Schlumberger

Company: **Omimex Petroleum Inc**

Well: **Sagehorn 12-34-6-45**
Field: **Holyoke South**
County: **Phillips** State: **Colorado**

County: Phillips
Field: Holyoke South
Location: 2166' FSL & 597" FWL
Well: Sagehorn 12-34-6-45
Company: Omimex Petroleum Inc

CEMENT BOND
GAMMA RAY
CASING COLLAR LOG

LOCATION

2166' FSL & 597" FWL

Elev.: K.B. 3803.00 ft
G.L. 3797.00 ft
D.F. 3802.00 ft

Permanent Datum: GROUND LEVEL Elev.: 3797.00 ft
Log Measured From: KELLY BUSHING 6.00 ft above Perm. Datum
Drilling Measured From: KELLY BUSHING

API Serial No.	Section	Township	Range
05-095-06470	34	6N	45W

Logging Date	17-Dec-2014	
Run Number	1	
Depth Driller	2698 ft	
Schlumberger Depth	2610 ft	
Bottom Log Interval	2600 ft	
Top Log Interval	33 ft	
Casing Fluid Type	WATER	
Salinity		
Density	8.4 lbm/gal	
Fluid Level		
BIT/CASING/TUBING STRING		
Bit Size	6.250 in	
From		
To		
Casing/Tubing Size	4.500 in	
Weight	10.5 lbm/ft	
Grade		
From		
To		
Maximum Recorded Temperatures	116 degF	
Logger On Bottom / Time	17-Dec-2014 / 9:00	
Unit Number / Location	354 / FORT MORGAN	
Recorded By	C. Onigkeit	
Witnessed By	JEREMY FISHER	

	Run 1	Run 2
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		
Lead Cement Type		
Volume		
Density		
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	

Run 3

Run 4

DEPTH SUMMARY LISTING

Date Created: 17-DEC-2014 10:31:21

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	1-25ZT
Serial Number:	6216	Serial Number:	1163	Serial Number:	354
Calibration Date:	21-JAN-2014	Calibration Date:	31-OCT-2014	Length:	16000 FT
Calibrator Serial Number:	1	Calibrator Serial Number:	1	Conveyance Method:	Wireline
Calibration Cable Type:	1-25ZT	Number of Calibration Points:	0	Rig Type:	LAND
Wheel Correction 1:	-5				
Wheel Correction 2:	-5				

Depth Control Parameters

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

Depth Control Remarks

1. IDW WHEELS USED AS PRIMARY DEPTH CONTROL
2. DRUM COUNTER USED AS SECONDARY DEPTH CONTROL
3.
4.
5.
6.

DISCLAIMER
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OTHER SERVICES1	OTHER SERVICES2
OS1: PERF	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
CORRELATED TO DENSITY NEUTRON LOG	
ON 12-DEC-2014 BY PIONEER	
REPEAT AND MAIN PASS RAN	
UNDER 0 PSI	

CRW: WILEY, HOFFMAN

THANK YOU FOR CHOOSING SCHLUMBERGER.

RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:		19C0-187	PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1	RUN 2
SURFACE EQUIPMENT WITM-A PSC_16MHZ	

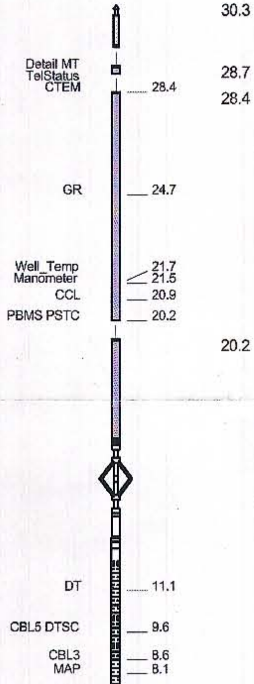
DOWNHOLE EQUIPMENT

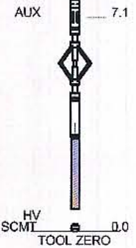
MH-22
MH-22

AH-38

PSPT
PSC-A
PSPT-A 1765
PSTC-A
PBMS-A
10k_Sapphire_Mano
RTD_Thermometer
GR
CCL
PBMS

SCMT-CB
SCMC-CA
SECH-CA
CMIR-AG
SCMS-CB 8160
SCMX-CA





TDBN–TDT 0.2

MAXIMUM STRING DIAMETER 1.69 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

