Schlumberger

Company: ExxonMobil Production Corp.
Well: PCU 296-5A7
Field: Piceance Creek
County: Rio Blanco State: Colorado

CORRELATION LOG
GAMMA RAY - CCLU

County: Rio Blanco
Field: Piceance Creek
Location: SHL: Sec 5-T2S-R96W
Well: PCU 296-5A7
Company: ExxonMobil Production Corp.

LOCATION
SHL: Sec 5-T2S-R96W
Elev.: K.B. 7324.20 ft; G.L. 7294.00 ft; D.F. 7323.00 ft
Permanent Datum: GROUND LEVEL Elev.: 7294.00 ft
Log Measured From: KELLY BUSHING 30.20 ft above Perm. Datum
Drilling Measured From: KELLY BUSHING

API Serial No.	Section	Township	Range
05-103-11243-00	5	2S	96W

Logging Date	26-Mar-2011	
Run Number	1	
Depth Driller	9781 ft	
Schlumberger Depth	9650 ft	
Bottom Log Interval	9650 ft	
Top Log Interval	4000 ft	
Casing Fluid Type	Fresh Water	
Salinity		
Density	8.35 lbm/gal	
Fluid Level	30 ft	
BIT/CASING/TUBING STRING		
Bit Size	8.875 in	
From	30 ft	
To	9878 ft	
Casing/Tubing Size	7.000 in	
Weight	26 lbm/ft	
Grade		
From	30 ft	
To	9878 ft	
Maximum Recorded Temperatures	216 degF	
Logger On Bottom	26-Mar-2011	Time 4:00
Unit Number	2379	Location Vernal, UT
Recorded By	Mike Septon	
Witnessed By	Marc	

	Run 1	Run 2	Run 3	Run 4
PVT DATA				
Oil Density				
Water Salinity				
Gas Gravity				
Bo				
Bw				
1/Bg				
Bubble Point Pressure				
Bubble Point Temperature				
Solution GOR				
Maximum Deviation				
CEMENTING DATA				
Primary/Squeeze	Primary			
Casing String No	2			
Lead Cement Type	LIGHT			
Volume				
Density	11 lbm/gal			
Water Loss				
Additives				
Tail Cement Type				
Volume				
Density				
Water Loss				
Additives				
Expected Cement Top				
Logging Date				
Run Number				
Depth Driller				
Schlumberger Depth				
Bottom Log Interval				
Top Log Interval				
Casing Fluid Type				
Salinity				
Density				
Fluid Level				
BIT/CASING/TUBING STRING				
Bit Size				
From				
To				
Casing/Tubing Size				
Weight				
Grade				
From				
To				
Maximum Recorded Temperatures				
Logger On Bottom / Time				
Unit Number / Location				
Recorded By				
Witnessed By				

DEPTH SUMMARY LISTING

Date Created: 3-MAY-2011 16:41:35

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	7-46ZV XS
Serial Number:	600807	Serial Number:	5016	Serial Number:	709025
Calibration Date:	27-OCT-2010	Calibration Date:		Length:	28767 FT
Calibrator Serial Number:	33	Calibrator Serial Number:	10051	Conveyance Method:	Wireline
Calibration Cable Type:	7-46P	Number of Calibration Points:	10	Rig Type:	LAND
Wheel Correction 1:	-6	Calibration RMS:	18		
Wheel Correction 2:	-6	Calibration Peak Error:	32		

Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	156.00 FT
Rig Up Length At Bottom:	156.00 FT
Rig Up Length Correction:	0.00 FT
Stretch Correction:	3.00 FT
Tool Zero Check At Surface:	0.00 FT

Depth Control Remarks

1. SCHLUMBERGER DEPTH CONTROL STANDARDS FOLLOWED
2. IDW USED AS PRIMARY DEPTH CONTROL, Z-CHART USED AS SECONDARY DEPTH CONTROL
3.
4.
5.
6.

DISCLAIMER
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OTHER SERVICES1	OTHER SERVICES2
OS1: IBC	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
This is the first run in the well	
Tool string ran as per tool sketch	

