25/77: PERF GRANITE WASH F7154' - 7310' (29 SHOTS) AND ABO F16640' - 6870' (81 SHOTS) AC GRN WSH W/1075 GALS AND ABO W/2325 GALS. FRAC GRN WSH W/40,000 GALS + 46,000# SD AND ABO W/30,000 GALS + 30,000# SD.

WORKOVER HISTORY:

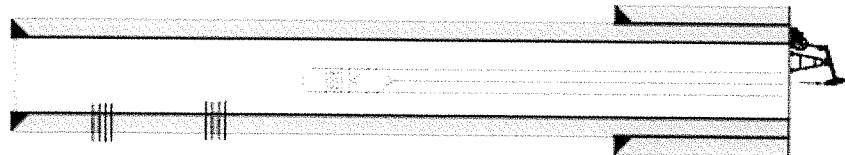
11/02/90: PERF F16606' - 7070' (78 SHOTS) AC FRAC W/17,500 GALS AC + 5250 GALS 15% HCL
11/12/90: RH W/PMP & RODS SN @ 7291'.
04/24/98: RODS PARTED 3 RODS DWN. 7/8" BOC BREAK. FISH AND CHNG THE PMP. RUN BACK W/1.25 PMP.
08/25/98: PULLED RODS & TBG FOR A HOLE IN THE TBG. HOLE WAS 5 JTS ABOVE SN. RUN BACK IN HOLE W/1.25 PMP.
08/15/03: POOH W/RODS & PMP. HEAVY PARAFFIN TRT. RH W/RODS & PMP. RWTP.
08/22/06: REPLACE PMP W/2-1.25-RHBC-12-4-34

ECOM: 16/75/981
HOLE: 547' 46" @ 2.1" W/ACOS 1/8" O.D.
1997: 300 RODS W/2" @ 6897' 10 RODS 7/8" @ 7157' 917' @ 7159' 601' @ 7260'
TUBING: 1815/981
207 F5-5/8" 705' @ 6417' TMC 5/8" @ 6421'
217 F5-5/8" @ 7058' 1 1/4" 2-1/8" SN @ 7260' PERE-SLB @ 7296' NA @ 7327'

CONNECTION LOSS:
654' 1147'
6481' 5047'
11663 5045'
04100 6250'
ABO 6483'
W/117' 7040'
PMP# 1230'

PERF:
GRANITE WASH 7154' - 7310'
ABO 6640' - 6870'

HOLE: 7157'
TD: 7300'





QUAD NEUTRON

Thru Casing

Company				EMPIRE NEW MEXICO			
Well				NEW MEXICO S STATE 037			
Field				EUNICE MONUMENT			
Country				UNITED STATES			
State				LEA			
Location		30-025-25457		Other Services		NONE	
Well License		309971					
Permanent Datum		Ground Level		Elevation		0.00 ft	
Log Measured From		Kelly Bushing		12 ft above P.D.		K.B. 3377.00 ft	
Drilling Measured From		Kelly Bushing				G.L. 0.00 ft	
Date		28-Feb-2022		CWI			
Job Code #		220228-RG1		Third Party Ref. #			
AFE #				Cement Top		N/A	
Depth Driller		7500.00 ft		Type Fluid		Water	
PBTD Logger		7403.00 ft		Fluid Level		N/A	
Btm Log Interval		7395.88 ft		Wellhead Pressure		80 psi	
Top Log Interval		6200.00 ft		Max. Temp.		119.9 °F	
Date / Time RIH		28-Feb-2022		Maximum Deviation		0	
Rig Time (hh:mm)		5:00		Hoist Unit #		BFS-01	
Recorded By		Rob Gierman		Unit Location		Burton, TX	
Witnessed By		Toby Holland		Latitude/Longitude			
Wellbore Information							
Type		Size (in)		WT (lb/ft)		From (ft)	
Intermediate Casing		7.00		20		0.00	
						7500.00	

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, 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.

Comments

Log is not depth correlated, no reference data ia available.

TOOL DIAGRAM

NEW MEXICO S STATE 037

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CableHeadSub QuadV2 to BOI Cable Head Sub	0.75	1.69	3.00
			QUADV2_TCA17 QuadV2 Telemetry Combo A	6.46	1.69	28.00
UHT	15.35					
UBRM	15.35					
GR	13.98					
FGR	12.24					
CCL	9.42					
			QUADV2_MNA15 QuadV2 MN Section	6.99	1.69	31.99
LNG						
SNG						
SNN						
LNN						
BHT	0.43		QUADV2_BHTA05 Sensors For Processing	1.57	1.69	6.00
BHRM	0.43					

Dataset: QuadV2
Total Length: 15.77 ft
Total Weight: 68.99 lb
O.D.: 1.69 in



MD Main Pass

NEW MEXICO S STATE 037

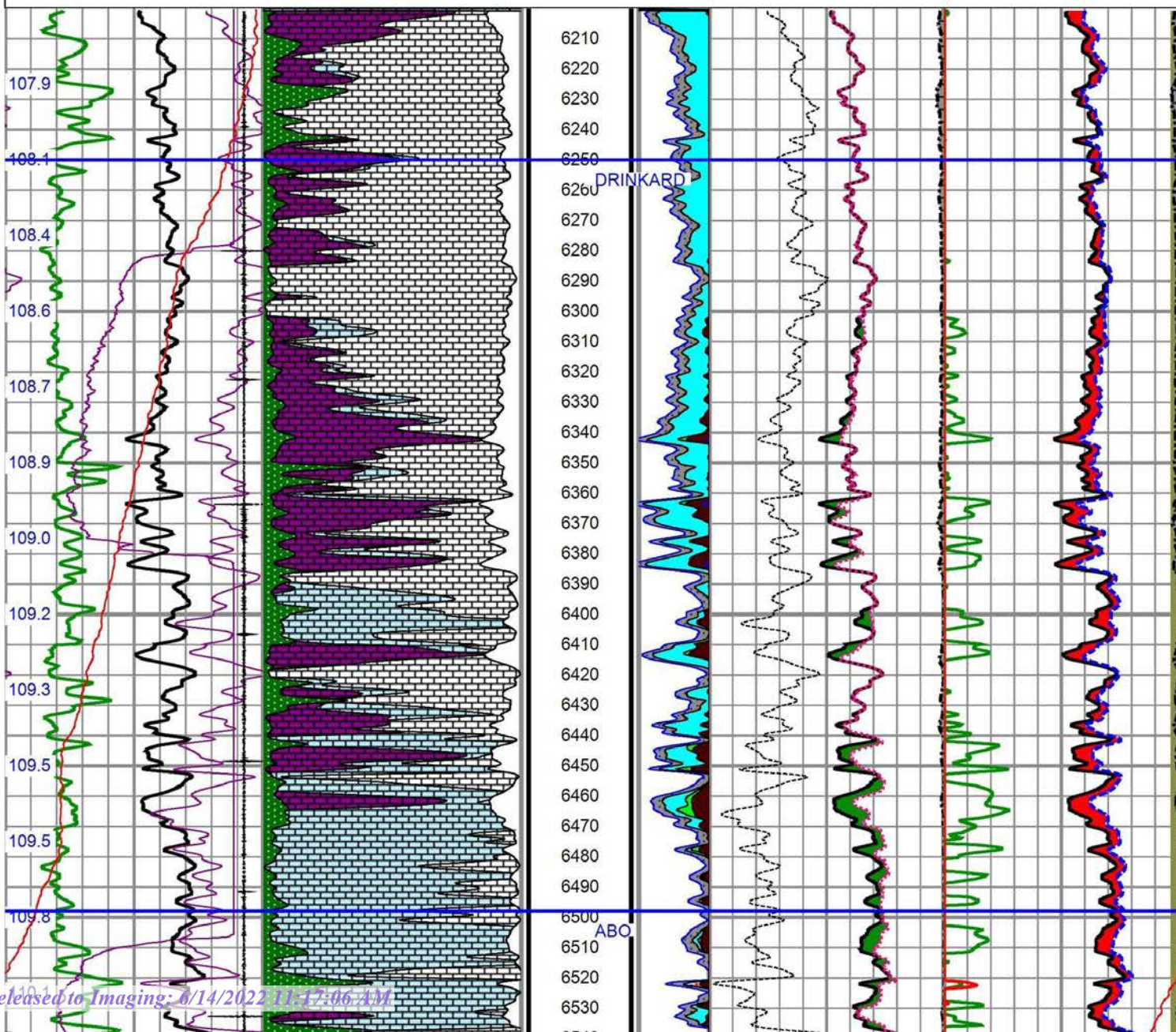
Measured Depth

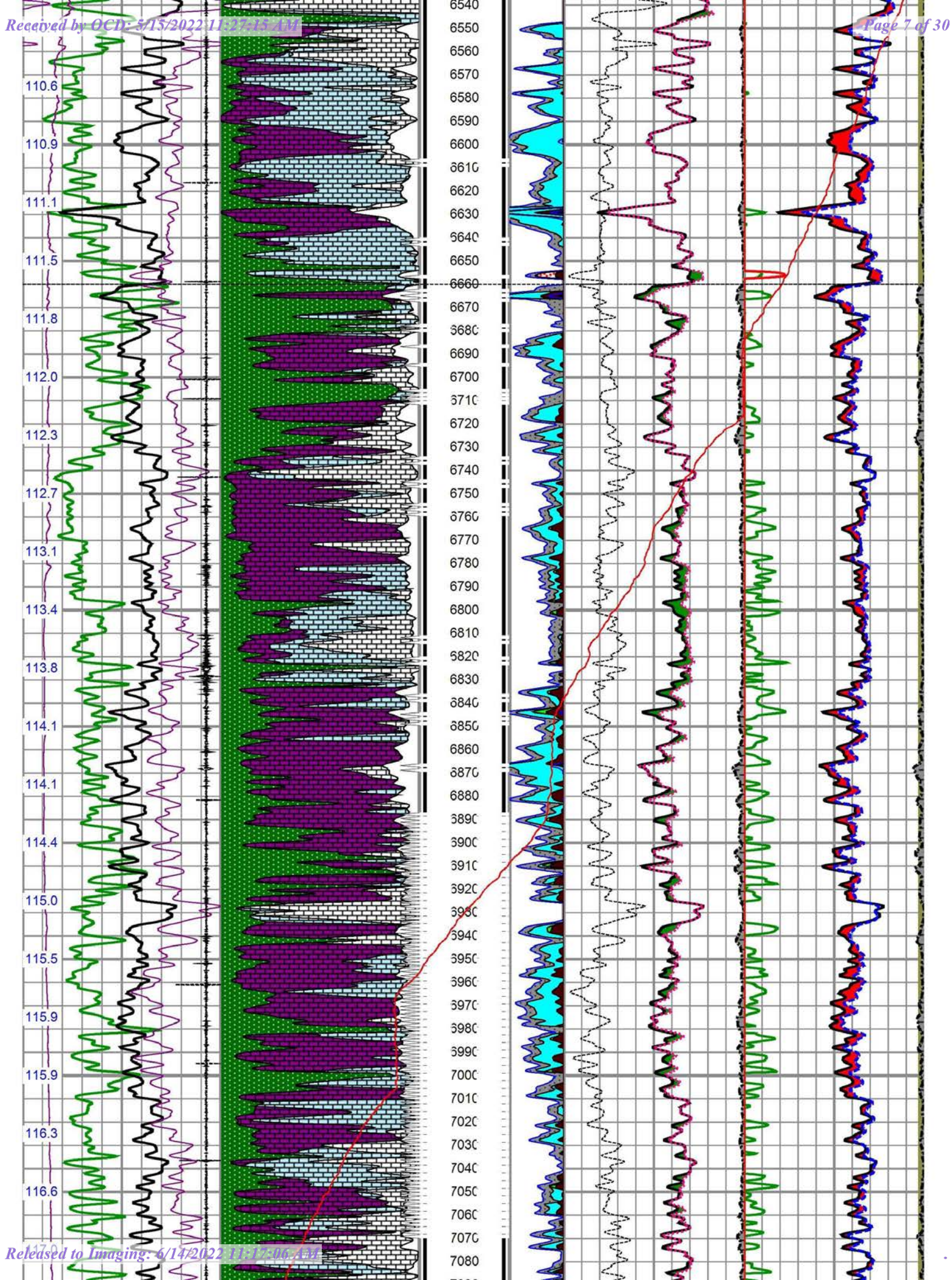
6200.0 - 7395.9 f

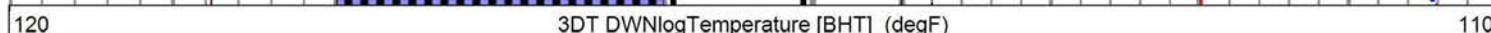
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 Dataset Printed: 2022-03-03 7:32:26 PM
 Depth in feet scaled: 1:600

