

Fluid Level

Type Fluid

dry

N/A

Wellhead Pressure

Cement Top

Third Party Ref. #

5.4 m above P.D. Elevation 953.50 m

Elevation 958.90 m 953.50 m

Province ALBERTA

None

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

Log is depth correlated to OH GR provided by customer.

Wellbore Information

From (m)

To (m) 113.00

Grade

0.00 0.00

1191.00

Latitude/Longitude Unit Location Hoist Unit # Maximum Deviation

Unit 3

35

250 KPA kPa 1160.00 m

Calgary

Correlation Log Name: Correlation Log Date:

Correlation Type: Correlation Point:

QUAD NEUTRON

TRoke

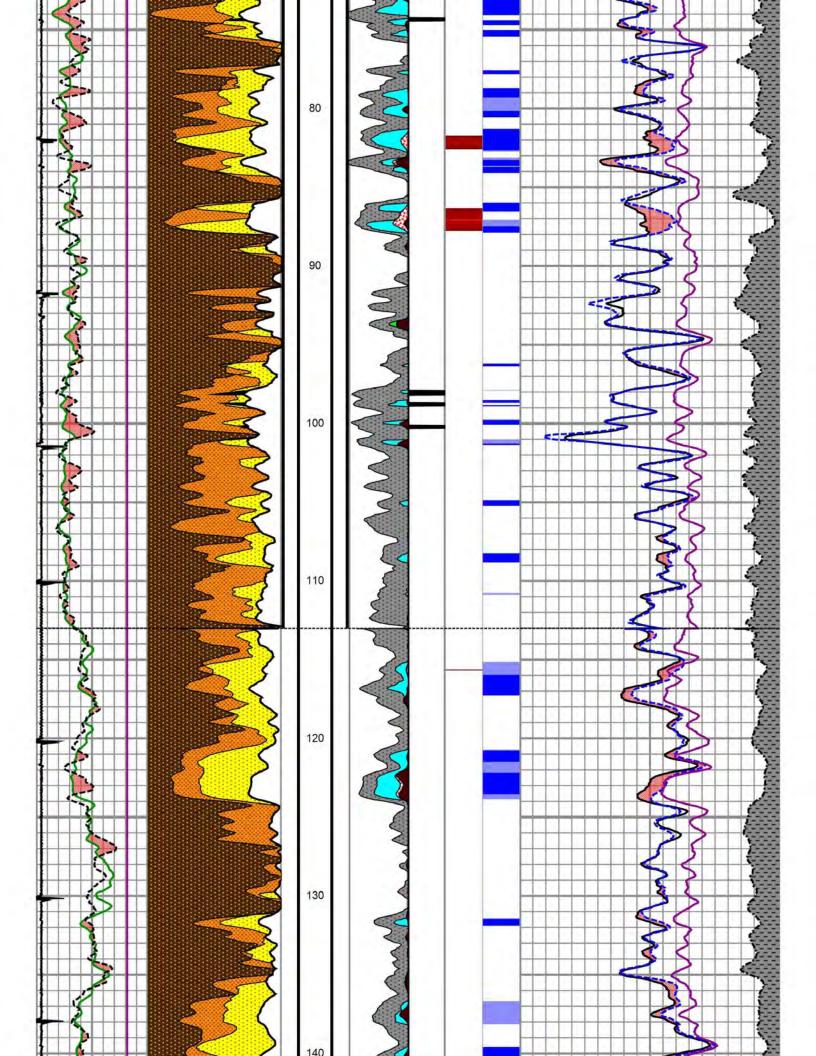
