

Cement Top

Correlation Log Date Correlation Log Name

NA

NA

3.4 m above P.D

946.6 m

Elevation

943.20 m

Province

ALBERTA

Other Services

QUAD NEUTRON

Thru Casing

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

Recorded Longitude / Latitude:

From (m)

To (m)

Grade H-40 J-55

Location Hoist Unit # Maximum Deviation

Calgary Unit 3 Max. Temp.

28.3 °C

98 KPA kPa

N/A

Wellhead Pressure

Fluid Level

Type Fluid

DRY

0.00 0.00

826.10 60.80



Quad Neutron

TOOL DIAGRAM

AMBER ENTICE 9-15-26-26

Sensor	Offset (m)	Schematic	Description	Len (m)	OD (mm)	Wt (kg)
UHT UBRM	4.07		CableHeadSub QuadV2 to GOI Cable Head Sub	0.24	43.00	1.00
GR	3.78					
FGR	3.26		QUADV2_TEL13 Quad V2 Telemetry Combo A	1.97	43.00	20.00
CCL	2.41	_				
LNG SNG SNN LNN			QUADV2_MN020 Quad V2 MN Section	2.13	43.00	20.00
BHT BBRM	0.00	Datas	QUADV2_BHT0 Sensors For Processing	0.00	43.00	

Total Length: Quad
Total Weight: 4.34 m
Total Weight: 41.00 kg
O.D. 43.00 mm

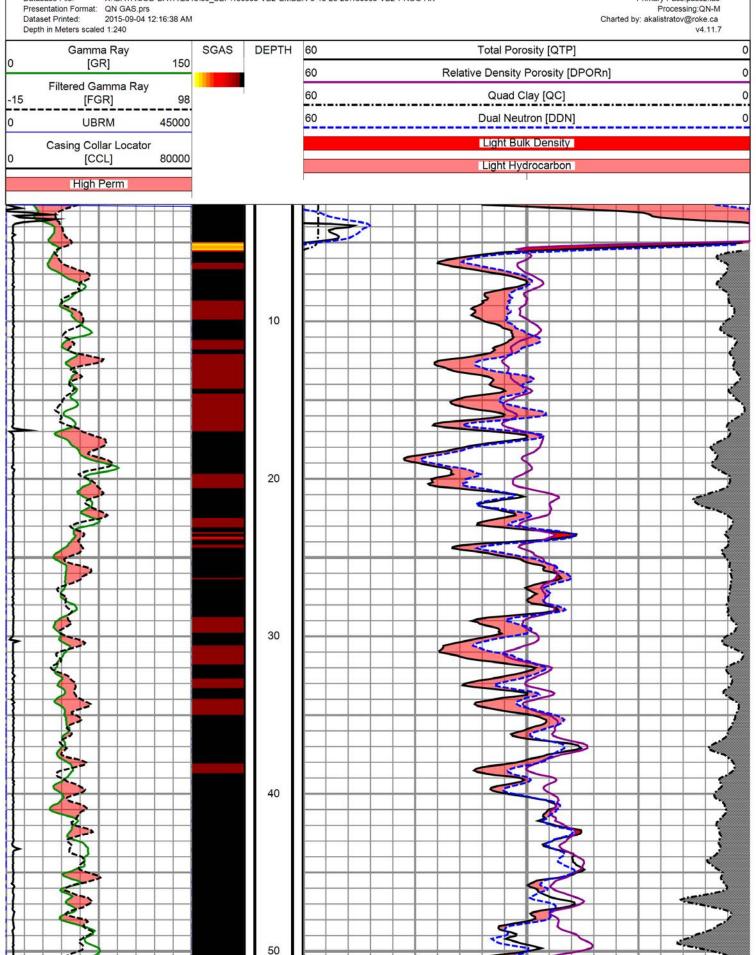
MD Main Pass **AMBER ENTICE 9-15-26-26**