Primary Pass: pass_4_6_on_depth.las
 Processing: QN-M
 Charted by: akalistratov@roke.ca
 Software Version: 5.5 build #5

3DT DWNlogTemperature [BHT] (degF)				120	WELL_TOPS				500
-500					DEPTH	Fluids	Total Porosity[QTP]	Total Porosity [QTP]	
0	Gamma Ray [GR] (API)	150	Anhydrite		0.15	0.45	(pu)	(pu)	-15
0	BRM	50000	Dolomite						
240000	CCL	-16000	Limestone		QEP_GC	0.15	0.45	Quad Liquid [QLsw]	Dual Neutron [DDN]
45	QTP	-15	Shale					(pu)	(pu)
45	NDPOR	-15	Granite Wash		OilB	60	Quad Clay [QC] (pu)	0	60
0	GR_OH	210			Oil	3	Relative Bulk Density	0	Oil Saturation Total [Sot]
-272000	CCL	25000			Water	1.95	[CE].(pu)	-27	Gas Saturation Total
	TEMPf				GAS	0.45	OH_DEN	2.95	[Sgast]
					Pore Bound Water	0.15	OH_CN	-0.15	Clay
							Clay		Collector
							Hydrocarbon		Light Hydrocarbon







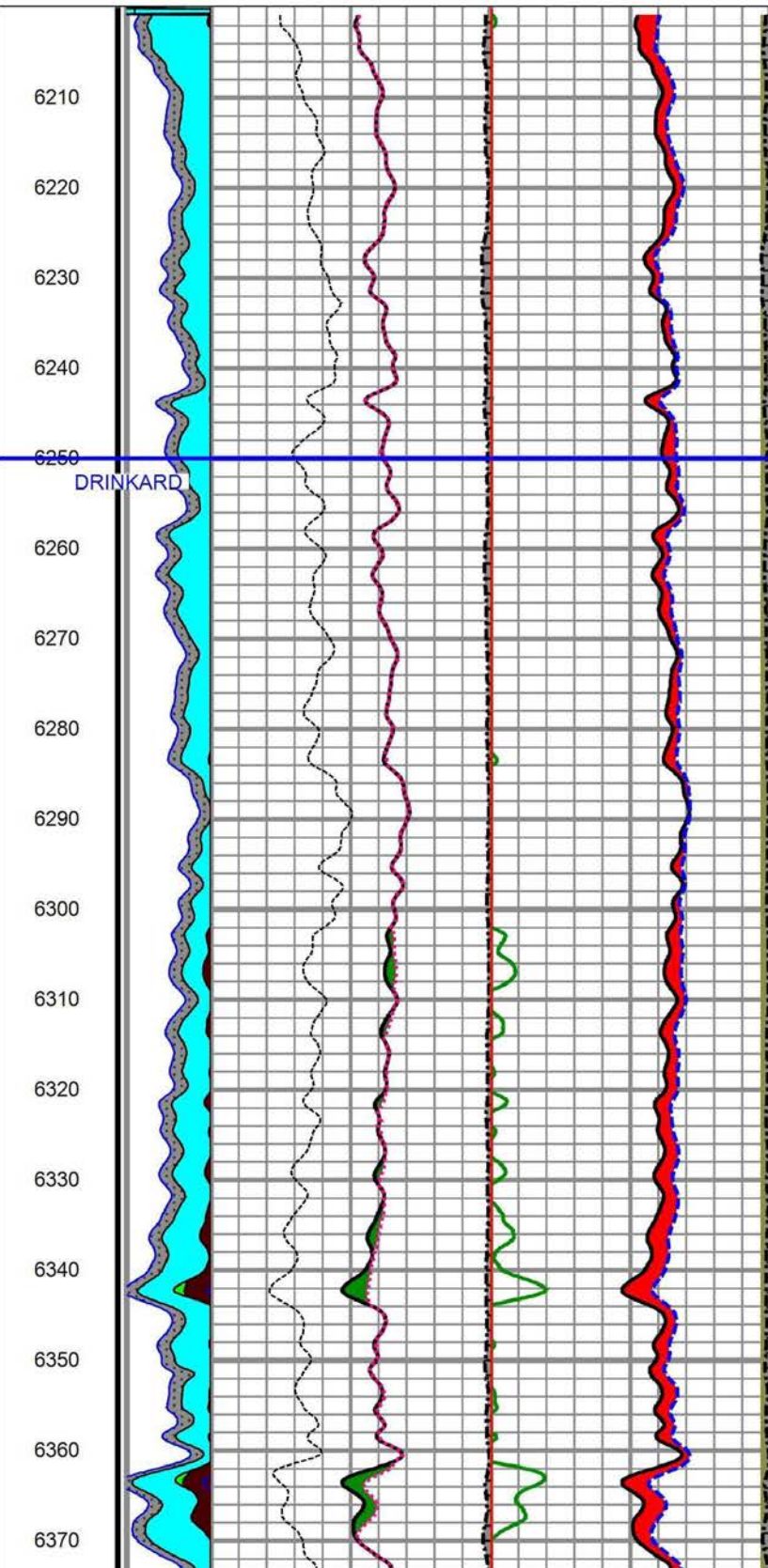
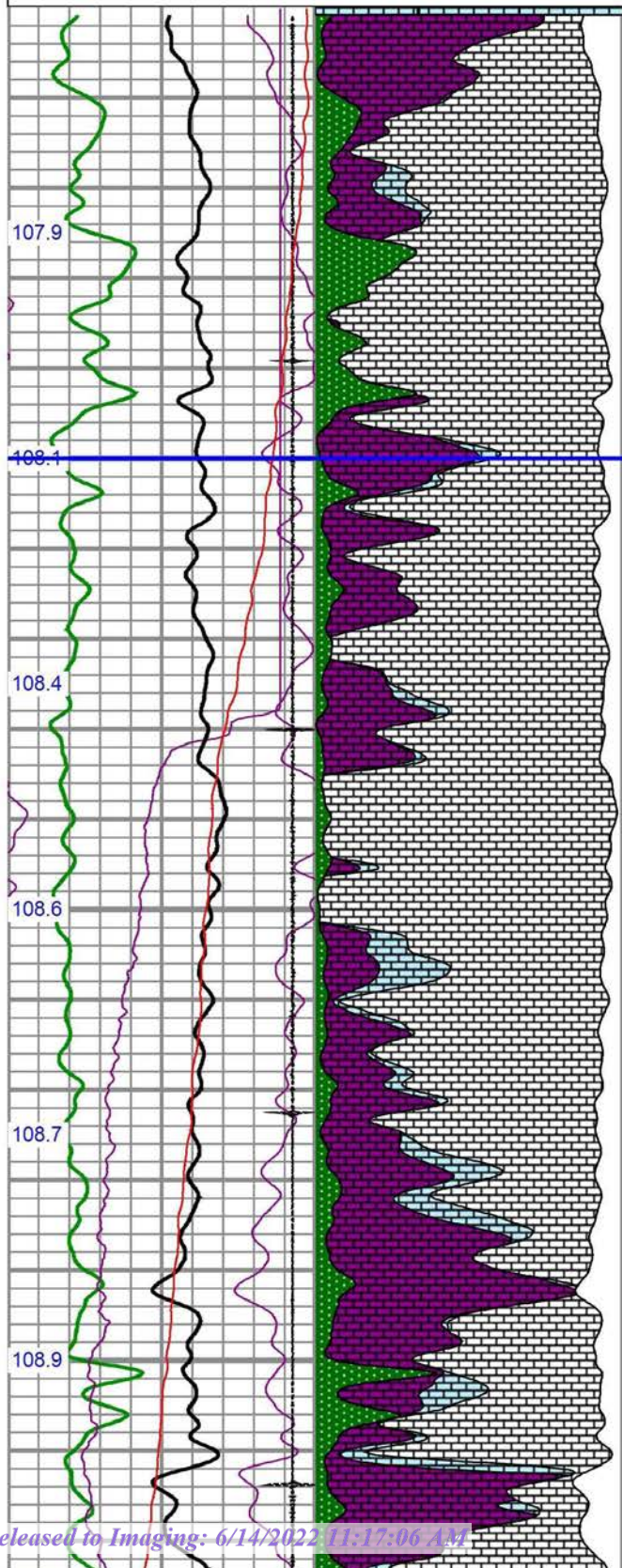
	Quad Neutron MD Main Pass NEW MEXICO S STATE 037	Thru Casing 6200.0 - 7395.9 f
	Measured Depth	