TOOL DIAGRAM

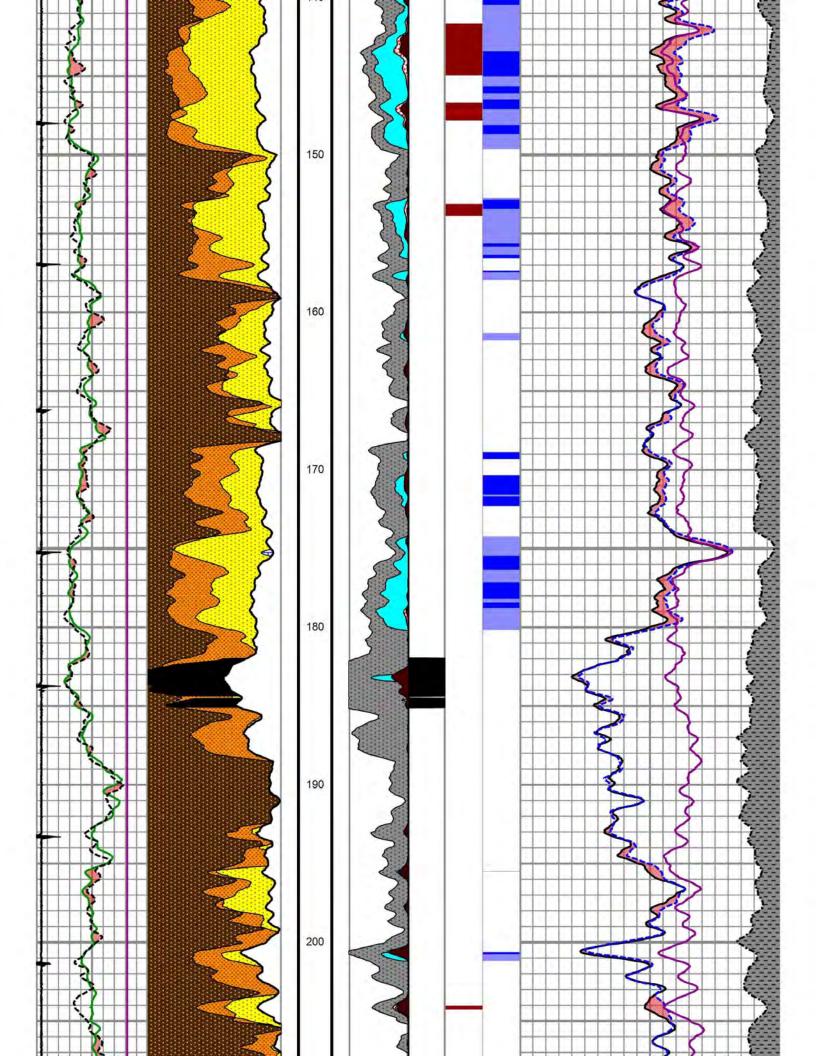
EMBER	ENTICE	6-34-24-25

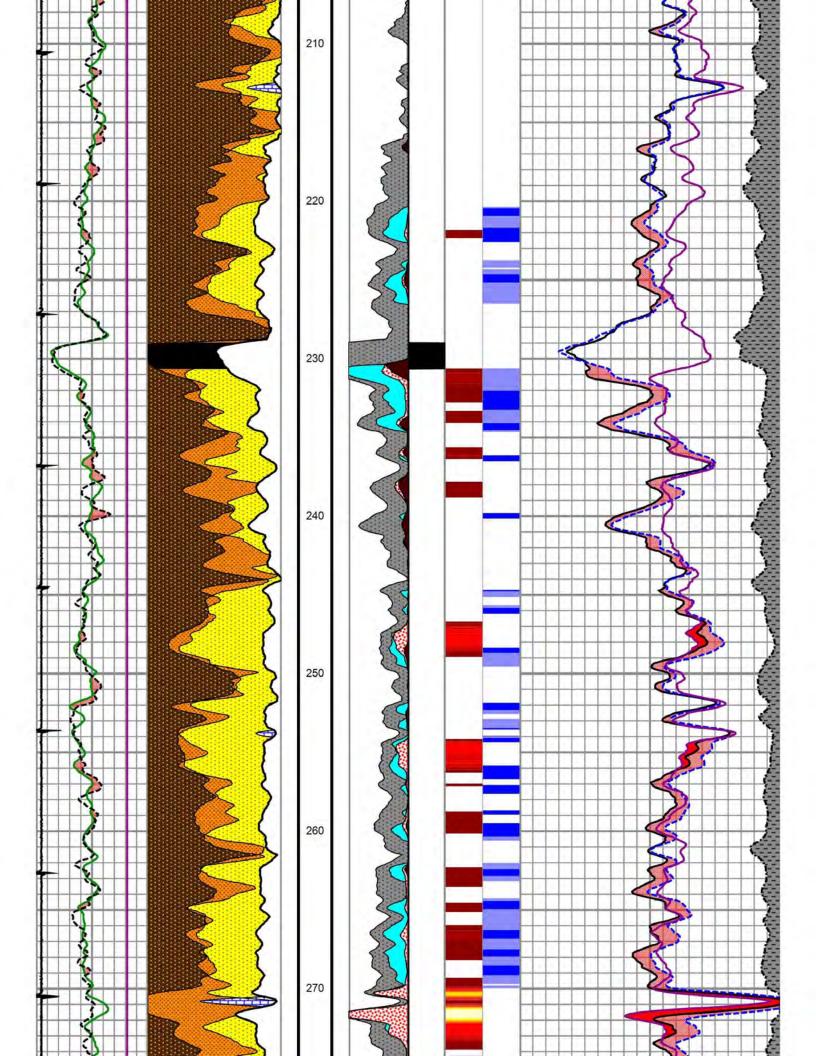
Sensor	Offset (m)	Schematic	Description	Len (m)	OD (mm)	Wt (kg)
UHT UBRM	4.68 4.68		CableHeadSub QuadV2 to BOI Cable Head Sub	0.23	43.00	1.36
GR	4.26					
FGR	3.73		QUADV2_TCA23 QuadV2 Telemetry Combo A	1.97	43.00	12.70
CCL	2.87					
LNG SNG SNN LNN			QUADV2_MNA25 QuadV2 MN Section	2.13	43.00	14.51
BBRM BHT	0.13 0.13		QUADV2_BHTA08 Sensors For Processing Dataset: QuadV2	0.48	43.00	2.72

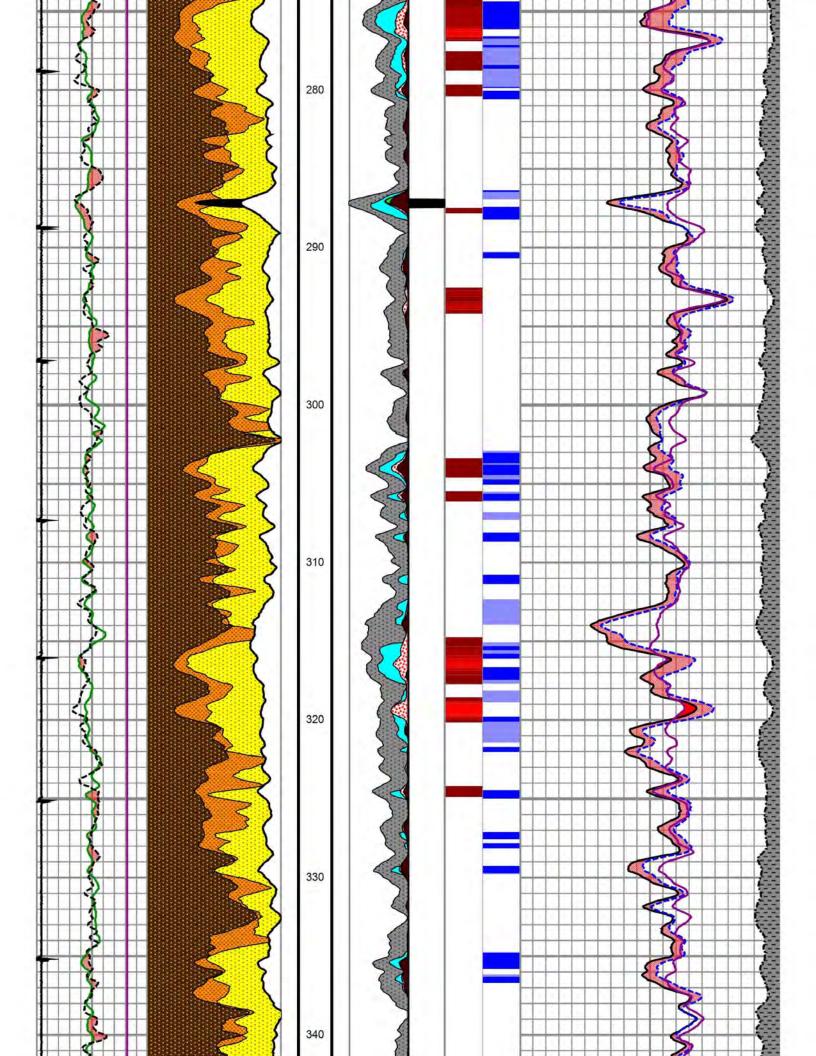
Dataset: Total Length: Total Weight: O.D.:

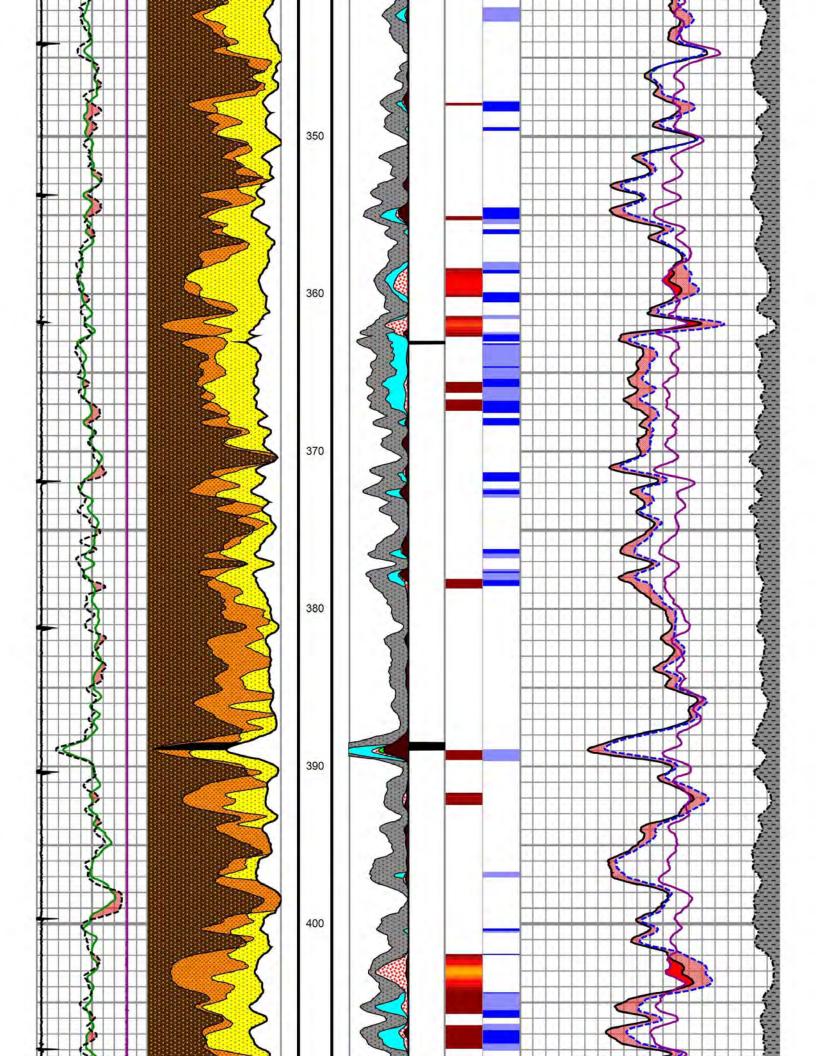
QuadV2 4.81 m 31.29 kg 43.00 mm

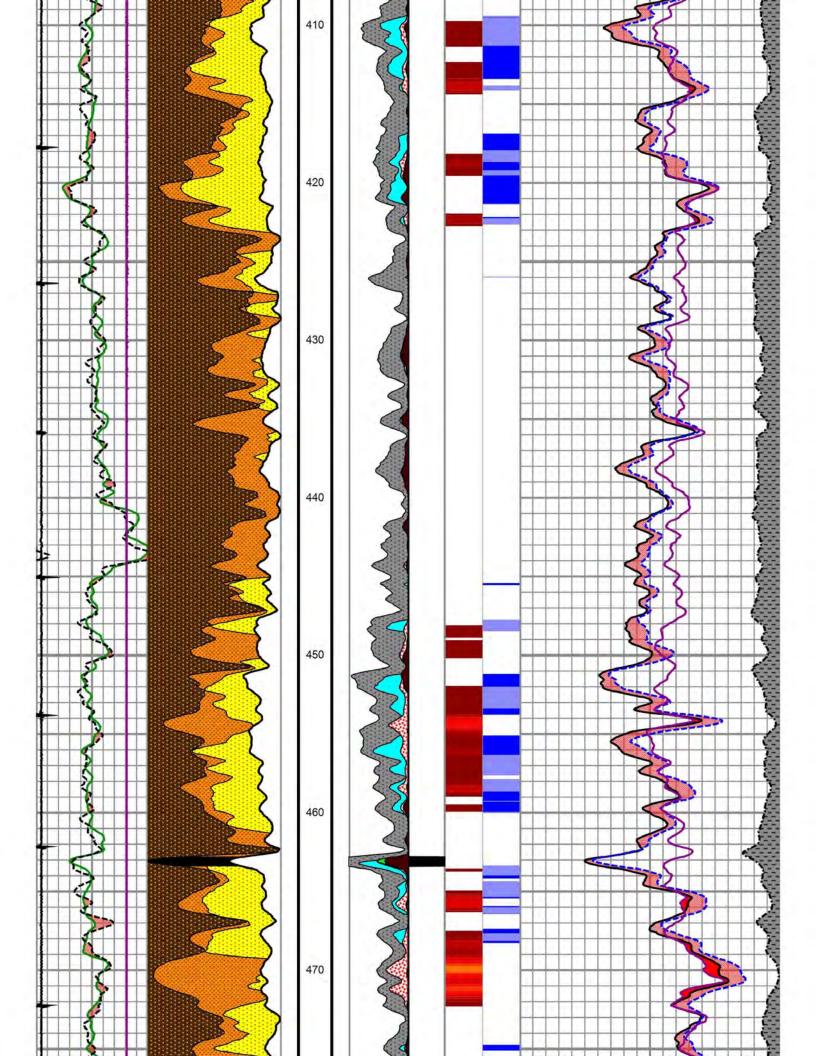


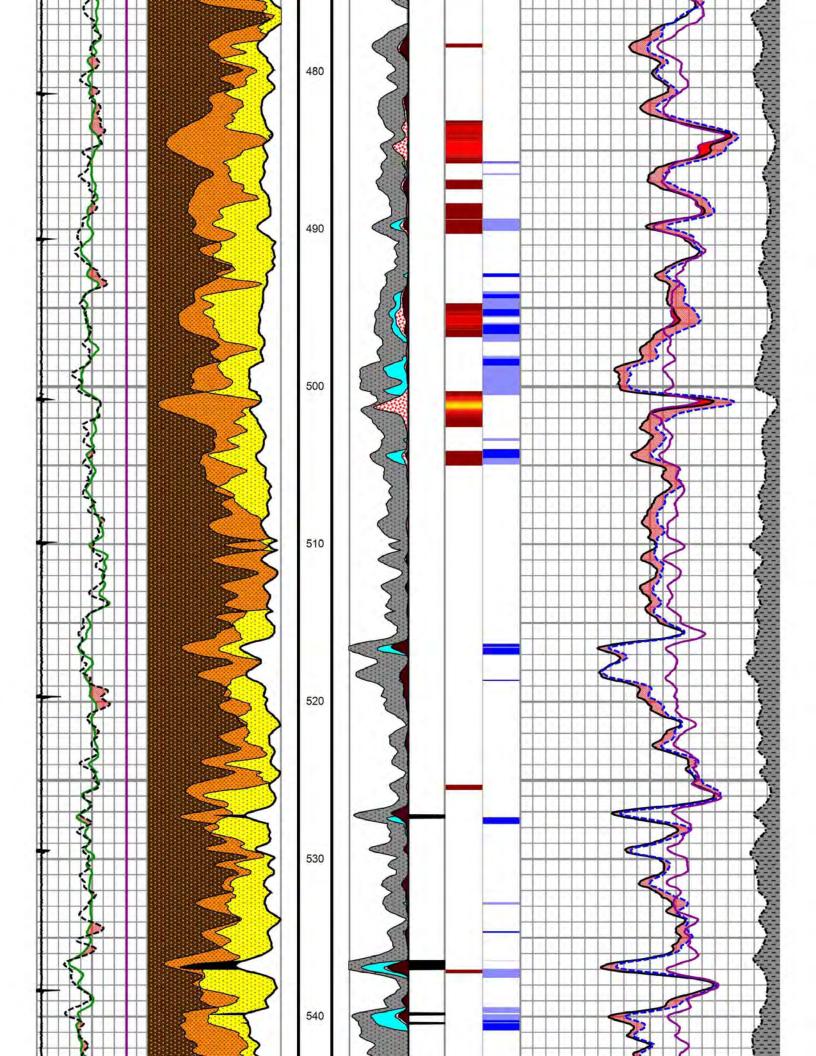


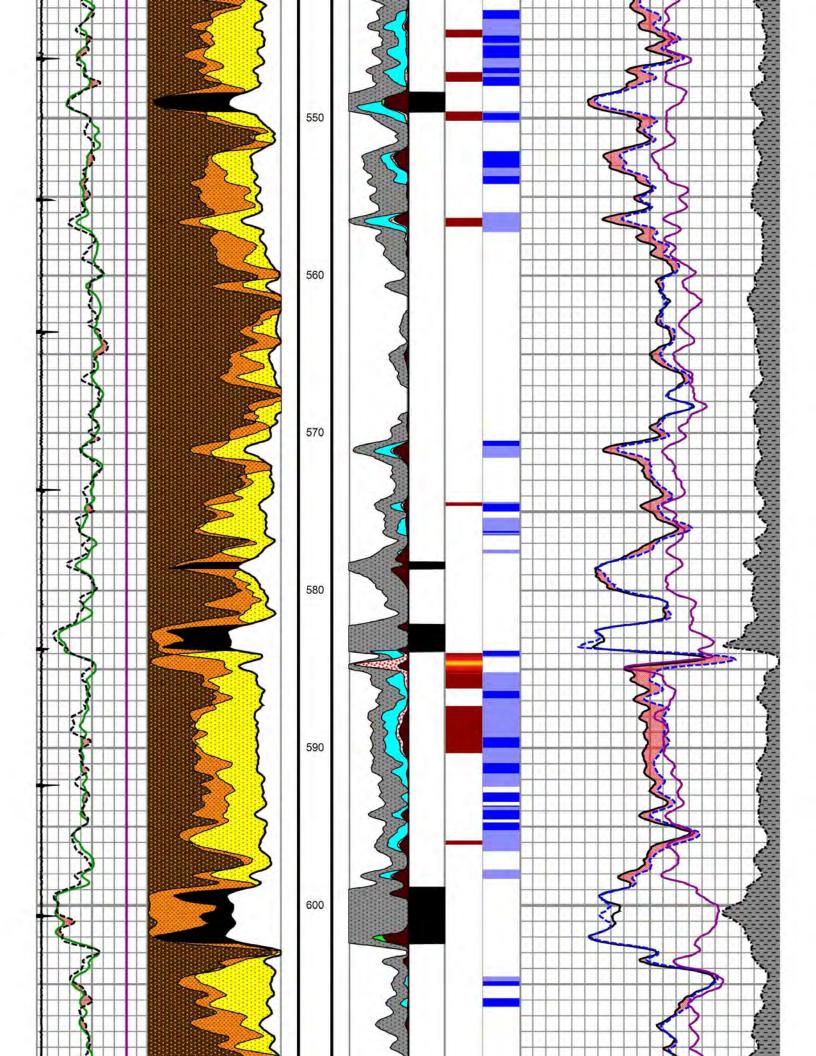


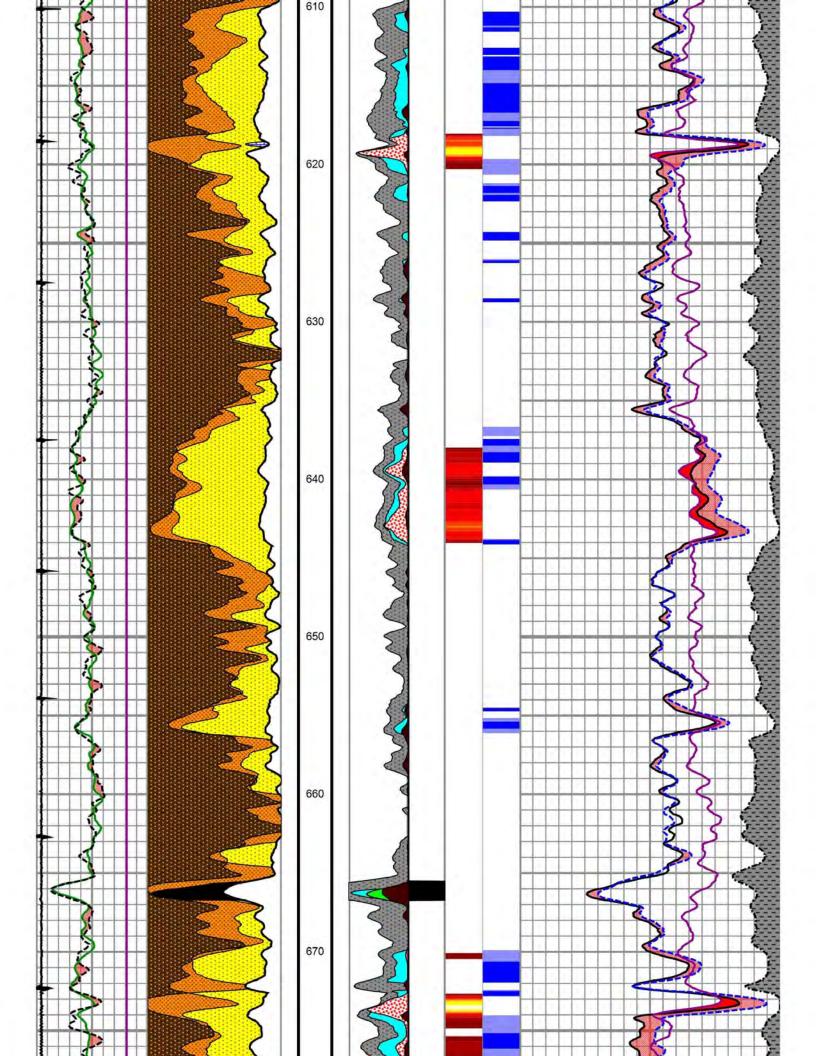


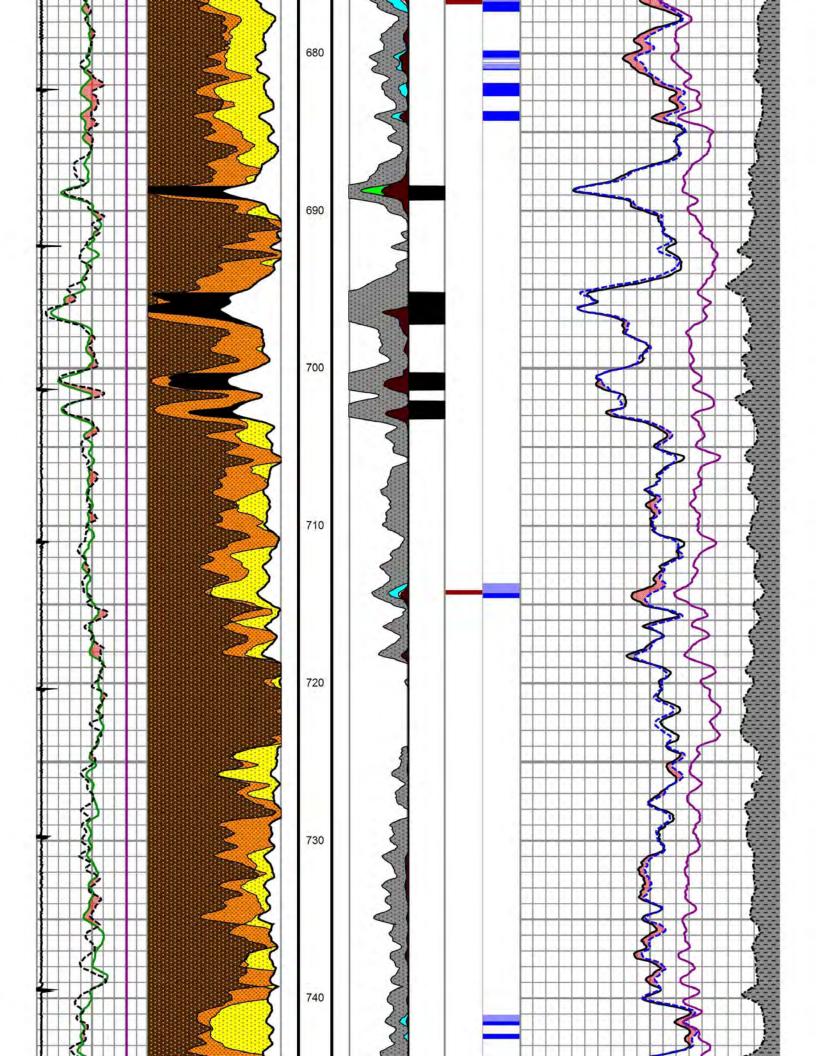


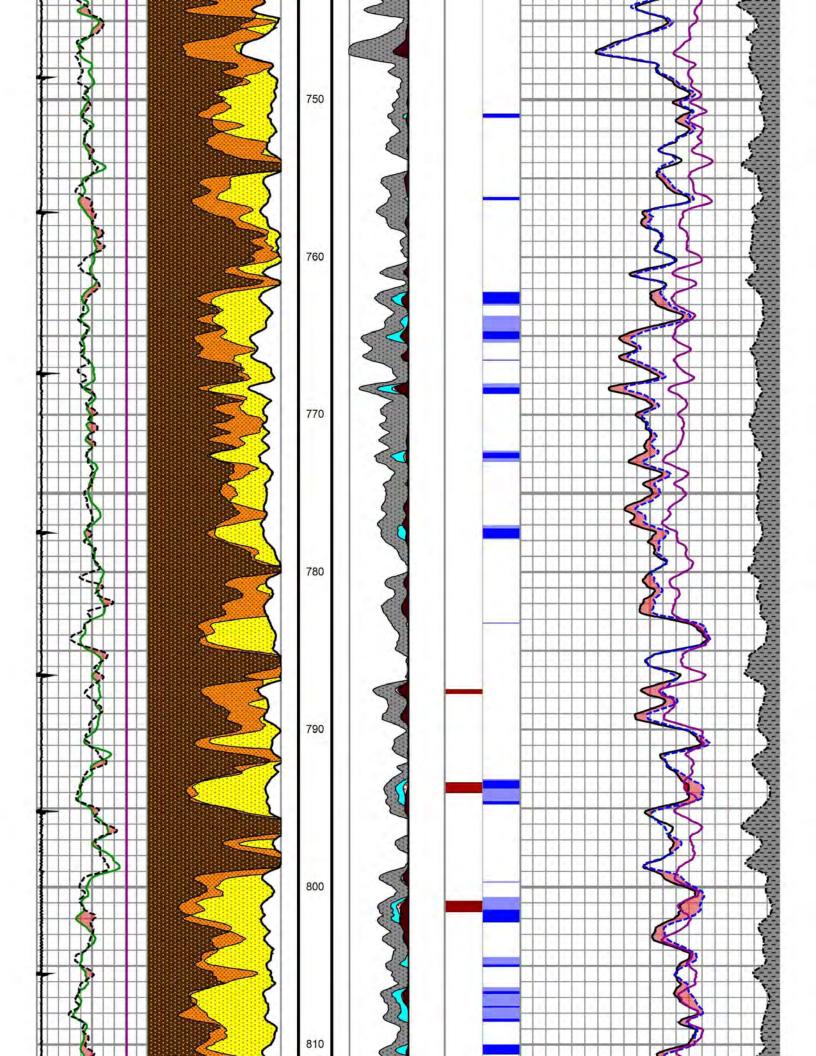


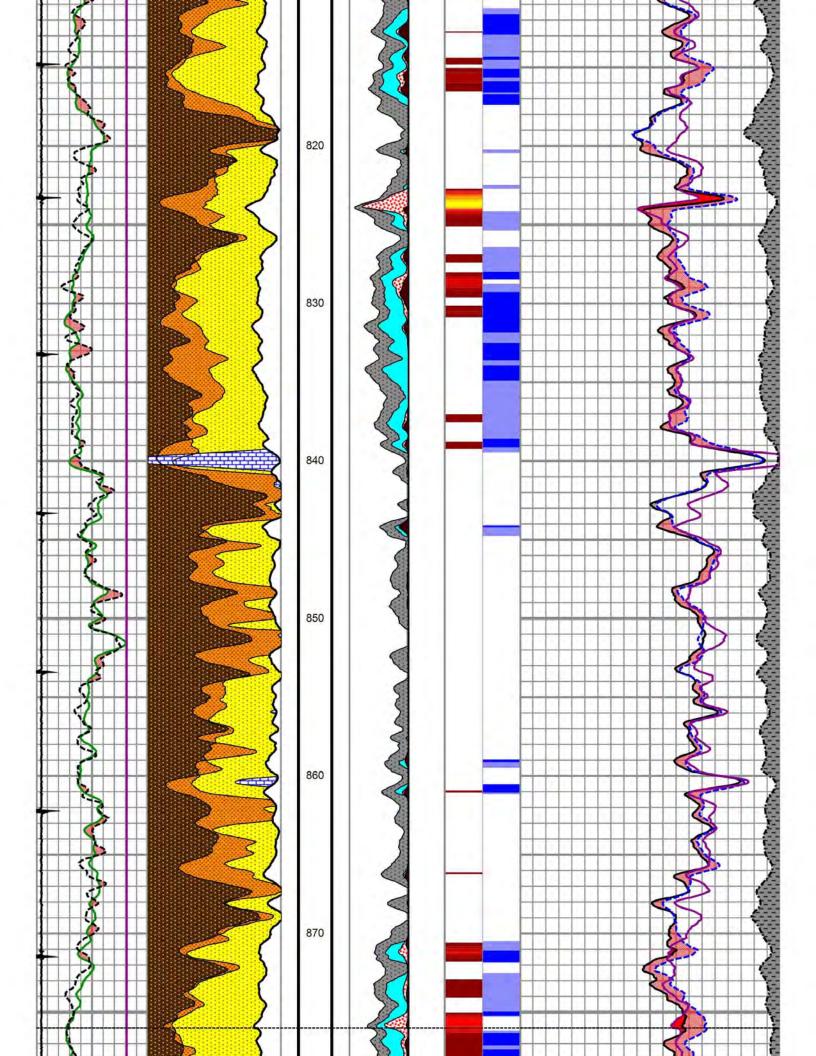


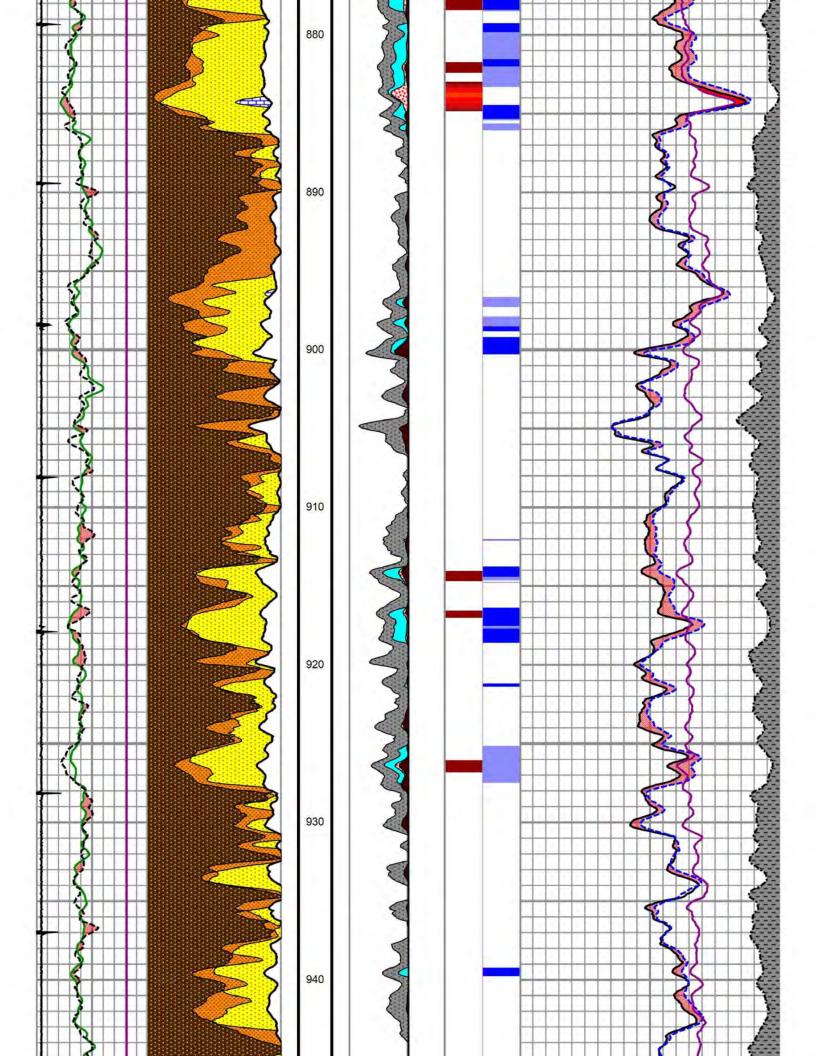


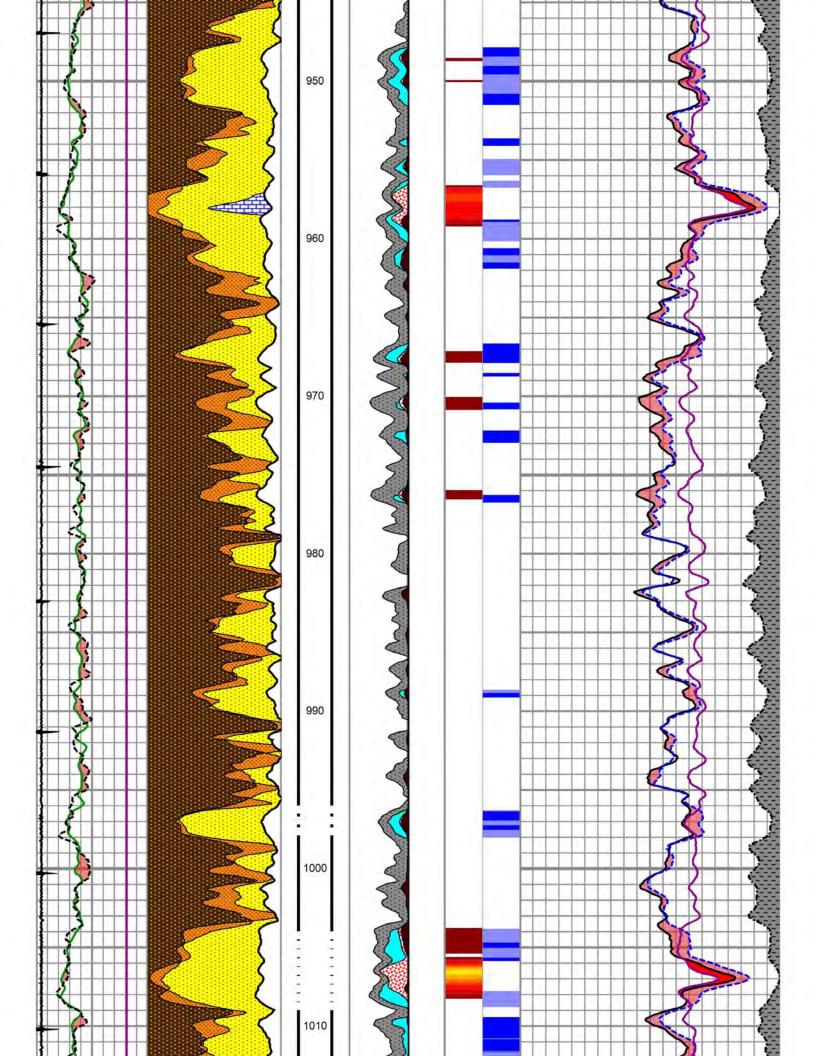


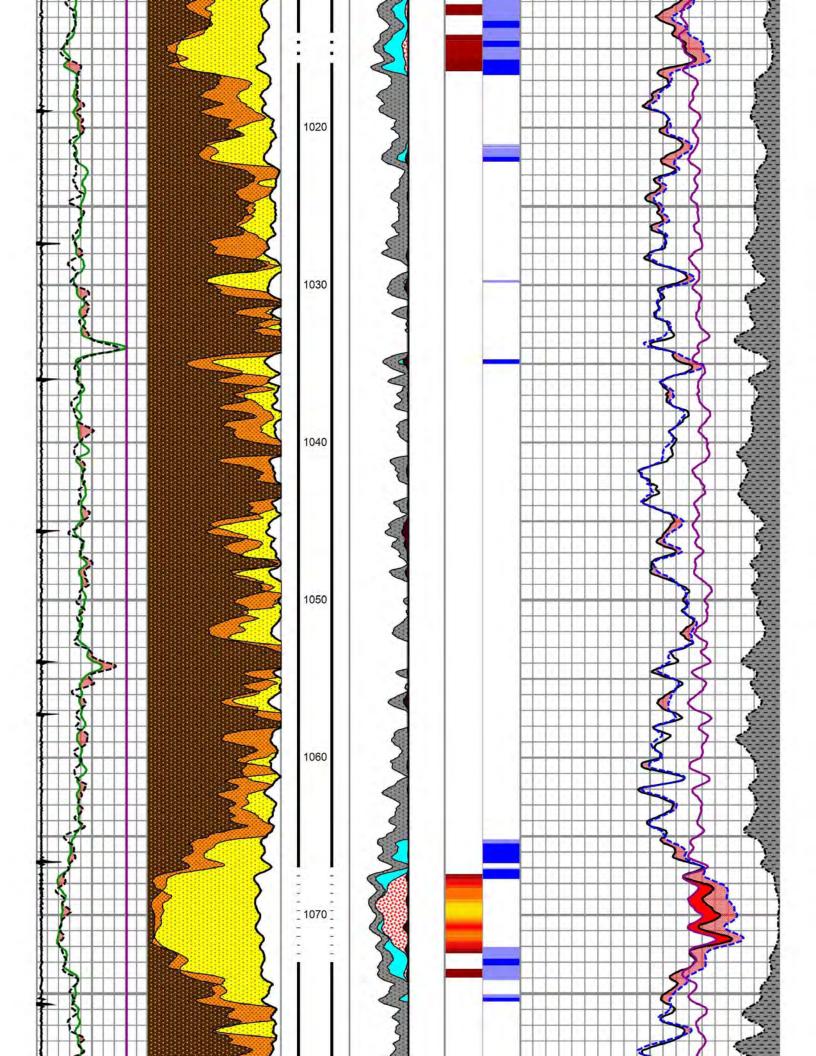


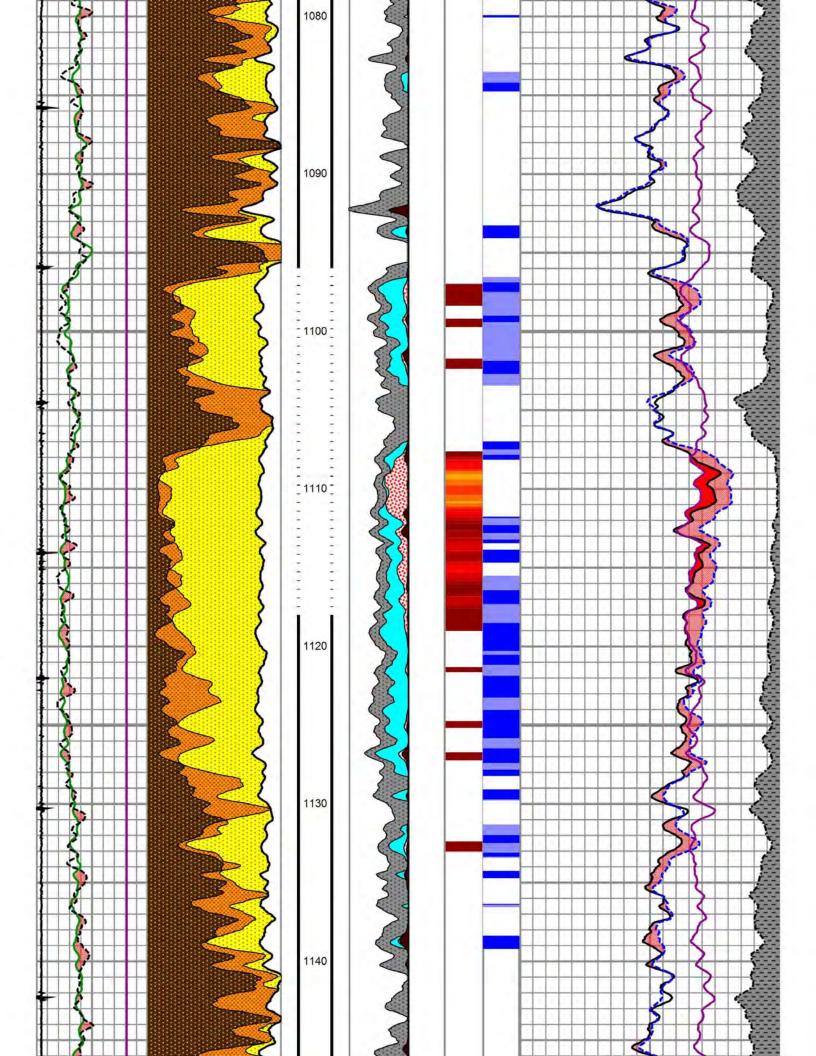


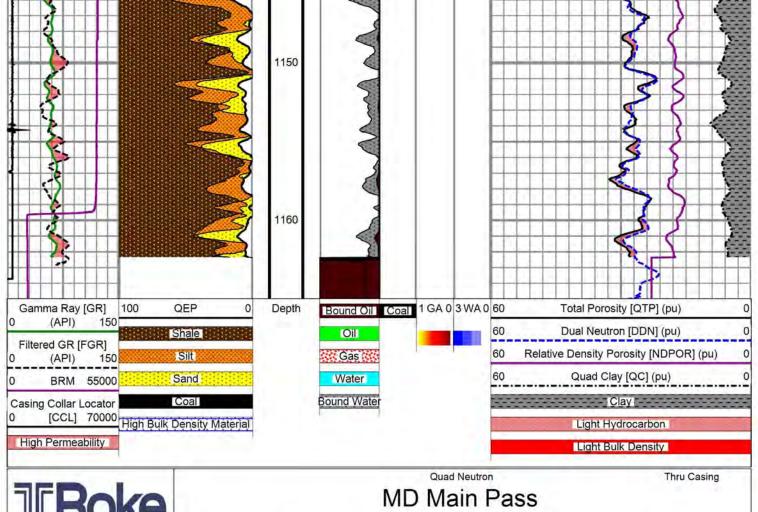












TRoke

EMBER ENTICE 6-34-24-25

25.0 - 1165.0 m

Calibrations

Curve	Gain	Shift	Filter	Curve	Gain	Shift	Filter	Curve	Gain	Min	Max	Filter
