

Confidentiality Requested:

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1072528

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	
Address 2:	Feet from Dorth / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxx) (e.gxxx.xxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
Gas D&A ENHR SIGW	Total Vertical Depth: Plug Back Total Depth:
OG GSW Temp. Abd. CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to ENHR Conv. to SWD Plug Back Conv. to GSW Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
ENHR Permit #:	Operator Name:
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West
Recompletion Date Recompletion Date	County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY
Confidentiality Requested
Date:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I II III Approved by: Date:

	Page Two	1072528
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East West	County:	
INCTRUCTIONS: Chave important tang of formations panetwated	Datail all aaraa Bapart all fir	and control of drill atoms toots giving interval tootod, time tool

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken (Attach Additional She	a ata)	Yes No	L	og Formatio	n (Top), Depth an	d Datum	Sample
Samples Sent to Geolog	,	Yes No	Nam	Э		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING Report all strings set-c	RECORD Ne		on, etc.		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ADDITIONAL	CEMENTING / SQU	EEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and Pe	ercent Additives	
Protect Casing							
Plug Off Zone							
Did you perform a hydraulic	fracturing treatment	on this well?		Yes	No (If No, skij	o questions 2 an	d 3)
Does the volume of the tota	I base fluid of the hyd	Iraulic fracturing treatment ex	ceed 350,000 gallons	P _ Yes _	No (If No, ski	o question 3)	
Was the hydraulic fracturing	treatment informatio	n submitted to the chemical c	lisclosure registry?	Yes	No (If No, fill o	out Page Three o	of the ACO-1)

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated								ement Squeeze Record d of Material Used)	Depth
TUBING RECORD:	Siz	e:	Set At		Packe	r At:	Liner F		No	
Date of First, Resumed	Productio	on, SWD or ENHF	ł.	Producing M	ethod:	ping	Gas Lift	Other (Explain)	. <u></u>	
Estimated Production Per 24 Hours		Oil Bb	S.	Gas	Mcf	Wat	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITI	ON OF G	AS [.]			METHOD		TION		PRODUCTION INTE	BVAL ·
	_	lsed on Lease		Open Hole	Perf.	Dually (Submit	Comp.	Commingled (Submit ACO-4)		
(If vented, Su	bmit ACO-	-18.)		Other (Specify)		(Subinit)	,	(Subinii ACO-4)		

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Mark Sievers, Chairman Ward Loyd, Commissioner Thomas E. Wright, Commissioner Sam Brownback, Governor

January 23, 2012

Scott Hampel McCoy Petroleum Corporation 8080 E CENTRAL STE 300 WICHITA, KS 67206-2366

Re: ACO1 API 15-101-22334-00-00 M-M DIEL UNIT 'A' 1-8 SE/4 Sec.08-20S-27W Lane County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, Scott Hampel

McCoy Petroleum Corporation 8080 E. Central, Suite 300 Wichita, Kansas 67206

316-636-2737

WELL REPORT

McCoy Petroleum Corporation M-M Diel 'A' Unit #1-8 NW NW SE, Section 8-20S-27W 2310' FSL & 2310' FEL Lane County, Kansas API# 15-101-22334-0000

SAMPLE	LOG TOPS	Structure Compared To:						
McCoy Petrol M-M Diel Un NW NW SE Sec. 8-20S-27 KB: 2743'	it 'A' #1-8	Cities Service Lewis 'C' #1 NW SW Sec. 9-20S-27W KB: 2721' D&A	McCoy Petroleum Corp Smeltzer 'A' #1-18 C NW NE Sec. 18-20S-27W KB: 2662' D&A					
Anhydrite	2035 (+ 708)							
	2068 (+ 673)							
Heebner	3966 (-1223)							
Toronto	3984 (-1241)							
Lansing	4009 (-1266)							
Stark	4289 (-1546)							
BKC	4366 (-1628)							
Pawnee	4507 (-1764)							
Fort Scott	4525 (-1782)							
Cherokee	4544 (-1801)							
Mississippian	4665 (-1922)							
RTD	4730 (-1987)							

WELL REPORT

McCoy Petroleum Corporation M-M Diel 'A' Unit #1-8 NW NW SE, Section 8-20S-27W 2310' FSL & 2310' FEL Lane County, Kansas API# 15-101-22334-0000

Page 2

Electric LOG TOPS

McCoy Petroleum Corp M-M Diel Unit 'A' #1-8 NW NW SE Sec. 8-20S-27W KB: 2743'

2034 (+ 709)
2070 (+ 673)
3968 (-1225)
3985 (-1242)
4010 (-1267)
4289 (-1546)
4363 (-1625)
4500 (-1757)
4520 (-1777)
4544 (-1801)
4662 (-1919)
4735 (-1992)

QUAL'TY WELL SERVICE, INC. Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

5402

- odd's Cell 620-383-5422-Office / Fax 620-672-3663

Rich's Cell 620-727-3409 Brady's Cell 620-727-6964

	A DESCRIPTION OF THE REAL	T	The second second							
	Sec. Twp.	Range		County	State	On Location	Finish			
				ane KS 11:30,						
Lease Diel UnitA	Well No.	1-8		ation 6E of Dighton 45115 1/2 E Nito						
Contractor Val #7				Owner McCoy Petroleum						
Type Job Surface				To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish						
Hole Size 13/4	T.D. c			cementer and helper to assist owner or contractor to do work as listed						
Csg. 85/B	Depth	226 set	G	To McCoy Petroleum						
Tbg. Size	Depth	440.810.2		Street 80	180 E Centr	al STE 300	2			
Tool	Depth			City Wich	nita	State ICS				
Cement Left in Csg. 15f+	Shoe J			The above was	s done to satisfaction an	d supervision of owner	agent or contractor.			
Meas Line	Displac	e 13.56		Cement Amo	unt Ordered /505×	Common .				
	UIPMENT	· ·	•	2% Gel		#CF				
Pumptrk No. 8		David		Common	150					
Bulktrk No. 9		mille		Poz. Mix						
Bulktrk No.				Gel. 2%	3 SX					
Pickup No.				Calcium 37	o Ssx					
JOB SERV	ICES & REMA	RKS		Hulls						
Rat Hole		¢.	- *	Salt						
Mouse Hole			1	Flowseal 2	_	2				
Centralizers	1		10 A 1	Kol-Seal						
Baskets		j.	1.	Mud CLR 48			- 47			
D/V or Port Collar		in the								
Ran 5 Jts of 8	5/A Neu	Jaytecos	,	CFL-117 or CD110 CAF 38 Sand						
glanding St		5	-1		58					
<u></u>				Mileage 45	X	9				
Est Circulatio	n with	mud pu		, o	FLOAT EQUIPME	NT	<u> </u>			
=) - ch cale to		140 000		Guide Shoe						
Mixed 1505x d	n'so 1	3.56 bbi		Centralizer						
H20 - Shutine		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		Baskets						
	<u>a</u> h ₂			AFU Inserts			· · · · · · · · · · · · · · · · · · ·			
				Float Shoe						
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Cement Dia C		(CII			t					
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	(!				je Surface					
Thanks	<u> </u>		N	Aileage 45)					
						Tax				
					25	Discount	4			
						Total Charge				

QUAL'TY WELL SERVICE, INC. Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt. KS 67124

5406

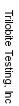
Office / Fax		and the second sec							's Cell 620-727 's Cell 620-727	and the second se		
	Sec.	Twp.	Range		County		S	tate	On Location	Finish		
Date /2 - /6 - //	8	20	27	12	ane			KS		10:00pr		
Lease MM Diel	1	Well No.	1-8	Locati	ion Dight	on	66	E 105	14E Nite))		
Contractor UCI En	ieral	, II -	7		Owner							
Type Job Rotary F	lug	1			To Quality	Well S	Service	, Inc.				
Hole Size	0	T.D.	4730		cementer a	and he	elper t	o assist owr	cementing equipme	nt and furnish do work as liste		
Csg. Orill Pipe		Depth	2040		Charge A	1000	oy	Petro	leum			
Tbg. Size		Depth			Street		- 1					
Tool		Depth			City				State			
Cement Left in Csg.		Shoe Jo	pint			vas do	ne to s	atisfaction an	d supervision of owne	agent or contra		
Meas Line		Displac	8 -						SF 120140	agentor contrac		
	EQUIP				4% 6	e/	1/4	# Flo	<u> 10170</u>	je –		
Pumptrk No. 6			Richard			180						
Bulktrk No. 7			Mike		Poz. Mix	120						
Bulktrk No.					Gel.	10						
Pickup No.				2	Calcium	10						
JOB SEF	RVICES	& REMA	RKS		Hulls							
Rat Hole 30 s)	r				Salt							
Mouse Hole 205	V		S.,		Flowseal 43 7 5							
Centralizers					Kol-Seal							
Baskets					Mud CLR 48							
D/V or Port Collar					CFL-117 or CD110 CAF 38							
1st Plug @ 2040	50	sx 💋			Sand							
2NO Plug @ 1170'					Handling 310							
3rd Pluge 600'	50	<u></u>			Mileage #5							
ith Plug @ 260'		s.k		-	FLOAT EQUIPMENT							
5th Plug a 60'			& wiper p	1400								
, ag et oo	00	51 011	o wiper f	L	Centralizer							
Rat Hole BOSY					Baskets							
					AFU Inserts							
mouse Hele 20 sk												
					Float Shoe							
wood Plug					Latch Down /							
U UUUUU MIUUU					1- Wood Plug							
Thanks							0.000		V			
· · · · · · · · · · · · · · · · · · ·			5		Pumptrk Charge PTA							
an Apr	(Mileage 4	>						
<u></u>			>						Tax			
(-			Discount							
Gignature Joseph /	ant i	25					Total Charge					

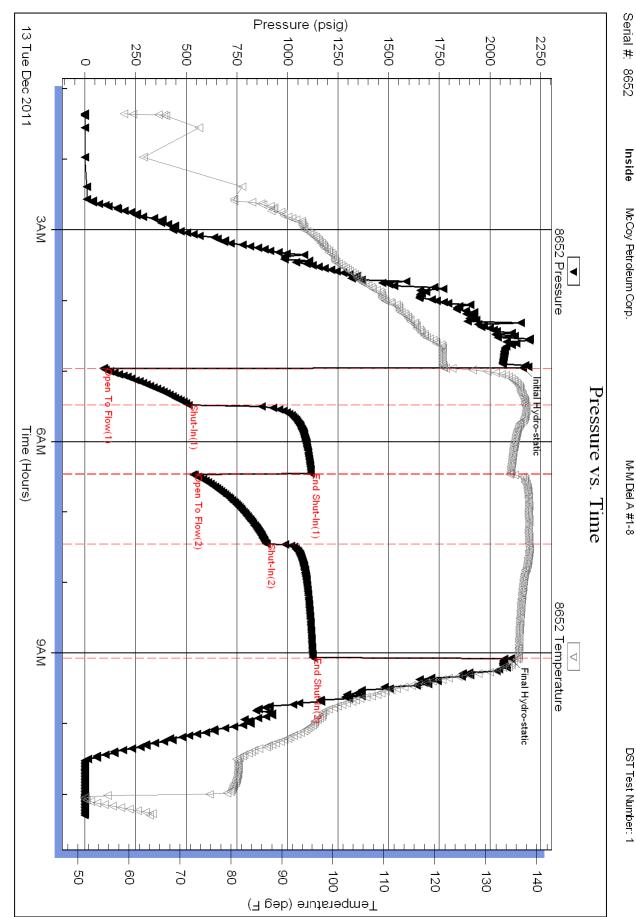
DRILESTENTISTICSTREPORT DRILESTENTISTICSTREPORT DRILESTENTISTICSTERPORT DRILESTENTISTICSTERPORT DRILESTENTISTICSTERPORT BORDET FEBRUAL INFORMATION: Conventional Bottom Hole (hita) Test Type: Conventional Bottom Hole (hita) <th< th=""><th></th><th>DRILL STEM TES</th><th>TREP</th><th>ORT</th><th></th><th></th></th<>		DRILL STEM TES	TREP	ORT		
Join Control Contecontre Control Contrel Contrel Contrel Contrel Contro	RILUDITE	McCoy Petroleum Corp.		8 20s 27	'w Lane, Ks	
ATTN: Jerry Smith Test Start: 2011.12.13 @ 01:21:00 GENERAL INFORMATION: Formation: Lansing K Deviated: No Whipstock: It (KB) Time Tool Opened: 04:57:45 Time Test Ended: 11:18:15 Unit No: 40 Interval: 4282.00 ft (KB) To 4330.00 ft (KB) (TVD) Total Depth: 4330.00 ft (KB) (TVD) Hole Diameter: 7.88 inchesHole Condition: Good Serial #: 8652 Inside Press @RunDepth: 895.00 psig @ 4283.00 ft (KB) Start Date: 2011.12.13 End Date: 2011.12.13 @ 09:04:45 TEST COMMENT: F: BOB @ 1 minute. BSt No return. F: BOB @ 3 minute. BST ON BST P: Total Pote (1) 1 11:52 F: BOB @ 1 minute. BST ON BST P: Total Pote (1) 1 11:52 F: BOB @ 1 minute. BST ON BST P: Total Pote (2) 1 11:52 F: BOB @ 1 minute. BST ON BS	ESTING , INC.			M-M Die	el A #1-8	
GENERAL INFORMATION: Formation: Lansing K Deviated: No Whipstock: ft (KB) Time Tool Opened: 04:57:45 Test Type: Conventional Bottom Hole (Initial) Time Tool Opened: 04:57:45 Test Ended: 11:18:15 Unit No: 40 Interval: 4282:00 ft (KB) TO 4330.00 ft (KB) (TVD) Reference Elevations: 2743.00 ft (KB) Total Depth: 4330.00 ft (KB) (TVD) Reference Elevations: 2710.00 ft (CF) Heb Dameter: 7.88 inchesHole Condition: Good KB to GR/CF: 12.00 ft Start Date: 2011.12:13 East Calib.: 2011.12:13 @ 04:57:00 Start Time: 01:21:05 End Time: 11:18:15 Time Of Birr. 2011.12:13 @ 04:57:00 TEST COMMENT: F: BOB @ 1 minute. Start Date: 2011.12:13 East Calib.: 2011.12:13 @ 04:45 TEST COMMENT: F: BOB @ 1 minute. Start Date: 2011.12:13 East Calib.: 2011.12:13 @ 04:45 Test Type: EOB @ 1 minute. Start Time. 11:18:15 Time Off Birr. 2011.12:13 @ 04:45 Test Type: BOB @ 1 minute. Start Time. 11:18:15 Time Off Birr.				Job Ticket	:: 45373 DS	Г#: 1
Formation:Lansing K Deviated:NoWhipstock:ft (KB)Test Type:Conventional Bottom Hole (Initial) Tester:Time Tool Opened: 0457:45 Time Test Ended:11:18:15Test Type:Conventional Bottom Hole (Initial) Tester:Test Type:Conventional Bottom Hole (Initial) Tester:Time Tool Opened: 0457:45 Time Test Ended:11:18:15Test Type:Canventional Bottom Hole (Initial) Tester:Test Type:Canventional Bottom Hole (Initial) Tester:Total Depth:4282.00 ft (KB) To 4330.00 ft (KB) (TVD) Hole Dameter:Test Type:Canventional Bottom Hole (Initial) Tester:2731.00 ft (KB) Tester:Serial #:865.00 psig @4283.00 ft (KB) Tester:2011.12.13 Last Callb:Capacity::8000.00 psig 2011.12.13 Last Callb:2011.12.13 Last Callb:2011.12.13 2011.12.13 Edster:2011.12.13 Edster:2011.12.13 Last Callb:2011.12.13 2011.12.13 Edster:201		ATTN: Jerry Smith		Test Start	: 2011.12.13 @ 01:21:0	00
Deviated: No Whipstock: ft (KB) Time Tool Opened: 04:57:45 Time Test Ended: 11:18:15 Time Test Ended: 11:18:15 Total Depth: 4330.00 ft (KB) (TVD) Total Depth: 4330.00 ft (KB) (TVD) Total Depth: 4330.00 ft (KB) (TVD) Total Depth: 895:00 psig @ 4283.00 ft (KB) Start Date: 2011.12:13 Start Time: 11:18:15 Time On Brit: 2011.12:13 Start Time: 2011.12:13 Start Time: 11:18:15 Time On Brit: 2011.12:13 Start Time: 2011.12:13 Start Time: 11:18:15 Time On Brit: 2011.12:13 Start Time: 11:18:15 Start Start	GENERAL INFORMATION:					
Total Depth: 4330.00 ft (KB) (TVD) 2731.00 ft (CF) Hole Diameter: 7.88 inchesHole Condition: Good KB to GR/CF: 12.00 ft Serial #: 895.00 psig 4283.00 ft (KB) Capacity:: 8000.00 psig Start Date: 2011.12.13 End Date: 2011.12.13 Last Calib.: 2011.12.13 Start Time: 01:21:05 End Time: 11:18:15 Time On Btm: 2011.12.13 @ 09:04:45 TEST COMMENT: F: BOB @ 1 minute. S: No return. F: BOB @ 3 minutes FS: No return. F:: BOB @ 3 minutes FS: No return. F: BOB @ 3 minutes FS: No return. Time Pressure time Annotation Model of the time of time	Deviated: No Whipstock: Time Tool Opened: 04:57:45	ft (KB)		Tester:	Bradley Walter	ı Hole (Initial)
Press@RunDepth: 895.00 psig @ 4283.00 ft (KB) Capacity: 8000.00 psig Start Date: 2011.12.13 End Date: 2011.12.13 Last Calib.: 2011.12.13 @ 04:57:00 Time Of Btm: 2011.12.13 @ 04:57:00 Time Off Btm: 2011.12.13 @ 09:04:45 TEST COMMENT: IF: BOB @ 1 minute. IS: No return. FF: BOB @ 3 minutes FS: No return.	Total Depth: 4330.00 ft (KB) (TV	/D)			2731	.00 ft (CF)
Start Date: 2011.12.13 End Date: 2011.12.13 Last Calib.: 2011.12.13 Start Time: 01:21:05 End Time: 11:18:15 Time On Bim: 2011.12.13 @ 04:57:00 Time Off Bim: 2011.12.13 @ 04:57:00 Time Off Bim: 2011.12.13 @ 09:04:45 TEST COMMENT: IF: BOB @ 1 minute. ISI: No return. FF: BOB @ 3 minutes FSI: No return. FF: BOB @ 3 minutes FSI: No return. FF: BOB @ 1 minute. ISI: No return. ISI: No		@ 4283.00 ft (KB)		Capacity:	8000	
B: No return. F: BOB @ 3 minutes F: No return.	Start Date: 2011.12.13	End Date:		Last Calib.: Time On Btm:	2011.12 2011.12.13 @ 04:57	.13 :00
Image: Note of the state o	ISI: No return. FF: BOB @ 3 mir					
200 100 100 100 100 2162.21 121.76 Initial Hydro-static 100 100 100 100 100 100 1115.28 134.85 End Shut-In(1) 100 100 110 100 1115.28 134.85 End Shut-In(1) 100 110 100 1115.28 134.85 End Shut-In(1) 100 110 100 11115.28 134.85 End Shut-In(1) 100 110 11115.28 136.40 Shut-In(2) 100 11114 136.39 End Shut-In(2) End Shut-In(2) 11114 11114 11114 11114 11114 11114 11114 11114 11114 11114 11114 11114 11114 11114 111114				PRESS	SURE SUMMARY	
3AM 6AM 9AM 13 Tue Dec 2011 Time (Hous) Immediate		Temperature (deg 5) 120 120 120 120 120 120 120 120	(Min.) 0 1 32 91 91 150 247	(psig) (deg 2162.21 121 90.66 123 511.04 137 1115.28 134 533.94 138 1124.44 136	 F) .76 Initial Hydro-static .41 Open To Flow (1) .73 Shut-In(1) .85 End Shut-In(1) .72 Open To Flow (2) .49 Shut-In(2) .39 End Shut-In(2) 	
Recovery Gas Rates	Recovery				Gas Rates	
				Cł	noke (inches) Pressure (psig)	Gas Rate (Mcf/d)
2600.00 mcw 3m 97w (oil spots) 25.86	2600.00 mcw 3m 97w (oil spots)	25.86				

RILOB	ITE		Petroleum					LUID SUMMAR
TECT	ING , INC.					8 20s 27w		
	mu , 110.	0000 -	. Central, S , Ks 67206			M-M Diel A #1-8 Job Ticket: 45373 DST#:1		
		ATTN:	Jerry Smi	ith		Test Start: 2	2011.12.13 @ 01	:21:00
Aud and Cushion Info	ormation							
<i>l</i> ud Type: Gel Chem				ushion Type:			Oil A PI:	0 deg API
Aud Weight: 9.00 I				ushion Length:		ft	Water Salinity:	70000 ppm
/iscosity: 42.00 s	-			ushion Volume:		bbl		
Vater Loss: 9.58 ii Resistivity: c	n³ ohm.m			as Cushion Type: as Cushion Pressure		nsia		
Salinity: 4600.00 p			Ga	as cushion Pressure		psig		
	nches							
Recovery Information	n							
	·		R	ecovery Table			7	
	Leng ft			Description		Volume bbl		
	2	2600.00	mcw 3m	97w (oil spots)		25.863	3	
Tot	tal Length:	2600.	.00 ft	Total Volume:	25.863 bbl			
Nu	m Fluid Samp	oles: 0		Num Gas Bombs:	0	Serial #	:	
	boratory Nan covery Comr		is .120 @	Laboratory Location 65F = 70000ppm	1:			
			is .120 @		1:			
			is .120 @		1:			
			is .120 @		1:			
			is .120 @		1:			
			is .120 @		1:			