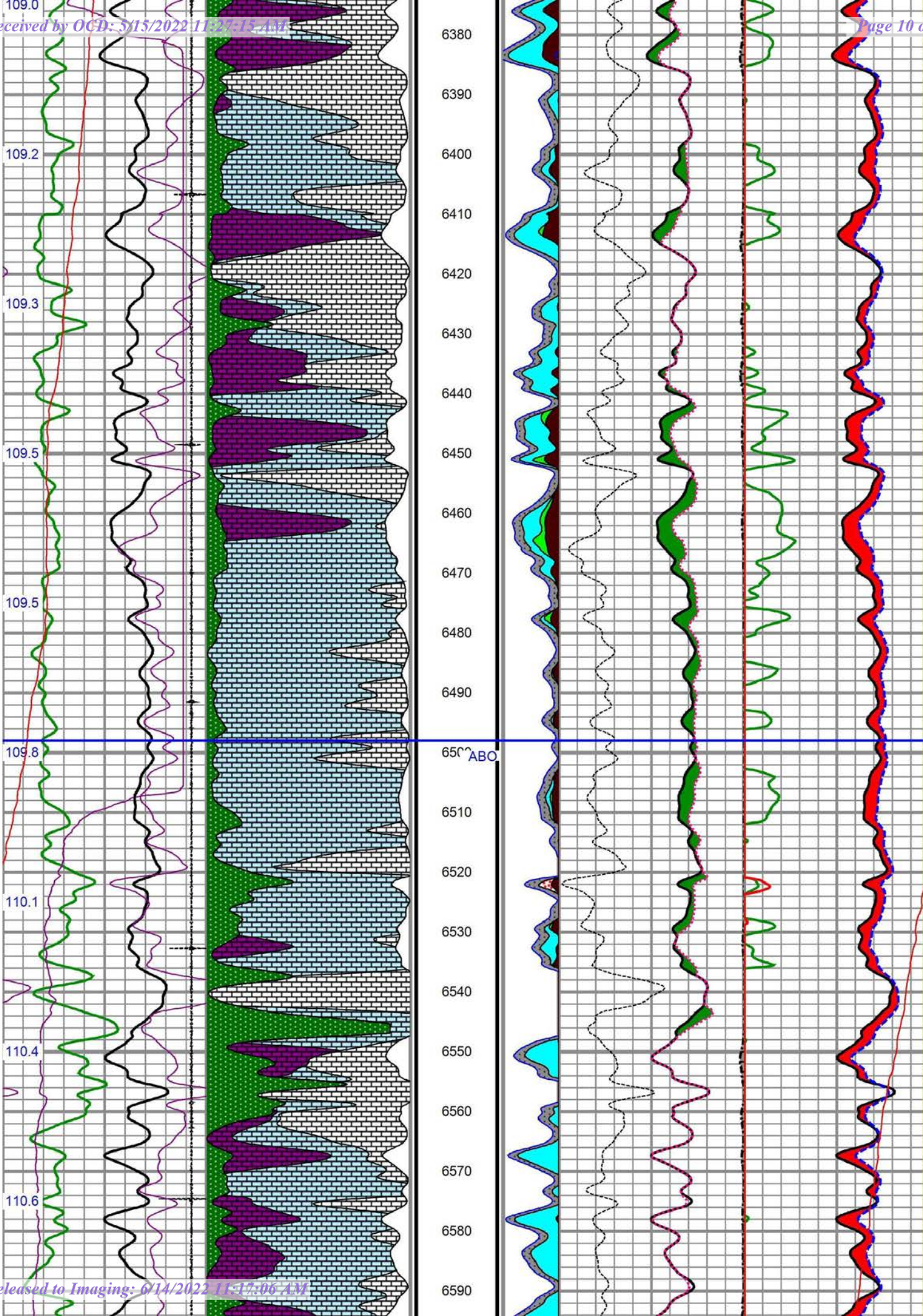
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Primary Pass:      pass_4_6_on_depth.las
Processing:        QN-M
Charted by:        akalistratov@roke.ca
Software Version:  5.5 build #5
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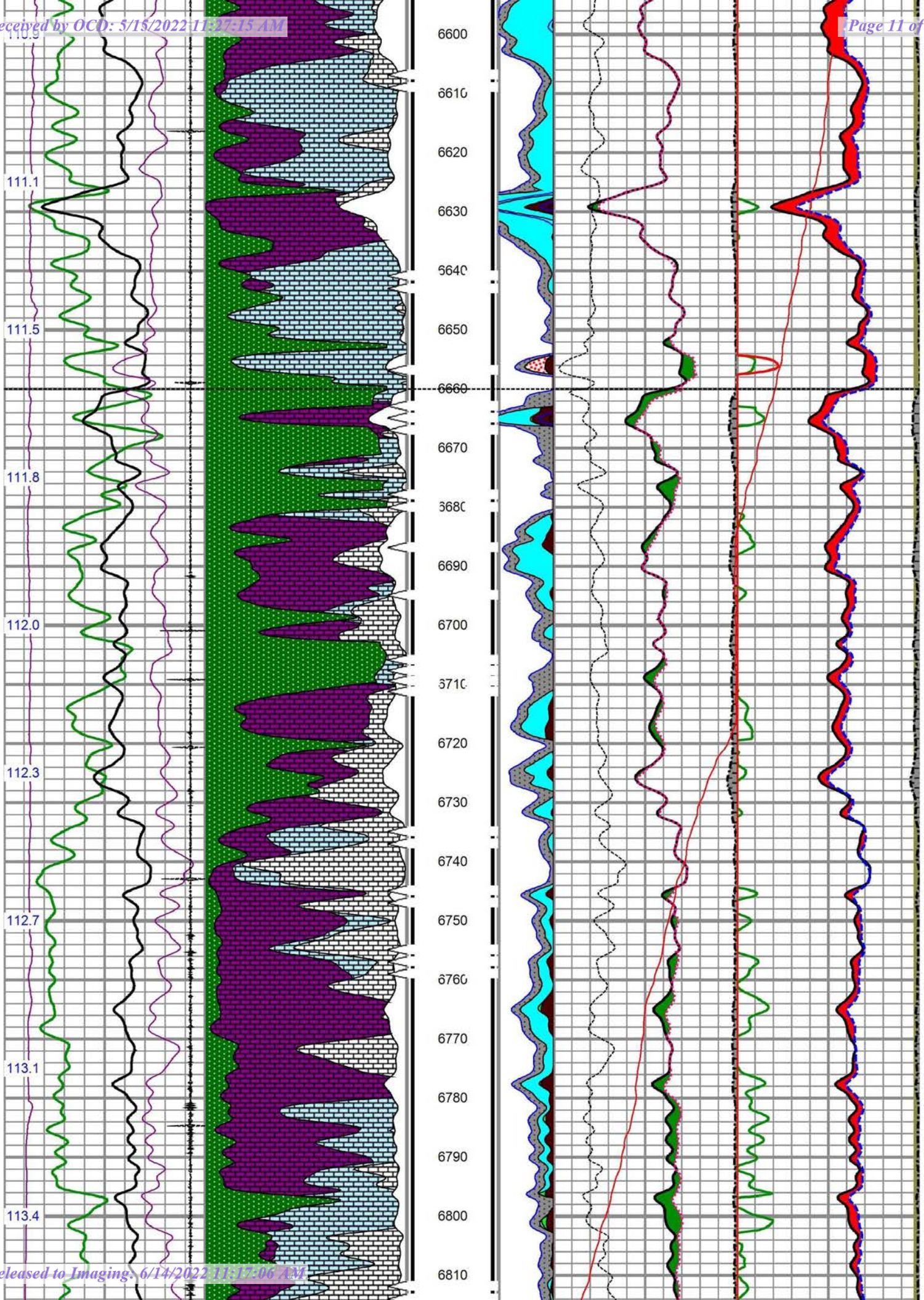


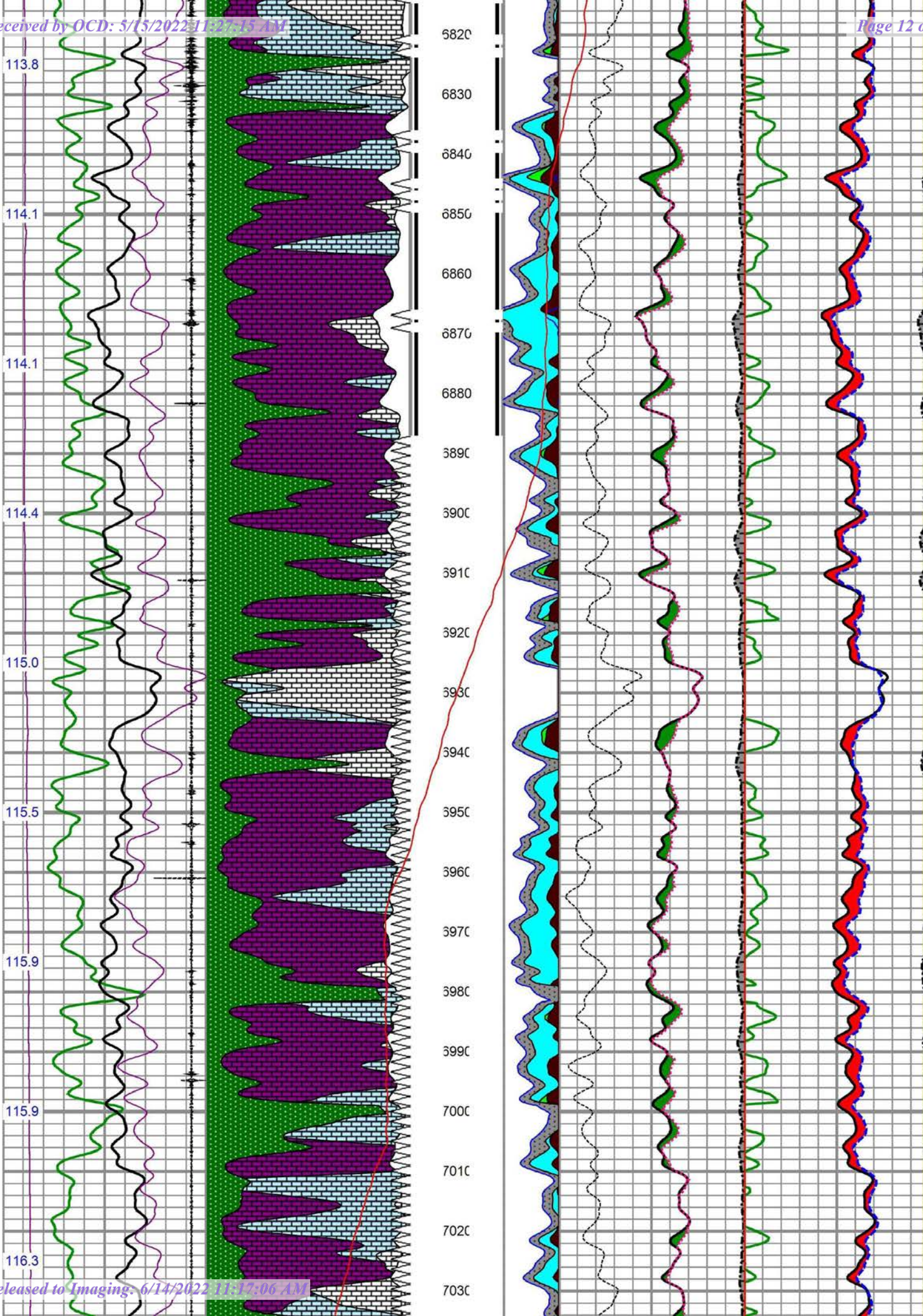
240000	CCL	-16000	Dolomite
45	QTP	-15	Limestone
45	NDPOR	-15	Shale
0	GR_OH	210	Granite Wash
-272000	CCL	25000	
TEMPf			