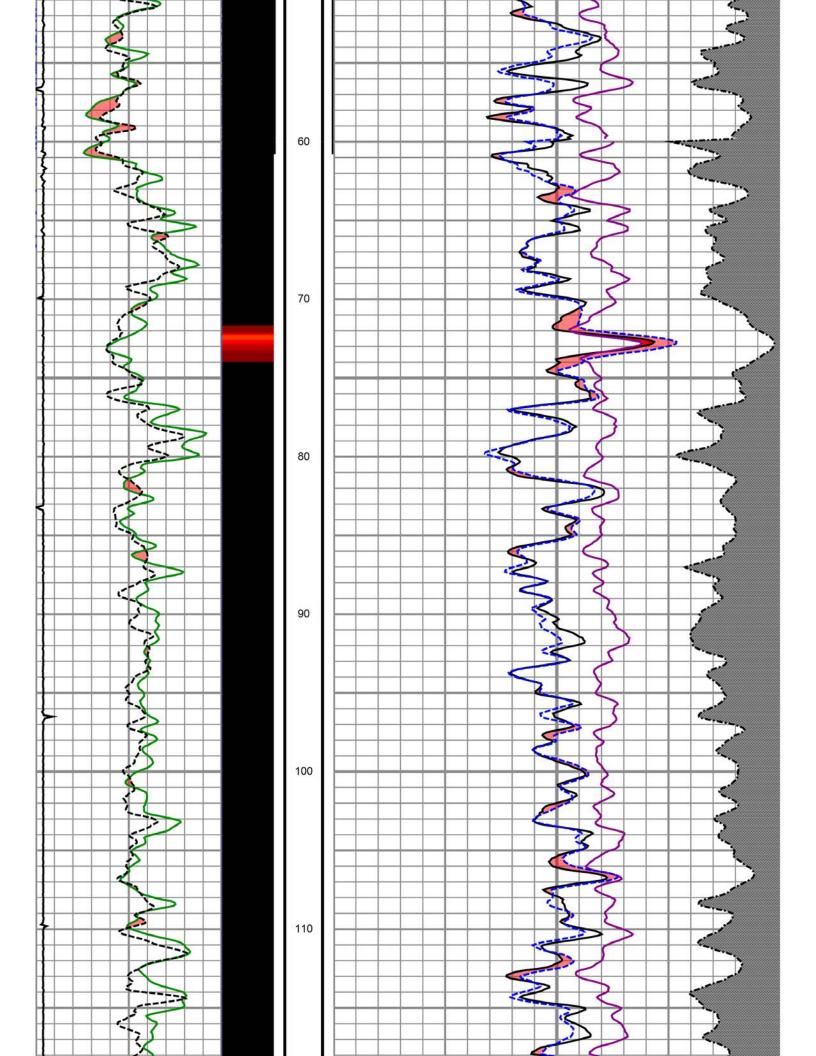
Measured Depth

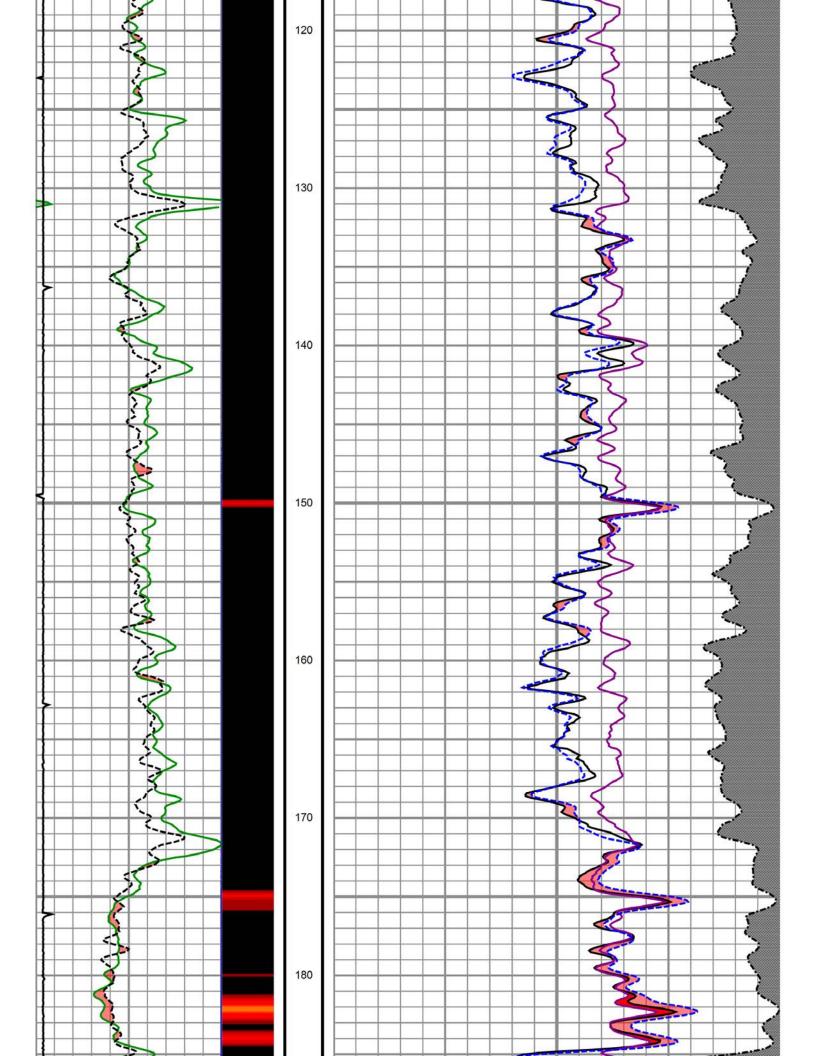
X:\DATA\JOB DATA\2015\09_SEP\150903-VB2 EMBER 9-15-26-26\150903-VB2 PROC AK

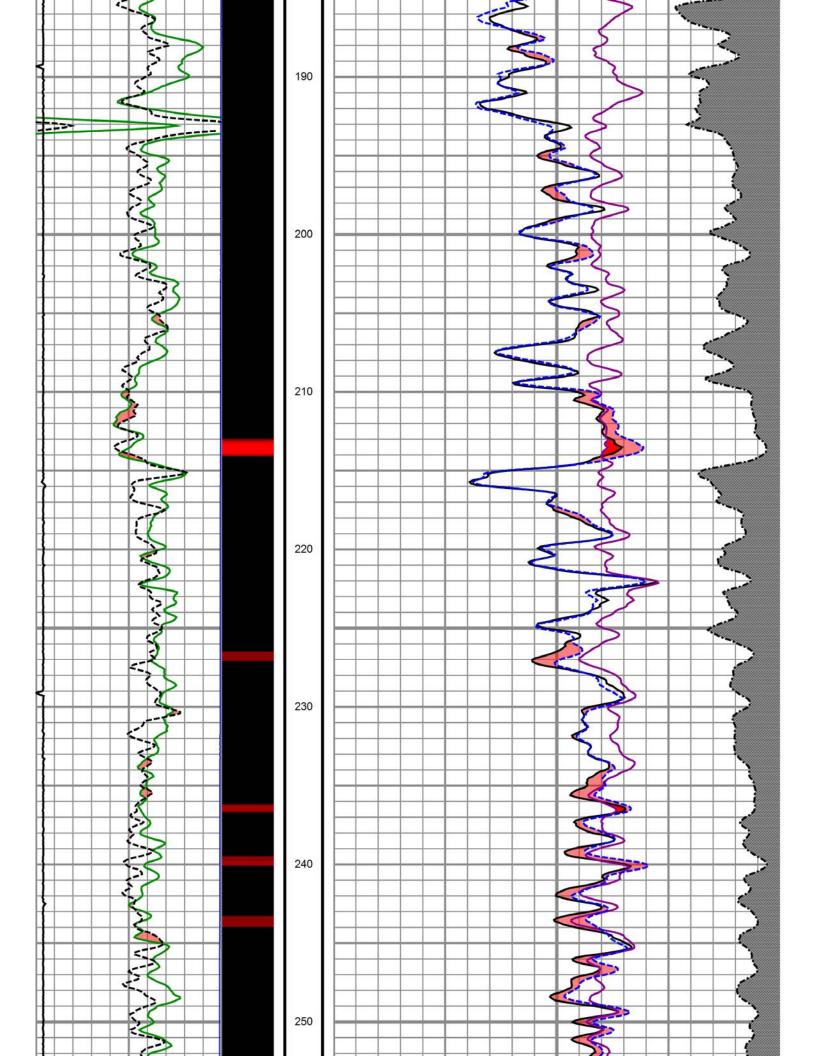
Primary Pass:pass2.las Processing:QN-M Charted by: akalistratov@roke.ca