Printed: 2011.12.13 @ 11:56:01

Ref. No: 45373





M-M Diel A #1-8

	DRILL STEM TES	T REP	ORT			
RILOBITE	McCoy Petroleum Corp.		8 20s 2	7w Lane	, Ks	
ESTING , INC.	8080 E. Central, Suite 300		M-M Di	el A #1-8	3	
	Wichita, Ks 67206		Job Ticke	t: 45374	DST	#:2
	ATTN: Jerry Smith		Test Star	t: 2011.12	2.14 @ 19:08:00)
GENERAL INFORMATION:						
Formation:Marmaton-PawneeDeviated:NoWhipstock:Time Tool Opened:21:23:00Time Test Ended:02:21:45	-Ft S ft (KB)		Test Type Tester: Unit No:		entional Bottom I ey Walter	Hole (Reset)
Interval:4461.00 ft (KB) To45Total Depth:4550.00 ft (KB) (TVHole Diameter:7.88 inches Hole			Referenc	e Elevatior KB to GR/	2731.0	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 8652InsidePress@RunDepth:30.17 psigStart Date:2011.12.14Start Time:19:08:05TEST COMMENT:IF: Surface blow, ISI: No return. FF: No blow (sur FSI: No return.	End Date: End Time: died @ 10 minutes	2011.12.15 02:21:44	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.0 2011.12. 12.14 @ 21:22:4 12.15 @ 00:29:0	45
Pressure vs. Ti	me		DRES		JMMARY	
14Wed Dec 2011	2002 Temperature 100 100 100 100 100 100 100 10	Time (Min.) 0 1 30 61 61 120 186 187	Pressure (psig) Ter (der (der 2296.79) 228.61 129 29.67 129 41.18 129 29.49 129 30.17 129 38.99 13	np Ani 3 F) 5.13 Initial 5.12 Oper 5.77 Shut 3.06 End 3.06 Oper 9.82 Shut 1.32 End	notation I Hydro-static n To Flow (1) -In(1)	
Recovery				Gas Rat	tes	
Length (ft) Description 5.00 mud 100m (oil spots)	Volume (bbl) 0.05		С	hoke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
* Recovery from multiple tests Trilobite Testing, Inc	Ref. No: 45374		_ ·	4	12.15 @ 08:24	.10

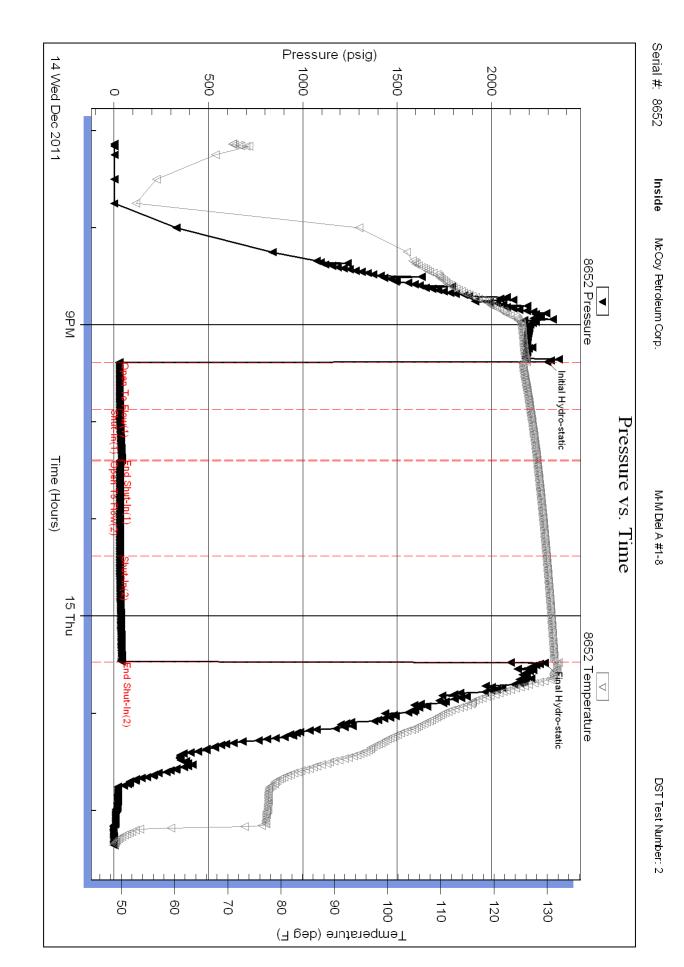
	DRILL STEM TES	T REPO	ORT			
RILOBITE	McCoy Petroleum Corp.		8 20s 27w Lane, Ks			
ESTING , INC	8080 E. Central, Suite 300		M-M Diel	A #1-8		
	Wichita, Ks 67206		Job Ticket:	45374	DST#	#:2
	ATTN: Jerry Smith		Test Start:	2011.12.14 @	@ 19:08:00	
GENERAL INFORMATION:	+					
Formation:Marmaton-PawnerDeviated:NoWhipstock:Time Tool Opened:21:23:00Time Test Ended:02:21:45	e-Ft S ft (KB)		Test Type: Tester: Unit No:	Convention Bradley Wa 40		Hole (Reset)
Interval:4461.00 ft (KB) To4Total Depth:4550.00 ft (KB) (ToHole Diameter:7.88 inches Ho			Reference	Elevations: B to GR/CF:	2731.0	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 8360OutsidePress@RunDepth:psigStart Date:2011.12.14Start Time:19:08:05TEST COMMENT:IF: Surface blow	End Date: End Time:	2011.12.15 02:21:59	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.0 2011.12.1)0 psig 5
ISI: No return. FF: No blow (su FSI: No return. Pressure vs.	Time		PRESSI	JRE SUMM	IARY	
200 G g g g g g g g g g g g g g g g g g g g	B300 Temperature B300 Temperature	Time (Min.)	Pressure Temp (psig) (deg f		ion	
Recovery				Bas Rates		
Length (ft) Description 5.00 mud 100m (oil spots)	Volume (bbl) 0.05		Chok	e (inches) Press	sure (psig)	Gas Rate (Mcf/d)
* Recovery from multiple tests Trilobite Testing, Inc	Ref. No: 45374		Printe	ed: 2011.12.1	5 @ 08.24.	12

ATEN T	1	DRILL STEM TES	T REPOR	т	E 11	JID SUMMARY		
RILOBITE ESTING , INC.		McCoy Petroleum Corp.			8 20s 27w Lane, Ks			
		8080 E. Central, Suite 300 Wichita, Ks 67206		M-M Diel A #1-8				
				Job Ticket: 45374 DST#:2				
	A	ATTN: Jerry Smith		Test Start: 2011.12.14 @ 19:08:00				
Mud and Cushion Info	ormation							
Mud Type:Gel ChemMud Weight:9.00 lbViscosity:51.00 scWater Loss:7.60 inResistivity:ofSalinity:2500.00 pfFilter Cake:1.00 in	ec/qt h ³ hm.m pm	Cushion Type: Cushion Length: Cushion Volume Gas Cushion Ty Gas Cushion Pre	: De:	ft bbl psig	Oil API: Water Salinity:	0 deg API 0 ppm		
Recovery Information								
		Recovery Tab	e	1	7			
	Length ft	Description		Volume bbl				
	5	5.00 mud 100m (oil spots)		0.05	0			
Tota	al Length:	5.00 ft Total Volume	0.050 bbl					
	ooratory Name: covery Commen	Laboratory L						

Printed: 2011.12.15 @ 08:24:14

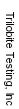
Ref. No: 45374

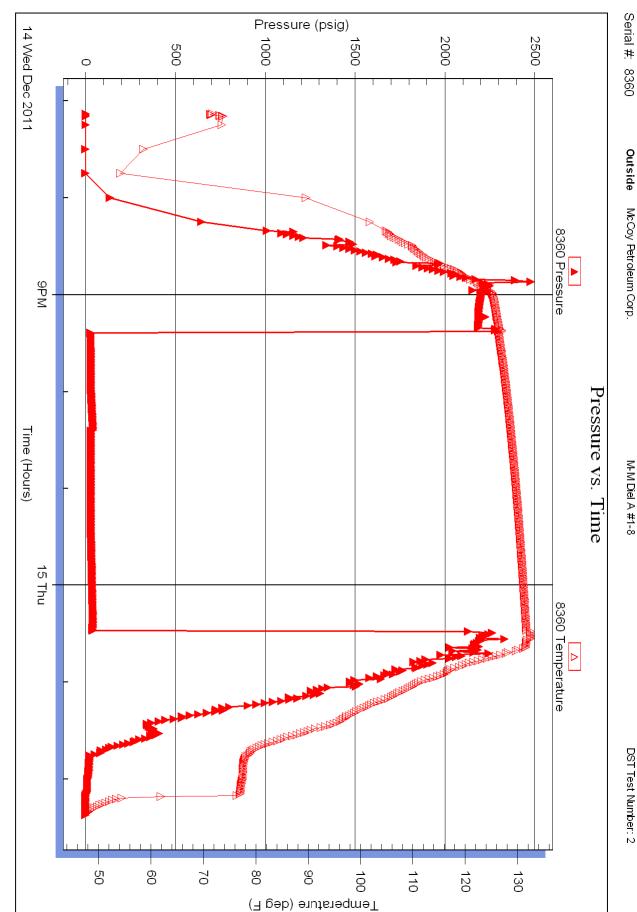




Printed: 2011.12.15 @ 08:24:15

Ref. No: 45374





DST Test Number: 2

Serial #: 8360 Outside McCoy Petroleum Corp.

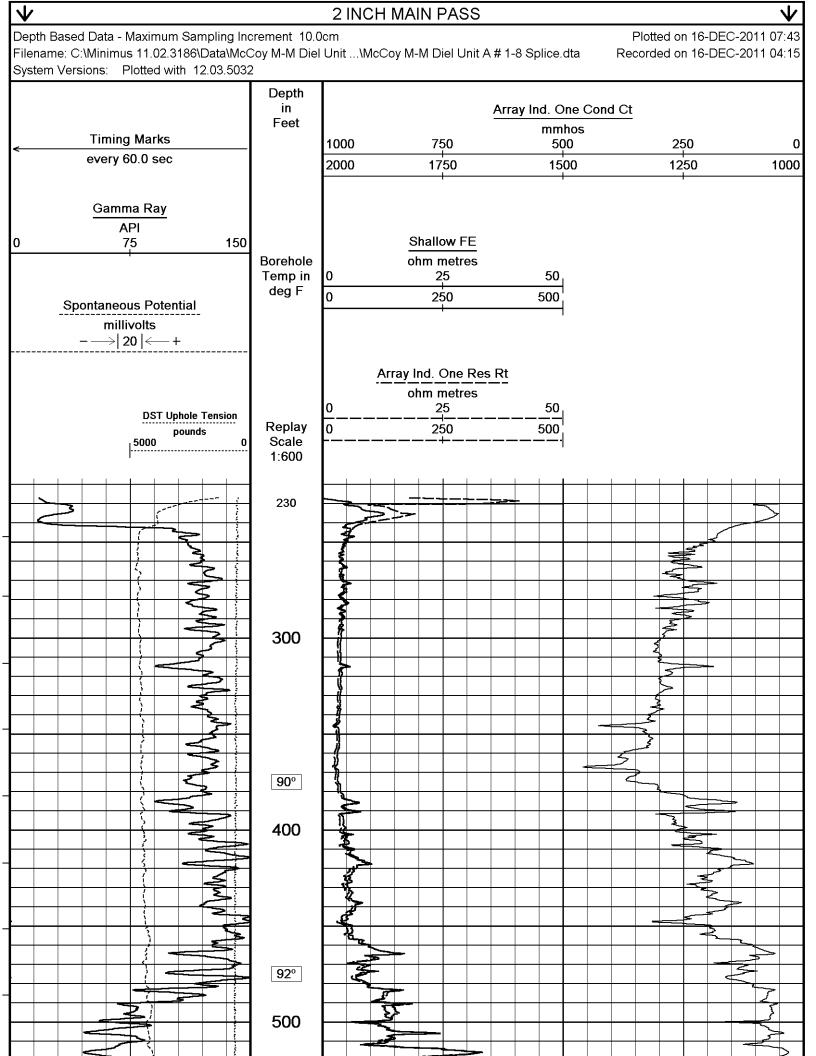
¢		ARRAY	ARRAY INDUCTION	
	ġ)	SHALLO	SHALLOW FOCUSED	
Weathertord	rd	ELEC	ELECTRIC LOG	
ANY	COY PETR	MCCOY PETROLEUM CORPORATION	ORATION	
WELL M-I	M-M DIEL UNIT "A" # 1-8	T "A" # 1-8		x
FIELD WI	WILDCAT			5 ₩
PROVINCE/COUNTY LANE	NE			Wireline
COUNTRY/STATE U.S	U.S.A. / KANSAS	AS		2010
	2310' FSL & 2310' FEL	310' FEL	ſ	
	NW NW SE			
SEC TWP RGE		Other Services		
20S		MDN		
API Number 15-101-22334	34 MML			
Permit Number			_	
Permanent Datum G.L., Elevation 2733 feet	vation 2733 feet		Elevations:	feet
Log Measured From KB				2743.00
Drilling Measured From K.B. @ 10 FEET	. @ 10 FEET		<u>و</u> ر	2733.00
Date	16-DEC-2011			
Run Number	ONE			
Depth Driller	4730.00	feet		
Depth Logger	4735.00	feet		
First Reading	4732.00	feet		
Last Reading	227.00	feet		
Casing Driller	228.00	feet		
Casing Logger	227.00	feet		
Bit Size	7.875	inches		
Hole Fluid Type	CHEMICAL			
Density / Viscosity	9.40 lb/USg	54.00 CP		
PH / Fluid Loss	10.50	7.60 ml/30Min		
Sample Source	FLOWLINE			
Rm @ Measured Temp	1.45 @ 67.0	ohm-m		
Rmf @ Measured Temp	1.16 @ 67.0	ohm-m		
Rmc @ Measured Temp	1.74 @ 67.0	ohm-m		
Source Rmf / Rmc	CALC	CALC		
Rm @ BHT	0.80 @125.0	ohm-m		
Time Since Circulation	5 HOURS			
Max Recorded Temp	126.00	deg F		
Equipment Name	COMPACT			
Equipment / Base	13096	LIB		
Recorded By	A. GIAMBALVO			
Witnessed By	JERRY SMITH			
S.O. / JOB #	3534684		LB11-319	

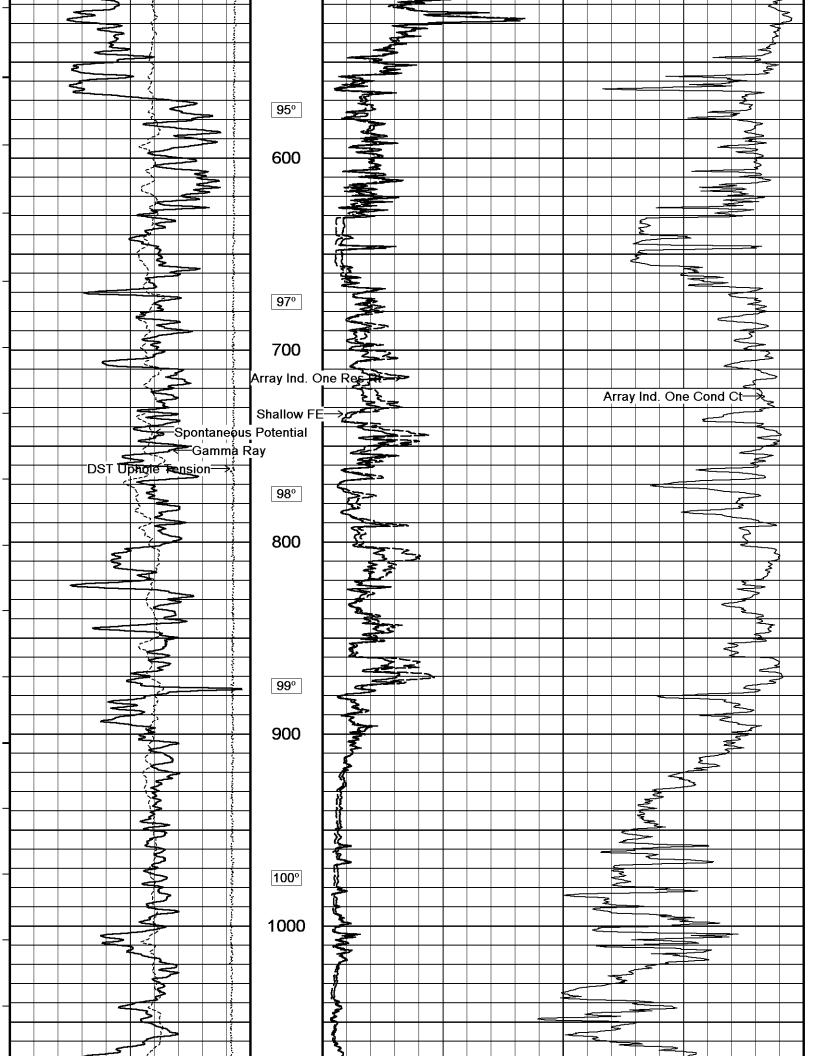
	ast Edited: 16-DEC-2011 07:22						
Bit Size		Depth From		Depth To			
inches feet			feet				
7.875		227.00		4735.00			
CASING RECORD							
Туре	Size	Depth From	Shoe Depth		Weight		
	inches	feet	feet		pounds/ft		
SURFACE	8.625	10.00	227.00		24.00		

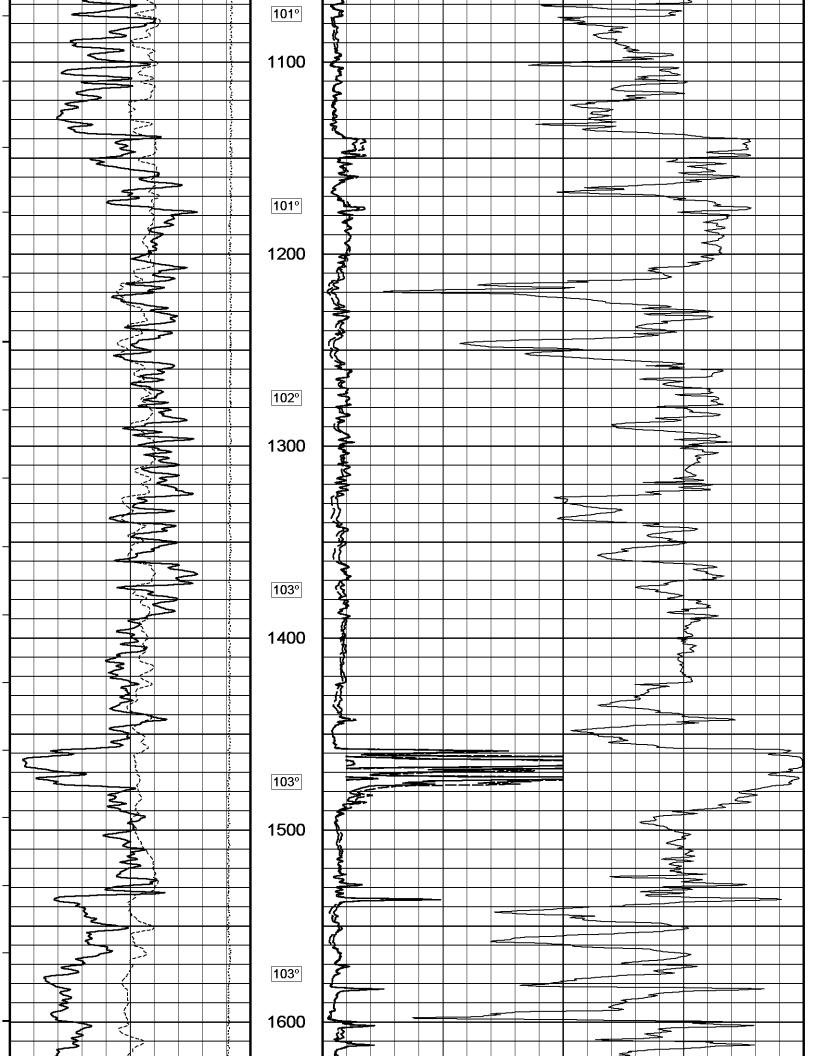
REMARKS

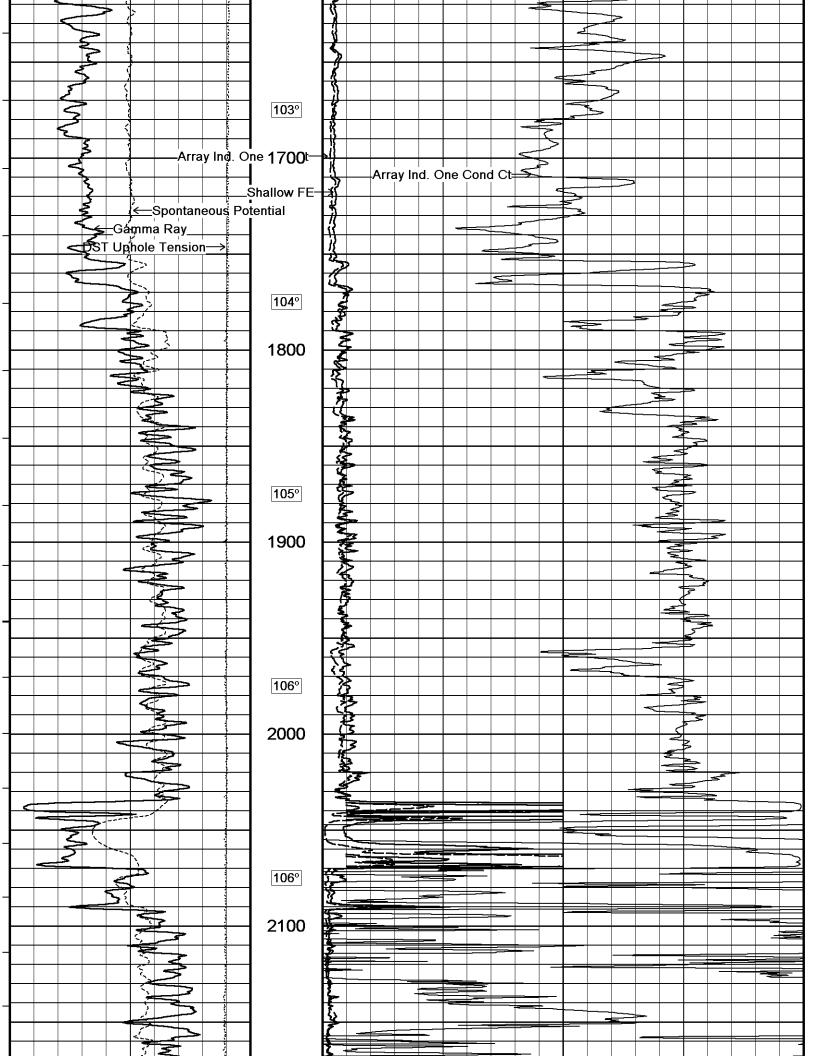
Tools Used: MPD, MCG, MDN, MFE, MAI, MML. Hardware: MPD: 8 inch profile plate used. MAI, MSS and MFE: 0.5 Inch standoffs used. MDN: Dual Bowspring used. 2.71 G/CC Limestone density matrix used to calculate porosity. Borehole rugosity, tight pulls, and washouts will affect data quality. All intervals logged and scaled per customer's request. Annular volume with 5.5 inch production casing from TD to 3800 ft = 158 cu. ft Service Order #3534684 Rig: Val # 7 Engineer: A. Giambalvo Operator(s): K. Rinehart