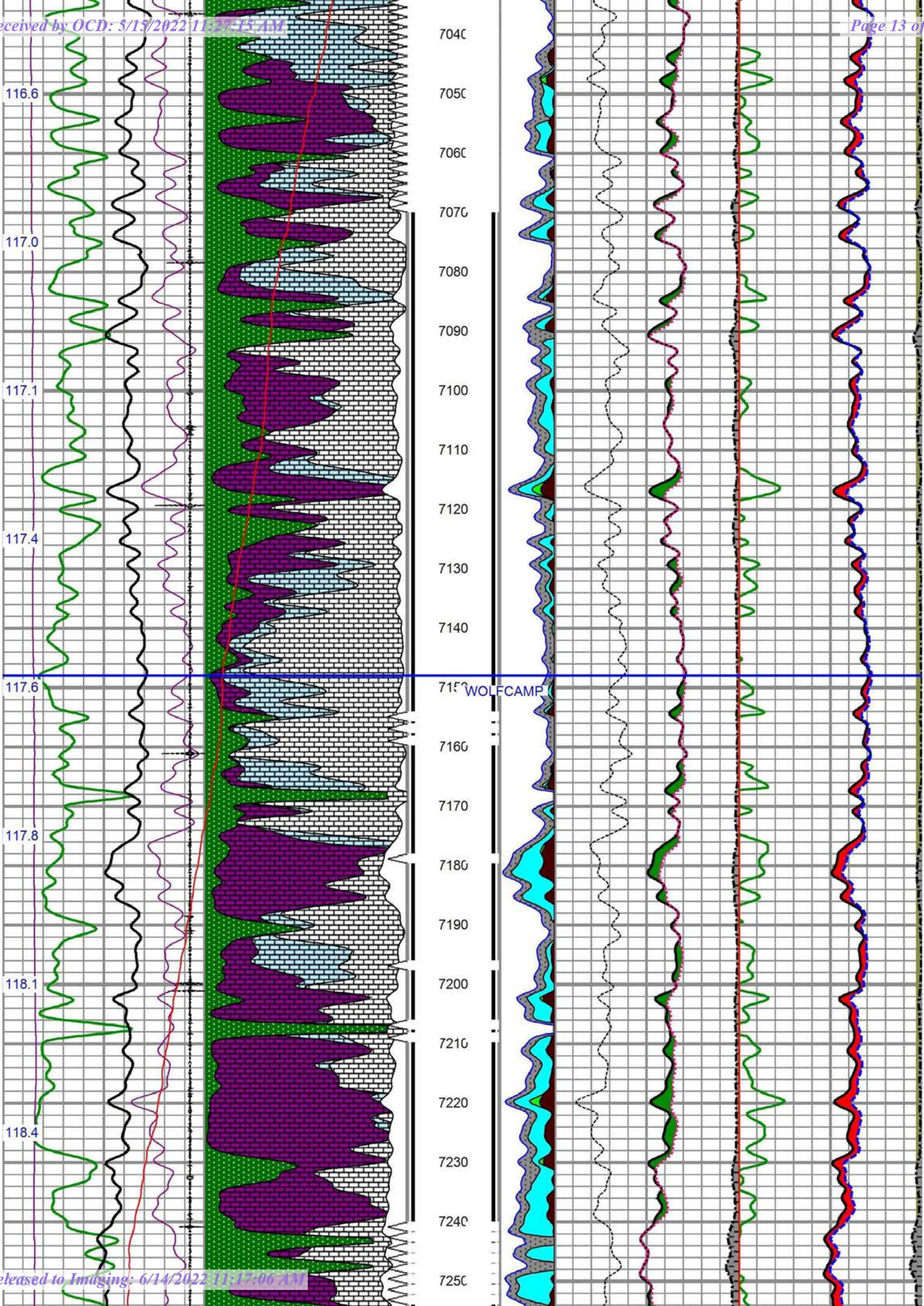
0.15	0.45	(pu)	-15	45	(pu)	-15
QEP_GC	Quad Liquid [QLsw]			Dual Neutron [DDN]		
0.15	0.45	(pu)	-15	45	(pu)	-15
OilB	60	Quad Clay [QC] (pu)	0	60	Quad Clay [QC] (pu)	0
Oil	Relative Bulk Density			0	Oil Saturation Total [Sot]	
	3	[CE].(pu)	-27	Gas Saturation Total		
Water	1.95	OH_DEN	2.95	0	[Sgast]	
GAS	0.45	OH_CN	-0.15	Clay		
Pore Bound Water			Clay			
			Collector			
			Hydrocarbon			
			Light Hydrocarbon			

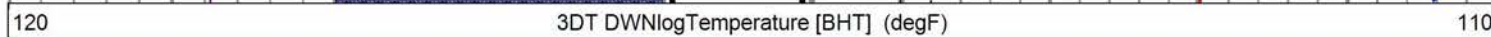












0	Gamma Ray [GR] (API)	150	Anhydrite	DEPTH	Fluids	Total Porosity[QTP]	Total Porosity [QTP]
0	BRM	50000	Dolomite	0.15	0.45	(pu)	(pu)
240000	CCL	-16000	Limestone	QEP_GC	Quad Liquid [QLsw]		Dual Neutron [DDN]
45	QTP	-15	Shale	0.15	0.45	(pu)	(pu)
45	NDPOR	-15	Granite Wash	OILB	60	Quad Clay [QC] (pu)	0
0	GR_OH	210		Oil		Relative Bulk Density	0
-272000	CCL	25000		Water	3	[CE].(pu)	-27
	TEMPf			GAS	1.95	OH_DEN	2.95
				Pore Bound Water	0.45	OH_CN	-0.15

	Quad Neutron	Thru Casing
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MD Main Pass
NEW MEXICO S STATE 037

Measured Depth

6200.0 - 7395.9 f

Released to Imaging: 6/14/2022 11:17:06 AM

Top: 6200.00 f Bottom: 6660.00 f high compaction nuclear caliper gain:1 water:63 kppm oil:25 API f-factor:20 ce gain:0 clay tie:6467

Curve	A	B	Gain	Shift	Curve	WT	Cutoff	Min	Max
QTP	40	-9.8462	1	-10	DGR	0	10	0	65
QL	13.5385	-22.4615	0.8	-16.5	GR	0	20	0	60
DDN	1.6246	-11.7538	1.1	4	DDN	25	4	0	60
QC	0.02	-0.5	5	-0.5	QC	0	2	0	100
SNNp	-194	52	-194	52	PROP	0	0	0	60
LNNp	-22	48.8685	-22	48.8685	CE	0	3	0	60
SNGp	-149	98.6972	-149	98.6972	COAL	1	42	0	60
LNGp	-31	85.8312	-31	85.8312	calcite	1	15	0	60
FGR	1	0	1	0	CEp	75	4	0	100
CEp	1	0	2.2	8					
SNNpost	1	0	1	0					
SNGpost	1	0	1	0					
CNL	1	0	1	3					
IntCounts	1	0	1	0					
Saturation	QLce	ddn:0.5	clay:20	boundwater:0	waterfreeoil:0.2	boundoil:0.2	filter:1	swak:False	
	coll maxclay:False	coll swqcfp:False	use snnp-lnnp:True	snnp-lnnp:0.5	swoilcor:160330-AK				
Lithology	shale:2	silt (bliquid):2	sand:0	collector:2	calcite min:-3.5	calcite max:-10	coal porosity:42	hcoal:65	
	use:qc	lgrshale:85	lgrsand:20	lgrcollcut:1	carbonate:True	dolasmud:False	minclayfe:20	qtpqlfe:20	
	fe100:20	nofe:20	Hlsh:25	Larionov:new					
Effective Porosity	SH	lithology:gr shale/qc silt							

CASING 7 - In

Top: 6660.00 f	Bottom: 7260.00 f	high compaction	nuclear caliper gain:1	water:63 kppm	oil:25 API	f-factor:20	ce gain:0	clay tie:6630	
Curve	A	B	Gain	Shift	Curve	WT	Cutoff	Min	Max
QTP	40	-9.8462	1	-10	DGR	0	10	0	65
QL	13.5385	-23.6923	0.8	-18.5	GR	0	20	0	60
DDN	1.6246	-11.7538	1.1	4	DDN	25	4	0	60
QC	0.02	-0.5	5	-0.5	QC	0	2	0	100
SNNp	-194	52	-194	52	PROP	0	0	0	60
LNNp	-22	44.4261	-22	44.4261	CE	0	3	0	60
SNGp	-149	100.3732	-149	100.3732	COAL	1	42	0	60
LNGp	-31	77.406	-31	77.406	calcite	1	15	0	60
FGR	1	0	1	0	CEp	75	4	0	100
CEp	1	0	2.2	8					
SNNpost	1	0	1	0					
SNGpost	1	0	1	0					
CNL	1	0	1	3					
IntCounts	1	0	1	0					
Saturation	QLce	ddn:0.5	clay:20	boundwater:0	waterfreeoil:0.2	boundoil:0.2	filter:1	swak:False	
	coll maxclay:False	coll swqcfp:False	use snnp-lnnp:True	snnp-lnnp:0.5	swoilcor:120827-HK				
Lithology	shale:2	silt (bliquid):2	sand:0	collector:2	calcite min:-3.5	calcite max:-10	coal porosity:42	hcoal:65	
	use:qc	lgrshale:85	lgrsand:20	lgrcollcut:1	carbonate:True	dolasmud:False	minclayfe:20	qtpqlfe:20	
	fe100:20	nofe:20	Hlsh:25	Larionov:new					
Effective Porosity	SH	lithology:gr shale/qc silt							

CASING 7 - In

Top: 7260.00 f	Bottom: 7395.88 f	high compaction	nuclear caliper gain:1	water:63 kppm	oil:25 API	f-factor:20	ce gain:0	clay tie:6630	
Curve	A	B	Gain	Shift	Curve	WT	Cutoff	Min	Max
QTP	40	-9.8462	1	-10	DGR	0	10	0	65
QL	13.5385	-22.4615	0.8	-16.5	GR	0	20	0	60
DDN	1.6246	-11.7538	1.1	4	DDN	25	4	0	60
QC	0.02	-0.5	5	-0.5	QC	0	2	0	100
SNNp	-194	52	-194	52	PROP	0	0	0	60
LNNp	-22	44.4261	-22	44.4261	CE	0	3	0	60
SNGp	-149	100.3732	-149	100.3732	COAL	1	42	0	60
LNGp	-31	77.406	-31	77.406	calcite	1	15	0	60
FGR	1	0	1	0	CEp	75	4	0	100
CEp	1	0	2.2	8					
SNNpost	1	0	1	0					
SNGpost	1	0	1	0					
CNL	1	0	1	3					
IntCounts	1	0	1	0					
Saturation	QLce	ddn:0.5	clay:20	boundwater:0	waterfreeoil:0.2	boundoil:0.2	filter:1	swak:False	
	coll maxclay:False	coll swqcfp:False	use snnp-lnnp:True	snnp-lnnp:0.5	swoilcor:120827-HK				
Lithology	shale:2	silt (bliquid):2	sand:0	collector:2	calcite min:-3.5	calcite max:-10	coal porosity:42	hcoal:65	
	use:qc	lgrshale:85	lgrsand:20	lgrcollcut:1	carbonate:True	dolasmud:False	minclayfe:20	qtpqlfe:20	
	fe100:20	nofe:20	Hlsh:25	Larionov:new					
Effective Porosity	SH	lithology:gr shale/qc silt							



QUAD NEUTRON

Thru Casing

Company				EMPIRE NEW MEXICO			
Well				NEW MEXICO S STATE 037			
Field				EUNICE MONUMENT			
Country				UNITED STATES			
State				LEA			
Location		30-025-25457		Other Services		NONE	
Well License		309971					
Permanent Datum		Ground Level		Elevation		Elevation	
Log Measured From		Kelly Bushing		12 ft above P.D.		K.B. 3377.00 ft	
Drilling Measured From		Kelly Bushing				G.L. 0.00 ft	
Date		28-Feb-2022		CWI			
Job Code #		220228-RG1		Third Party Ref. #			
AFE #				Cement Top		N/A	
Depth Driller		7500.00 ft		Type Fluid		Water	
PBTD Logger		7403.00 ft		Fluid Level		N/A	
Btm Log Interval		7395.88 ft		Wellhead Pressure		80 psi	
Top Log Interval		6200.00 ft		Max. Temp.		119.9 °F	
Date / Time RIH		28-Feb-2022		Maximum Deviation		0	
Rig Time (hr:mm)		5:00		Hoist Unit #		BFS-01	
Recorded By		Rob Gierman		Unit Location		Burton, TX	
Witnessed By		Toby Holland		Latitude/Longitude			
Wellbore Information							
Type		Size (in)		WT (lb/ft)		From (ft)	
Intermediate Casing		7.00		20		0.00	
						7500.00	

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, 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.