Schlumberger

MAIN PASS

MAXIS Field Log

Company: Omimex Petroleum Inc **Well: Sagehorn 12–34–6–4**

Input DLIS Files

DEFAULT	SCMT_PSP_011LUP	FN:10	PRODUCER	17–Dec–2014 09:08	2648.5 FT	49.5 FT

Output DLIS Files

DEFAULT	SCMT_PSP_012PUP	FN:11	PRODUCER	17–Dec–2014 10:23	2645.5 FT	46.5 FT

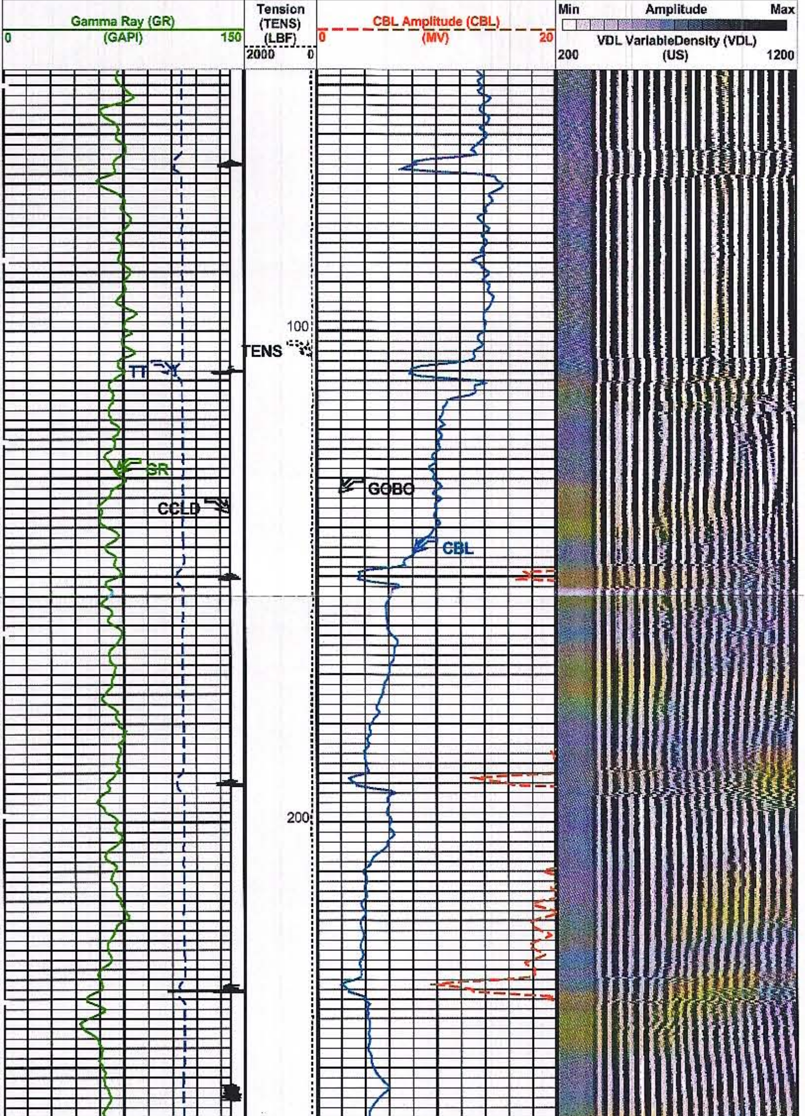
OP System Version: 19C0–187