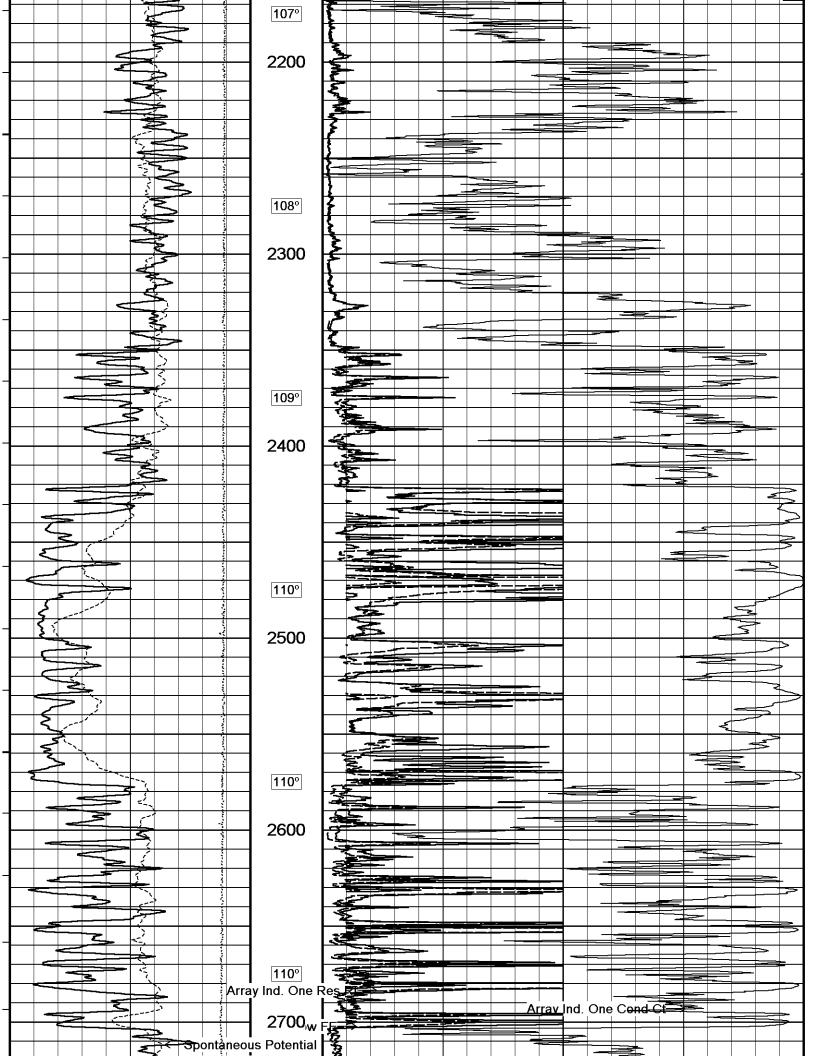
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, 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 in our price schedule.