Comments

Log is not depth correlated, no reference data ia available.

TOOL DIAGRAM

NEW MEXICO S STATE 037

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CableHeadSub QuadV2 to BOI Cable Head Sub	0.75	1.69	3.00
			QUADV2_TCA17 QuadV2 Telemetry Combo A	6.46	1.69	28.00
UHT	15.35					
UBRM	15.35					
GR	13.98					
FGR	12.24					
CCL	9.42					
			QUADV2_MNA15 QuadV2 MN Section	6.99	1.69	31.99
LNG						
SNG						
SNN						
LNN						
			QUADV2_BHTA05 Sensors For Processing	1.57	1.69	6.00
BHT	0.43					
BBRM	0.43					

Dataset: QuadV2
Total Length: 15.77 ft
Total Weight: 68.99 lb
O.D.: 1.69 in



MD Main Pass

NEW MEXICO S STATE 037

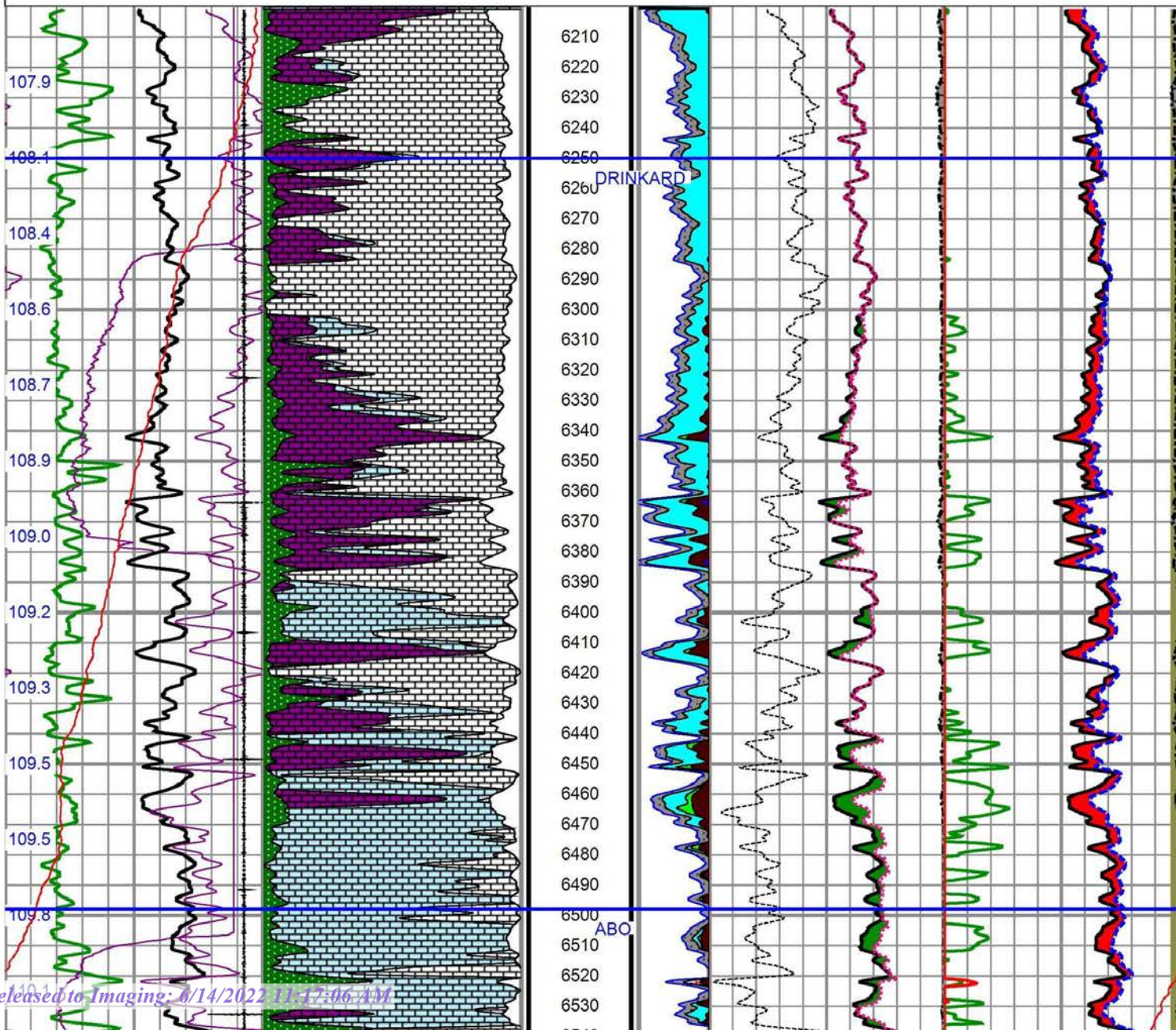
Measured Depth

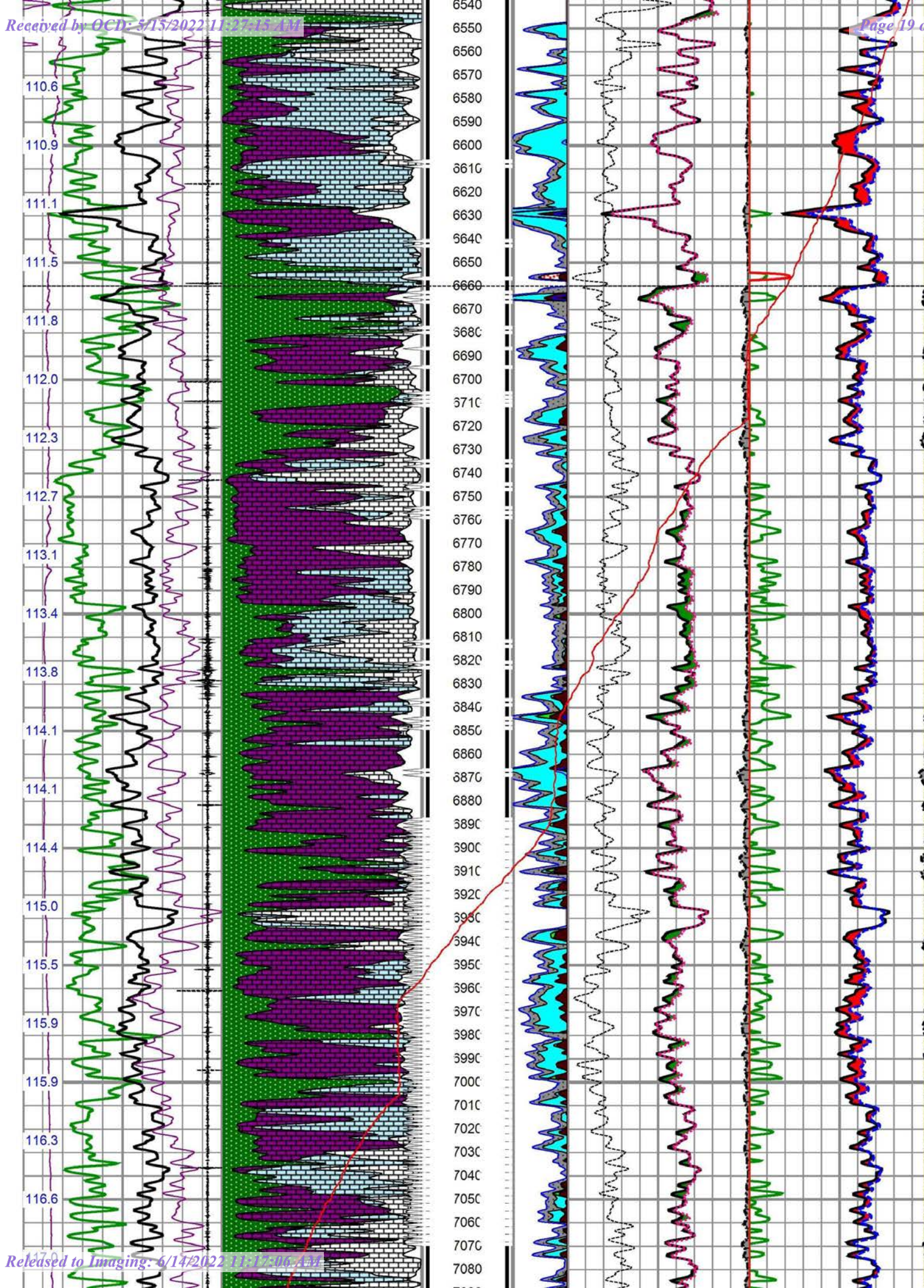
6200.0 - 7395.9 f

Database File: D:\WORK\USA\20228-RG1 NEW MEXICO STATE 37 QUAD\PROC AK
 Presentation Format: QN ADVANCED DRY.prs
 Dataset Printed: 2022-03-03 7:32:26 PM
 Depth in feet scaled: 1:600

Primary Pass: pass_4_6_on_depth.las
 Processing: QN-M
 Charted by: akalistratov@roke.ca
 Software Version: 5.5 build #5

3DT DWNlogTemperature [BHT] (degF)				120					110
-500					WELL_TOPS				500
0	Gamma Ray [GR] (API)	150	Anhydrite	DEPTH	Fluids	Total Porosity[QTP]		Total Porosity [QTP]	
0	BRM	50000	Dolomite		0.15 0 45	(pu)	-15 45	(pu)	-15
240000	CCL	-16000	Limestone	QEP_GC		Quad Liquid [QLsw]		Dual Neutron [DDN]	
45	QTP	-15	Shale	0.15 0 45		(pu)	-15 45	(pu)	-15
45	NDPOR	-15	Granite Wash	OilB	60	Quad Clay [QC] (pu)	0 60	Quad Clay [QC] (pu)	0
0	GR_OH	210		Oil		Relative Bulk Density	0	Oil Saturation Total [Sot]	2
-272000	CCL	25000		Water	3	[CE].(pu)	-27	Gas Saturation Total	
TEMPf				GAS	1.95	OH_DEN	2.95 0	[Sgast]	2
				Pore Bound Water	0.45	OH_CN	-0.15	Clay	
						Clay		Collector	
						Hydrocarbon		Light Hydrocarbon	