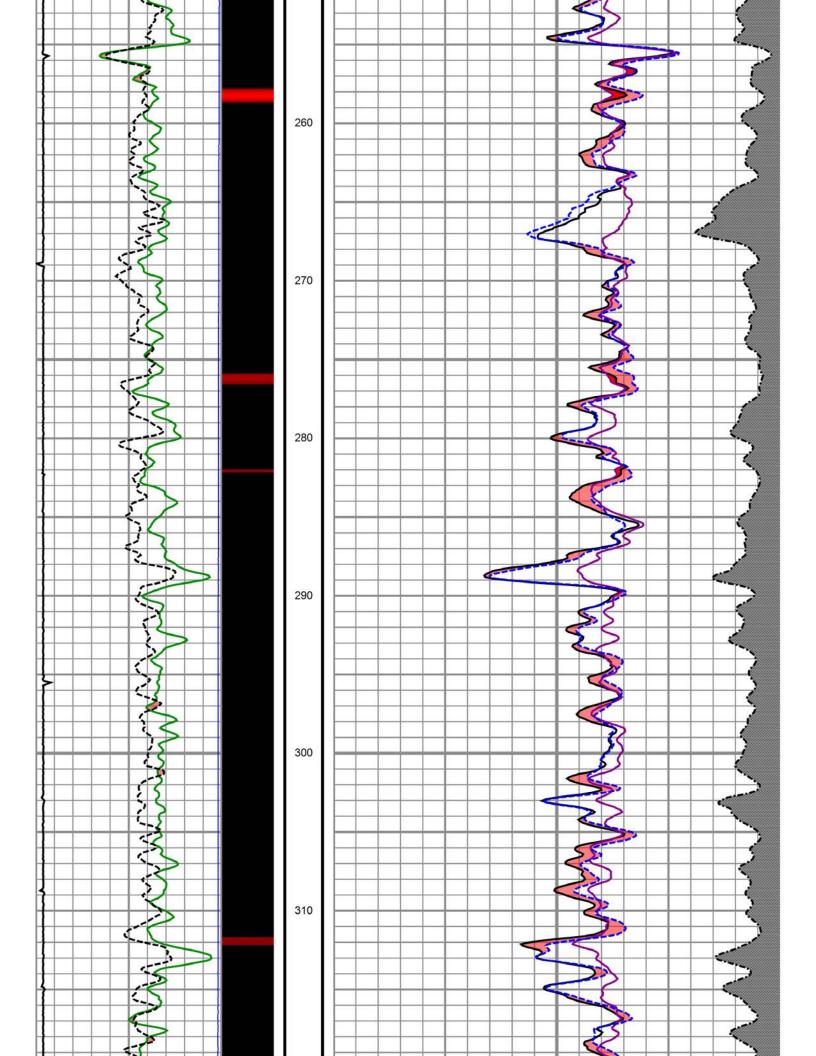
2.6 - 814.0 m

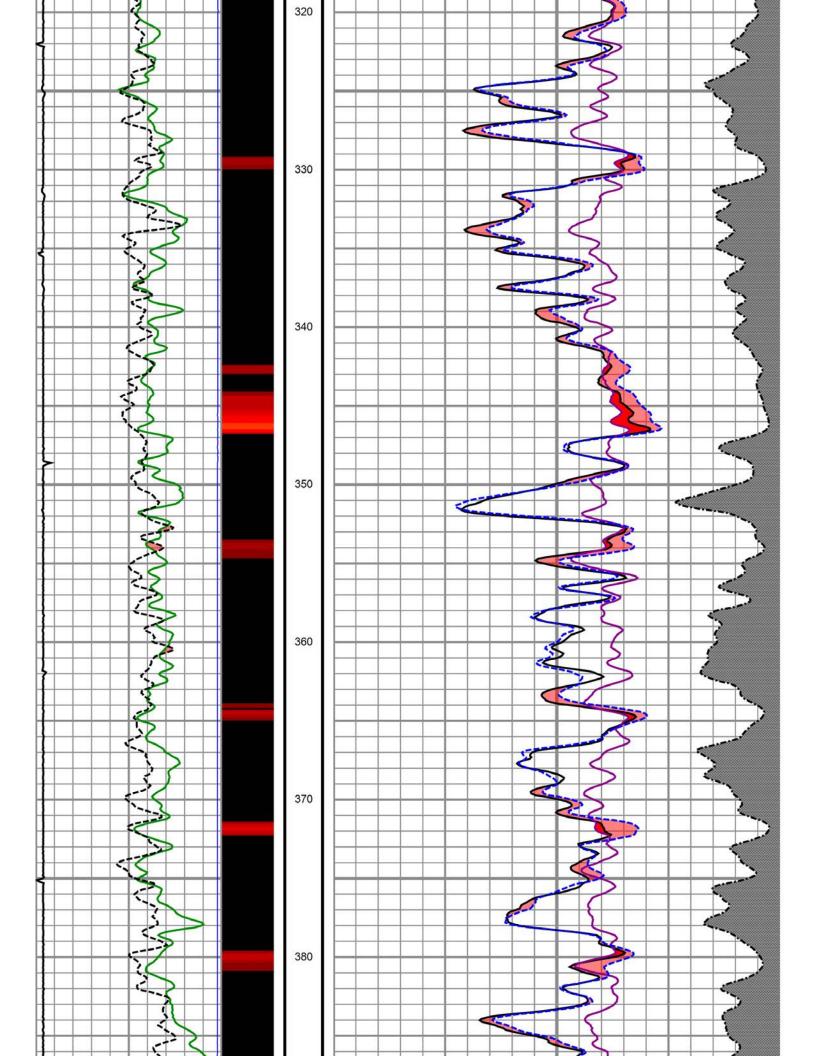


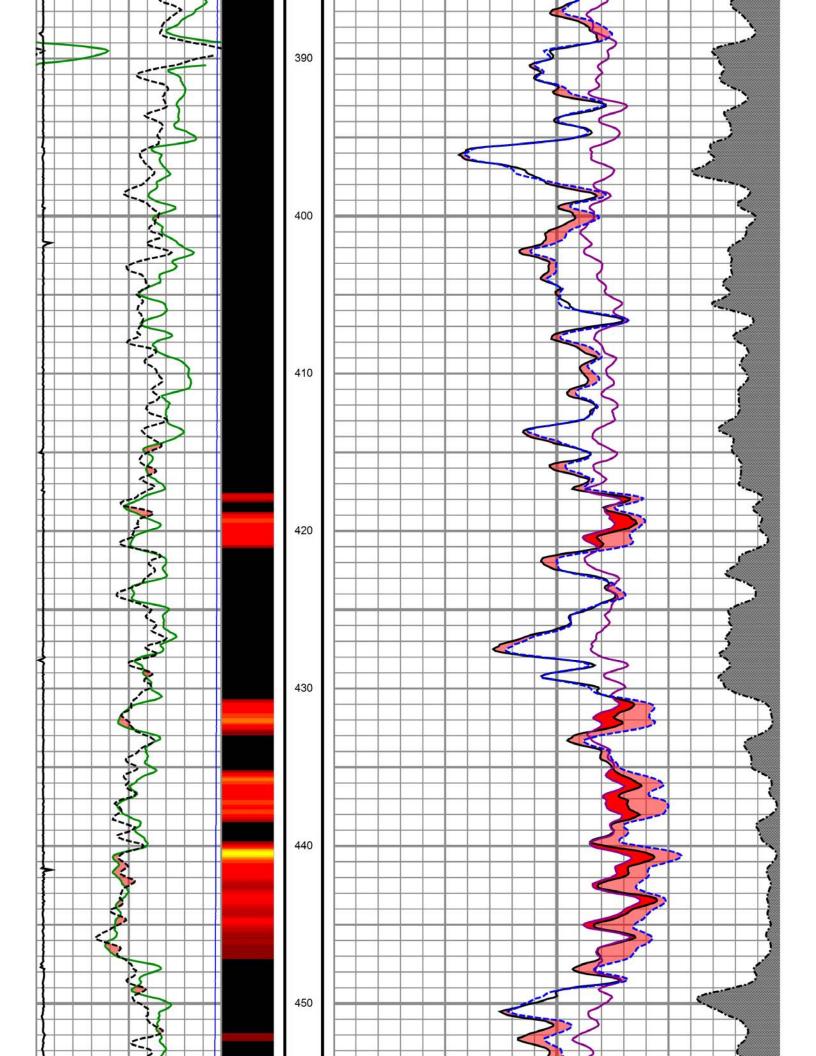


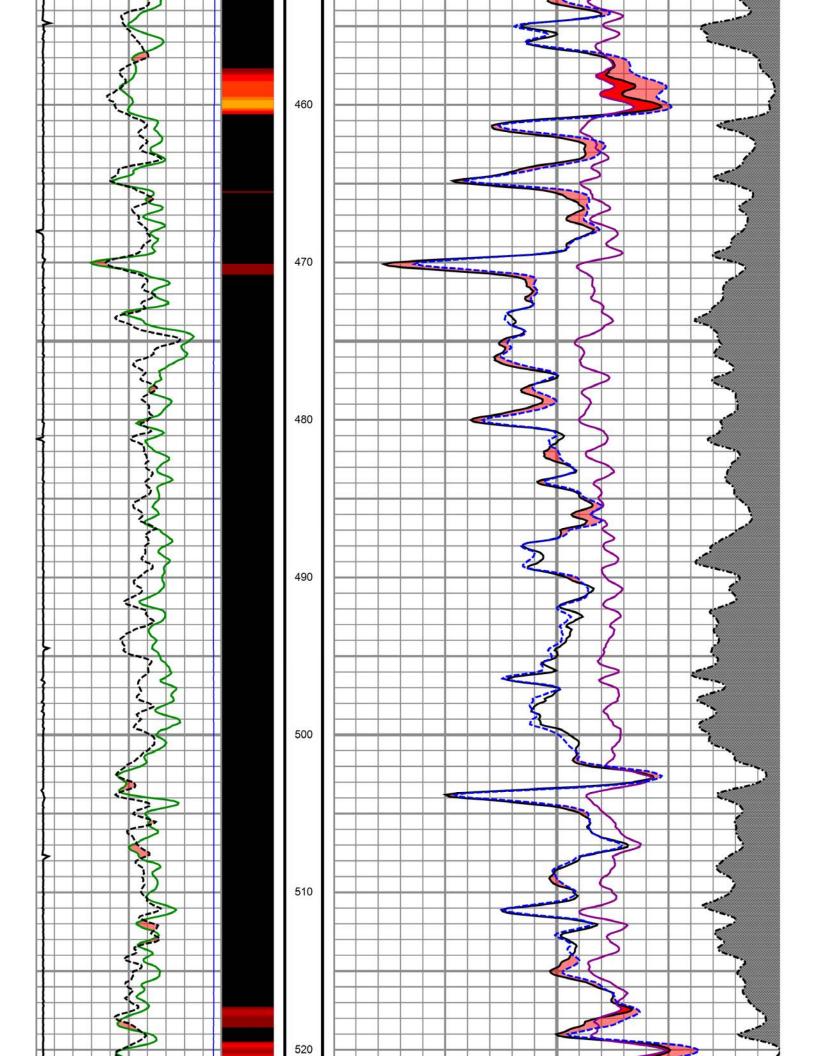


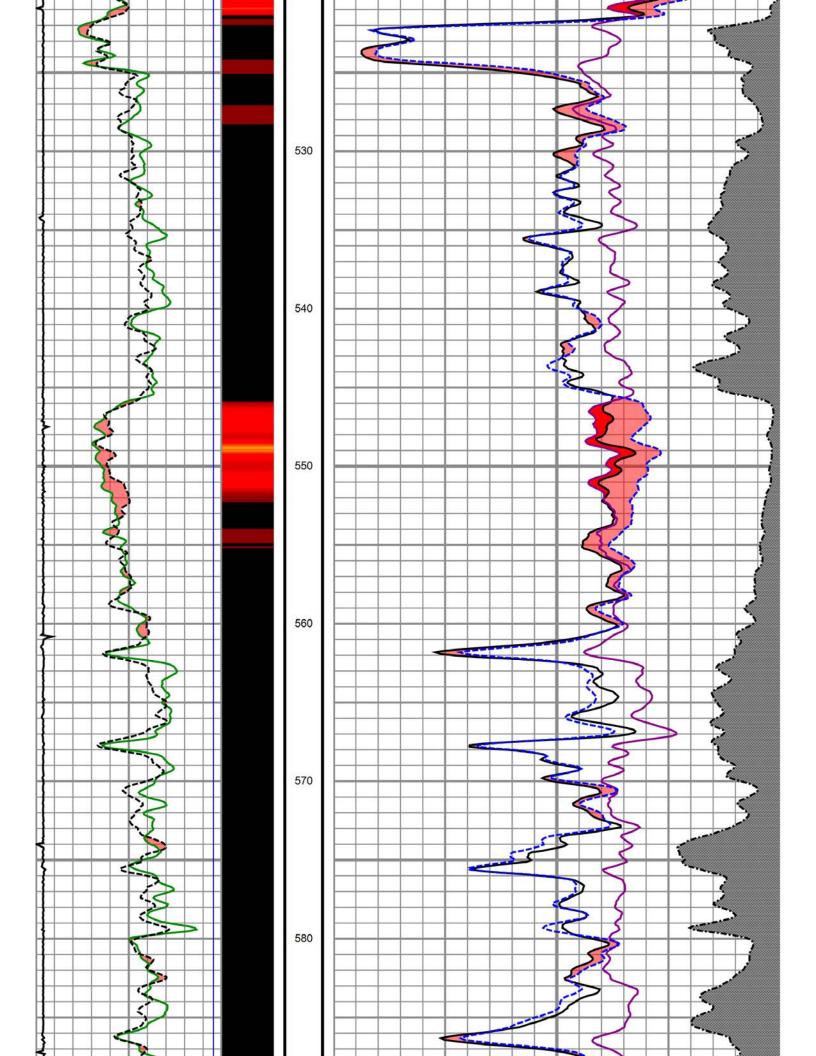


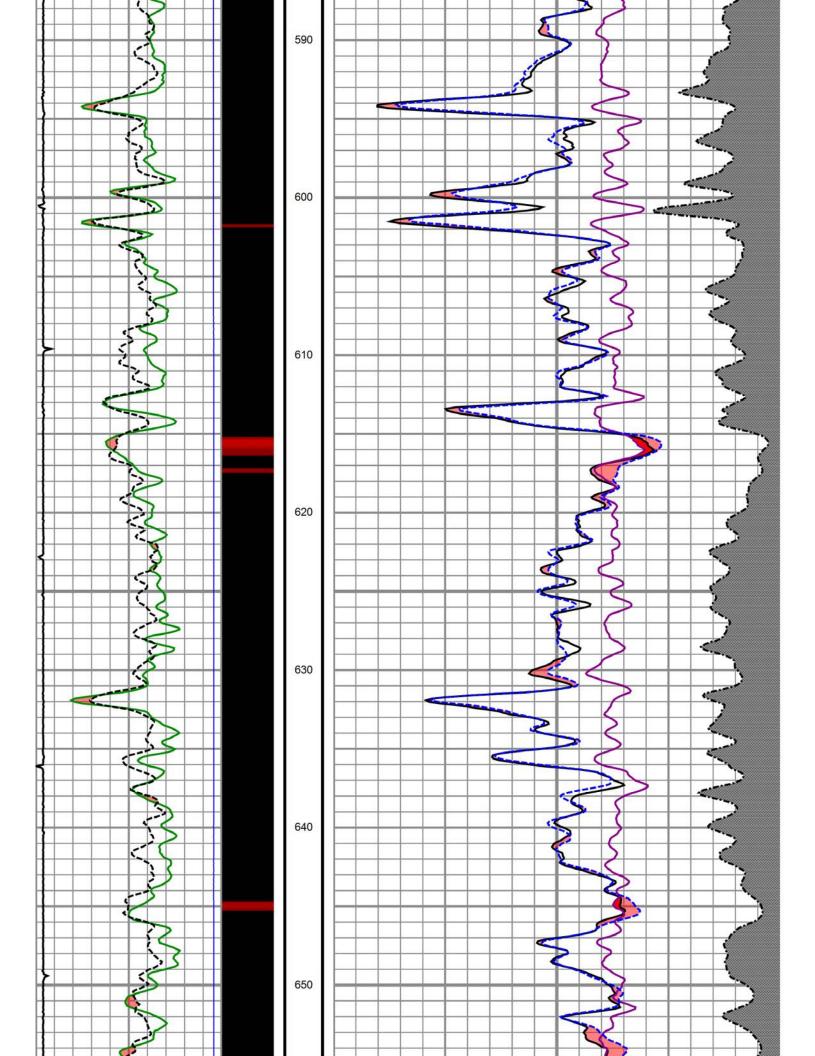


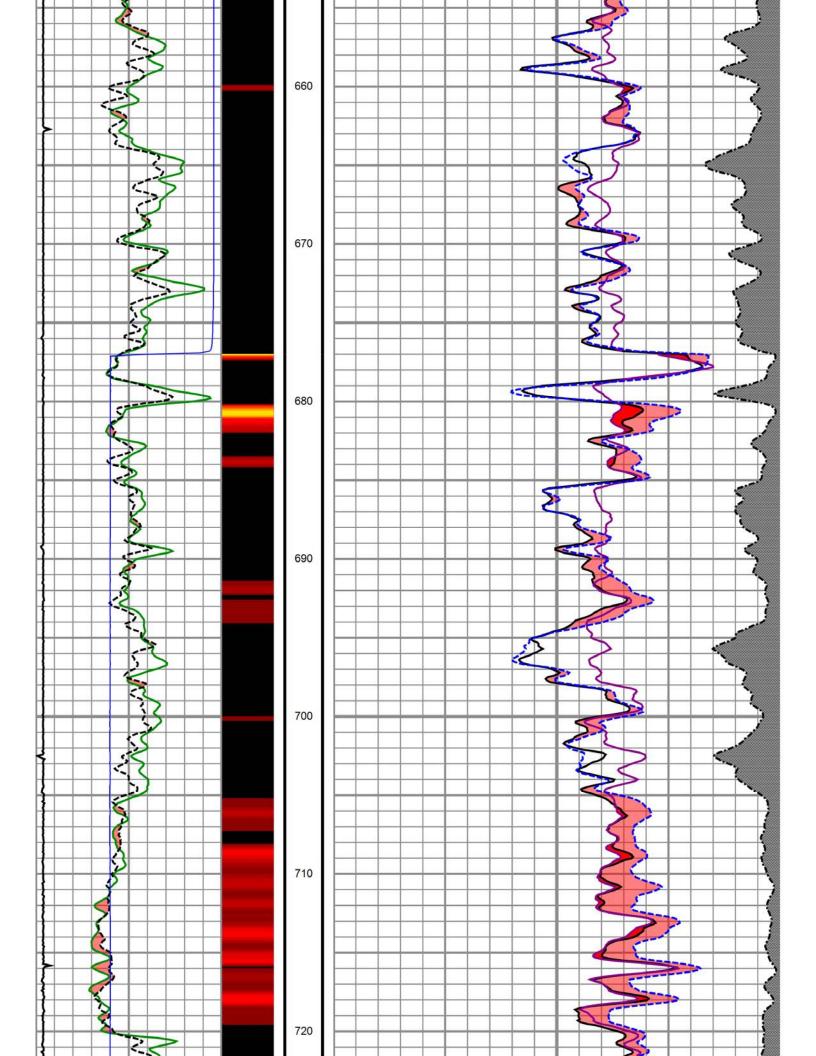


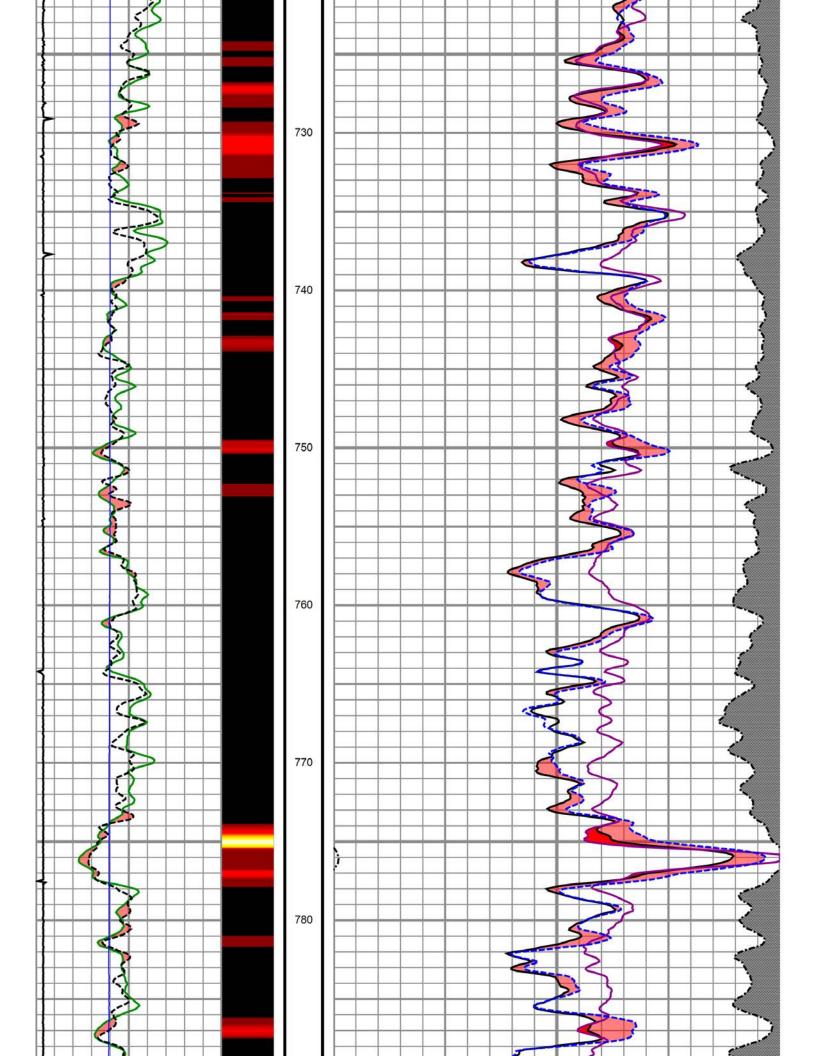


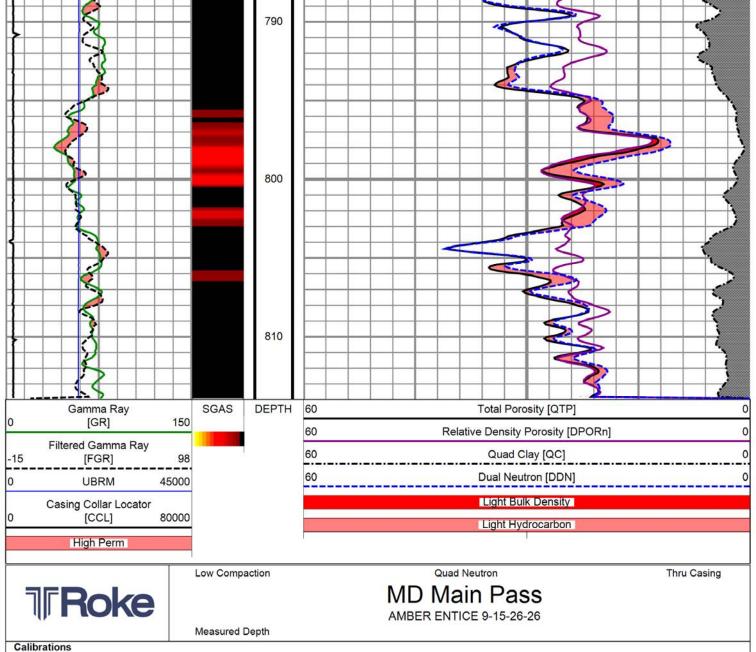












-20.5