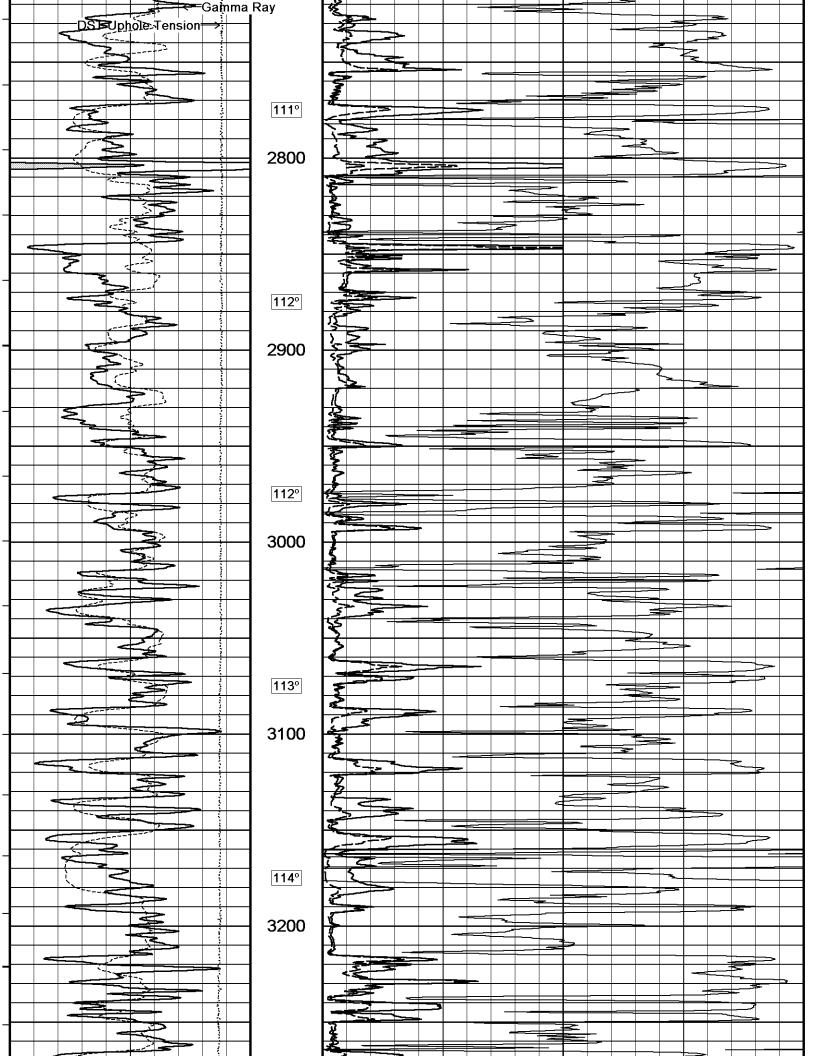


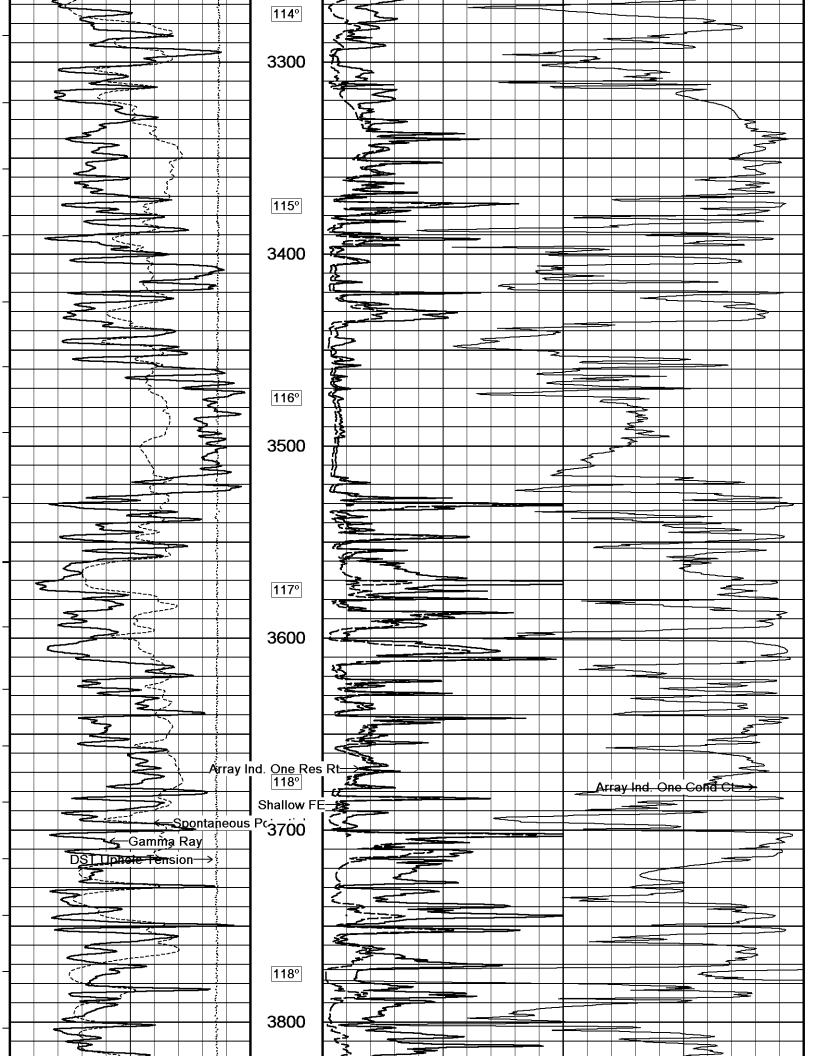


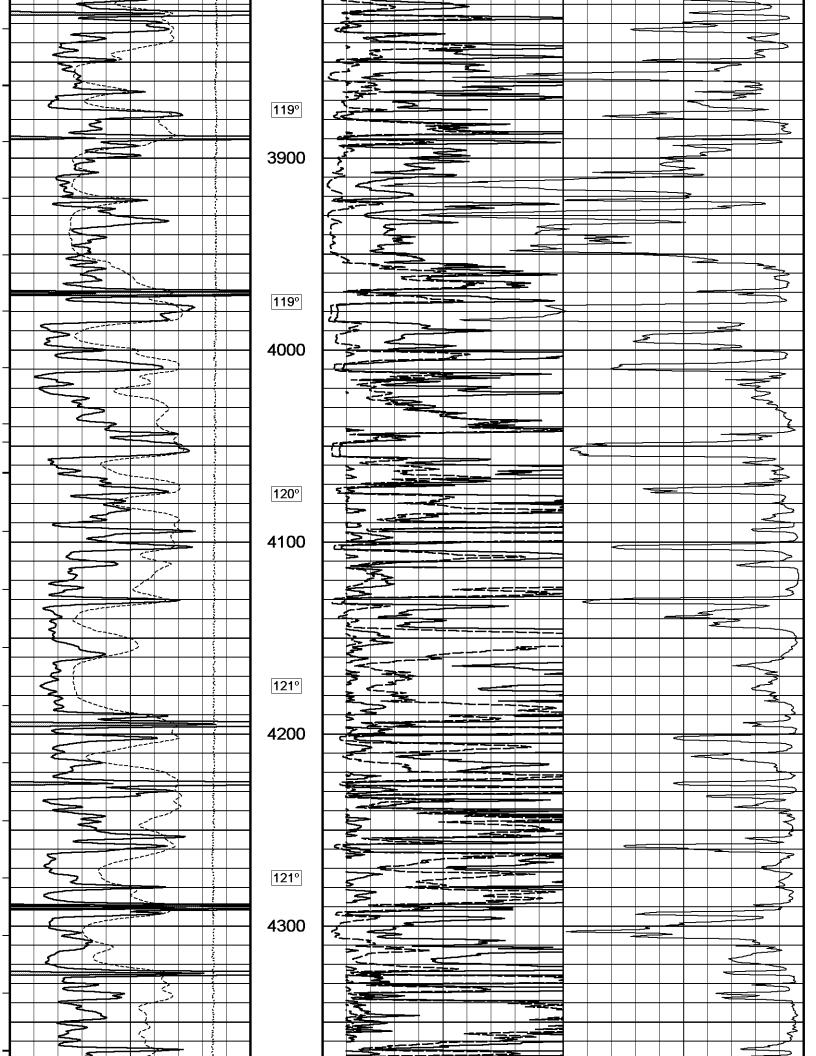


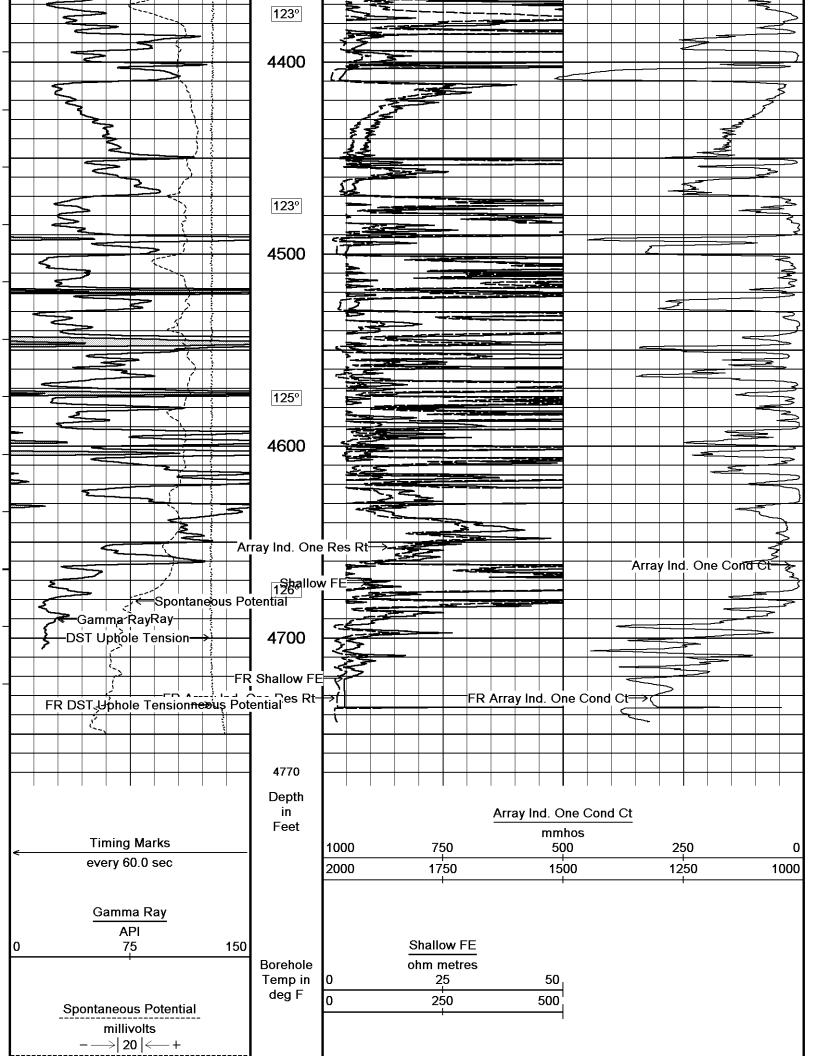


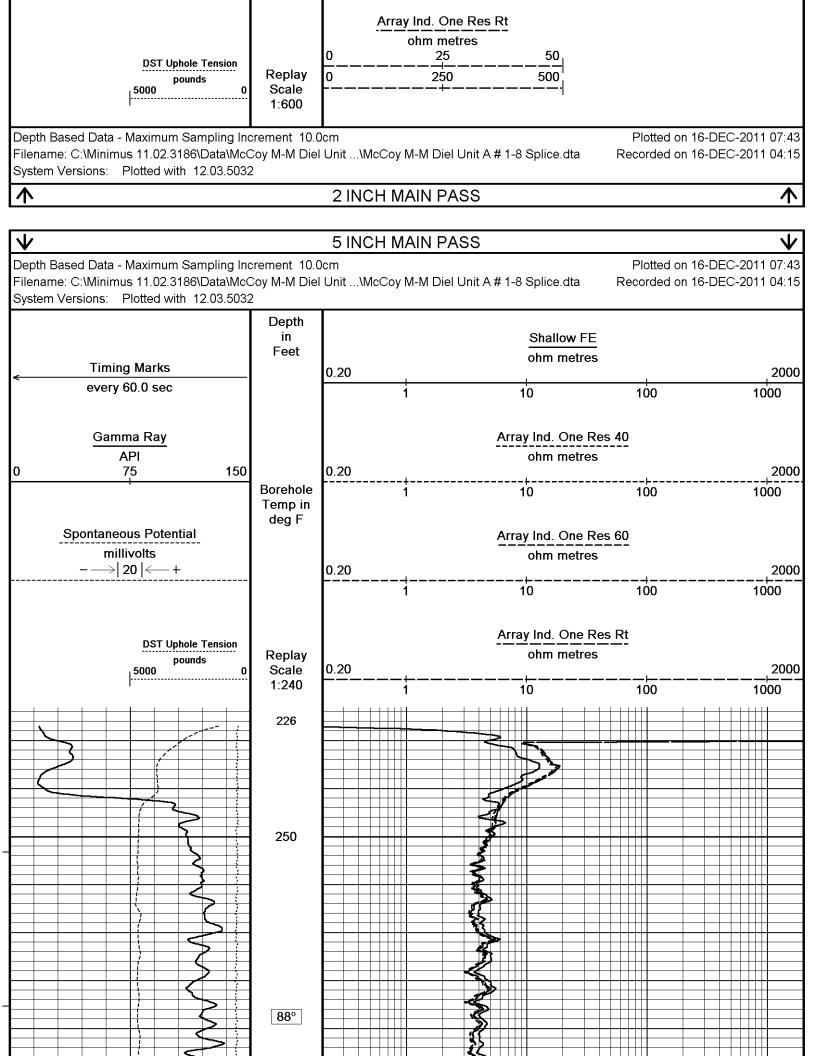


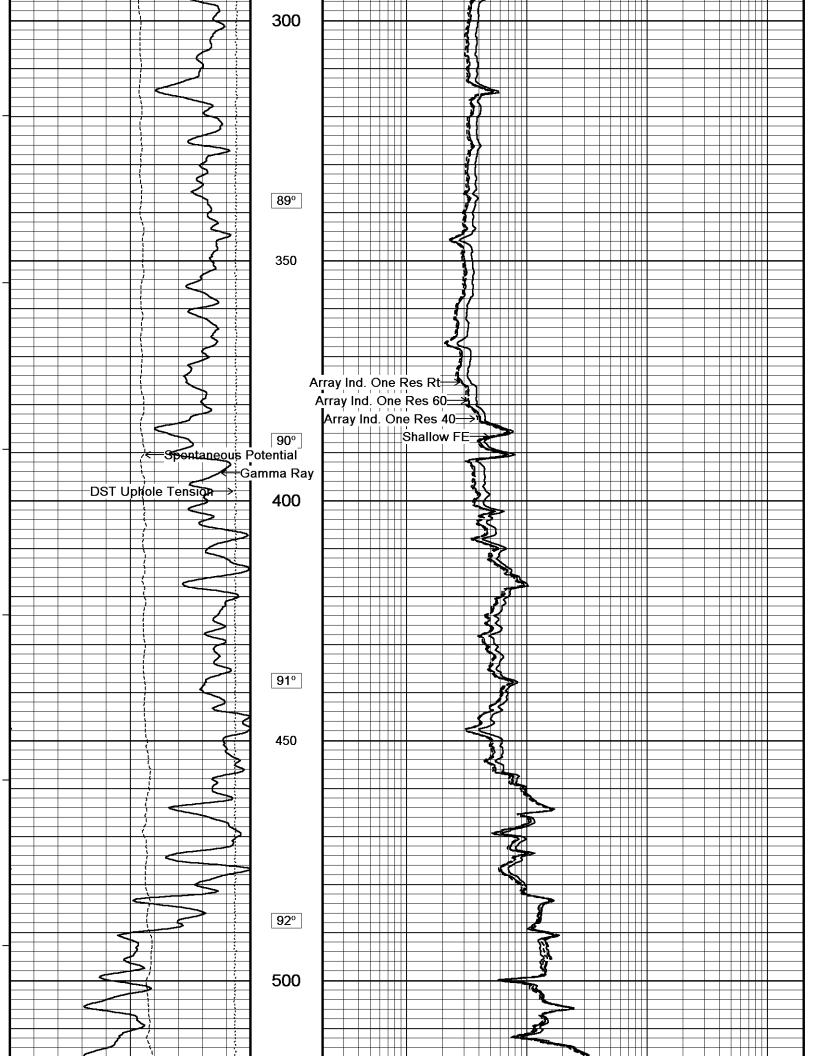


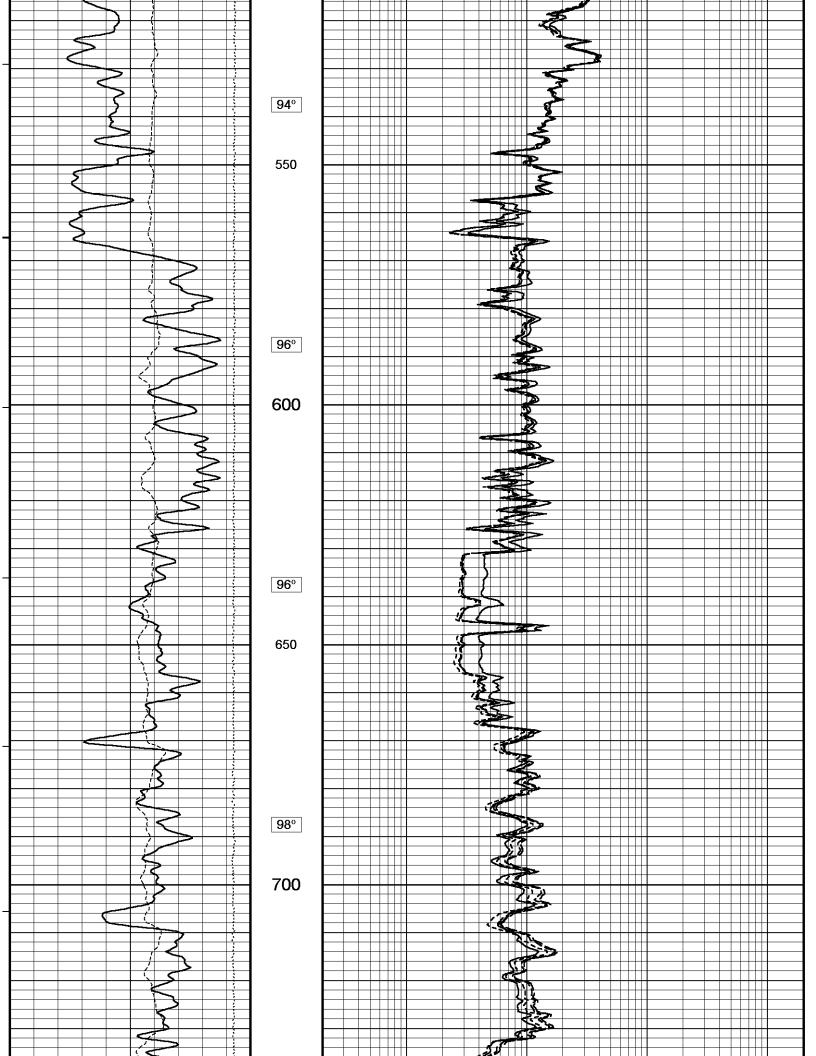


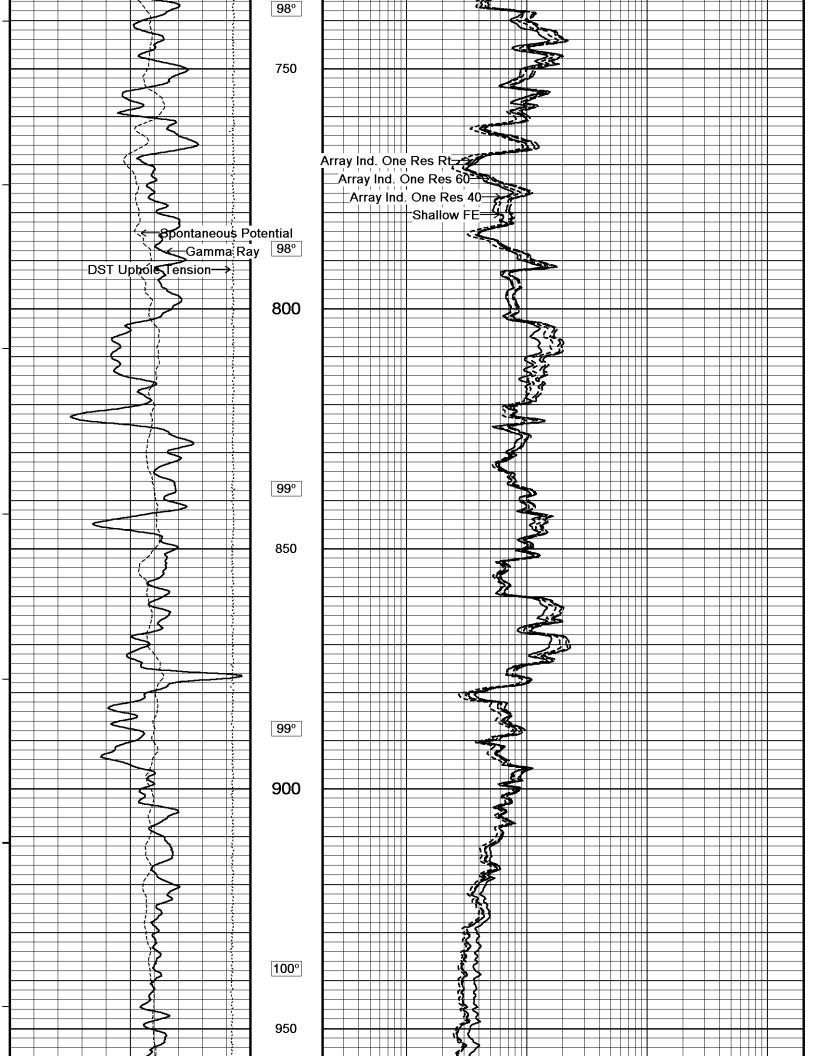


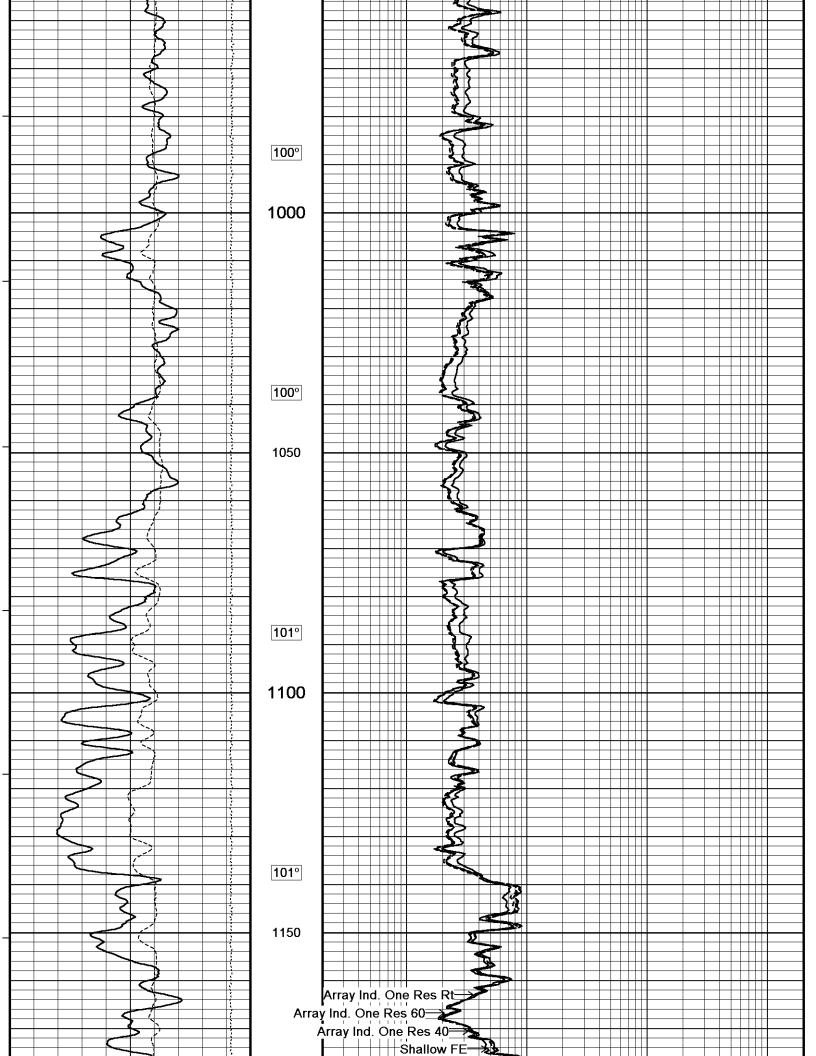


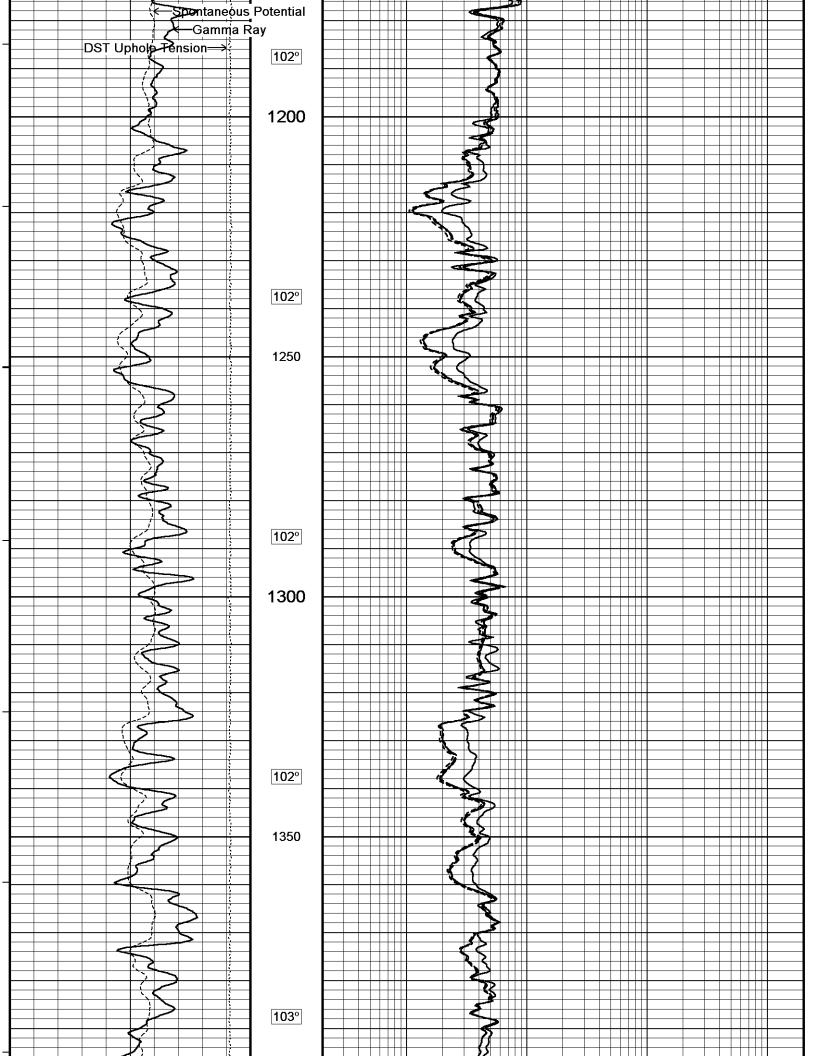


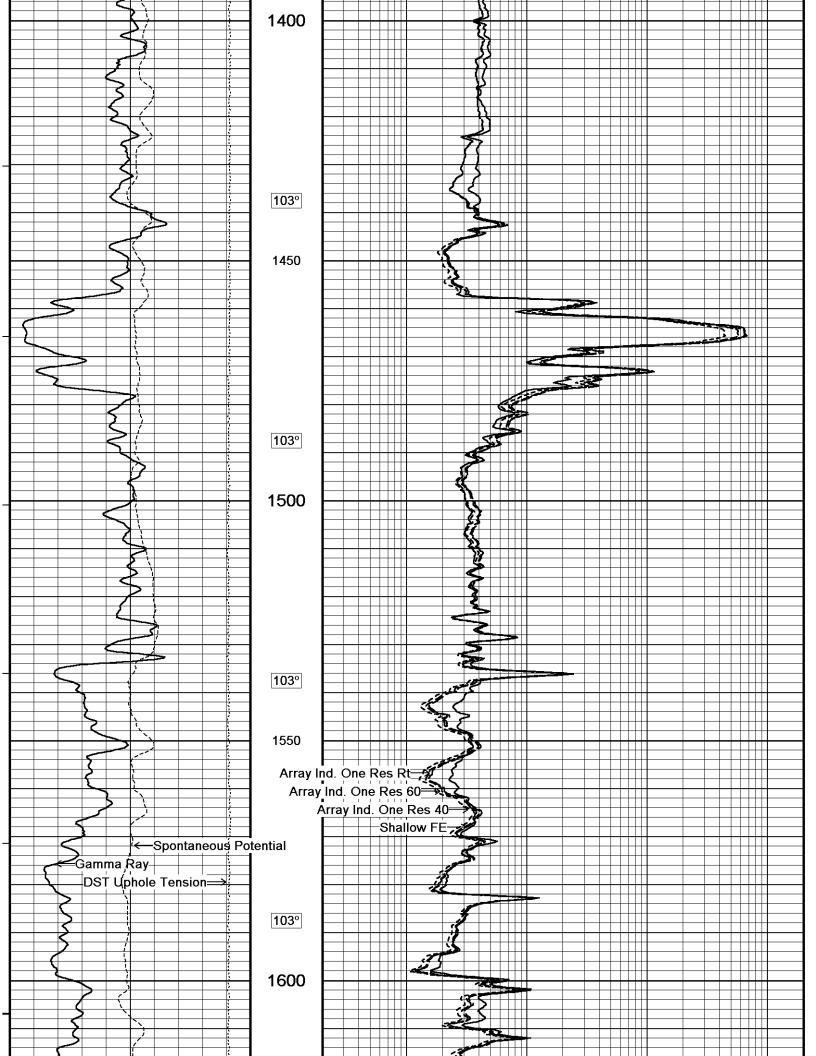


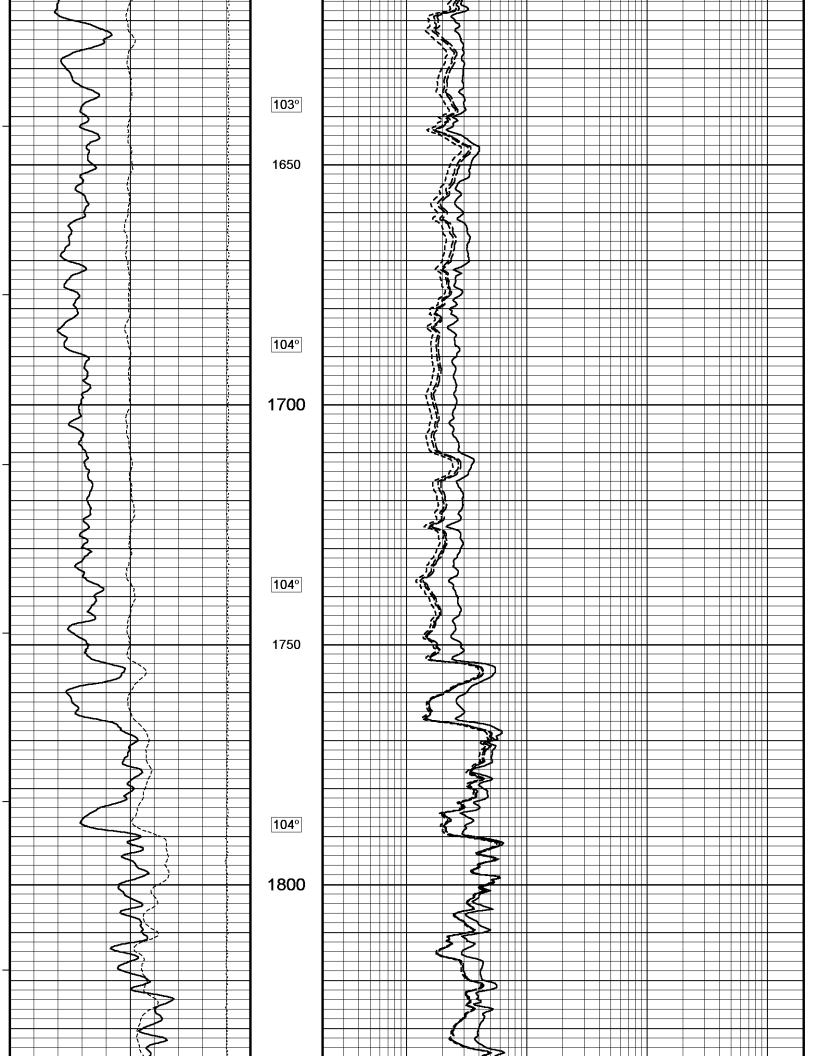


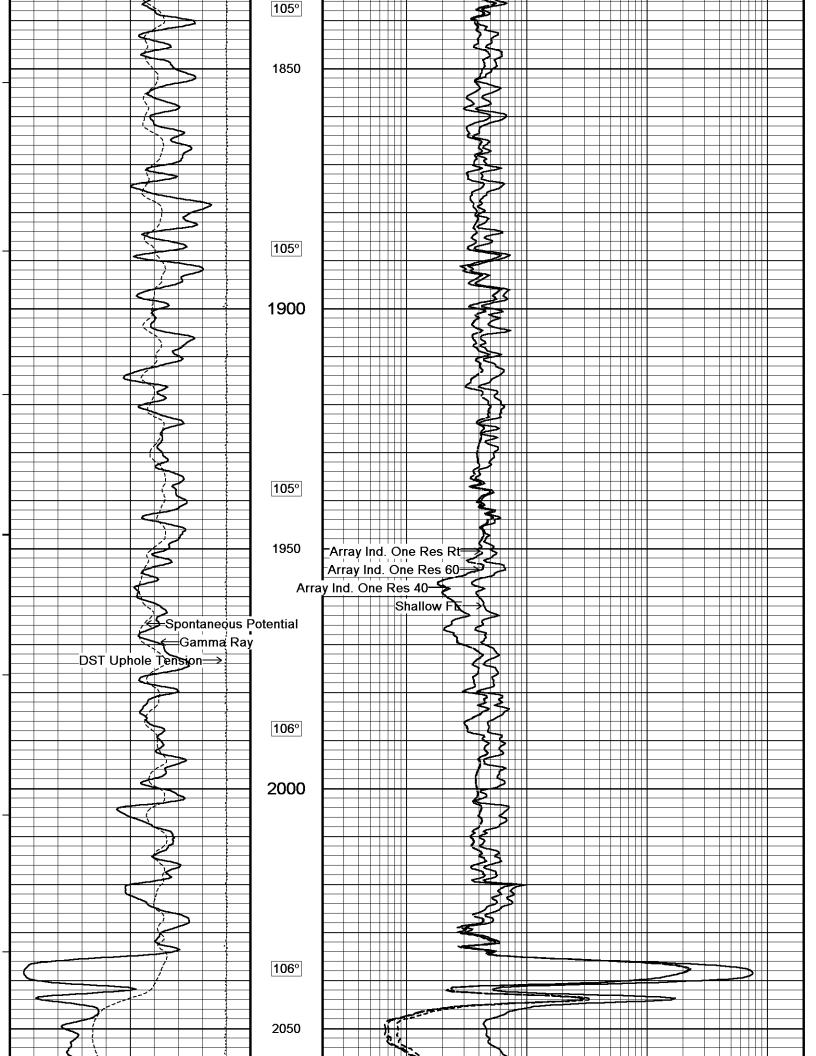


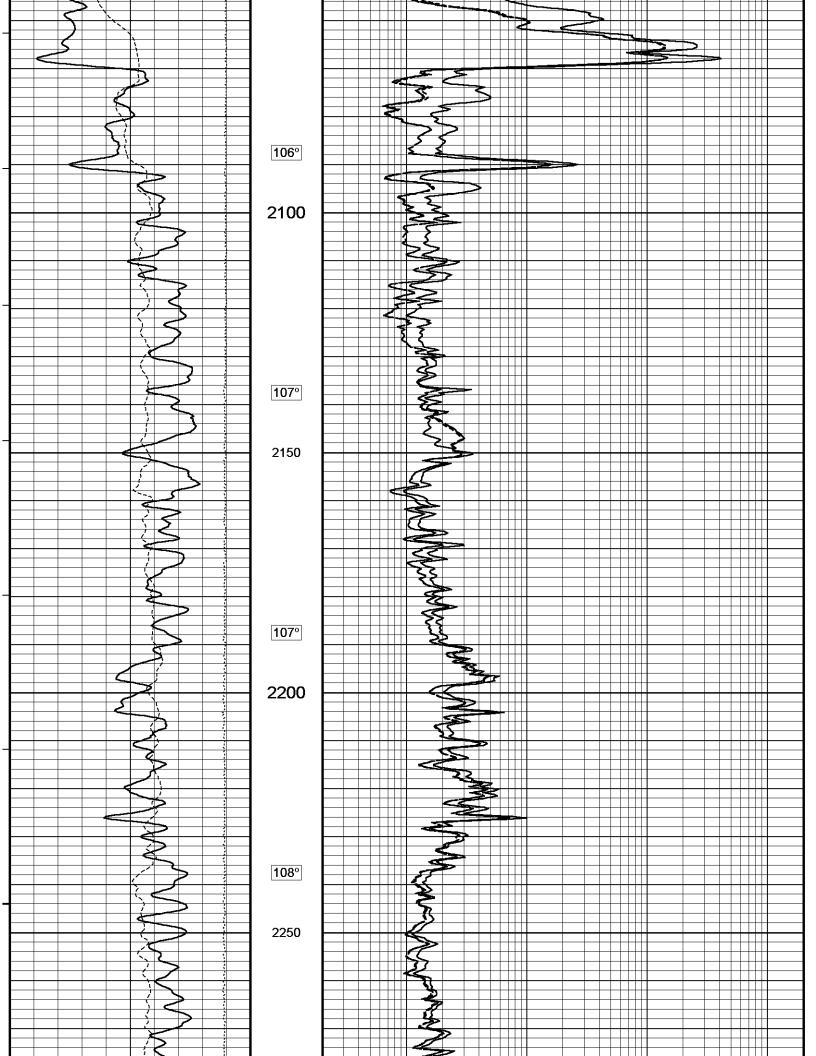


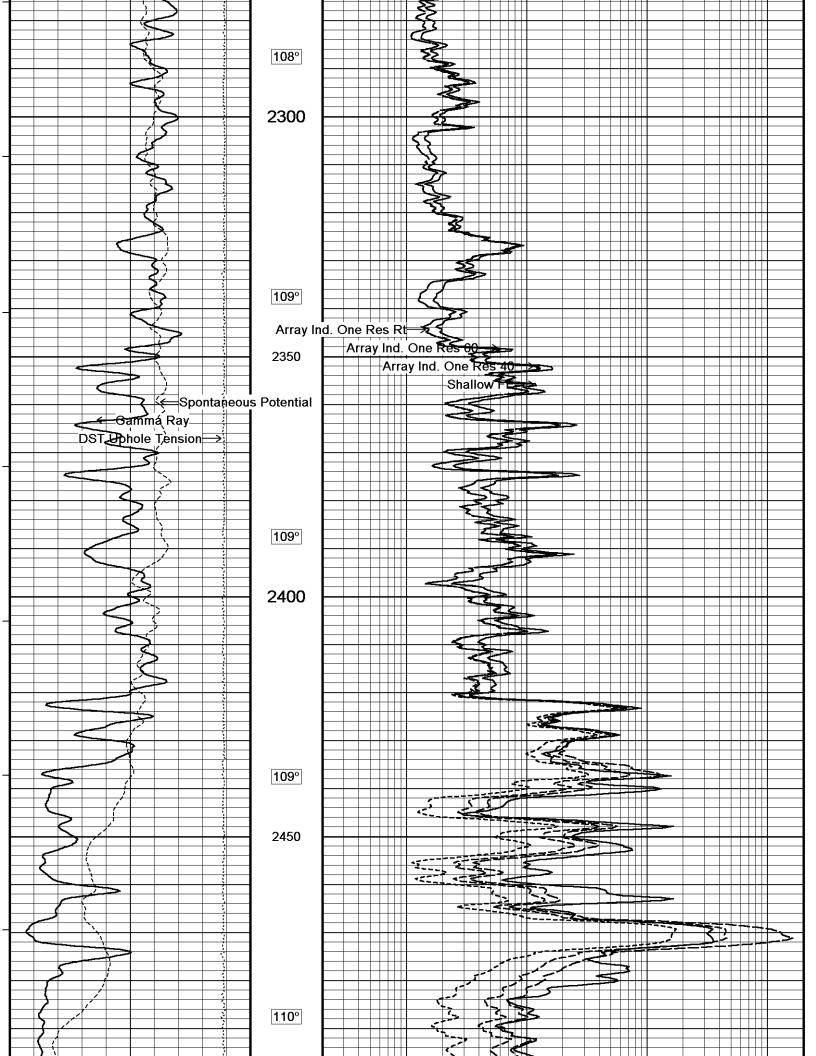


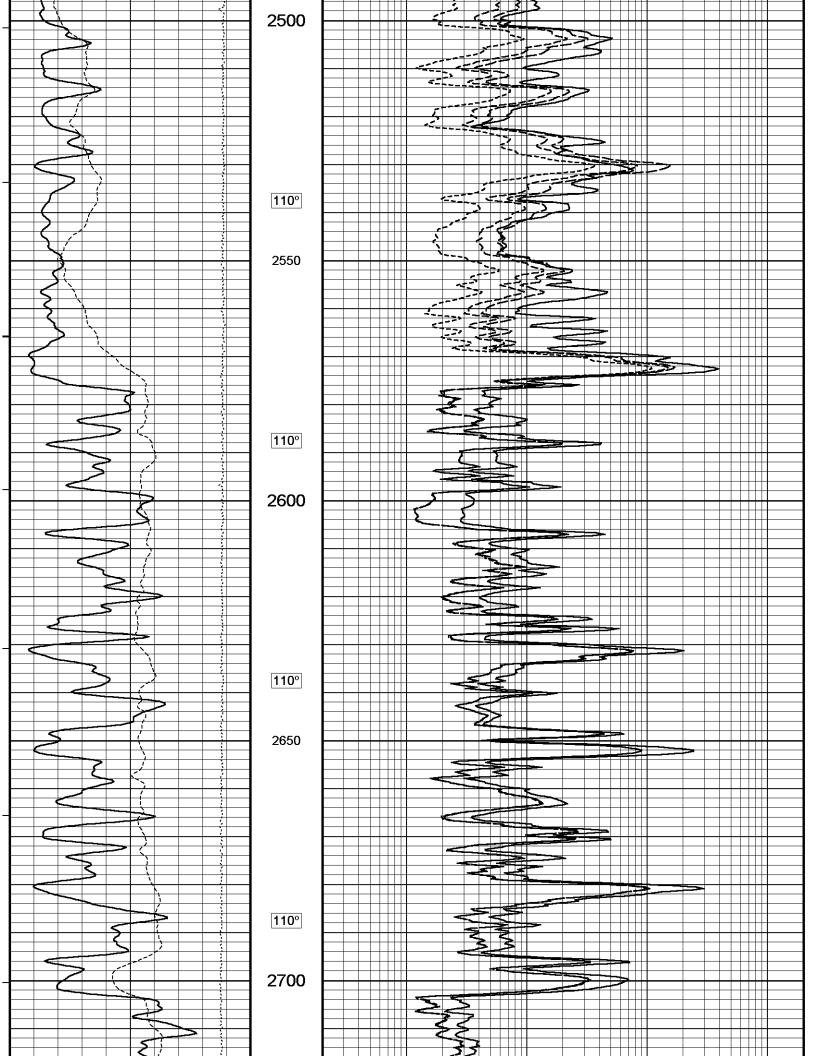


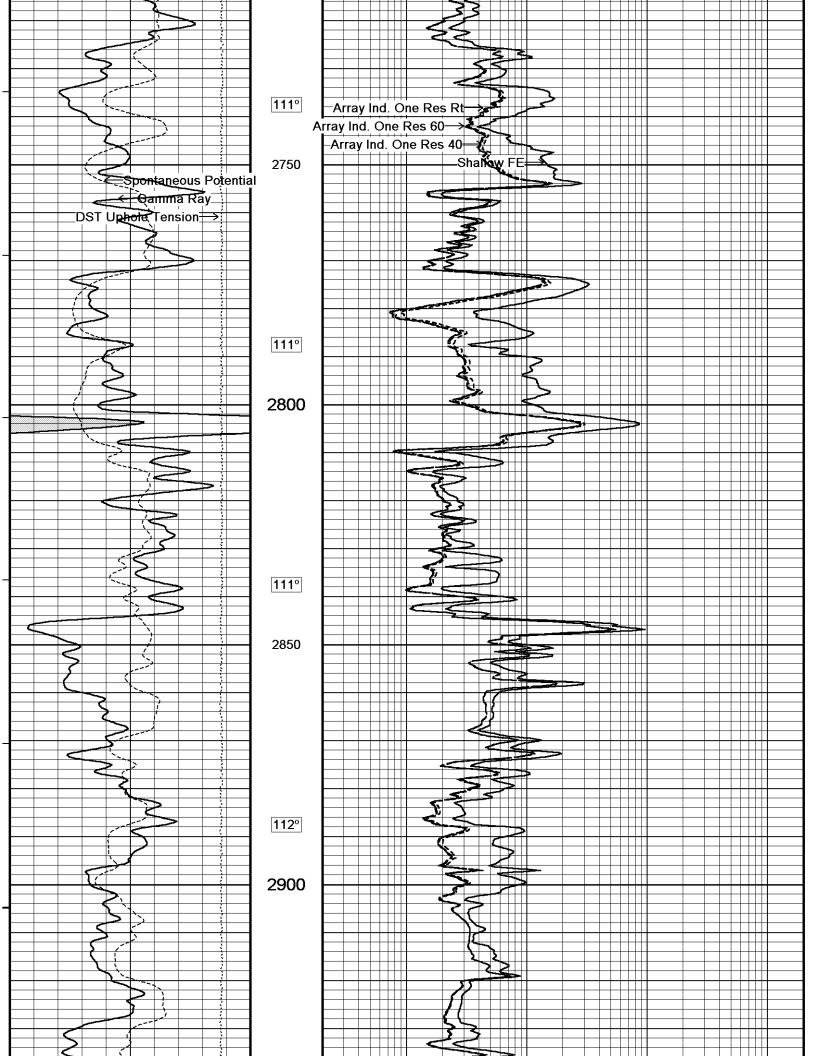


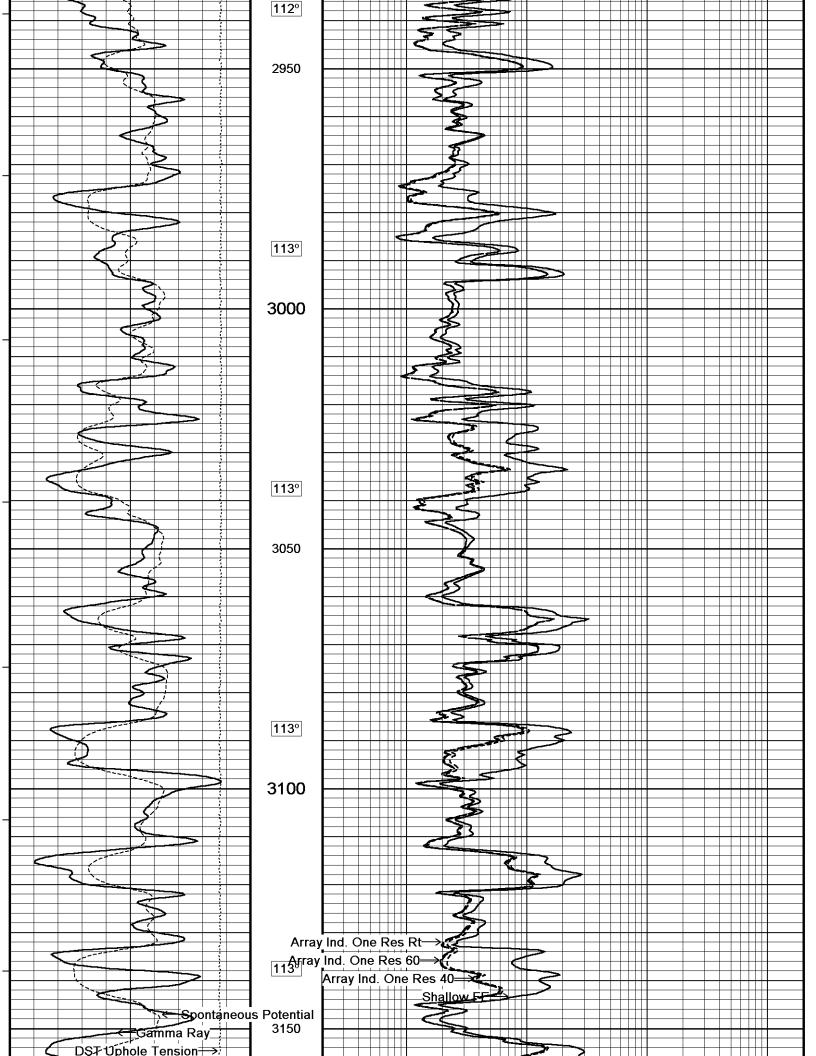


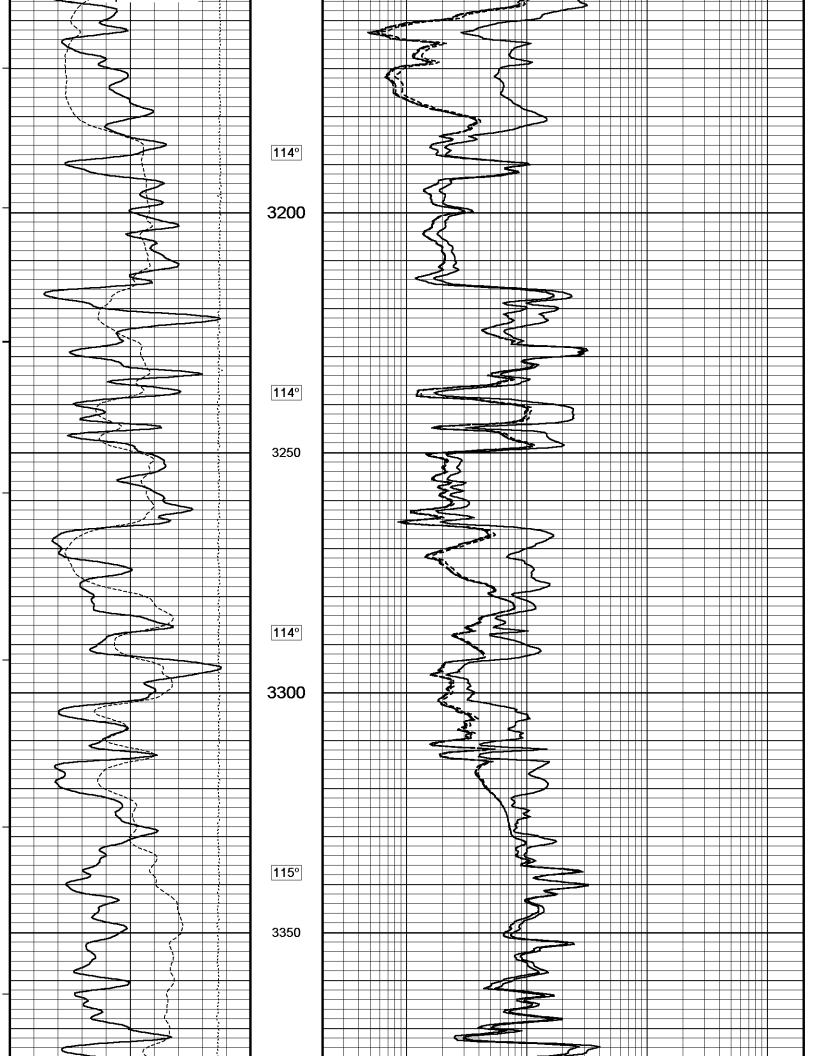


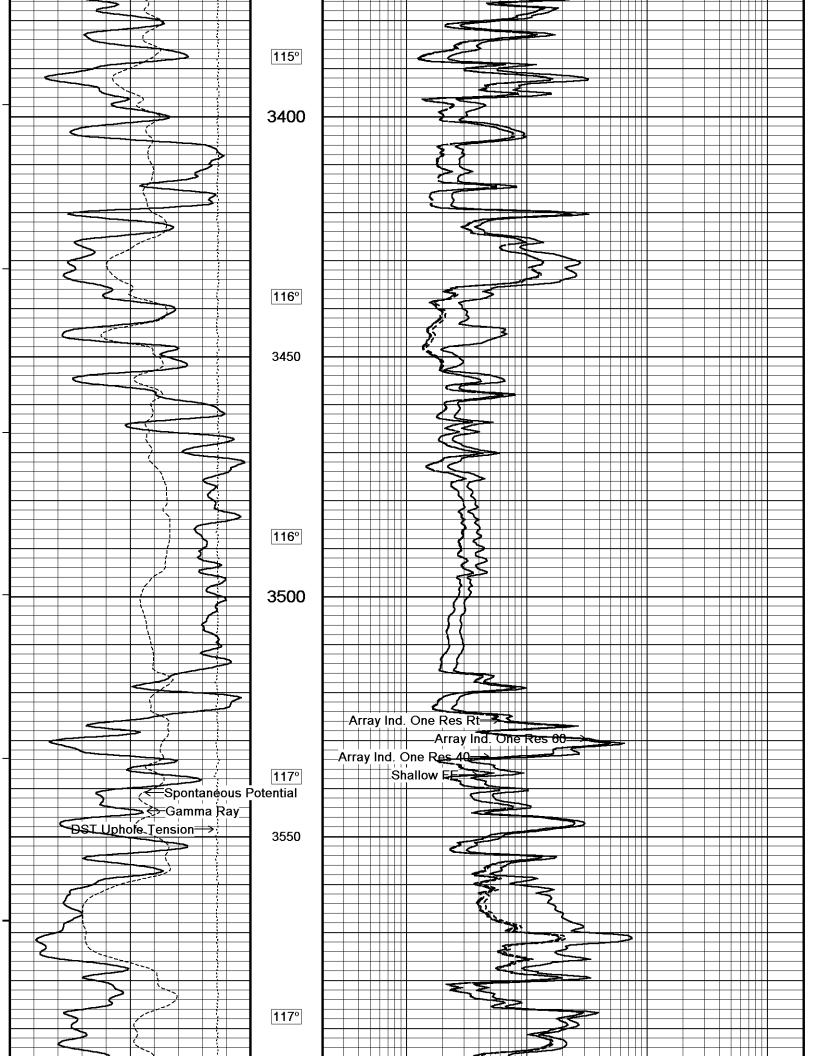


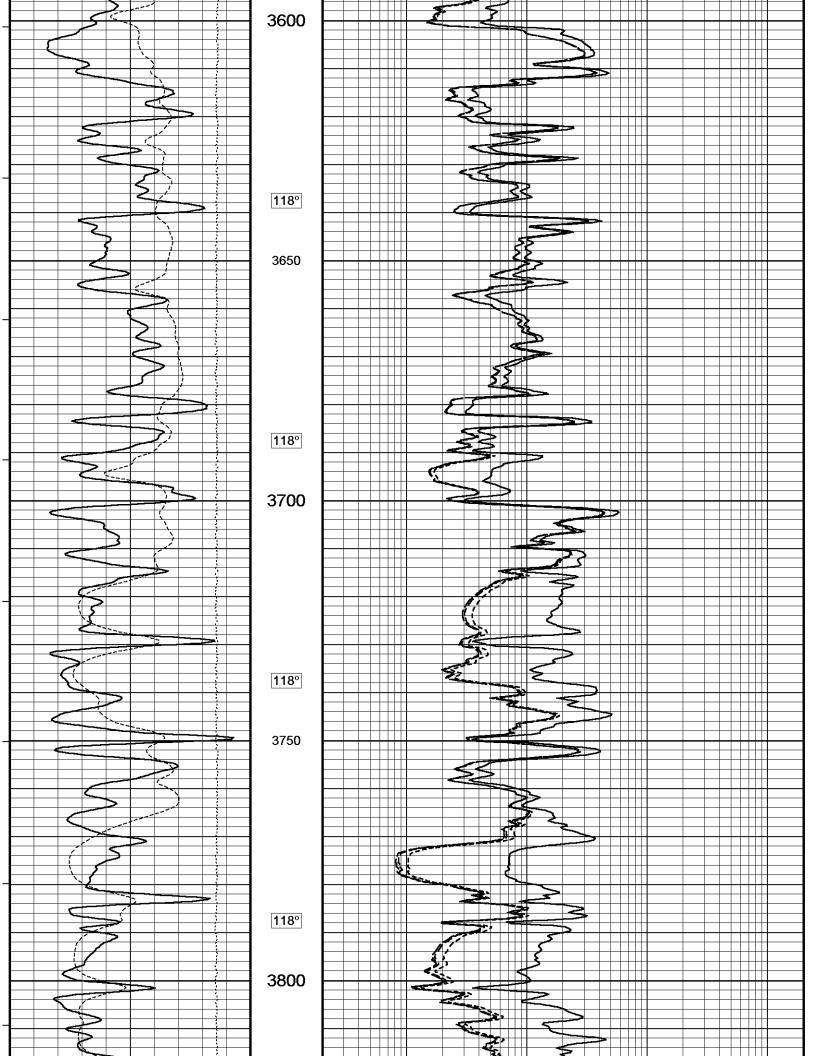


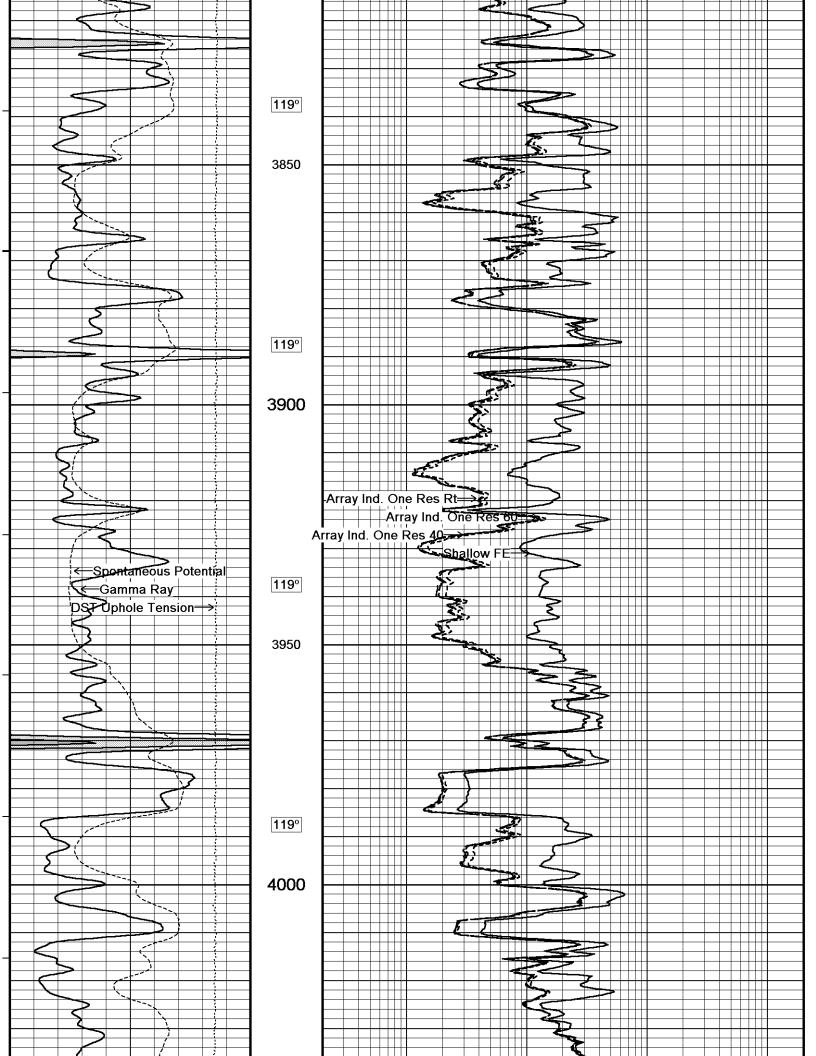


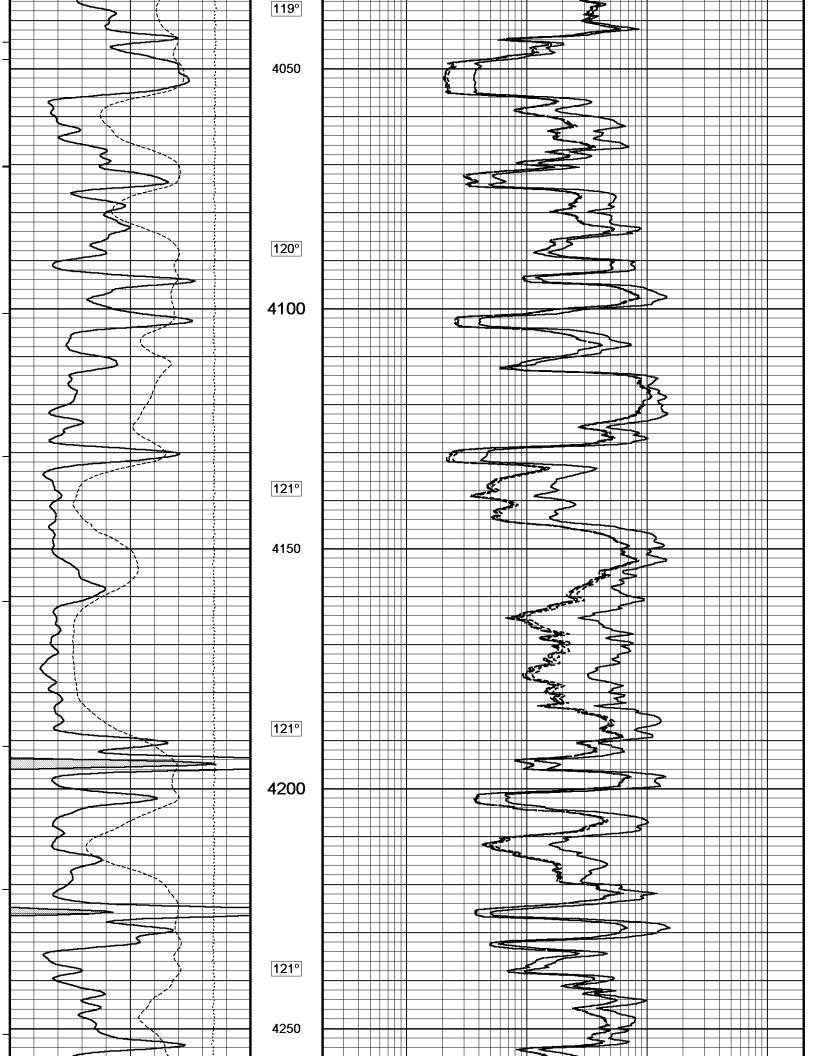


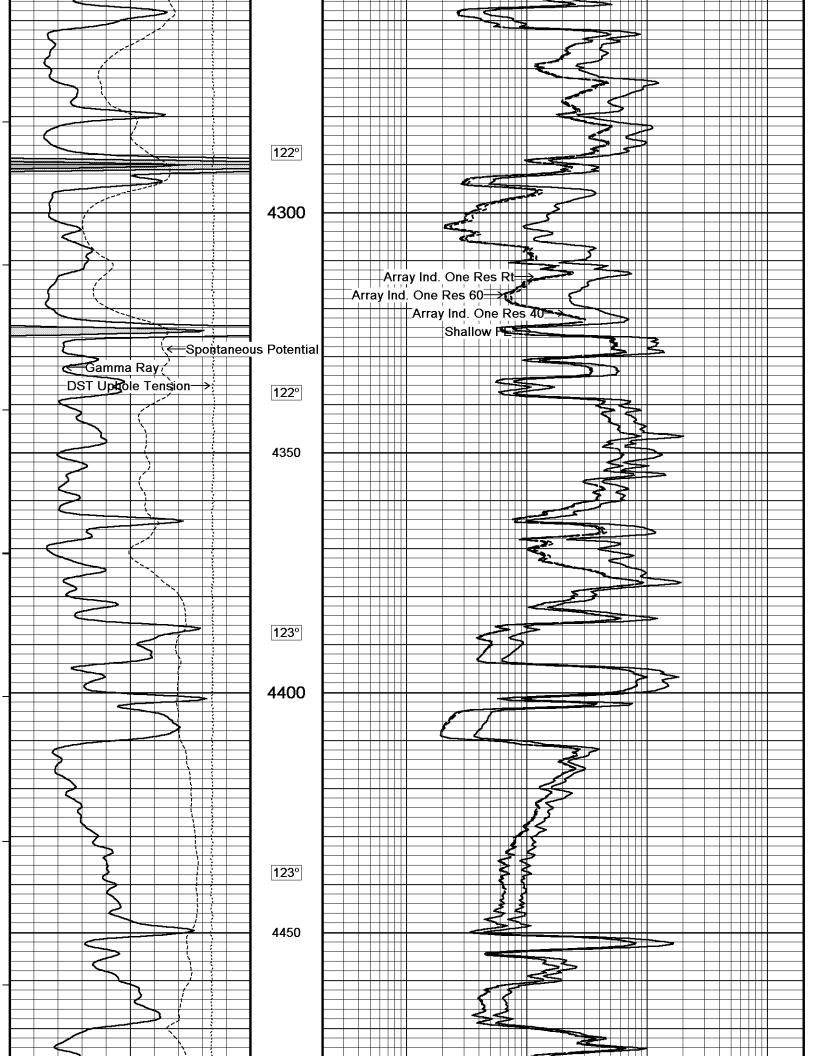


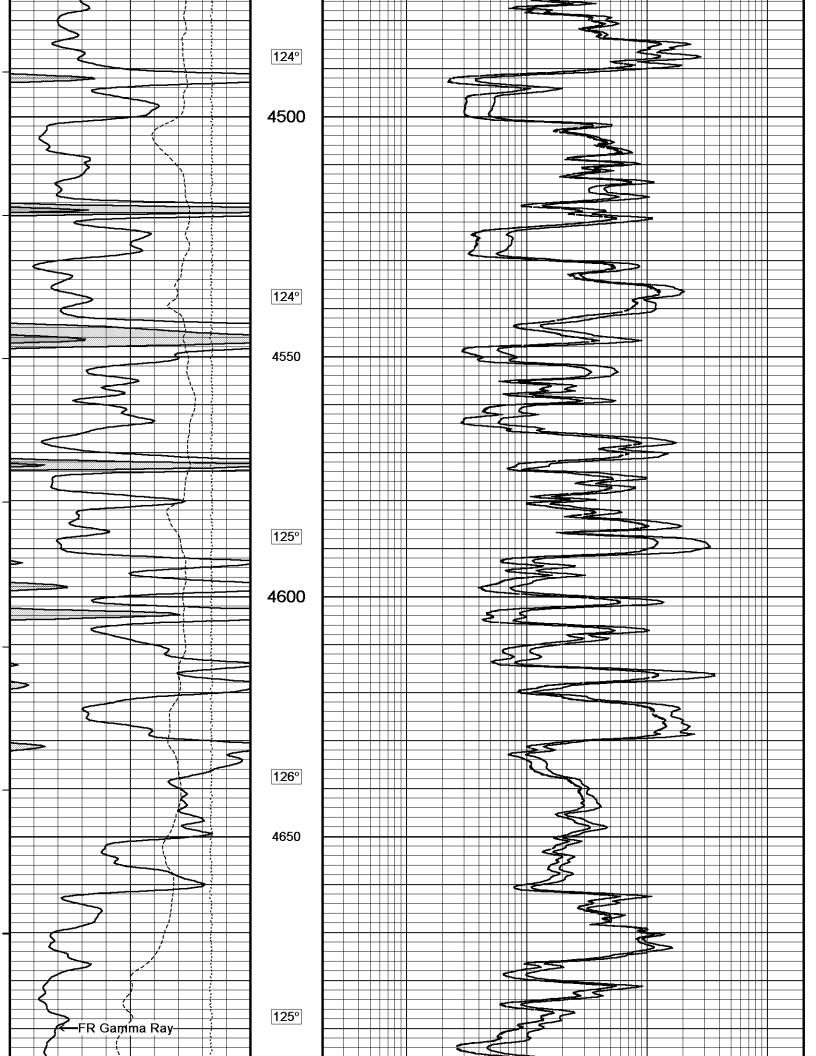


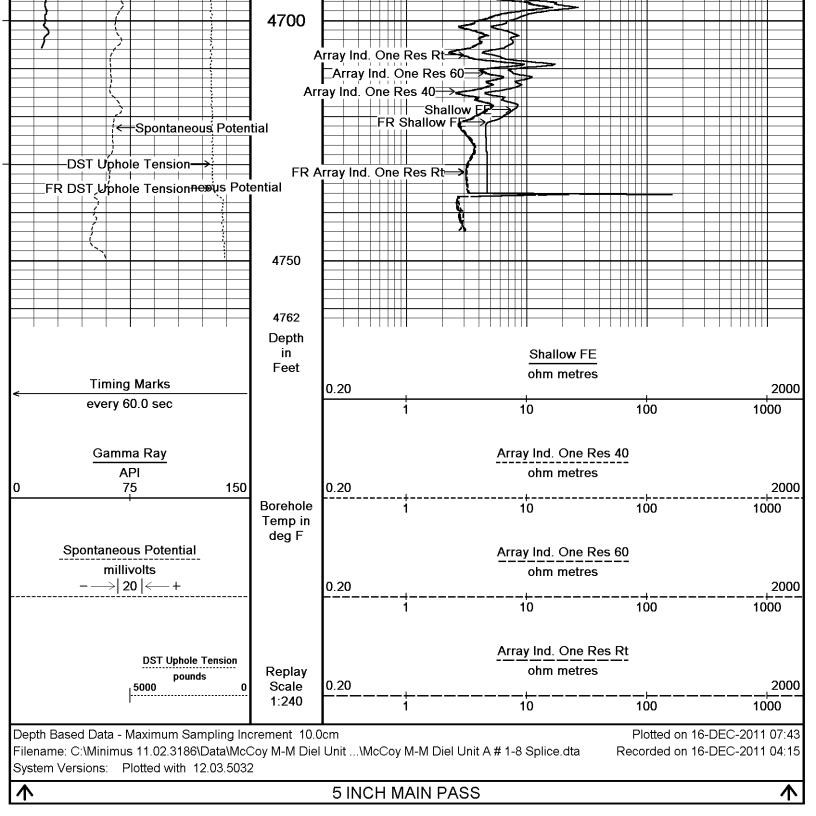


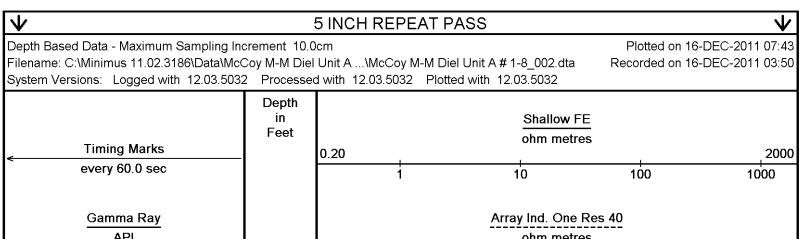


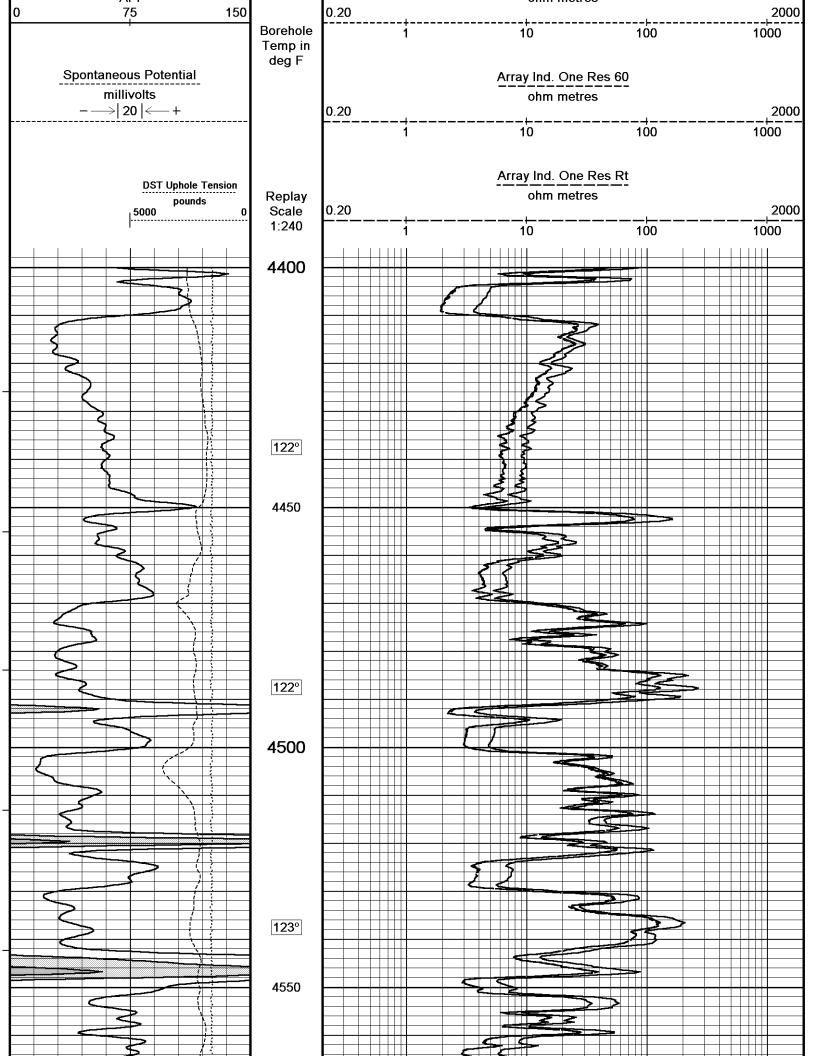


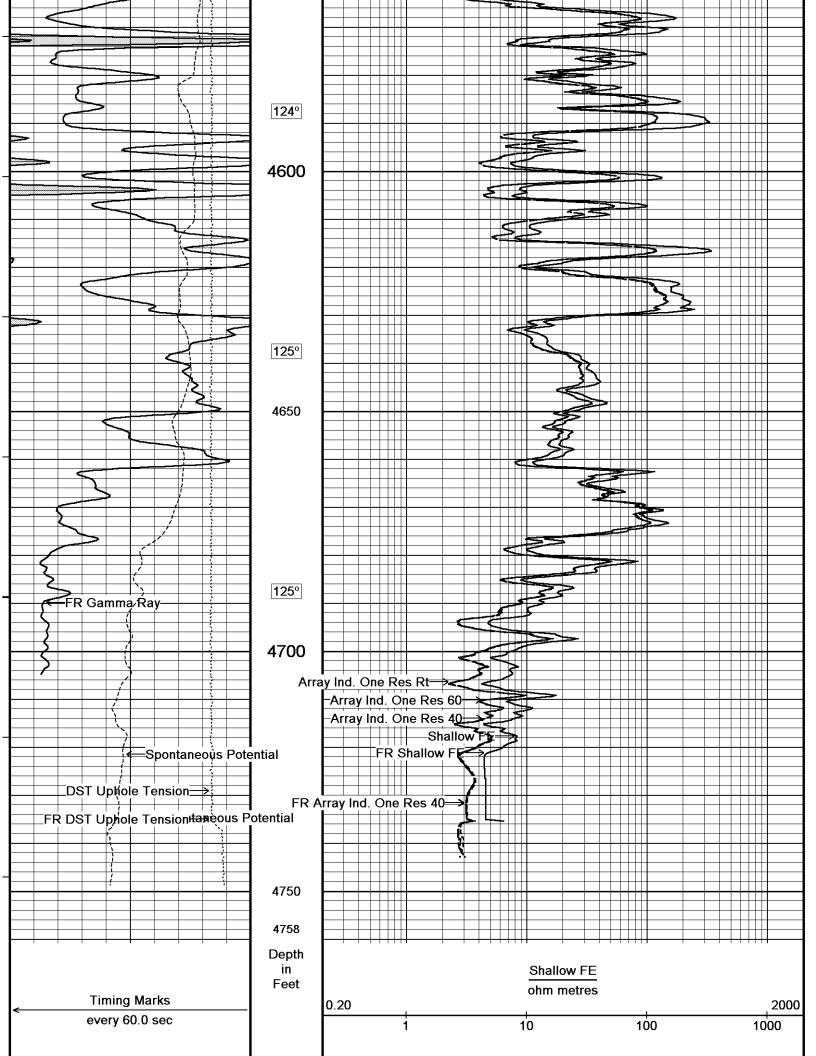


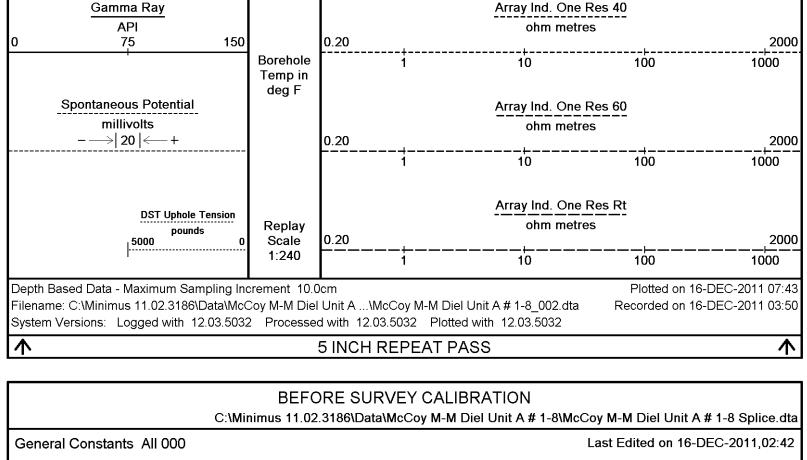












General Parameters			
Mud Resistivity	1.450	ohm-metres	
Mud Resistivity Temperature	67.000	degrees F	
Water Level	0.000	feet	
Density/Neutron Processing	Wet Hole		
Hole/Annular Volume and Differe	ential Caliper Parameters		
HVOL Method	Single Caliper		
HVOL Caliper 1	Density Caliper		
