LEETH EVALUATION

Company	ABERCROMBIE ENERGY, LLC
Well	MOORE "A" #1-9
Field	WHITES AND CREEK NORTH
County	SCOTT
State	KANSAS

Location Spot	1150FSL 1890FWL	SEC 9	TWP 20S	RGE 34W
API Well Number	15-171-21023			
Permanent Datum	GROUND LEVEL	Elevation	K.B.	
Log Measured From	K.B.	A.G.L.	D.F.	
Drilling Measured From	KELLY BUSHING		G.L.	

Description	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
Date	2/18/2014					
Top Parameter Depth	4340	4820				
Bottom Parameter Depth	4820	4980				
Bit Size	7.875					
BHT	125					
Rmf @ FT	0.410	0.410				
Rw @ FT	0.070	0.120				
Location	WICHITA					
Evaluation By	R. LEETH					
Recommended Perf / SPF						
Recommended Perf / SPF						

We do not guarantee results, nor make warranties either expressly or implied. Under no circumstances shall we be liable damages relative to this evaluation.

LOG DATA

Name	Description
DEPTH.FT	depth
CNPOR.PU	Compensated Neutron porosity
DCAL.IN	Compensated Density caliper
DPOR.PU	Compensated Density porosity
GR.API	gamma ray
MEL15.OHM-M	1.5 inch Microinverse resistivity
MEL20.OHM-M	2 inch Micronormal resistivity
MELCAL.IN	Microlog caliper
PE.	Photoelectric Pffect
RHOC.G/CC	Compensated Density correction
RILD.OHM-M	Deep Induction resistivity
RILM.OHM-M	Medium Induction resistivity
RLL3.OHM-M	Short Guard resistivity
RxoRt.	ratio of shallow resistivity to deep resistivity
SP.MV	spontaneous potential
SPOR.PU	Sonic porosity

EVALUATION DATA

Name	Description
DEPTH.FT	depth
BIT.IN	bit size
BVWb.V/V	bulk volume water in matrix porosity system
BVWs.V/V	bulk volume water in secondary porosity system
BVWsgxo.V/V	bulk volume water in the flushed zone system
CALI.IN	caliper
Dh.G/CC	hydrocarbon density
DMAA.G/CC	apparent matrix density
DSRGIP.MMCFG	delta sum recoverable gas in place
DSROIP.BO	delta sum recoverable oil in place
DSUMQg.MCFGPD	delta sum of productive gas
DSUMQo.BOPD	delta sum of productive oil
DSUMQw.BWPD	delta sum of productive water
GR.API	gamma ray
Khb.MD	permeability to hydrocarbon from matrix porosity system
Khs.MD	permeability to hydrocarbon from secondary porosity system
ms.DEC	cementation exponent for secondary porosity system
OOM.DEC	oomoldic flag
PSGC.V/V	gas corrected sonic porosity
PX.V/V	crossplot porosity
Rds.OHMM	calculated deep resistivity
SP.MV	spontaneous potential
SUMQg.MCFGPD	sum of productive gas
SUMQo.BOPD	sum of productive oil
SUMQw.BWPD	sum of productive water
SUMRGIP.MMCFG	sum of recoverable gas in place
SUMROIP.BO	sum of recoverable oil in place
Swb.V/V	water saturation in matrix porosity system
Sws.V/V	water saturation in secondary porosity system
Sxo.V/V	water saturation of the flushed zone
VSH.V/V	shale volume

Format: Resistivity Density Neutron GR 3Track Format Vertical Scale: 5" per 100 feet Creation Date: Tue, Feb 18, 2014, 01:28:21 PM

		(MEL20)
		0.53 OHM-M 288
		(GR)
		20 GAPI 400
		(SPOR)
		100 PU 1
		(CNPOR)
		100 PU 1
		(RILD)
		0.07 OHM-M 700
	(RHOC)	(DPOR)
	-0.35 0.15 G/CC	100 PU 1
(RLL3)		(RLL3)
0.2 OHM-M 200		0.17 OHM-M 7700
(MELCAL)	(MEL20)	(DPOR)
6 IN 16	0.3 OHM-M 300	30 PU -10
(RxoRt)	(MEL15)	(CNPOR)
-100 100	0.3 OHM-M 300	30 PU -10
(DCAL)	(RILM)	(SPOR)
6 IN 16	0.2 OHM-M 200	30 PU -10
(SP)	(RILD)	(PE)
-100 MV 100	0.2 OHM-M 200	0 20
(GR)		
0 GAPI 150	Apparent Perm	Apparent Gas / Quartz