DDN

ı																
ı	Curve	Gain	Shift	Filter	Offset	Curve	Gain	Shift	Filter	Offset	Curve	Gain	Min	Max	Filter	Offset
ı	GR	0.909	0	1	3.81	FGR	1.7	0	1	3.28	LNG	0.97	1.012	1.096	1.5	1.43
ı	UBRM	1.032868	0	0	4.23	UHT	0.004052	-160.49	1	4.23	LNN	1.05	1.006	1.077	1.2	0.88
ı	CCL	1	0	0	2.42						SNG	0.9	0.942	0.991	1.8	1.31
ı											CAIN	0.07	0.000	4 445	4 5	0.00

Zone 1									
Top: 2.61 m	Bottom: 60.00 m	low compaction	nuclear ca	aliper gain:1	water:30 kppm	oil:15 API	f-factor:20	ce gain:0	clay tie:58
Curve	A	В	Gain	Shift	Curve	WT	Cutoff	Min	Max
QTP	65	-6	1	0	DGR	0	10	0	65
QL	30.25	-35.5	1.1	-8	GR	0	20	0	60
DDN	2.16	-20.9	0.9	-2	DDN	25	4	0	60
QC	0.0012	-2	0.3	-2	QC	0	2	0	100
SNNp	-134	56	-134	56	PROP	0	0	0	60
LNNp	-15	39.5392	-15	39.53924	CE	0	3	0	60
SNGp	-129	89.6952	-129	89.69516	COAL	1	42	0	60
LNGp	-22	55.306	-22	55.30599	calcite	1	15	0	60