HVOL Caliper 2	N/A		
Annular Volume Diameter	5.500	inches	
Caliper for Differential Caliper	Density Caliper		
Rwa Parameters			
Porosity used	Base Density Porosity		
Resistivity used	Array Ind. Six Res Rt		
· ·			
RWA Constant A	0.610		
RWA Constant A RWA Constant M	0.610 2.150		
RWA Constant M	2.150		
	2.150		Field Calibration on 23-OCT-2011 03:19
RWA Constant M	2.150	Calibrated (lbs)	Field Calibration on 23-OCT-2011 03:19
RWA Constant M Down-hole Tension Calibration S Reading No 1	2.150 SMS 0 Measured 12734.06	0.00	Field Calibration on 23-OCT-2011 03:19
RWA Constant M Down-hole Tension Calibration	2.150 SMS 0 Measured		Field Calibration on 23-OCT-2011 03:19
RWA Constant M Down-hole Tension Calibration S Reading No 1	2.150 SMS 0 Measured 12734.06	0.00	
RWA Constant M Down-hole Tension Calibration S Reading No 1 2	2.150 SMS 0 Measured 12734.06 13523.27	0.00 454.00	Field Calibration on 23-OCT-2011 03:19 Field Calibration on 14-DEC-2011 10:22
RWA Constant M Down-hole Tension Calibration S Reading No 1 2 Gamma Calibration MCG-C 84	2.150 SMS 0 Measured 12734.06 13523.27 Measured	0.00 454.00 Calibrated (API)	
RWA Constant M Down-hole Tension Calibration S Reading No 1 2 Gamma Calibration MCG-C 84 Background	2.150 SMS 0 Measured 12734.06 13523.27 Measured 70	0.00 454.00 Calibrated (API) 46	
RWA Constant M Down-hole Tension Calibration S Reading No 1 2 Gamma Calibration MCG-C 84 Background Calibrator (Gross)	2.150 SMS 0 Measured 12734.06 13523.27 Measured 70 756	0.00 454.00 Calibrated (API) 46 502	