BBRM	0.972973	0	0	BHT	0.002385	-88.48	1	LNG	1.0252	1.012	1.156	1.5
CCL	1	0	0	FGR	1.5	0	1	LNN	1.118	1.006	1.177	1.2
UHT	0.003216	-155.1	1	GR	0.8	0	1	SNG	0.9257	0.942	1.15	1.8
								SNN	1.0144	0.938	1 135	1.5

Measured Depth

CASING 219.1 - m	m.								
Top: 25.00 m	Bottom: 113.00 m	low compaction		aliper gain:1	water:30 kppm	oil:15 API	f-factor:23	ce gain:0	clay tie:87
Curve	A	В	Gain	Shift	Curve	WT	Cutoff	Min	Max
QTP	65	-16	1	-10	DGR	0	10	0	65
QL	33	-45	1.2	-15	GR	0	20	0	60
DDN	2.4	-39.5	1	-18.5	DDN	35	8	.0	60
QC	0.001	-2.5	0.25	-2.5	QC	0	2	0	100
SNNp	-174	56	-174	56	PROP	0	0	0	60
LNNp	-13	46.2873	-13	46.2873	CE	0	3	0	60
SNGp	-159	83.2868	-159	83.2868	COAL	1	42	0	60
LNGp	-22	62.6591	-22	62.6591	calcite	7	15	0	60
FGR	1	0	1.8	0	CEp	65	4	0	100
CEp	1	0	2.2	23	2-101				
SNNpost	1	0	1	0					
SNGpost	1	0	1	0					
CNL	1	0	1	3					
IntCounts	1	0	1	0					
Saturation	QLce	ddn:0	clay:20	boundwater:0	waterfreeoil:0	boundoil:0	filter: 0.3	swak:	False
	coll maxclay:False	coll swqcfp:True	use snnp-lnnp:False	snnp-Innp:0	swoilcor: 120827-				
Lithology	shale:7	silt (bliquid):6	sand:0	collector:7	calcite min:-4	calcite max:-10	coal porosity:35	hcoal:	45
	use:qc	lgrshale:50	lgrsand:20	Igrcollcut:1	carbonate:False	dolasmud:False		qtpqlfe	
	fe100:20	nofe:20	HIsh:30	Larionov:old			//	445.40	
Effective Porosity	SH	lithology:gr shale/qc s							
CASING 219.1 - m	m								