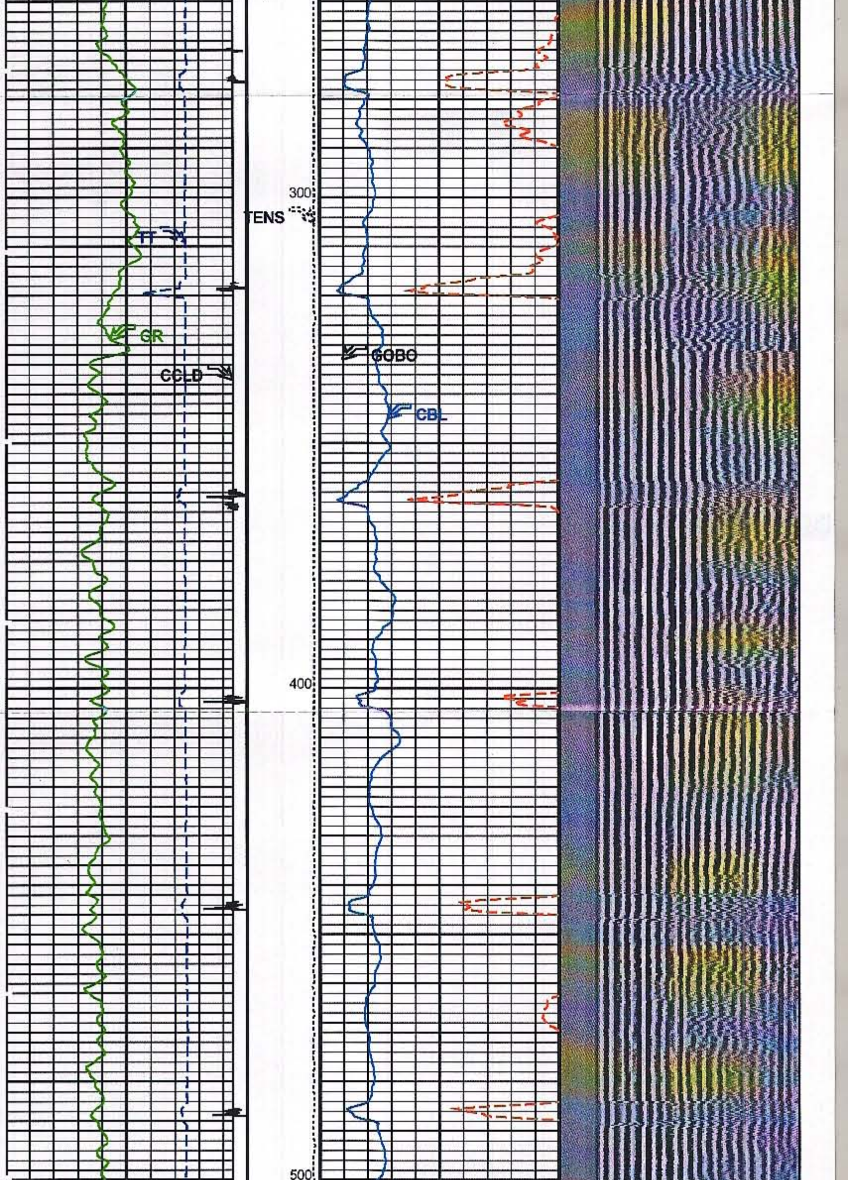
SCMT–CB	19C0–187	PSPT	19C0–187

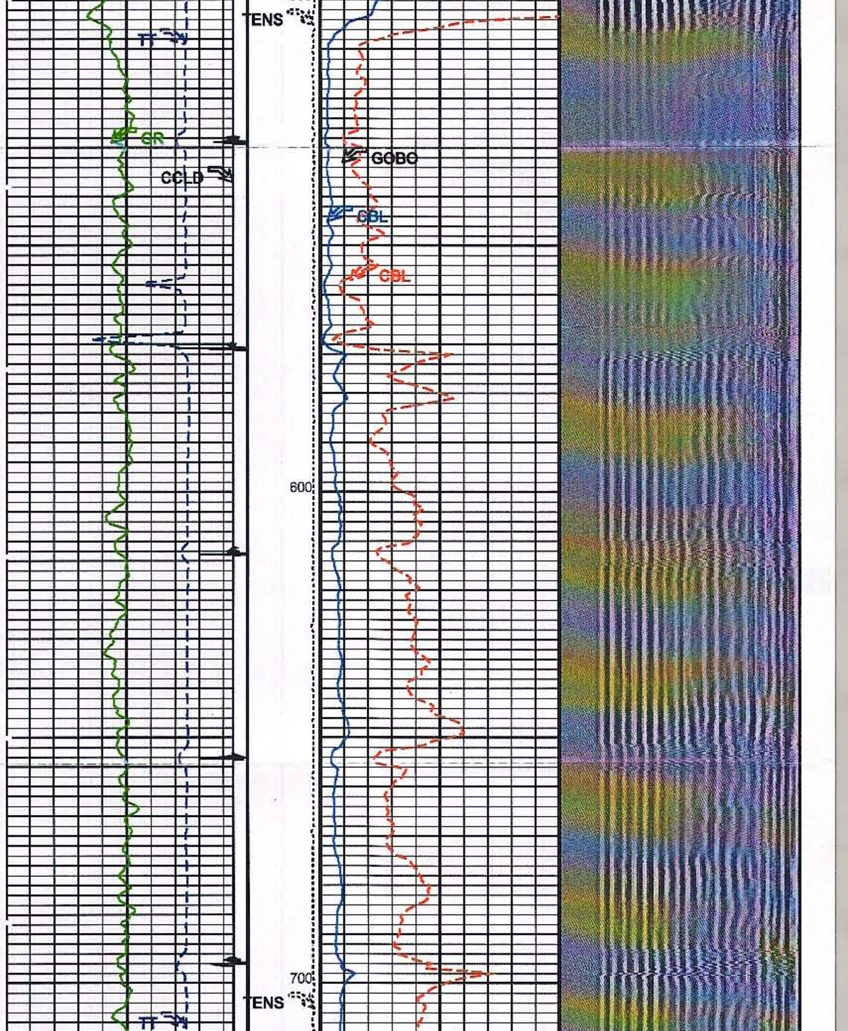
PIP SUMMARY

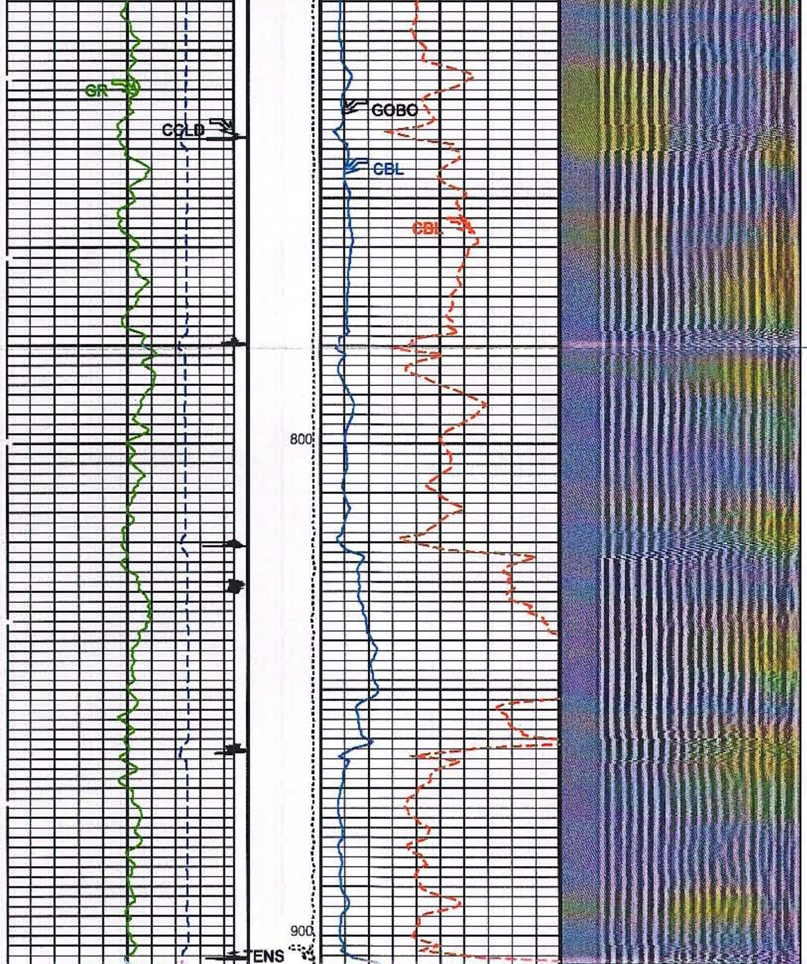
Time Mark Every 60 S

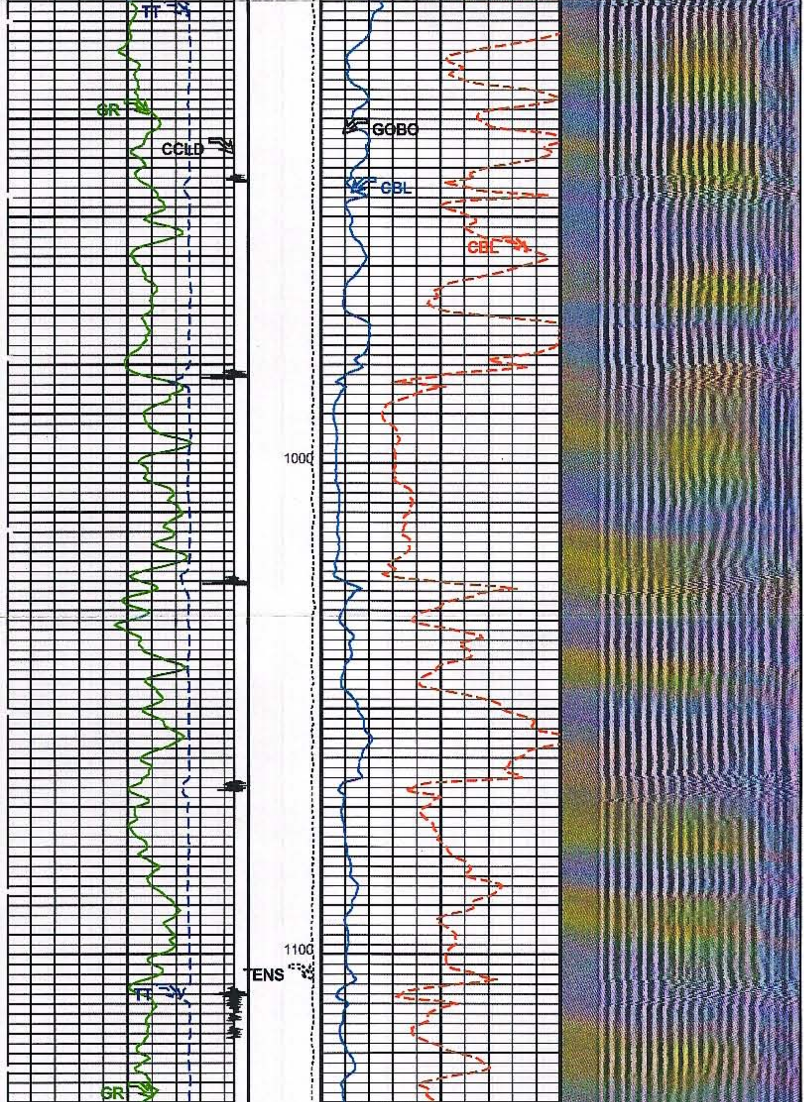
Discriminated CCL (CCLD) –3.5 (V) 0.5		
COLLARS From CCLD to T1		GOOD BOND From ACBL to GOBO
Transit Time (TT) 400 (US) 200		CBL Amplitude (CBL) 0 (MV) 100