RWA Constant M Down-hole Tension Calibration S Reading No 1 2 Gamma Calibration MCG-C 84 Background	2.150 SMS 0 Measured 12734.06 13523.27 Measured 70	0.00 454.00 Calibrated (API) 46	
RWA Constant M Down-hole Tension Calibration S Reading No 1 2 Gamma Calibration MCG-C 84 Background Calibrator (Gross)	2.150 SMS 0 Measured 12734.06 13523.27 Measured 70 756	0.00 454.00 Calibrated (API) 46 502	Field Calibration on 14-DEC-2011 10:22
RWA Constant M Down-hole Tension Calibration S Reading No 1 2 Gamma Calibration MCG-C 84 Background Calibrator (Gross) Calibrator (Net)	2.150 SMS 0 Measured 12734.06 13523.27 Measured 70 756	0.00 454.00 Calibrated (API) 46 502	Field Calibration on 14-DEC-2011 10:22
RWA Constant M Down-hole Tension Calibration S Reading No 1 2 Gamma Calibration MCG-C 84 Background Calibrator (Gross) Calibrator (Net) Gamma Constants MCG-C 84	2.150 SMS 0 Measured 12734.06 13523.27 Measured 70 756 686	0.00 454.00 Calibrated (API) 46 502	Field Calibration on 14-DEC-2011 10:22
RWA Constant M Down-hole Tension Calibration S Reading No 1 2 Gamma Calibration MCG-C 84 Background Calibrator (Gross) Calibrator (Net) Gamma Constants MCG-C 84 Gamma Calibrator Number Mud Density	2.150 SMS 0 Measured 12734.06 13523.27 Measured 70 756 686 grc141 1.13	0.00 454.00 Calibrated (API) 46 502 456	Field Calibration on 14-DEC-2011 10:22
RWA Constant M Down-hole Tension Calibration S Reading No 1 2 Gamma Calibration MCG-C 84 Background Calibrator (Gross) Calibrator (Net) Gamma Constants MCG-C 84 Gamma Calibrator Number	2.150 SMS 0 Measured 12734.06 13523.27 Measured 70 756 686 grc141	0.00 454.00 Calibrated (API) 46 502 456	