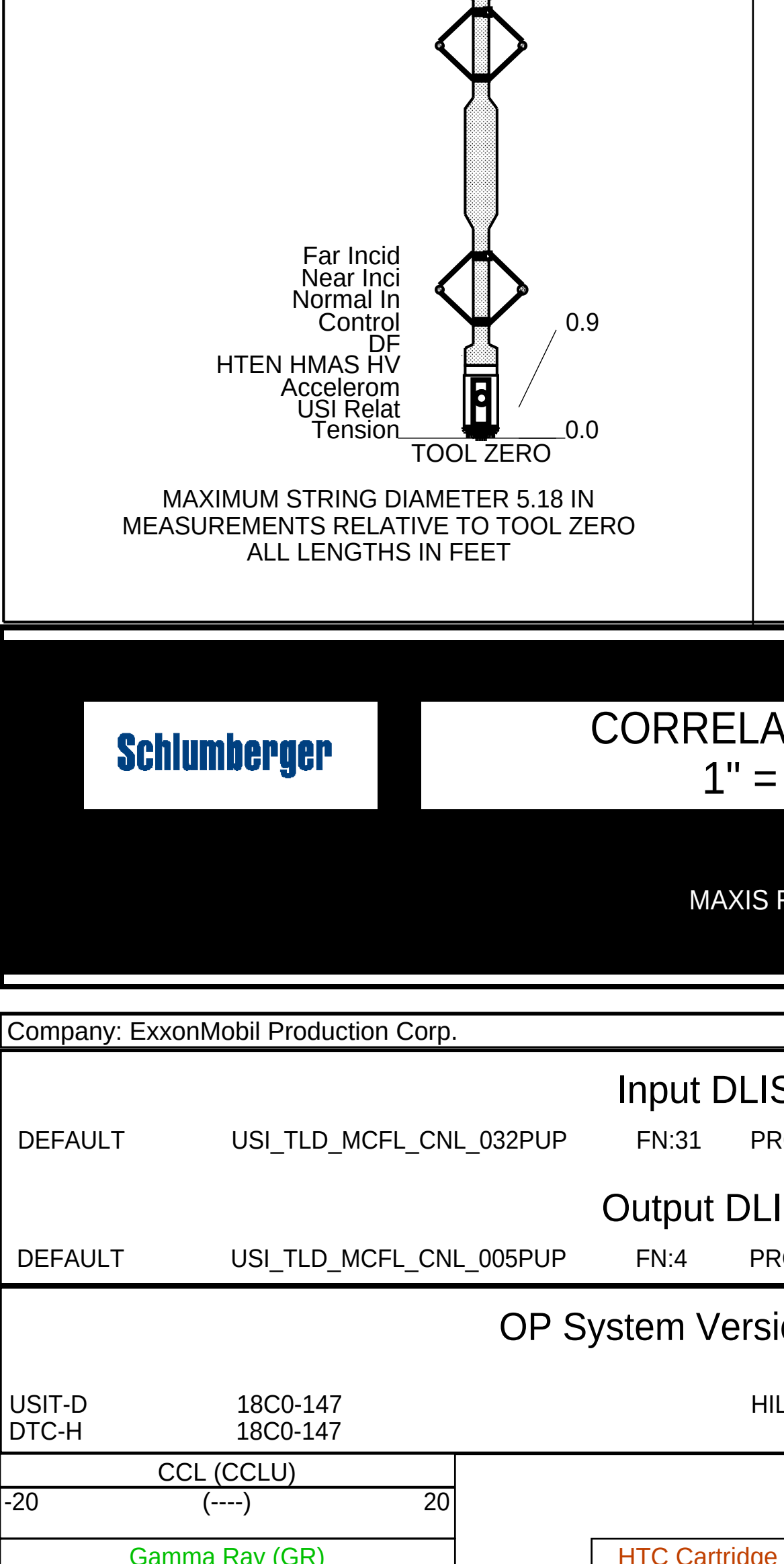
RUN 1			RUN 2		
SERVICE ORDER #:	BEHA-00054		SERVICE ORDER #:		
PROGRAM VERSION:	18C0-147		PROGRAM VERSION:		
FLUID LEVEL:	30 ft		FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1 RUN 2

SURFACE EQUIPMENT
GSR-U/Y
NCT-B
CNB-AB
WITM (DTS)-A

DOWNHOLE EQUIPMENT



MAXIMUM STRING DIAMETER 5.18 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

Schlumberger

CORRELATION LOG
1" = 100'

MAXIS Field Log

Company: ExxonMobil Production Corp. Well: PCU 296-5A7

Input DLIS Files

DEFAULT	USI_TLD_MCFL_CNL_032PUP	FN:31	PRODUCER	26-Mar-2011 07:39	9658.5 FT	4006.0 FT

Output DLIS Files

DEFAULT	USI_TLD_MCFL_CNL_005PUP	FN:4	PRODUCER	03-May-2011 16:51	9658.5 FT	4006.0 FT

OP System Version: 18C0-147

USIT-D	18C0-147	HILTH-FTB	18C0-147
DTC-H	18C0-147		

Parameters

DLIS Name	Description	Value	
	USIT-D: Ultrasonic Imaging - D		
AGMN	Minimum Gain of Cartridge	-4	DB
AGMX	Maximum Gain of Cartridge	20	DB
BERJ	Bad Echo Rejection	ON	
CDIA	Casing Outer Diameter	7	IN
CSDE	Casing Density	486.94	LBCF
CSID	Casing Inner Diameter	6.276	IN
DFVL	Default Fluid Velocity	206	US/F
DOT	Diameter of Transducer Sensor	2.874	IN
EMXV	EMEX Voltage	40	V
MW	Mud Weight	8.4	LB/G
RCOD	Reference Calibrator Outer Diameter	7	IN
RCSO	Reference Calibrator Standoff	1.1811	IN
RCTH	Reference Calibrator Thickness	0.2952	IN
TCUB	T^3 Processing Level	Vax_Loop	
THDH	Maximum Search Thickness (percentage of nominal)	130	
THDL	Minimum Search Thickness (percentage of nominal)	70	
THDP	Thickness Detection Policy	Fundamental	
THNO	Nominal Thickness of Casing	0.362	IN
USTO	Ultrasonic Time Offset	-2	US
USUB	Ultrasonic Subassembly Identifier	Sub_7_inch	
UWKM	Ultrasonic Working Mode	5DEG_6IN_136ONF_LF	
VCAS	Ultrasonic Transversal Velocity in Casing	51.4	US/F
WLEN	T^3 Processing Length	21.7078	US
ZCAS	Acoustic Impedance of Casing	46.25	MRAY
ZINI	Initial Estimate of Cement Impedance	-1	MRAY
ZMUD	Acoustic Impedance of Mud	1.8	MRAY
ZTCM	Acoustic Impedance Threshold for Cement	2.6	MRAY
ZTGS	Acoustic Impedance Threshold for Gas	0.3	MRAY
	System and Miscellaneous		
CWEI	Casing Weight	26.00	LB/F
DO	Depth Offset for Playback	0.0	FT
PP	Playback Processing	NORMAL	

Format: CORRELATION Vertical Scale: 1" per 100' Graphics File Created: 03-May-2011 16:51

OP System Version: 18C0-147

USIT-D	18C0-147	HILTH-FTB	18C0-147
DTC-H	18C0-147		

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GAMMA RAY - CCLU