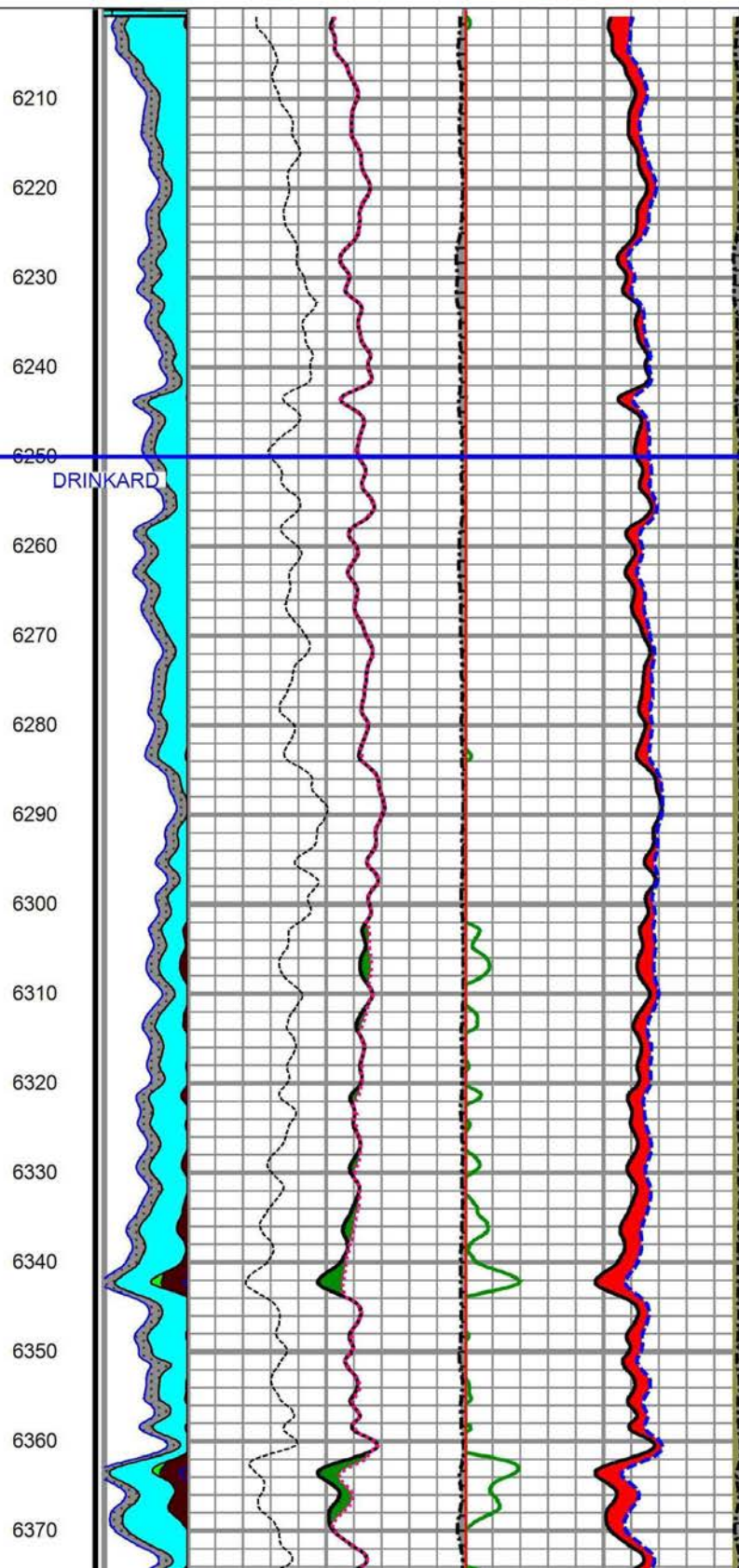
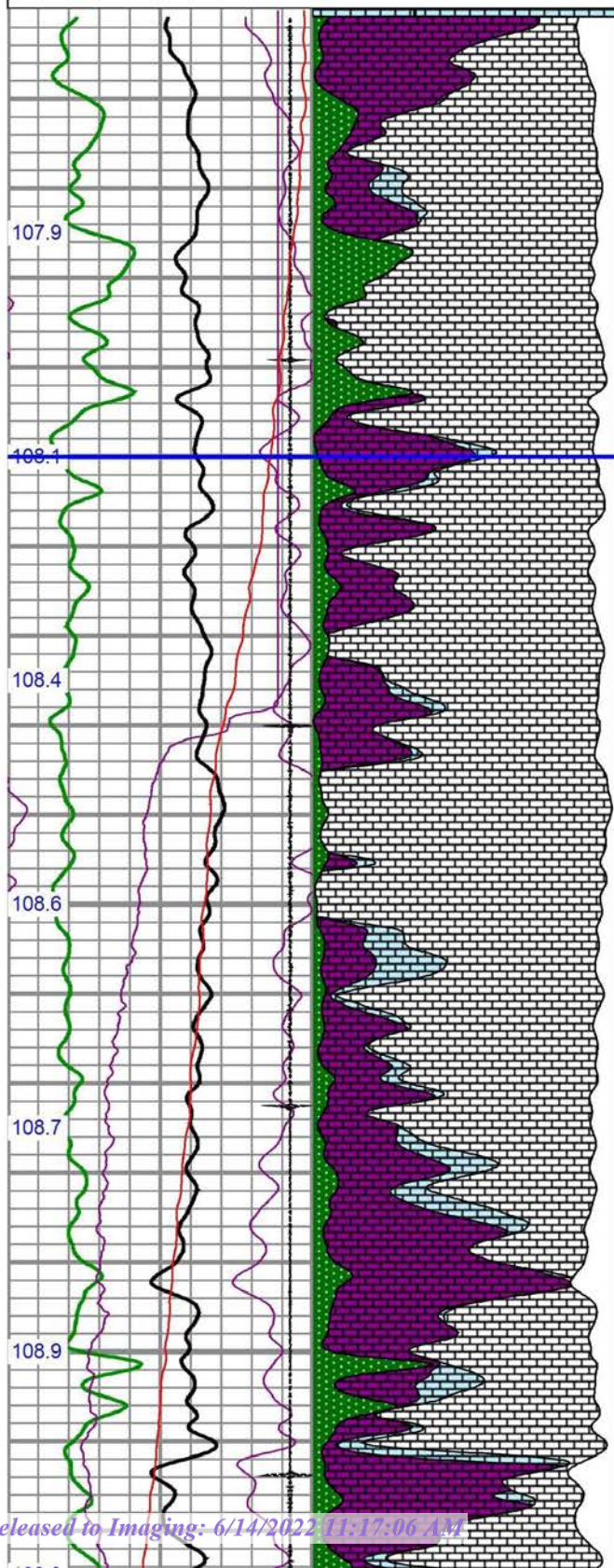
	Quad Neutron MD Main Pass NEW MEXICO S STATE 037	Thru Casing 6200.0 - 7395.9 f
	Measured Depth	

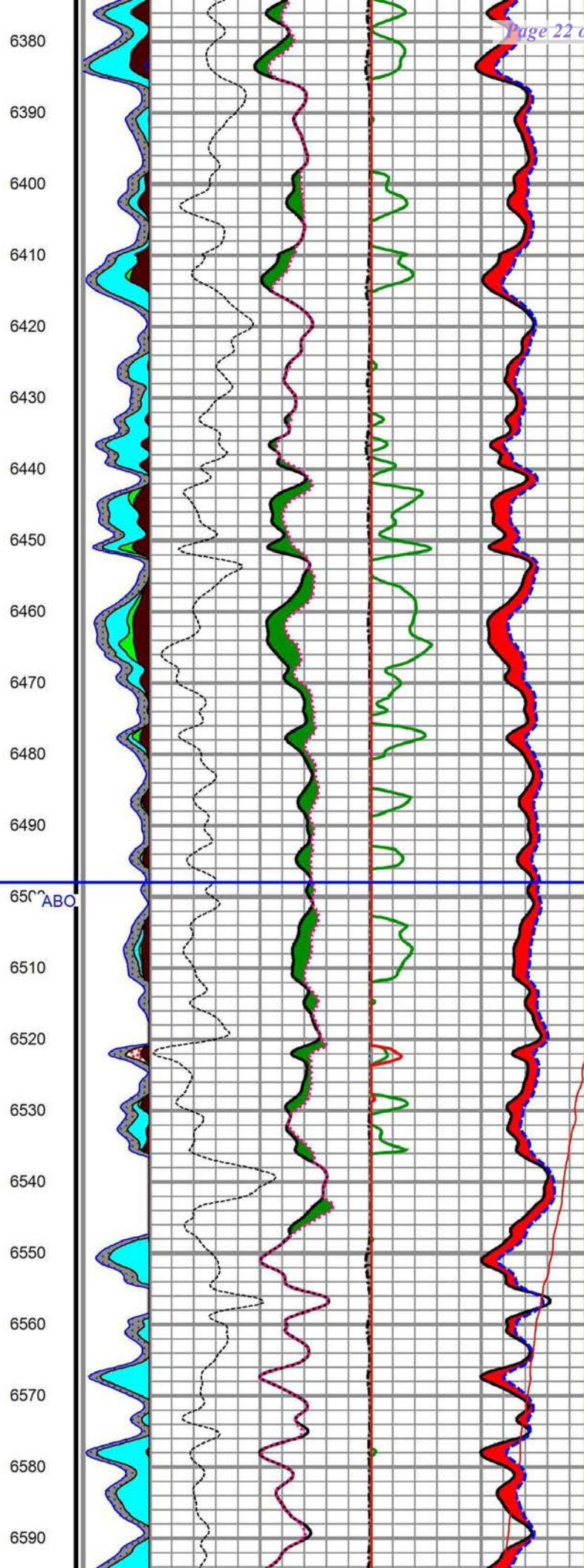
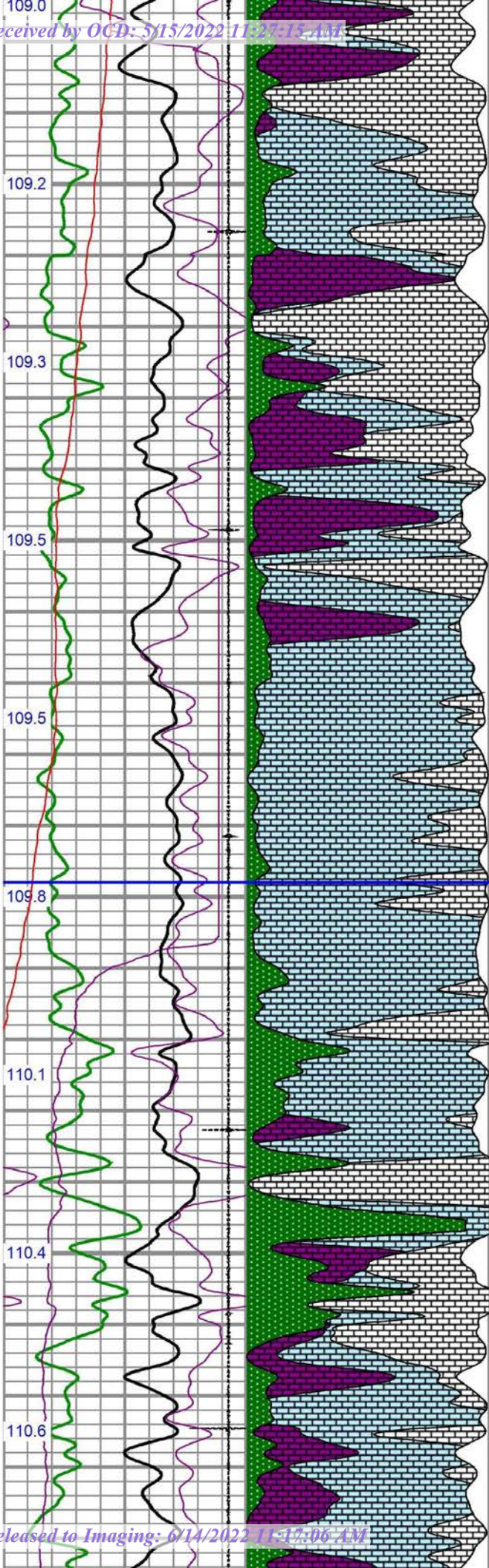
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Primary Pass:      pass_4_6_on_depth.las
Processing:        QN-M
Charted by:        akalistratov@roke.ca
Software Version:  5.5 build #5
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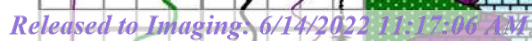