SP Calibration MCG C 84

			Field Calibration on 28-DEC-2010 11:28
	Measured	Calibrated (mV)	
Reference 1 Reference 2	100.3 -99.7	100.0 -100.0	
High Resolution Temperate	ure Calibration MCG-C 8		Field Calibration on 24-JUN-2010,13:02
	Measured	Calibrated(Deg F)	
Lower	50.00	50.00 75.00	
Upper High Resolution Temperati	75.00 ure Constants MCG-C 8-		Last Edited on
Pre-filter Length		11	
Micro Normal and Micro In	verse Calibration MML-A	、 9	Base Calibration on 21-NOV-2011 11:00 Field Check on 28-NOV-2011 19:50
Base Calibration			
Channel	Measured Resistor 1 Resistor 2	Calibrated (ohm-m) Resistor 1 Resistor 2	
Micro Normal	12.1 59.5	2.6 12.8	
Micro Inverse	15.6 77.7	1.7 8.4	
Channel	Base Check (ohm-m)	Field Check (ohm-m)	
Micro Normal	32.5	32.5	
Micro Inverse	16.4	16.4	
Micro Normal and Micro In	verse Constants MML-A	9	Last Edited on 29-NOV-2011,00:10
	in Soft Rubber Inflatable 00		
Micro Normal K Factor Micro Inverse K Factor		0.5110 0.3380	
Standoff Offset		N/A inches	
Caliper Calibration MML-A	19		Base Calibration on 21-NOV-2011 11:11 Field Calibration on 28-NOV-2011 19:54
Base Calibration	Managerad		
Reading No	Measured 15045	Calibrator Size (in) 5.98	
2	18517	7.97	
3	21877	9.86	
4 5	25857 0	11.92 0.00	
6	N/A	0.00 N/A	
Field Calibration	Measured Caliper (in)	Actual Caliper (in)	
	7.96	7.97	
Neutron Calibration MDN-	A.B 39		Base Calibration on 22-NOV-2011 10:41 Field Check on 14-DEC-2011 10:28
Base Calibration			FIELD CHECK UIT 14-DEC-2011 10.20
	Measured	Calibrated (cps)	
	Near Far 2737 86	Near Far 3714 110	
Ratio	31.919	33.764	
Field Calibrator at Base		Calibrated (cps) 2423 3477	
Ratio		0.697	
Field Check		Calibrated (cps) 2406 3408	
Ratio		0.706	
Neutron Constants MDN-A	ጓ.В 39		Last Edited on 16-DEC-2011,02:55
Neutron Source Id		11095	
Neutron Jig Number	NEC	D117 No	
Epithermal Neutron Caliper Source for Proces	sing Density Ca		
Stand-off	, ···	0.00 inches	
Mud Density		1.00 gm/cc	

Limestone Sigma		7.10	cu		
Sandstone Sigma		4.26			
Dolomite Sigma		4.70	cu		
Formation Pressure Source		None			
Formation Pressure		N/A	kpsi		
Temperature Source		Constant Value			
				-	
Temperature		68.00	0	F	
Mud Salinity		0.00	kppm		
Salinity Correction		Not Applied			
Formation Fluid Salinity Sour	~~	Constant Value			
	ue -				
Formation Fluid Salinity		0.00			
Barite Mud Correction		Not Applied			
FE Calibration MFE-A.A 67					Base Calibration on 21-NOV-2011 10:35
					Field Check on 14-DEC-2011 10:40
Base Calibration					
Babb Sullbration		Measured	Calibrated (ab	m m)	
			Calibrated (oh	-	
Reference 1		0.0		0.0	
Reference 2		959.4		126.8	
Base Check				281.1	
Dase Check				201.1	
Field Check				281.0	
					· · · · · · · · · · · · · · · · · · ·
FE Constants MFE-A.A 67					Last Edited on 16-DEC-2011,02:55
Running Mode		No Sleeve			
-					
MFE K Factor	-	0.1268			
Caliper Source for FE correct		Density Caliper			
Caliper Value for FE correction	on	N/A	inches		
Rm Source for FE correction		Temperature Corr			
Temp. for Rm Corr.	MCG Exte	rnal Temperature			
Stand-off		0.5	inches		
Induction Calibration MAI-A.A	. 188				Base Calibration on 14-JUN-2006 13:48
					Field Check on 14-DEC-2011 10:42
Base Calibration					
Test Loop Calibration		Measured	Calibrated	(mmho/m)	
	1				
Channel	Low	High	Low	High	
1	16.5	472.3	9.3	966.2	
2	6.0	378.3	7.6	821.4	
3	3.5	260.7	5.2	566.0	
4	1.1	135.1	2.6	279.2	
Arrow Tomporature		82.2	Dog F		
Array Temperature		02.2	Deg F		
1					
Channel B	ase Check	(mmho/m)	Field Check	(mmho/m)	
	Low	High	Low	High	
1 4	0.0	-	13.9	3846.8	
1		0.0			
2	0.0	0.0	30.5	3568.4	
3	0.0	0.0	28.2	3039.7	
4	0.0	0.0	20.8	2038.0	
1	5.5				
Deep	0.0	0.0	17.9	1922.9	
Medium	0.0	0.0	39.9	4053.9	
Shallow	0.0	0.0	44.8	5360.2	
Array Temperature	3	0.0		65.6	Deg F
Anay reinperature	;	0.0		00.0	Dey I
Induction Constants MAI-A.A	188				Last Edited on 16-DEC-2011,02:59
Induction Constants MAI-A.A	100				Lasi Luiteu UII 10-DEC-2011,02.09
		.			
Induction Model		RtAP-WBM			
		Density Caliner			
Caliper for Borehole Corr.	stion	Density Caliper			
Caliper for Borehole Corr. Hole Size for Borehole Corre	ction	Ň/A	inches		
Caliper for Borehole Corr. Hole Size for Borehole Correct Tool Centred	ction	N/A No	inches		
Caliper for Borehole Corr. Hole Size for Borehole Corre	ction	Ň/A	inches		
Caliper for Borehole Corr. Hole Size for Borehole Correc Tool Centred Stand-off Type	ction	N/A No Fins	inches		
Caliper for Borehole Corr. Hole Size for Borehole Correc Tool Centred Stand-off Type Stand-off	ction	N/A No Fins 0.50	inches		
Caliper for Borehole Corr. Hole Size for Borehole Correc Tool Centred Stand-off Type Stand-off Number of Fins on Stand-off	ction	N/A No Fins 0.50 8.0000	inches		
Caliper for Borehole Corr. Hole Size for Borehole Correct Tool Centred Stand-off Type Stand-off Number of Fins on Stand-off Stand-off Fin Angle	ction	N/A No Fins 0.50 8.0000 45.00	inches inches degrees		
Caliper for Borehole Corr. Hole Size for Borehole Correc Tool Centred Stand-off Type Stand-off Number of Fins on Stand-off	ction	N/A No Fins 0.50 8.0000	inches inches degrees		

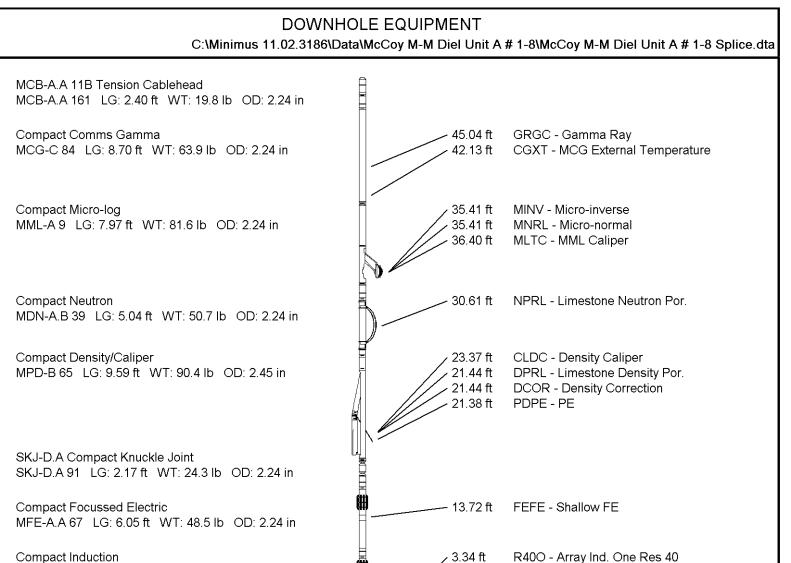
45.00 0.5000 Temperature Corr MCG External Temperature 0.0020

Borehole Corr. Rm Source Temp. for Rm Corr. Squasher Start

mhos/metre

Squasher Offset			N	I/A	mhos/metre		
Borehole Normalisation						0.0000	
DRM1		0.0000	DRC			0.0000	
DRM2		0.0000	DRC			0.0000	
MRM1		0.0000	MRC	21		0.0000	
MRM2		0.0000	MRC	22		0.0000	
SRM1		0.0000	SRC	:1		0.0000	
SRM2		0.0000	SRC			0.0000	
011112		0.0000	United and a second sec	-		0.0000	
Calibration Site Correc	tions						
Channel 1			0.	00	mmhos/metre		
Channel 2			0.	00	mmhos/metre		
Channel 3			0.	00	mmhos/metre		
Channel 4				00	mmhos/metre		
			0.				
Apparent Porosity and	Water Sa	aturation C	Constants				
Archie Constant (A)				00			
Cementation Exponent	(M)			00			
Saturation Exponent (N				00			
Saturation of Water for			100.		percent		
	•	d Que			•		
Resistivity of Water for				05	ohm-m		
Resistivity of Mud Filtra	ate for Sv	v		00	ohm-m		
Source for Rt				00			
Source for Rxo	<u></u>		0.	00			
High Resolution Temper	rature Ca	alibration	MAI-A.A 188	3			
						Field Calib	pration on 14-JUN-2006,13:48
		r	Measured	Cali	brated(Deg F)		
Lower			1.00		33.80		
Upper			11.00		51.80		
High Resolution Temper	rature Co	onstants	MAI-A.A 188				Last Edited on
Pre-filter Length				11			
Caliper Calibration MP	D-B 65						ration on 21-NOV-2011 14:58 ration on 14-DEC-2011 10:36
Caliper Calibration MPE Base Calibration	D-B 65						
	D-B 65	,	Measured	Calib	rator Size (in)		
Base Calibration Reading No	D-B 65	ŗ		Calib			
Base Calibration Reading No 1	D-B 65	ŗ	Measured 13999 22481	Calib	rator Size (in) 3.99 5.98		
Base Calibration Reading No 1 2	D-B 65	r	13999 22481	Calib	3.99 5.98		
Base Calibration Reading No 1 2 3	D-B 65	,	13999 22481 30982	Calib	3.99 5.98 7.97		
Base Calibration Reading No 1 2 3 4	D-B 65	ŗ	13999 22481 30982 39297	Calib	3.99 5.98 7.97 9.86		
Base Calibration Reading No 1 2 3 4 5	D-B 65	ŗ	13999 22481 30982 39297 48432	Calib	3.99 5.98 7.97 9.86 11.92		
Base Calibration Reading No 1 2 3 4	D-B 65	ŗ	13999 22481 30982 39297	Calib	3.99 5.98 7.97 9.86		
Base Calibration Reading No 1 2 3 4 5 6	D-B 65	r	13999 22481 30982 39297 48432	Calib	3.99 5.98 7.97 9.86 11.92		
Base Calibration Reading No 1 2 3 4 5		asured Ca	13999 22481 30982 39297 48432 N/A		3.99 5.98 7.97 9.86 11.92		
Base Calibration Reading No 1 2 3 4 5 6			13999 22481 30982 39297 48432 N/A		3.99 5.98 7.97 9.86 11.92 N/A		
Base Calibration Reading No 1 2 3 4 5 6 Field Calibration	Ме	easured Ca	13999 22481 30982 39297 48432 N/A aliper (in)		3.99 5.98 7.97 9.86 11.92 N/A al Caliper (in)	Field Calib	ration on 14-DEC-2011 10:36
Base Calibration Reading No 1 2 3 4 5 6	Ме	easured Ca	13999 22481 30982 39297 48432 N/A aliper (in)		3.99 5.98 7.97 9.86 11.92 N/A al Caliper (in)	Field Calib	ration on 14-DEC-2011 10:36
Base Calibration Reading No 1 2 3 4 5 6 Field Calibration Photo Density Calibratio	Ме	easured Ca	13999 22481 30982 39297 48432 N/A aliper (in)		3.99 5.98 7.97 9.86 11.92 N/A al Caliper (in)	Field Calib	ration on 14-DEC-2011 10:36
Base Calibration Reading No 1 2 3 4 5 6 Field Calibration Photo Density Calibratio Density Calibration	Ме	easured Ca ⊡. B 65	13999 22481 30982 39297 48432 N/A aliper (in) 6.04	Actu	3.99 5.98 7.97 9.86 11.92 N/A al Caliper (in) 5.98	Field Calib	ration on 14-DEC-2011 10:36
Base Calibration Reading No 1 2 3 4 5 6 Field Calibration Photo Density Calibratio	Ме	easured Ca ⊡B 65	13999 22481 30982 39297 48432 N/A aliper (in) 6.04	Actu	3.99 5.98 7.97 9.86 11.92 N/A al Caliper (in) 5.98	Field Calib	ration on 14-DEC-2011 10:36
Base Calibration Reading No 1 2 3 4 5 6 Field Calibration Photo Density Calibration Density Calibration Base Calibration	Ме	asured Ca B 65 Near	13999 22481 30982 39297 48432 N/A aliper (in) 6.04 Measured Far	Actu Ca Nea	3.99 5.98 7.97 9.86 11.92 N/A al Caliper (in) 5.98	Field Calib	ration on 14-DEC-2011 10:36
Base Calibration Reading No 1 2 3 4 5 6 Field Calibration Photo Density Calibration Density Calibration Base Calibration Reference 1	Ме	asured Ca ⋅B 65 Near 60841	13999 22481 30982 39297 48432 N/A aliper (in) 6.04 Measured Far 28249	Actu Ca Nea 59556	3.99 5.98 7.97 9.86 11.92 N/A al Caliper (in) 5.98	Field Calib	ration on 14-DEC-2011 10:36
Base Calibration Reading No 1 2 3 4 5 6 Field Calibration Photo Density Calibration Density Calibration Base Calibration	Ме	asured Ca B 65 Near	13999 22481 30982 39297 48432 N/A aliper (in) 6.04 Measured Far	Actu Ca Nea	3.99 5.98 7.97 9.86 11.92 N/A al Caliper (in) 5.98	Field Calib	ration on 14-DEC-2011 10:36
Base Calibration Reading No 1 2 3 4 5 6 Field Calibration Photo Density Calibration Density Calibration Base Calibration Reference 1 Reference 2	Me on MPD-	asured Ca ⋅B 65 Near 60841	13999 22481 30982 39297 48432 N/A aliper (in) 6.04 Measured Far 28249	Actu Ca Nea 59556	3.99 5.98 7.97 9.86 11.92 N/A al Caliper (in) 5.98	Field Calib	ration on 14-DEC-2011 10:36
Base Calibration Reading No 1 2 3 4 5 6 Field Calibration Photo Density Calibration Density Calibration Base Calibration Reference 1	Me on MPD-	easured Ca B 65 Near 60841 24364	13999 22481 30982 39297 48432 N/A aliper (in) 6.04 Measured Far 28249 2437	Actu Ca Nea 59556	3.99 5.98 7.97 9.86 11.92 N/A al Caliper (in) 5.98	Field Calib	ration on 14-DEC-2011 10:36
Base Calibration Reading No 1 2 3 4 5 6 Field Calibration Photo Density Calibration Density Calibration Base Calibration Reference 1 Reference 2	Me on MPD-	asured Ca ⋅B 65 Near 60841	13999 22481 30982 39297 48432 N/A aliper (in) 6.04 Measured Far 28249	Actu Ca Nea 59556	3.99 5.98 7.97 9.86 11.92 N/A al Caliper (in) 5.98	Field Calib	ration on 14-DEC-2011 10:36
Base Calibration Reading No 1 2 3 4 5 6 Field Calibration Photo Density Calibration Density Calibration Base Calibration Base Calibration Reference 1 Reference 2 Field Check at Base	Me on MPD-	easured Ca B 65 Near 60841 24364	13999 22481 30982 39297 48432 N/A aliper (in) 6.04 Measured Far 28249 2437	Actu Ca Nea 59556	3.99 5.98 7.97 9.86 11.92 N/A al Caliper (in) 5.98	Field Calib	ration on 14-DEC-2011 10:36
Base Calibration Reading No 1 2 3 4 5 6 Field Calibration Photo Density Calibration Density Calibration Base Calibration Reference 1 Reference 2	Me on MPD-	easured Ca B 65 Near 60841 24364 1234.7	13999 22481 30982 39297 48432 N/A aliper (in) 6.04 Measured Far 28249 2437 1185.8	Actu Ca Nea 59556	3.99 5.98 7.97 9.86 11.92 N/A al Caliper (in) 5.98	Field Calib	ration on 14-DEC-2011 10:36
Base Calibration Reading No 1 2 3 4 5 6 Field Calibration Photo Density Calibration Density Calibration Base Calibration Base Calibration Reference 1 Reference 2 Field Check at Base	Me on MPD-	easured Ca B 65 Near 60841 24364	13999 22481 30982 39297 48432 N/A aliper (in) 6.04 Measured Far 28249 2437	Actu Ca Nea 59556	3.99 5.98 7.97 9.86 11.92 N/A al Caliper (in) 5.98	Field Calib	ration on 14-DEC-2011 10:36
Base Calibration Reading No 1 2 3 4 5 6 Field Calibration Photo Density Calibration Density Calibration Base Calibration Base Calibration Reference 1 Reference 2 Field Check at Base Field Check	Me on MPD-	easured Ca B 65 Near 60841 24364 1234.7	13999 22481 30982 39297 48432 N/A aliper (in) 6.04 Measured Far 28249 2437 1185.8	Actu Ca Nea 59556	3.99 5.98 7.97 9.86 11.92 N/A al Caliper (in) 5.98	Field Calib	ration on 14-DEC-2011 10:36
Base Calibration Reading No 1 2 3 4 5 6 Field Calibration Photo Density Calibration Density Calibration Base Calibration Base Calibration Reference 1 Reference 2 Field Check at Base Field Check	Me on MPD-	easured Ca •B 65 Near 60841 24364 1234.7 1233.5	13999 22481 30982 39297 48432 N/A aliper (in) 6.04 Measured Far 28249 2437 1185.8 1185.8	Actu Ca Nea 59556	3.99 5.98 7.97 9.86 11.92 N/A al Caliper (in) 5.98	Field Calib	ration on 14-DEC-2011 10:36
Base Calibration Reading No 1 2 3 4 5 6 Field Calibration Photo Density Calibration Density Calibration Base Calibration Base Calibration Reference 1 Reference 2 Field Check at Base Field Check	Me on MPD-	easured Ca B 65 Near 60841 24364 1234.7 1233.5 Mea	13999 22481 30982 39297 48432 N/A aliper (in) 6.04 Measured Far 28249 2437 1185.8 1185.8 1181.3 asured	Actu Ca Nea 59556 2494	3.99 5.98 7.97 9.86 11.92 N/A al Caliper (in) 5.98 alibrated (sdu) r Far 5 30836 2541 Calibrated	Field Calib	ration on 14-DEC-2011 10:36
Base Calibration Reading No 1 2 3 4 5 6 Field Calibration Photo Density Calibration Density Calibration Base Calibration Reference 1 Reference 2 Field Check at Base Field Check at Base Field Check	Me on MPD-	easured Ca B 65 Near 60841 24364 1234.7 1233.5 Mea Wi	13999 22481 30982 39297 48432 N/A aliper (in) 6.04 Measured Far 28249 2437 1185.8 1181.3 asured H Ratio	Actu Ca Nea 59556 2494	3.99 5.98 7.97 9.86 11.92 N/A al Caliper (in) 5.98	Field Calib	ration on 14-DEC-2011 10:36
Base Calibration Reading No 1 2 3 4 5 6 Field Calibration Photo Density Calibration Density Calibration Base Calibration Base Calibration Reference 1 Reference 2 Field Check at Base Field Check at Base Field Check PE Calibration Base Calibration Base Calibration Base Calibration	Me on MPD-	easured Ca B 65 Near 60841 24364 1234.7 1233.5 Mea Wi 109	13999 22481 30982 39297 48432 N/A aliper (in) 6.04 Measured Far 28249 2437 1185.8 1185.8 1181.3 asured H Ratio 8	Actu Ca Nea 59556 2494	3.99 5.98 7.97 9.86 11.92 N/A al Caliper (in) 5.98 alibrated (sdu) r Far 3 30836 2541 Calibrated Ratio	Field Calib	ration on 14-DEC-2011 10:36
Base Calibration Reading No 1 2 3 4 5 6 Field Calibration Photo Density Calibration Density Calibration Base Calibration Reference 1 Reference 2 Field Check at Base Field Check at Base Field Check	Me on MPD-	easured Ca B 65 Near 60841 24364 1234.7 1233.5 Mea Wi	13999 22481 30982 39297 48432 N/A aliper (in) 6.04 Measured Far 28249 2437 1185.8 1181.3 asured H Ratio 8 4 0.382	Actu Ca Nea 59556 2494	3.99 5.98 7.97 9.86 11.92 N/A al Caliper (in) 5.98 alibrated (sdu) r Far 5 30836 2541 Calibrated	Field Calib	ration on 14-DEC-2011 10:36