FGR	1	0	1	0	CEp	75	4	0	100
CEp	1	0	2.2	25					
SNNpost	1	0	1	0					
SNGpost	1	0	1	0					
CNL	1	0	1	3					
IntCounts	1	0	1	0					
Saturation	QLce coll maxclay:False	ddn:0 coll swqcfp:True	clay:20 use snnp-lnnp:False	boundwater:0 snnp-lnnp:0	waterfreeoil:0.65	boundoil:0.2	filter:0.3	swak:	False
Lithology	shale:6	silt (bliquid):15	sand:0	collector:6	calcite min:-2	calcite max:-7	coal porosity:42	hcoal:	65
	use:qc fe100:20	lgrshale:65 nofe:20	Igrsand:40	Igrcollcut:1	carbonate:False	dolasmud:False	minclayfe:20	qtpqlfe	e:20
Zone 2									
Top: 60.00 m	Bottom: 677.00 m	low compaction	nuclear ca	aliper gain:1	water:30 kppm	oil:15 API	f-factor:20	ce gain:0	clay tie:342
Curve	A	В	Gain	Shift	Curve	WT	Cutoff	Min	Max
QTP	65	-2	1	4	DGR	0	10	0	65
QL	30.25	-23	1.1	4.5	GR	0	20	0	60
2011	_		The state of the s	2.2			12.70		