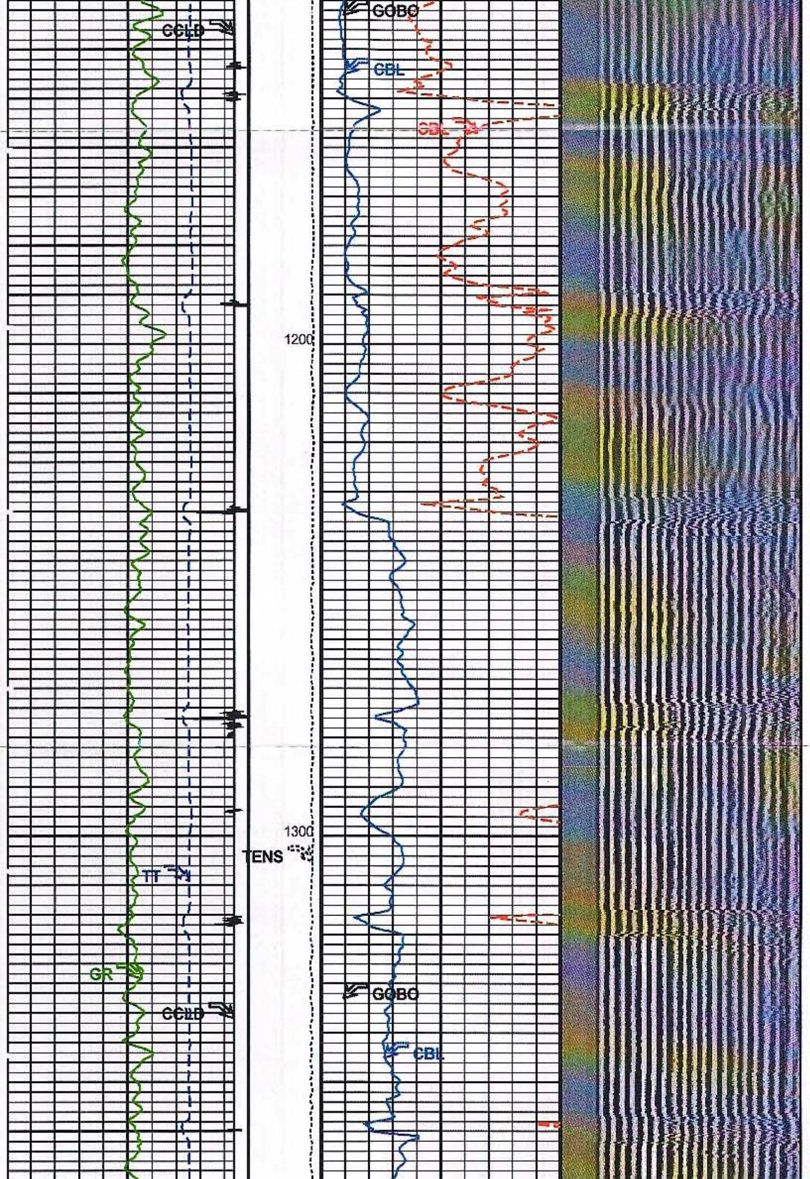


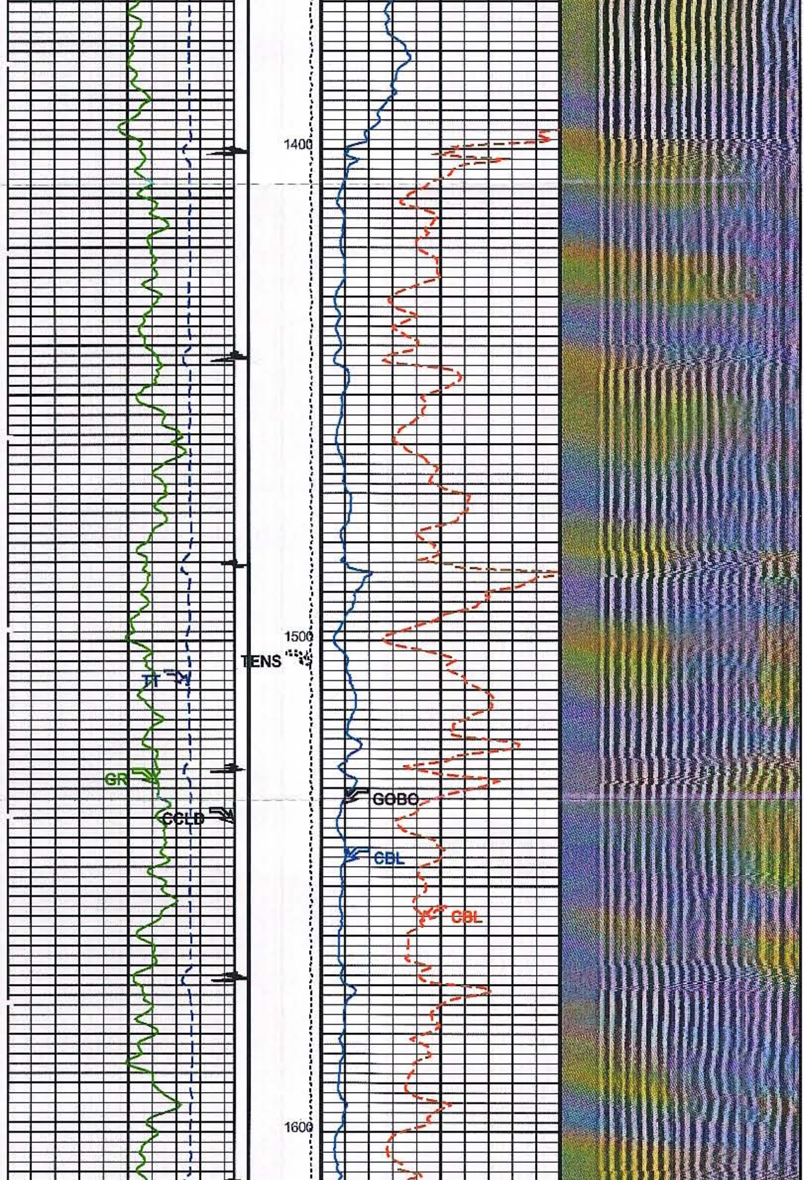


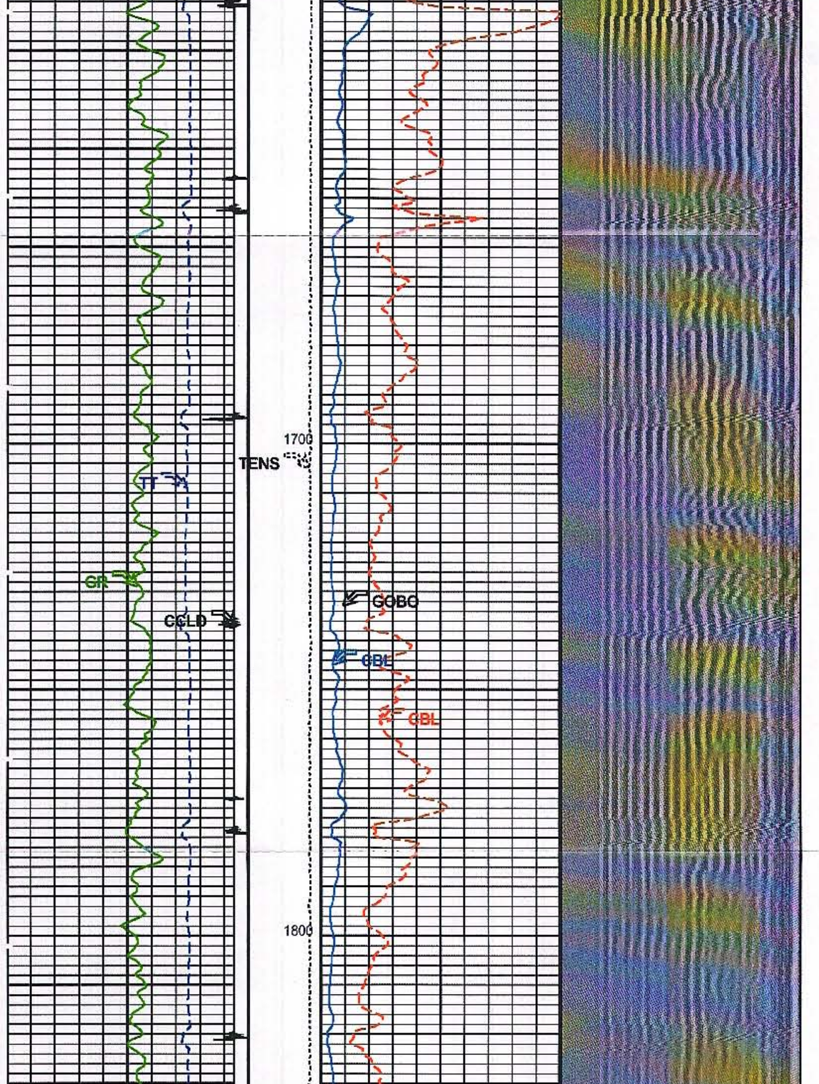


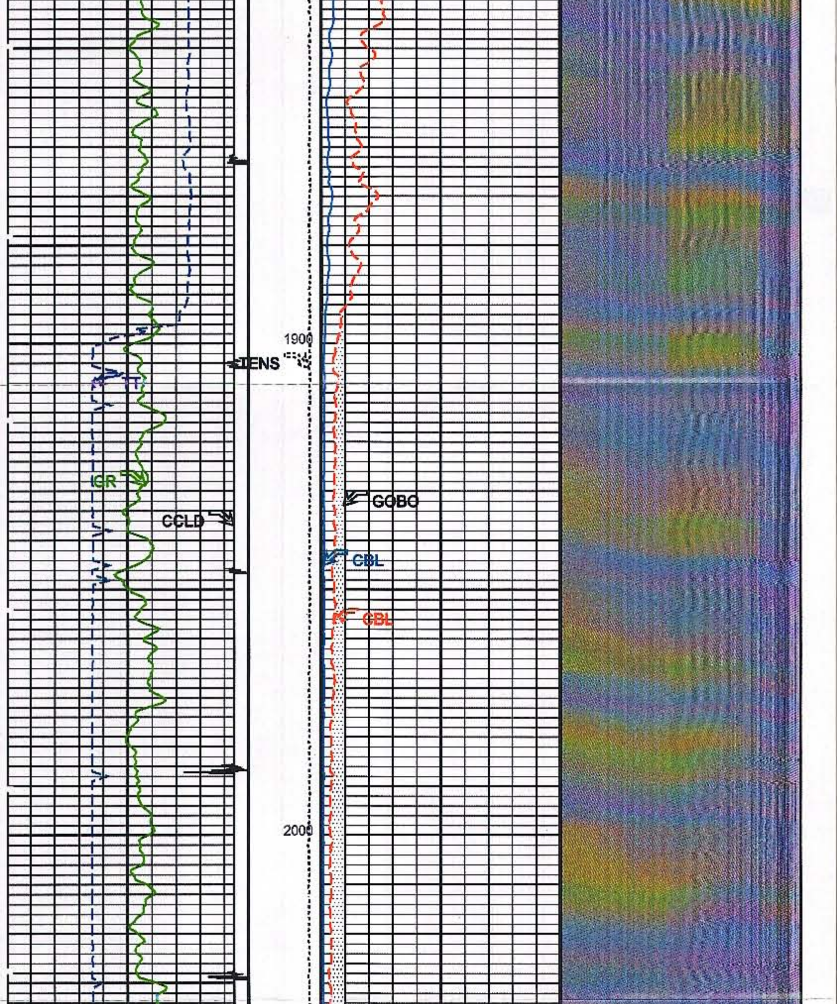


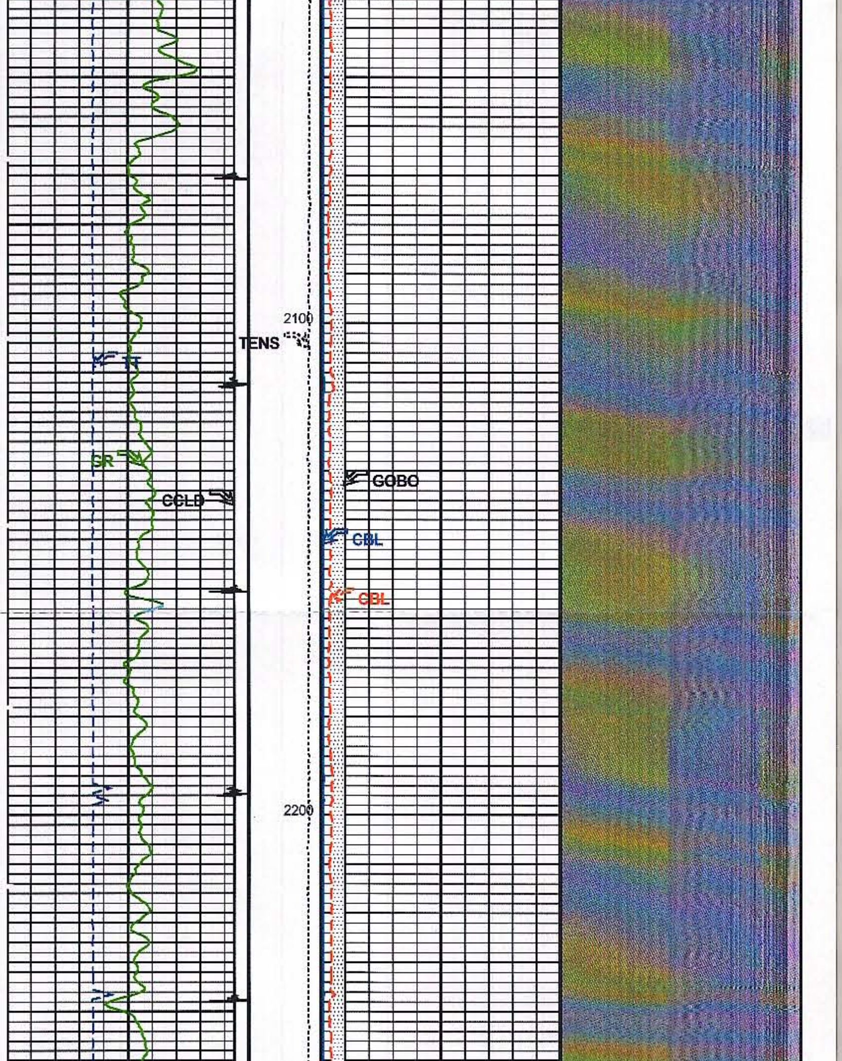


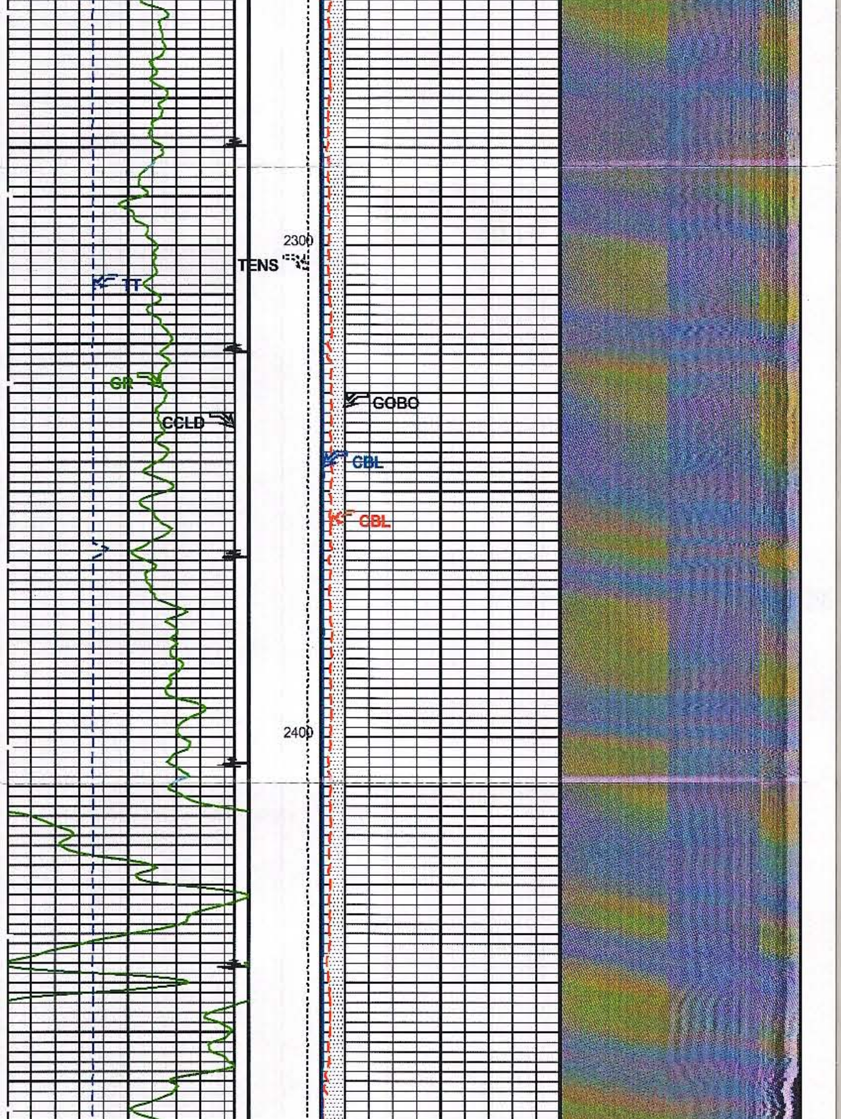


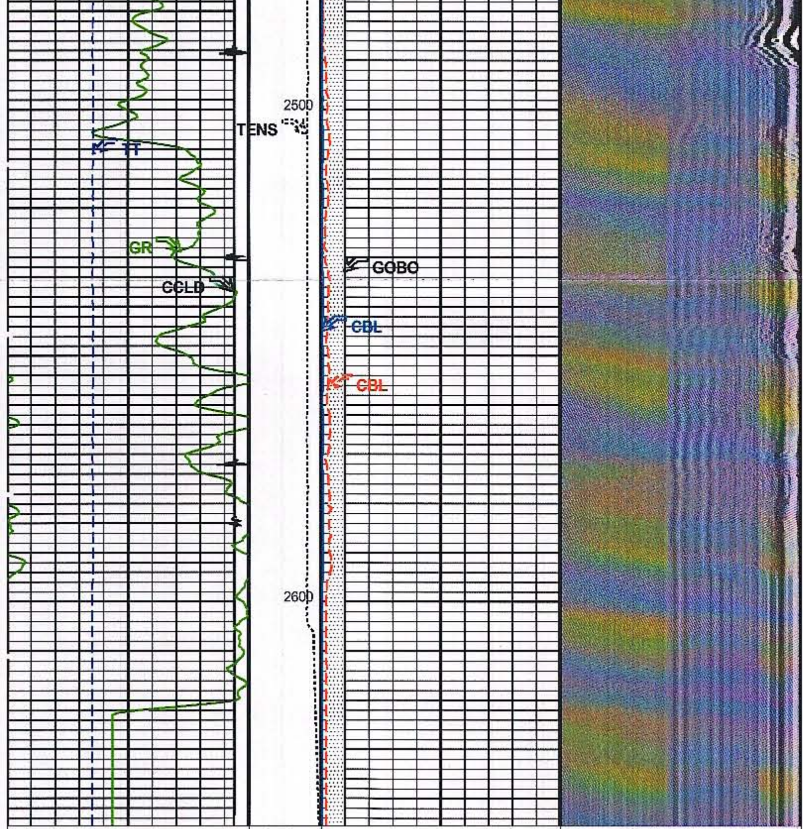












Gamma Ray (GR)
0 (GAPI) 150

Tension (TENS) (LBF)
2000 0

CBL Amplitude (CBL)
0 (MV) 20

Min Amplitude Max
VDL VariableDensity (VDL)
200 (US) 1200

Transit Time (TT)
400 (US) 200

CBL Amplitude (CBL)
0 (MV) 100