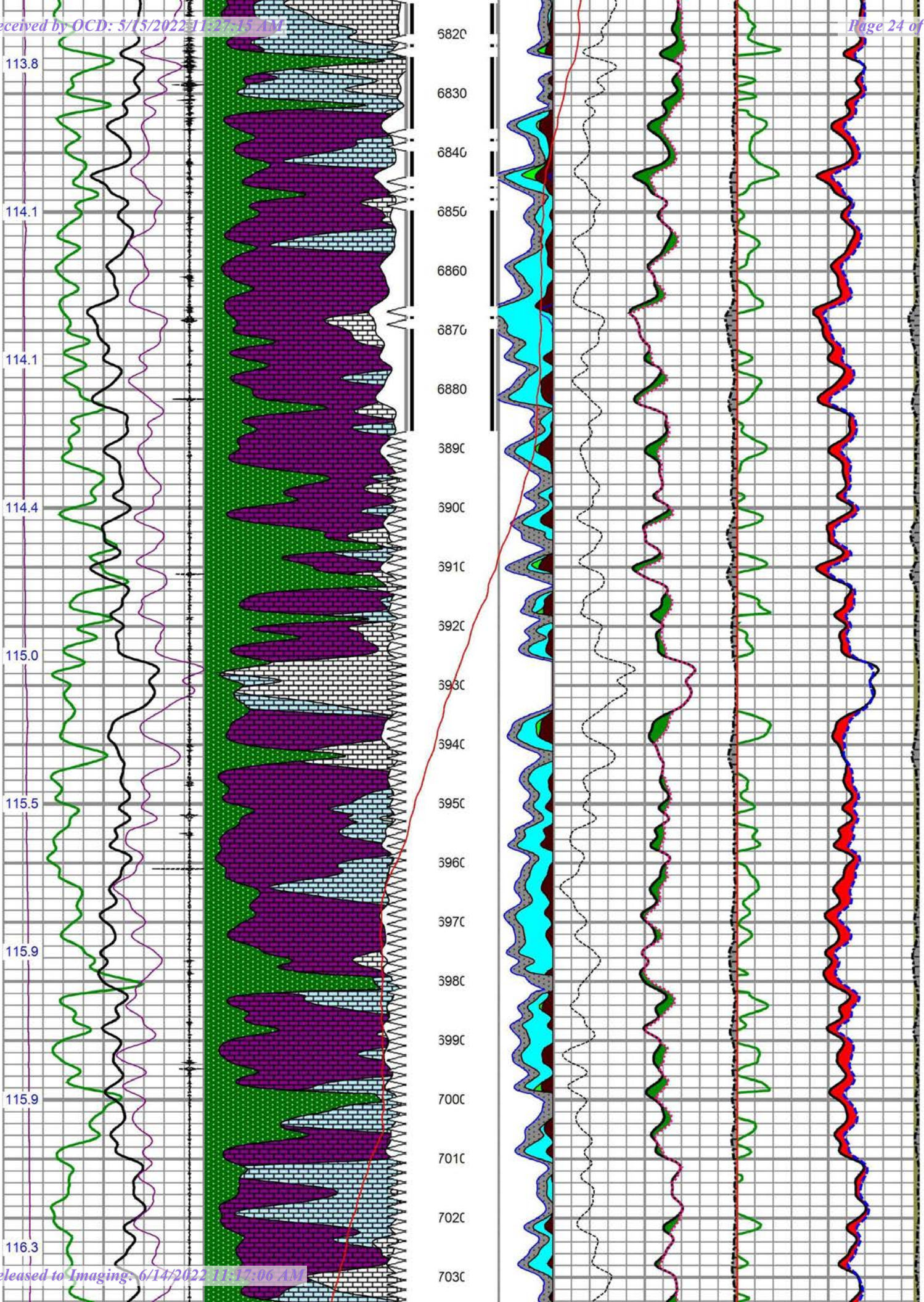
240000	CCL	-16000	Dolomite
45	QTP	-15	Limestone
45	NDPOR	-15	Shale
0	GR_OH	210	Granite Wash
-272000	CCL	25000	
TEMPf			

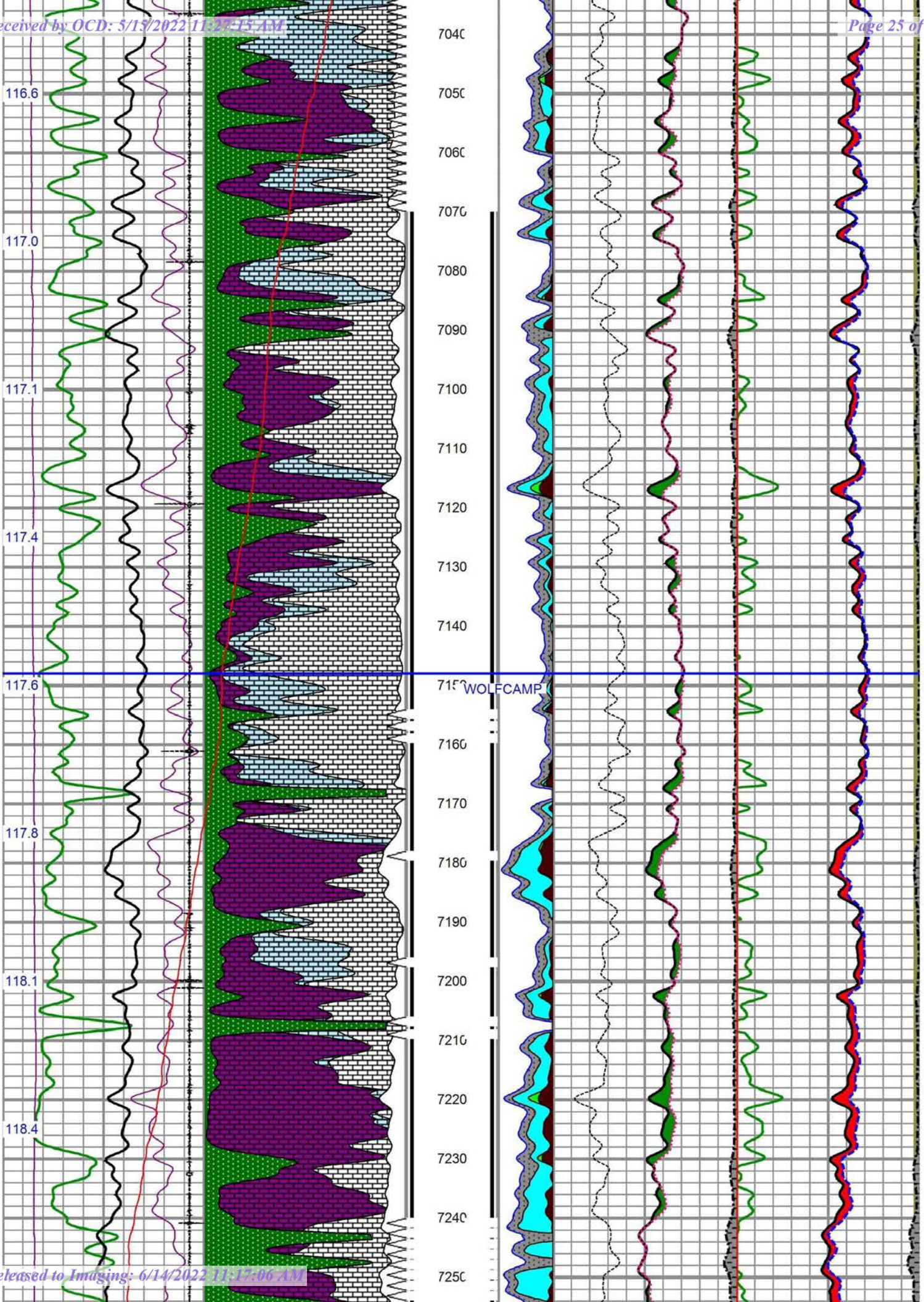
0.15	0.45	(pu)	-15	45	(pu)	-15
QEP_GC	Quad Liquid [QLsw]			Dual Neutron [DDN]		
0.15	0.45	(pu)	-15	45	(pu)	-15
OilB	60	Quad Clay [QC] (pu)	0	60	Quad Clay [QC] (pu)	0
Oil	Relative Bulk Density			0	Oil Saturation Total [Sot]	
	3	[CE].(pu)	-27	Gas Saturation Total		
Water	1.95	OH_DEN	2.95	0	[Sgast]	
GAS	0.45	OH_CN	-0.15	Clay		
Pore Bound Water			Clay			
			Collector			
			Hydrocarbon			
			Light Hydrocarbon			

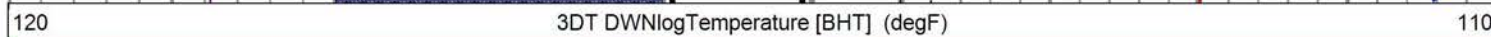










[illegible]

	Quad Neutron	Thru Casing
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MD Main Pass
 NEW MEXICO S STATE 037

Measured Depth

Released to Imaging: 6/14/2022 11:17:06 AM									
CASING 1 - 11									
Top: 6200.00 f	Bottom: 6660.00 f	high compaction	nuclear caliper gain:1	water: 63 kppm	oil: 25 API	f-factor: 20	ce gain: 0	clay tie: 6467	

Curve	A	B	Gain	Shift	Curve	WT	Cutoff	Min	Max
QTP	40	-9.8462	1	-10	DGR	0	10	0	65
QL	13.5385	-22.4615	0.8	-16.5	GR	0	20	0	60
DDN	1.6246	-11.7538	1.1	4	DDN	25	4	0	60
QC	0.02	-0.5	5	-0.5	QC	0	2	0	100
SNNp	-194	52	-194	52	PROP	0	0	0	60
LNNp	-22	48.8685	-22	48.8685	CE	0	3	0	60
SNGp	-149	98.6972	-149	98.6972	COAL	1	42	0	60
LNGp	-31	85.8312	-31	85.8312	calcite	1	15	0	60
FGR	1	0	1	0	CEp	75	4	0	100
CEp	1	0	2.2	8					
SNNpost	1	0	1	0					
SNGpost	1	0	1	0					
CNL	1	0	1	3					
IntCounts	1	0	1	0					
Saturation	QLce	ddn:0.5	clay:20	boundwater:0	waterfreeoil:0.2	boundoil:0.2	filter:1	swak:False	
	coll maxclay:False	coll swqcfp:False	use snnp-lnnp:True	snnp-lnnp:0.5	swoilcor:160330-AK				
Lithology	shale:2	silt (bliquid):2	sand:0	collector:2	calcite min:-3.5	calcite max:-10	coal porosity:42	hcoal:65	
	use:qc	lgrshale:85	lgrsand:20	lgrcollcut:1	carbonate:True	dolasmud:False	minclayfe:20	qtpqlfe:20	
	fe100:20	nofe:20	Hlsh:25	Larionov:new					
Effective Porosity	SH	lithology:gr shale/qc silt							