DDN

60

56 37.0715 87.2641 53.6286 0 0 0 0 0 0 0 0 0 ddn:0 coll swqcfp: is (bliquid): igrshale:115 nofe:20	15 sand:0	56 37.07154 87.26411 53.6286 0 23 0 0 3 0 0 snp-Innp:0 collector:6 lgrcollcut:1	PROP CE COAL calcite CEp		0 3 42 15 4	0 0 0 0 0	60 60 60 60 100
87.2641 53.6286 0 0 0 0 0 0 0 0 ddn:0 coll swqcfp:1 silt (bliquid): pc grshale:115 nofe:20	-129 -21 1 2.2 1 1 1 1 clay:20 Frue use snnp-Inn 15 sand:0	87.26411 53.6286 0 23 0 0 0 3 0 boundwater:0 snnp-Innp:0 collector:6	COAL calcite CEp	1 1 75 65 boundoil:0.2	42 15 4	0 0 0	60 60 100
53.6286 0 0 0 0 0 0 0 0 0 0 ddn:0 coll swqcfp:' coll swqcfp:' coll sydcfp:' coll sydcf	-21 1 2.2 1 1 1 1 clay:20 Frue use snnp-Inn 15 sand:0	53.6286 0 23 0 0 0 3 0 boundwater:0 snnp-Innp:0 collector:6	calcite CEp	75 55 boundoil:0.2	15 4	0	60 100
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2.2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 23 0 0 3 0 boundwater:0 snnp-Innp:0 collector:6	CEp waterfreeoil:0.0	75 55 boundoil:0.2	4	0	100
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.2 1 1 1 1 1 clay:20 Frue use snnp-Inn 15 sand:0	23 0 0 3 0 boundwater:0 snnp-Innp:0 collector:6	waterfreeoil:0.6	55 boundoil:0.2			
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 clay:20 Frue use snnp-Inn 15 sand:0	0 0 3 0 boundwater:0 snnp-Innp:0 collector:6	waterfreeoil:0.6		filter:0.3	swak:	False
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 clay:20 Frue use snnp-Inn 15 sand:0	0 0 3 0 boundwater:0 snnp-Innp:0 collector:6			filter:0.3	swak:	False
o ddn:0 coll swqcfp:1 coll syqcfp:1 silt (bliquid): coll grshale:115 nofe:20	Frue use snnp-lnn 15 sand:0	3 0 boundwater:0 snp:False snnp-Innp:0 collector:6			filter:0,3	swak:	False
o ddn:0 coll swqcfp:1 coll syqcfp:1 silt (bliquid): coll grshale:115 nofe:20	Frue use snnp-lnn 15 sand:0	boundwater:0 p:False snnp-lnnp:0 collector:6			filter:0.3	swak;	False
ddn:0 coll swqcfp:7 coll swqcfp:7 silt (bliquid); coll grshale:115 nofe:20	Frue use snnp-lnn 15 sand:0	boundwater:0 p:False snnp-lnnp:0 collector:6			filter:0.3	swak:	False
naxclay:False coll swqcfp:1 :6 silt (bliquid); ip lgrshale:115 nofe:20	Frue use snnp-lnn 15 sand:0	p:False snnp-lnnp:0 collector:6			filter:0.3	swak:	False
naxclay:False coll swqcfp:1 :6 silt (bliquid); ip lgrshale:115 nofe:20	Frue use snnp-lnn 15 sand:0	p:False snnp-lnnp:0 collector:6					
c silt (bliquid); c lgrshale:115 0:20 nofe:20	15 sand:0	collector:6	calcite min:-2				
gc Igrshale:115 0:20 nofe:20				calcite max:-7	coal porosity:42	hcoal:	65
nofe:20	.5		carbonate:Fals			qtpqlfe	
m: 814.00 m low cor					,	4.54	
m: 814.00 m low cor							
	mpaction n	uclear caliper gain:1	water:30 kppm	oil:15 API	f-factor:20	ce gain:0	clay tie:766
В	Gain	Shift	Curve	WT	Cutoff	Min	Max
-9	1	-3	DGR	0	10	0	65
-32	1.1	-4.5	GR	0	20	0	60
-28.5	1	-7.5	DDN	25	4	0	60
4 -1.5	0.35	-1.5	QC	0	2	0	100
56	-104	56	PROP	0	0	0	60
40.457	-9	40.45697	CE	0	3	0	60
87.2347	-109	87.23473	COAL	1	42	0	60
59.2012	-15	59.20124	calcite	1	15	0	60
0	1	0	CEp	75	4	0	100
0	2.2	23	- P		**		1,150
0	1	0					
0	1	0					
0	1	3					
	1	0					
1 5	clay:20	•	waterfreeoil-0.6	65 boundoil 0.2	filter 0.3	swak.	False
	A CONTRACTOR OF THE PARTY OF TH		Trace III Cooli. C.	Soulidon.o.E	11101.0.0	Swar.	0.00
			calcite min:-2	calcite may:-7	coal norogity:42	hcoal.	65
	igraditu.30	igi collout, I	Cai Donate, Fais	dolasiiidu.Faist	minolayie.20	dibdii	
naxclay:Fa ::6 gc 0:20	0 ddn:0 alse coll swqcfp:1	0	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 ddn:0 clay:20 boundwater:0 waterfreeoil:0.65 boundoil:0.2 filter:0.3 swak:1