Top: 113.00 m	Bottom: 876.00 m	low compaction	nuclear o	aliper gain:1	water:43 kppm	oil:15 API	f-factor:25	ce gain:0	clay tie:83
Curve	A	В	Gain	Shift	Curve	WT	Cutoff	Min	Max
QTP	65	-11	1	-5	DGR	0	10	0	65
QL	30.25	-29	1.1	-1.5	GR	0	20	0	60
DDN	2.16	-26.4	0.9	-7.5	DDN	35	8	0	60
QC	0.0011	-1	0.28	-1	QC	0	2	0	100
SNNp	-174	56	-174	56	PROP	0	0	0	60
LNNp	-13	44.7985	-13	44.7985	CE	0	3	0	60
SNGp	-159	83.5113	-159	83.5113	COAL	1	42	0	60
LNGp	-19.5	63.5522	-19.5	63.5522	calcite	1	15	0	60
FGR	1	0	1.8	0	CEp	65	4	0	100
CEp	1	0	3	25		177			
SNNpost	1	0	1	0					
SNGpost	1	0	1	0					
CNII		0							

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 swoilcor:120827-HK	boundoil:0	filter:0.3	swak:F	alse
ithology	shale:7 use:qc fe100:20	silt (bliquid):6 lgrshale:85 nofe:20	sand:0 lgrsand:25 Hish:30	collector:7 Igrcollcut:1 Larionov:old	calcite min:-4 carbonate:False	calcite max:-10 dolasmud False	coal porosity:35 minclayfe:20	hcoal:	
Effective Porosity	SH	lithology:gr shale/qc s	silt						
Zone 3									
Top: 876.00 m	Bottom: 1165.00 m	low compaction	nuclear ca	allper gain:1	water:43 kppm oil:	15 API	f-factor:23	ce gain:0	clay tie:1004
Curve	A	В	Gain	Shift	Curve	WT	Cutoff	Min	Max
OTP	65	-11	1	-5	DGR	0	10	0	65
QL.	30.25	-28.5	1.1	-1	GR	0	20	0	60
DDN	2.16	-26.9	0.9	-8	DDN	35	8	0	60
20	0.0011	-1.5	0.28	-1.5	QC	0	1	0	100
SNNp	-174	60	-174	60	PROP	0	0	0	60
NNp	-15	46.2267	-15	46.2267	CE	0	3	0	60
SNGp	-159	86.4095	-159	86.4095	COAL	1	42	0	60
_NGp	-21	64.4076	-21	64.4076	calcite	1	15	0	60
GR	1	0	1.8	0	CEp	65	4	0	100
CEp	1	0	2.2	23					4.50
SNNpost	1	0	1	0					
SNGpost	d	0	1	0					
CNL	3	0	4	3					
ntCounts	1	0	1	0					
Saturation	QLce coll maxclay:False	ddn:0 coll swqcfp:True	clay:20 use snnp-lnnp:False	boundwater:0 snnp-innp:0	waterfreeoil:0 swoilcor:120827-HK	boundoil:0	filter:0.3	swak:F	alse
Lithology	shale:7 use:qc fe100:20	silt (bliquid):6 lgrshale:65 nofe:20	sand:0 Igrsand:25 HIsh:30	collector:7 Igrcollcut:1 Larionov;old	calcite min:-4 carbonate:False	calcite max:-10 dolasmud:False	coal porosity:35 minclayfe:20	hcoal:4	
Effective Porosity	SH	lithology:gr shale/qc s							