CASING 7 - In

Top: 6660.00 f	Bottom: 7260.00 f	high compaction		nuclear caliper gain:1	water:63 kppm	oil:25 API	f-factor:20	ce gain:0	clay tie:6630
Curve	A	B	Gain	Shift	Curve	WT	Cutoff	Min	Max
QTP	40	-9.8462	1	-10	DGR	0	10	0	65
QL	13.5385	-23.6923	0.8	-18.5	GR	0	20	0	60
DDN	1.6246	-11.7538	1.1	4	DDN	25	4	0	60
QC	0.02	-0.5	5	-0.5	QC	0	2	0	100
SNNp	-194	52	-194	52	PROP	0	0	0	60
LNNp	-22	44.4261	-22	44.4261	CE	0	3	0	60
SNGp	-149	100.3732	-149	100.3732	COAL	1	42	0	60
LNGp	-31	77.406	-31	77.406	calcite	1	15	0	60
FGR	1	0	1	0	CEp	75	4	0	100
CEp	1	0	2.2	8					
SNNpost	1	0	1	0					
SNGpost	1	0	1	0					
CNL	1	0	1	3					
IntCounts	1	0	1	0					
Saturation	QLce	ddn:0.5	clay:20	boundwater:0	waterfreeoil:0.2	boundoil:0.2	filter:1	swak:False	
	coll maxclay:False	coll swqcfp:False	use snnp-lnnp:True	snnp-lnnp:0.5	swoilcor:120827-HK				
Lithology	shale:2	silt (bliquid):2	sand:0	collector:2	calcite min:-3.5	calcite max:-10	coal porosity:42	hcoal:65	
	use:qc	lgrshale:85	lgrsand:20	lgrcollcut:1	carbonate:True	dolasmud:False	minclayfe:20	qtpqlfe:20	
	fe100:20	nofe:20	Hlsh:25	Larionov:new					
Effective Porosity	SH	lithology:gr shale/qc silt							

CASING 7 - In

Top: 7260.00 f	Bottom: 7395.88 f	high compaction	nuclear caliper gain:1	water:63 kppm	oil:25 API	f-factor:20	ce gain:0	clay tie:6630	
Curve	A	B	Gain	Shift	Curve	WT	Cutoff	Min	Max
QTP	40	-9.8462	1	-10	DGR	0	10	0	65
QL	13.5385	-22.4615	0.8	-16.5	GR	0	20	0	60
DDN	1.6246	-11.7538	1.1	4	DDN	25	4	0	60
QC	0.02	-0.5	5	-0.5	QC	0	2	0	100
SNNp	-194	52	-194	52	PROP	0	0	0	60
LNNp	-22	44.4261	-22	44.4261	CE	0	3	0	60
SNGp	-149	100.3732	-149	100.3732	COAL	1	42	0	60
LNGp	-31	77.406	-31	77.406	calcite	1	15	0	60
FGR	1	0	1	0	CEp	75	4	0	100
CEp	1	0	2.2	8					
SNNpost	1	0	1	0					
SNGpost	1	0	1	0					
CNL	1	0	1	3					
IntCounts	1	0	1	0					
Saturation	QLce	ddn:0.5	clay:20	boundwater:0	waterfreeoil:0.2	boundoil:0.2	filter:1	swak:False	
	coll maxclay:False	coll swqcfp:False	use snnp-lnnp:True	snnp-lnnp:0.5	swoilcor:120827-HK				
Lithology	shale:2	silt (bliquid):2	sand:0	collector:2	calcite min:-3.5	calcite max:-10	coal porosity:42	hcoal:65	
	use:qc	lgrshale:85	lgrsand:20	lgrcollcut:1	carbonate:True	dolasmud:False	minclayfe:20	qtpqlfe:20	
	fe100:20	nofe:20	Hlsh:25	Larionov:new					
Effective Porosity	SH	lithology:gr shale/qc silt							

NM S STATE #37 WELLBORE DIAGRAM

SEC 2, T 22S & R 37E

COUNTY/STATE: LEA, NM
LEASE: BLBR-DKRD-TUBB
CURRENT STATUS: ACTIVE
COMPL. DATE:
AP. No. 30-025-25457



DATA

LOCATION: 330 FNL & 1990 FWL, SEC 2, T 22S & R37E
COUNTY/STATE: LEA, NM
FIELD: BLBR-DKRD-TUBB
FORMATION: ABO/GRANITE WASH
SPUD DATE: 03/24/77
API#: 30-025-25457
COMPLETION DATE: 05/13/77
STATUS: ACTIVE
IP:

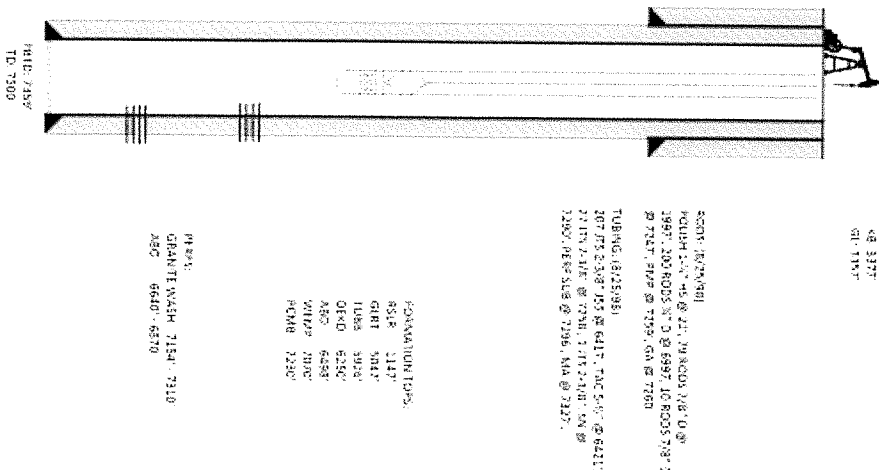
WELL HISTORY

COMPLETION DATA:

04/25/77: PERF GRANITE WASH F7154' - 7310' (29 SHOTS) AND ABO F16640 - 6870' (81 SHOTS) AC GRN WSH W/1075 GALS AND ABO W/2325 GALS. FRAC GRN WSH W/40,000 GALS + 46,000# SD AND ABO W/30,000 GALS + 30,000# SD.

WORKOVER HISTORY:

11/02/90: PERF F16606 - 7070' (78 SHOTS) AC FRAC W/17,500 GALS AC + 5250 GALS 15% HCL
11/12/90: RIH W/PMP & RODS SN @ 7291'.
04/24/98: RODS PARTED 3 RODS DWN. 7/8" BOC BREAK. FISH AND CHNG THE PMP. RUN BACK W/1.25 PMP.
08/25/98: PULLED RODS & TBG FOR A HOLE IN THE TBG. HOLE WAS 5 JTS ABOVE SN. RUN BACK IN HOLE W/ 1.25 PMP.
08/15/03: POOH W/RODS & PMP. HEAVY PARAFFIN TRT. RIH W/RODS & PMP RWTP.
08/22/06: REPLACE PMP W/2-1.25-RHBC-12-4-34



PERF:
GRANITE WASH 7154' - 7310'
ABO 6640' - 6870'

RIH: 7154'
TD: 7310'

NM S STATE #37 WELLBORE DIAGRAM

COUNTY/STATE: LEA, NM
LEASE: BLBR-DKRD-TUBB
CURRENT STATUS: ACTIVE
COMPL. DATE:
AP. No. 30-025-25457



SEC. 2, T. 22S & R. 37E

DATA

LOCATION: 330 FNL & 1990 FWL, SEC. 2, T. 22S & R. 37E
COUNTY/STATE: LEA, NM
FIELD: BLBR-DKRD-TUBB
FORMATION: ABO/GRANITE WASH
SPUD DATE: 03/24/77
API#: 30-025-25457
COMPLETION DATE: 05/13/77
STATUS: ACTIVE
IP:

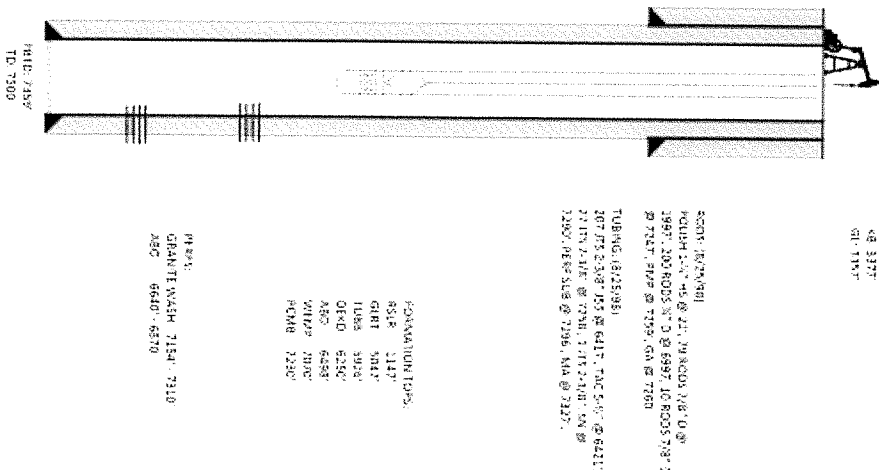
COMPLETION DATA:

04/25/77: PERF GRANITE WASH F7154' - 7310' (29 SHOTS) AND ABO F16640' - 6870' (81 SHOTS) AC GRN WSH W/1075 GALS AND ABO W/2325 GALS. FRAC GRN WSH W/40,000 GALS + 46,000# SD AND ABO W/30,000 GALS + 30,000# SD.

WELL HISTORY

WORKOVER HISTORY:

11/02/90: PERF F16606' - 7070' (78 SHOTS) AC FRAC W/17,500 GALS AC + 5250 GALS 15% HCL
11/12/90: RIH W/PMP & RODS SN @ 7291'.
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08/25/98: PULLED RODS & TBG FOR A HOLE IN THE TBG. HOLE WAS 5 JTS ABOVE SN. RUN BACK IN HOLE W/1.25 PMP.
08/15/03: POOH W/RODS & PMP. HEAVY PARAFFIN TRT. RIH W/RODS & PMP. RWTP.
08/22/06: REPLACE PMP W/2-1.25-RHBC-12-4-34



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 106738

CONDITIONS

Operator: Empire New Mexico LLC 2200 S. Utica Place Tulsa, OK 74114	OGRID: 330679
	Action Number: 106738
	Action Type: [C-103] NOI Workover (C-103G)

CONDITIONS

Created By	Condition	Condition Date
kfortner	None	6/14/2022