COLLARS
From CCLD to T1

GOOD BOND
From ACBL to GOBO

Discriminated CCL (CCLD)
−3.5 (V) 0.5

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
SCMT-CB: Slim Cement Mapping Tool, 1-11/16 OD			
BILI	Bond Index Level for Zone Isolation	0.8	
CB3D	SCMT CBL 3 ft Peak Detection Mode	PEAK	
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	229.263	US
CB3T	SCMT CBL 3 ft Fixed Threshold Level	20	MV
CB5D	SCMT CBL 5 ft Peak Detection Mode	PEAK	
CB5G	SCMT CBL 5 ft Peak Detection T0_Delay and Noise Gate	343.263	US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CBLG	CBL Gate Width	40	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	79	MV
CMCF	CBL Cement Type Compensation Factor	1	
CMTC	SCMT Slow Channel Multiplexer Mode	SCAN	
CMTM	SCMT Operating Mode	LOG	
CSCS	SCMT Slow Channel Index	VCC	
CTHI	Casing Thickness	0.229988	IN
DTF	Delta-T Fluid	204.5	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	1	
GOBO	Good Bond	0.935443	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	172.263	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	18.4392	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	1.25	FT
MMSA	MAP Minimum Sonic Amplitude	2.90666	MV
MSA	Minimum Sonic Amplitude	0.308578	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
System and Miscellaneous			
CSIZ	Current Casing Size	4.500	IN
CWEI	Casing Weight	10.50	LB/F
DFD	Drilling Fluid Density	8.40	LB/G
DO	Depth Offset for Playback	-3.0	FT
PP	Playback Processing	NORMAL	
TD	Total Depth	6700	FT

Format: CBL_VDL Vertical Scale: 5" per 100' Graphics File Created: 17-Dec-2014 10:23