(DCAL) 5 IN 8

(MELCAL 5 IN 8

Residual

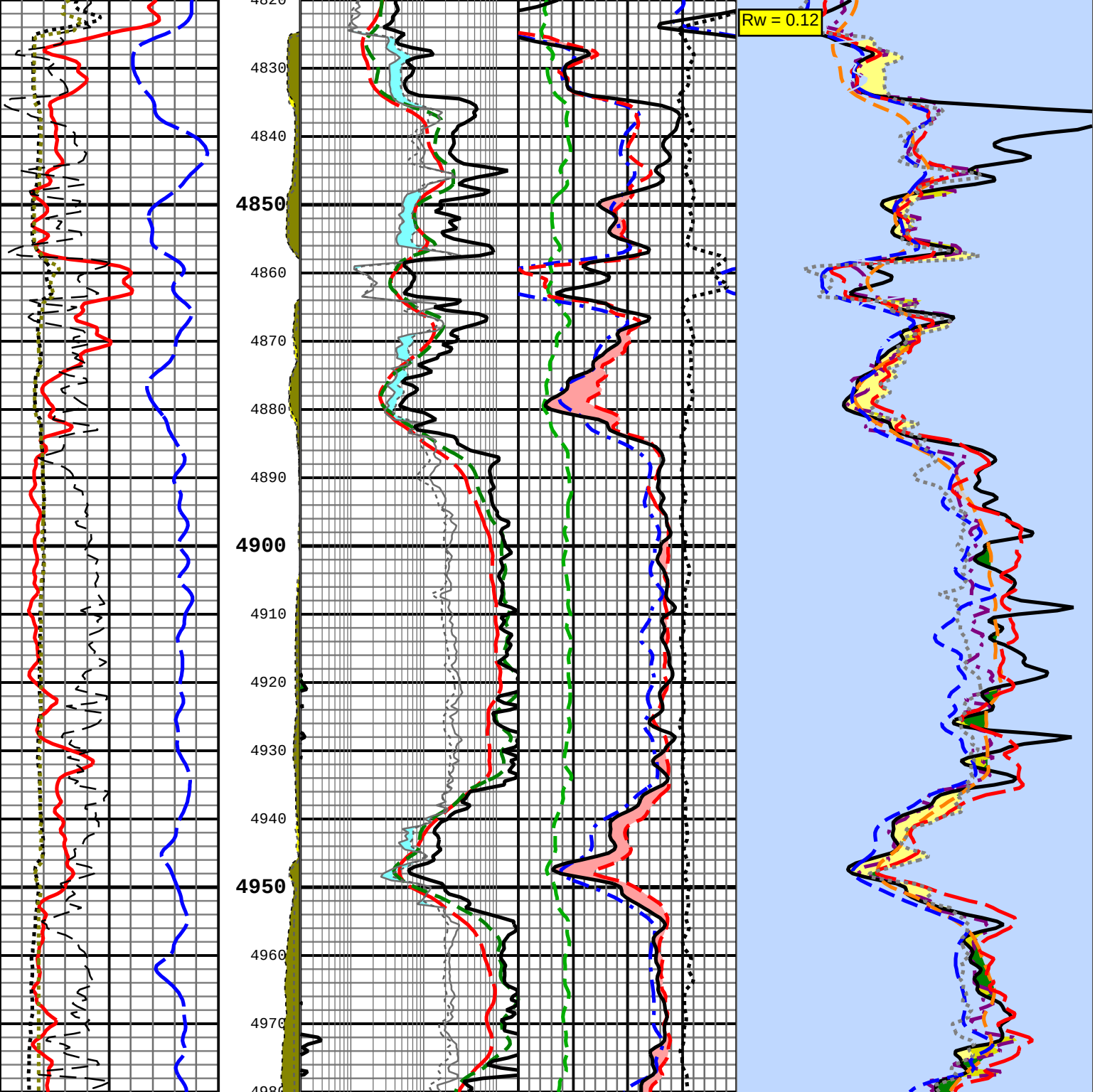
Residual

Moveable

Water

Neutron Density Window

4350 4360 4370 4380 4390 4400 4410 4420 4430 4440 4450 4460 4470 4480 4490 4500 4510 4520 4530 4540 4550 4560 4570 4580 4590 4600 4610 4620 4630 4640 4650 4660 4670 4680 4690 4700 4710 4720 4730 4740 4750 4760 4770 4780 4790 4800 4810 4820


Rw = 0.12
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4970

Format: Blank 3Track Vertical Scale: 5" per 100 Ft Creation Date: Tue, Feb 18, 2014, 01:41:07 PM

(QUARTZp)		
0	V/V	1
(DOLOp)		
0	V/V	1
(CALCp)		
0	V/V	1
(ANHYp)		
0	V/V	1
(GR)		
0	API	150
(VSH)		
0	V/V	1
(SP)		
-100	MV	100
(CALI)		
6	IN	16

Mudcake
ANHYDRITE
Clay-Shale
DOLOMITE
CALCITE
QUARTZ

(BVWsgxo)		
0	V/V	0.4
(BVWs)		
0	V/V	0.4
(PX)		
0	V/V	0.4
Hydrocarbon		
Light Hydrocarbon		
Water		

(PSGC)		
0	V/V	0.4
(BVWb)		
0	V/V	0.4
Hydrocarbon		
Water		

(Sxo)		
1	V/V	0
(Sws)		
1	V/V	0
Moveable		
Residual		

(Swb)		
1	V/V	0

(Khb)		
0.1	MD	100
(Khs)		
0.1	MD	100

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