OP System Version: 19C0-187

SCMT-CB	19C0-187	PSPT	19C0-187

Input DLIS Files

DEFAULT	SCMT_PSP_011LUP	FN:10	PRODUCER	17-Dec-2014 09:08	2648.5 FT	49.5 FT

Output DLIS Files

DEFAULT	SCMT_PSP_012PUP	FN:11	PRODUCER	17-Dec-2014 10:23

Schlumberger

REPEAT PASS

MAXIS Field Log

Company: Omimex Petroleum Inc **Well: Sagehorn 12-34-6-4**

Output DLIS Files

DEFAULT **SCMT_PSP_010LUP** **FN:9** **PRODUCER** **17-Dec-2014 08:58**

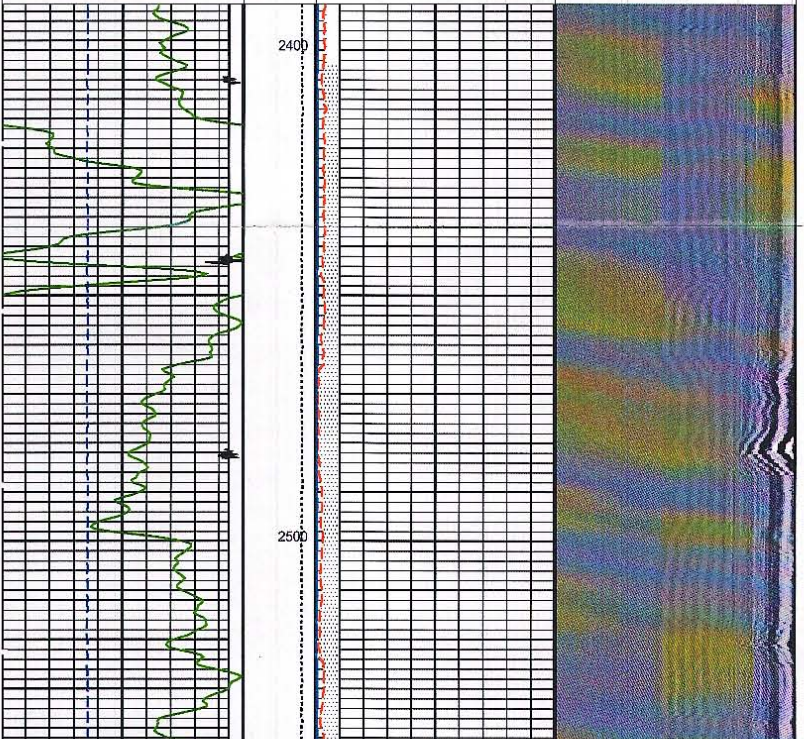
OP System Version: 19C0-187

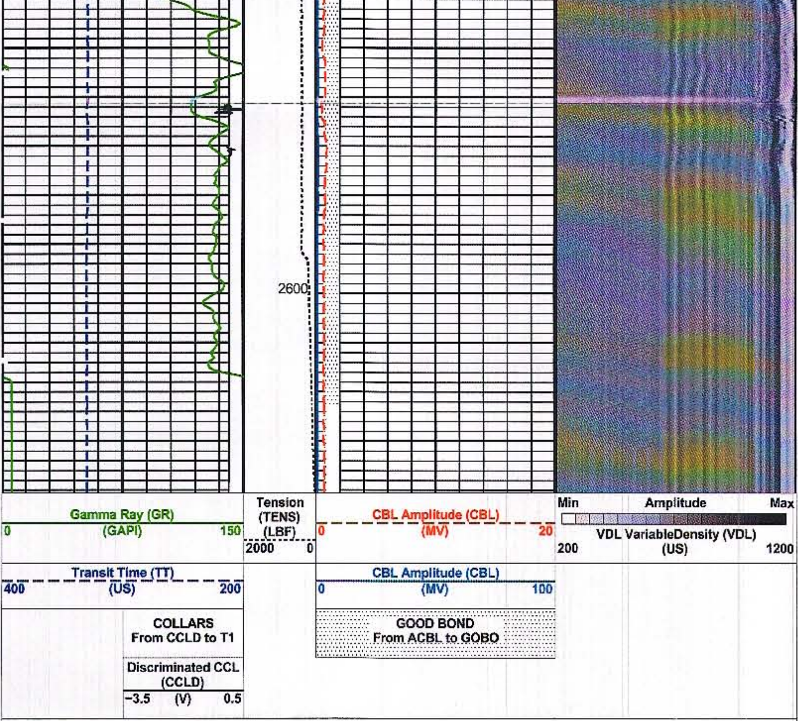
SCMT-CB **19C0-187** **PSPT** **19C0-187**

PIP SUMMARY

▪ Time Mark Every 60 S

Discriminated CCL (CCLD) -3.5 (V) 0.5		
COLLARS From CCLD to T1		GOOD BOND From ACBL to GOBO
Transit Time (TT) 400 (US) 200		CBL Amplitude (CBL) 0 (MV) 100
Gamma Ray (GR) 0 (GAPI) 150	Tension (TENS) (LBF) 2000 0	CBL Amplitude (CBL) 0 (MV) 20	Min Amplitude Max VDL VariableDensity (VDL) 200 (US) 1200





PIP SUMMARY

■ Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	SCMT-CB: Slim Cement Mapping Tool, 1-11/16 OD		
BILI	Bond Index Level for Zone Isolation	0.8	
CB3D	SCMT CBL 3 ft Peak Detection Mode	PEAK	
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	229.263	US
CB3T	SCMT CBL 3 ft Fixed Threshold Level	20	MV
CB5D	SCMT CBL 5 ft Peak Detection Mode	PEAK	
CB5G	SCMT CBL 5 ft Peak Detection T0_Delay and Noise Gate	343.263	US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CBLG	CBL Gate Width	40	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	79	MV
CMCF	CBL Cement Type Compensation Factor	1	
CMTC	SCMT Slow Channel Multiplexer Mode	SCAN	
CMTM	SCMT Operating Mode	LOG	
CSCS	SCMT Slow Channel Index	VCC	
CTHI	Casing Thickness	0.229988	IN
DTF	Delta-T Fluid	204.5	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/F

FCF	**CBL Fluid Compensation Factor**	**1**	
GOBO	**Good Bond**	**0.935443**	**MV**
MAPD	**SCMT MAP Peak Detection Mode**	**PEAK**	
MAPG	**SCMT MAP Peak Detection T0_Delay and Noise Gate**	**172.263**	**US**
MAPT	**SCMT MAP Fixed Threshold Level**	**30**	**MV**
MATT	**Maximum Attenuation**	**18.4392**	**DB/F**
MCCF	**MAP Cement Type Compensation Factor**	**1**	
MCI	**Minimum Cemented Interval for Isolation**	**1.25**	**FT**
MMSA	**MAP Minimum Sonic Amplitude**	**2.90666**	**MV**
MSA	**Minimum Sonic Amplitude**	**0.308578**	**MV**
PEDE	**Peak Detection On/Off Switch in Playback**	**OFF**	
VDLG	**VDL Manual Gain**	**5**	
ZCMT	**Acoustic Impedance of Cement**	**6.8**	**MRAY**
System and Miscellaneous			
CSIZ	**Current Casing Size**	**4.500**	**IN**
CWEI	**Casing Weight**	**10.50**	**LB/F**
DFD	**Drilling Fluid Density**	**8.40**	**LB/G**
TD	**Total Depth**	**6700**	**FT**

Format: CBL_VDL **Vertical Scale: 5" per 100'** **Graphics File Created: 17-Dec-2014 08:58**

OP System Version: 19C0-187

SCMT-CB	**19C0-187**	**PSPT**	**19C0-187**

Output DLIS Files

DEFAULT	**SCMT_PSP_010LUP**	**FN:9**	**PRODUCER**	**17-Dec-2014 08:58**

Company: **Omimex Petroleum Inc**

Schlumberger

Well: **Sagehorn 12-34-6-45**
Field: **Holyoke South**
County: **Phillips**
State: **Colorado**

CEMENT BOND
GAMMA RAY
CASING COLLAR LOG