Field Check at Base			
223.4	1098.4		
Field Check			
223.3	1095.5		
Density Constants MPD-B 65			Last Edited on 16-DEC-2011,02:55
Density Source Id	P57072B		
Nylon Calibrator Number	DNCE695		
Aluminium Calibrator Number	DACD698		
Density Shoe Profile	8 inch		
Caliper Source for Processing	Density Caliper		
PE Correction to Density	Not Applied		
Mud Density	1.13	gm/cc	
Mud Density Z/A Multiplier	1.11		
Mud Filtrate Density	1.00	gm/cc	
Dry Hole Mud Filtrate Density	1.00	gm/cc	
DNCT	0.00	gm/cc	
CRCT	0.00	gm/cc	
Density Z/A Correction	Hybrid		
Matrix Density (gm/cc)	Depth (ft)		
2.71	0.00		
0.00	0.00		
0.00	0.00		
0.00	0.00		
0.00	0.00		
0.00	0.00		
0.00	0.00		
0.00	5.00		



3.34 ft

RTAO - Array Ind. One Res Rt

Compact Induction MAI-A.A 188 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in



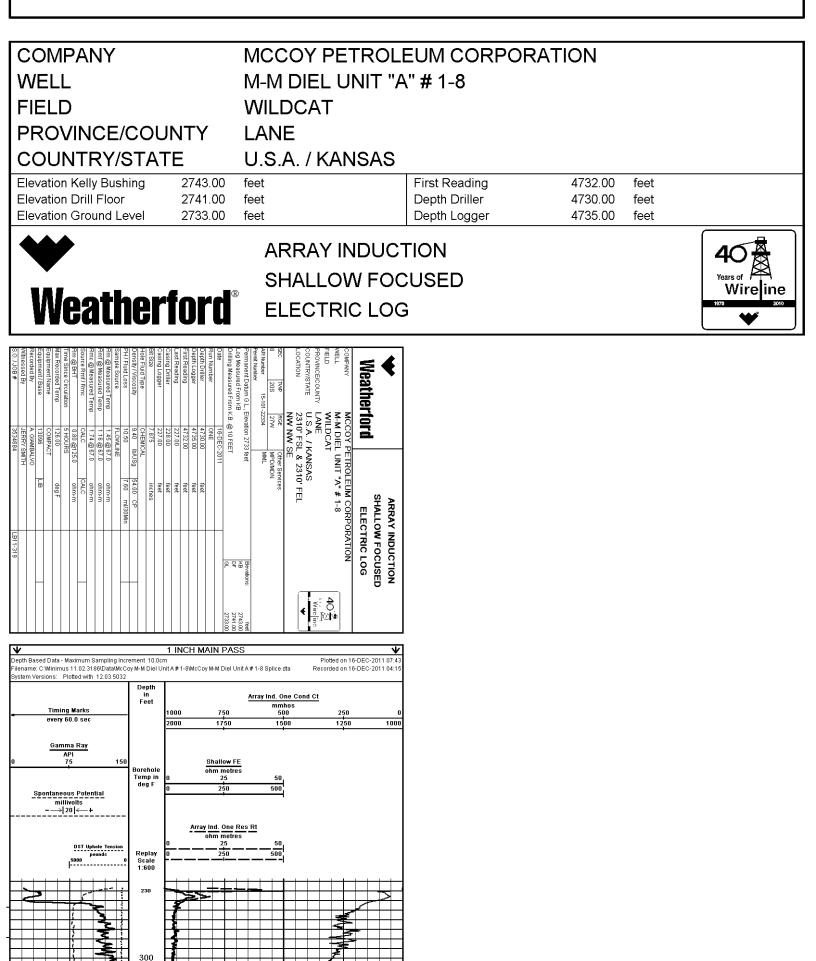
 3.34 ft
 R600 - Array Ind. One Res 60

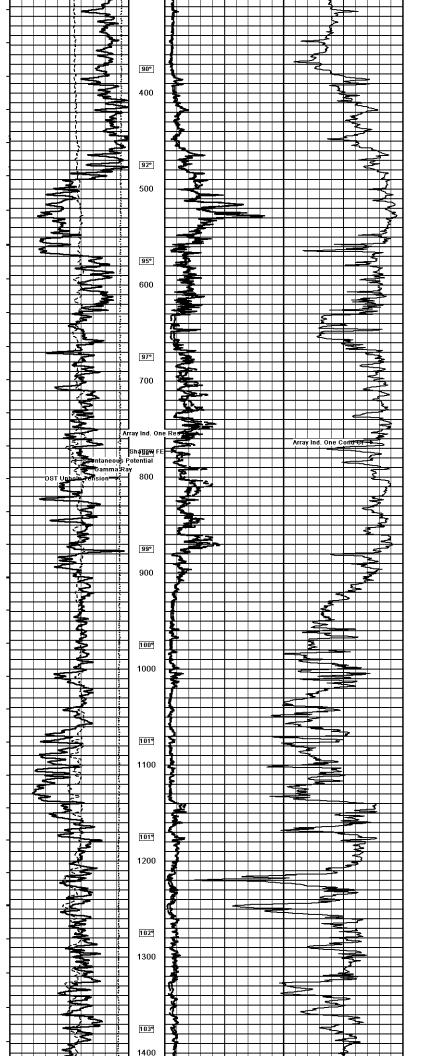
 0.23 ft
 SPCG - Spontaneous Potential

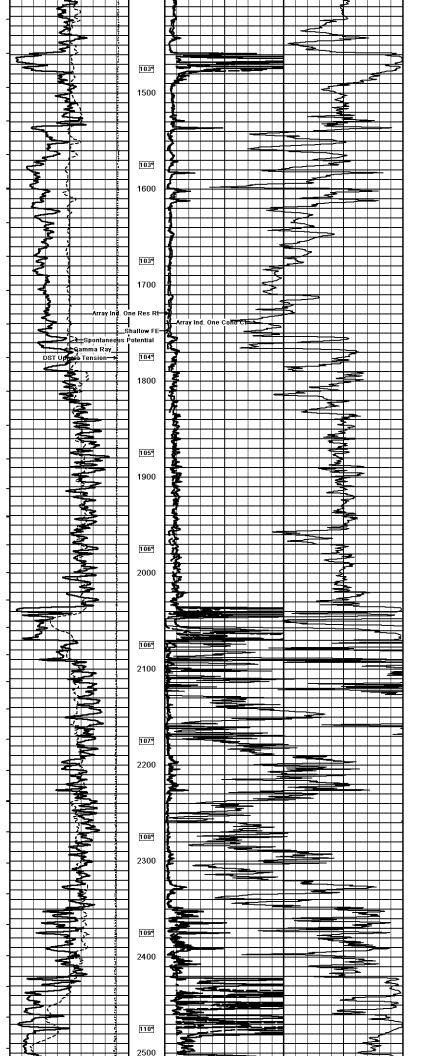
 Tool Zero
 (0.13ft from bottom)

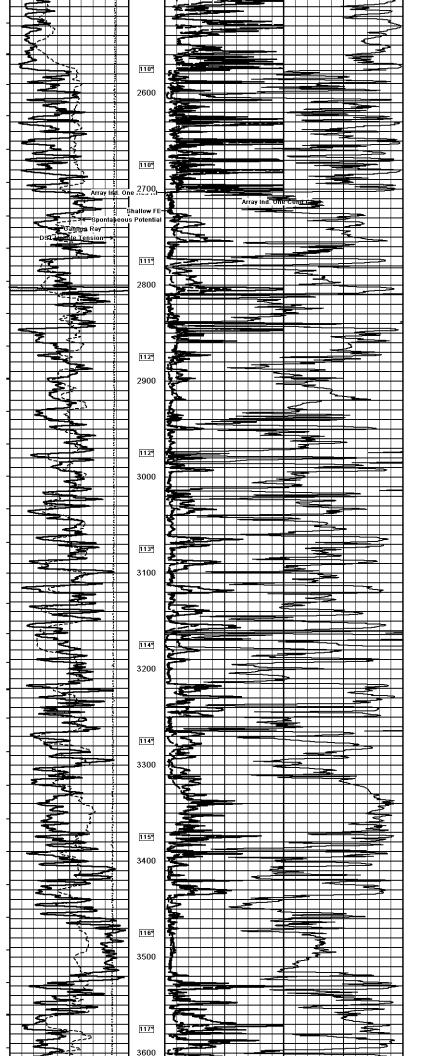
 -0.13 ft
 SWL0 - DEL Ophole Lension

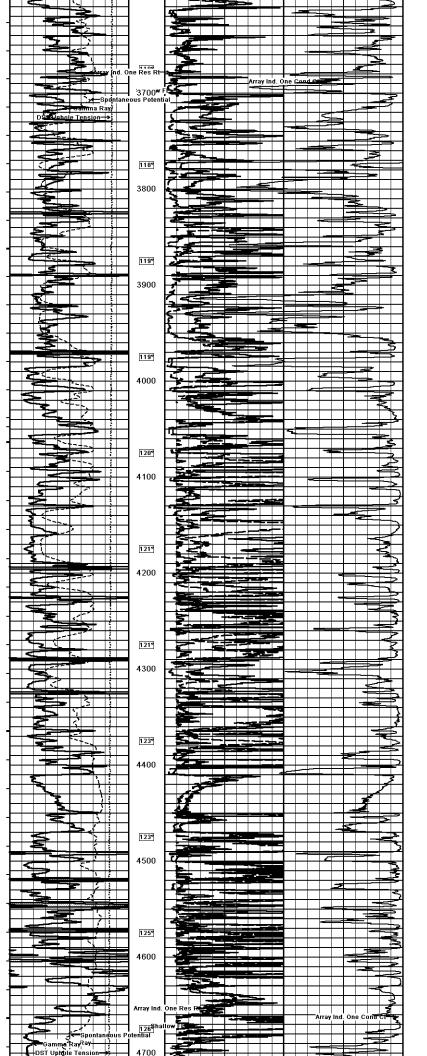
 All measurements relative to tool zero.
 All measurements relative to tool zero.

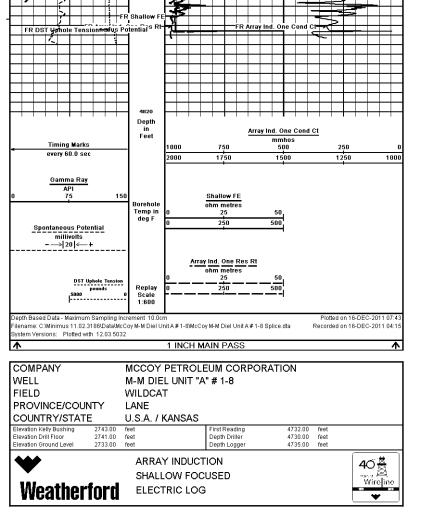












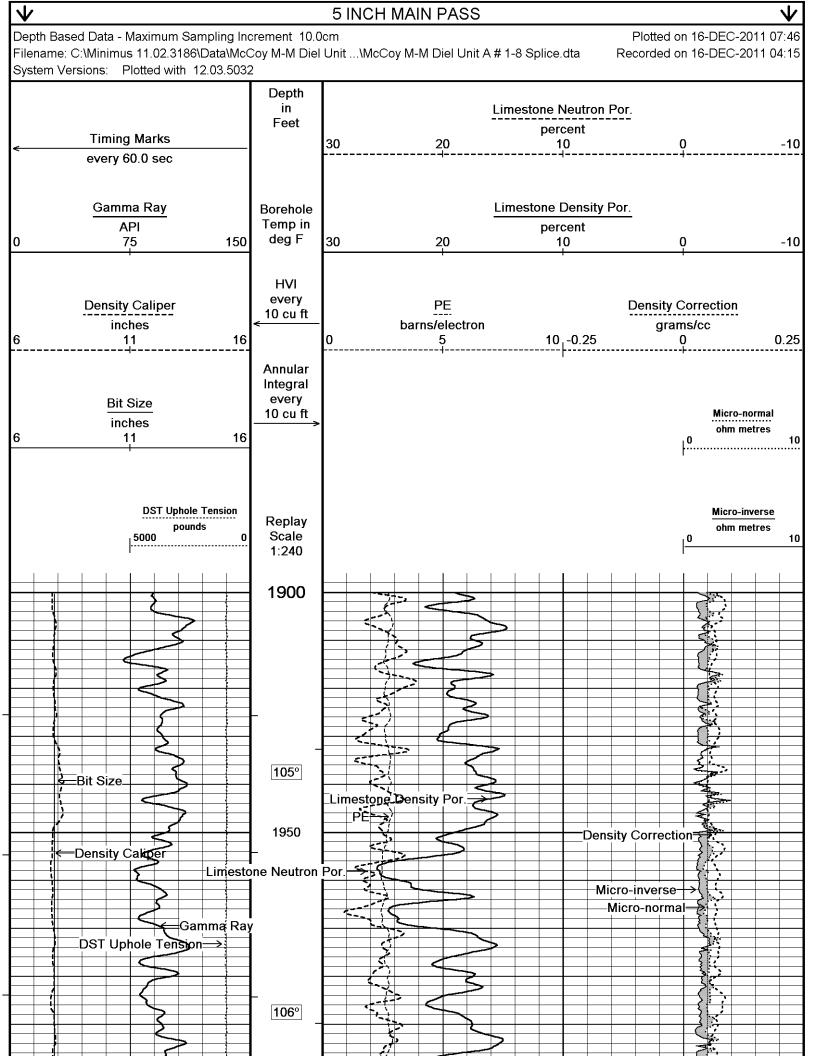
¢			COMPACT I	COMPACT PHOTO DENSITY	≺
	(ĵ		COMPENS,	COMPENSATED NEUTRON	2
Weathertord	ord		MICRORE	MICRORESISTIVITY LOG	
COMPANY N	NCCOY P	ETRO	MCCOY PETROLEUM CORPORATION	DRATION	
MELL N	M-M DIEL	UNIT .	- UNIT "A" # 1-8	_	
	WILDCAT				6 ≫
NCE/COUNTY	LANE				Wireline
COUNTRY/STATE L	U.S.A. / KANSAS	ANSAS		Ţ	970 970
	2310' FSL & 2310' FEL	& 231	O' FEL	ſ	
7	NW NW SE	Π			
EC TWP		Other Services	rvices		
8 20S	27W	MAI/MFE			
API Number 15-101-22334 Permit Number	2334				
Permanent Datum G.L., Elevation 2733 feet	Elevation 273	3 feet		Elevations:	feet
Log Measured From KB				766	2743.00
Drilling Measured From K.B. @ 10 FEET	(.B. @ 10 FE	ΕŢ		<u>ה</u> ר	2733.00
Date	16-DEC-2011	2011			
Run Number	ONE				
Depth Driller	4730.00		feet		
Depth Logger	4735.00		feet		
First Reading	4712.00		feet		
Last Reading	1900.00		feet		
Casing Driller	228.00		feet		
Casing Logger	227.00		feet		
Bit Size	7.875		inches		
Hole Fluid Type	CHEMICAL	AL			
Density / Viscosity	9.40 lb	lb/USg	54.00 CP		
PH / Fluid Loss	10.50		7.60 ml/30Min		
Sample Source	FLOWLINE	ΔE			
Rm @ Measured Temp	1.45 @ 67.0	37.0	ohm-m		
Rmf @ Measured Temp	1.16 @ 67.0	37.0	ohm-m		
Rmc @ Measured Temp	1.74 @ 67.0	37.0	ohm-m		
Source Rmf / Rmc	CALC		CALC		
Rm @ BHT	0.80 @125.0	25.0	ohm-m		
Time Since Circulation	5 HOURS	S			
Max Recorded Temp	126.00		deg F		
Equipment Name	COMPACT	Ϋ́			
Equipment / Base	13096		LIB		
Recorded By	A. GIAMBALVO	BALVO			
Witnessed By	JERRY SMITH	SMITH			
S.O. / JOB #	3534684			LB11-319	

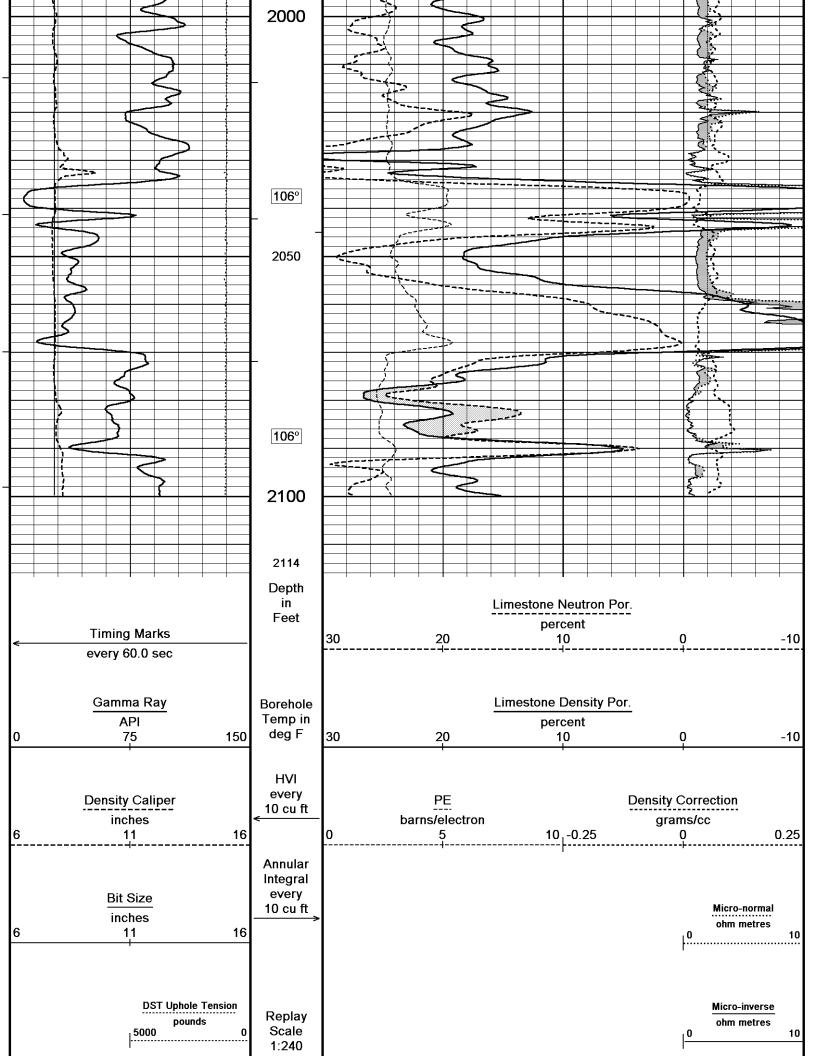
	BOREHOLE RECORD Last Edit					
	Bit Size	Depth From		Depth To		
	inches	feet feet				
	7.875	227.00 4735.00				
	CASING RECORD					
Туре	Size	Depth From	Shoe Depth	Weight		
	inches	feet	feet	pounds/ft		
SURFACE	8.625	10.00	227.00	24.00		

REMARKS

Tools Used: MPD, MCG, MDN, MFE, MAI, MML. Hardware: MPD: 8 inch profile plate used. MAI, MSS and MFE: 0.5 Inch standoffs used. MDN: Dual Bowspring used. 2.71 G/CC Limestone density matrix used to calculate porosity. Borehole rugosity, tight pulls, and washouts will affect data quality. All intervals logged and scaled per customer's request. Annular volume with 5.5 inch production casing from TD to 3800 ft = 158 cu. ft Service Order #3534684 Rig: Val # 7 Engineer: A. Giambalvo Operator(s): K. Rinehart

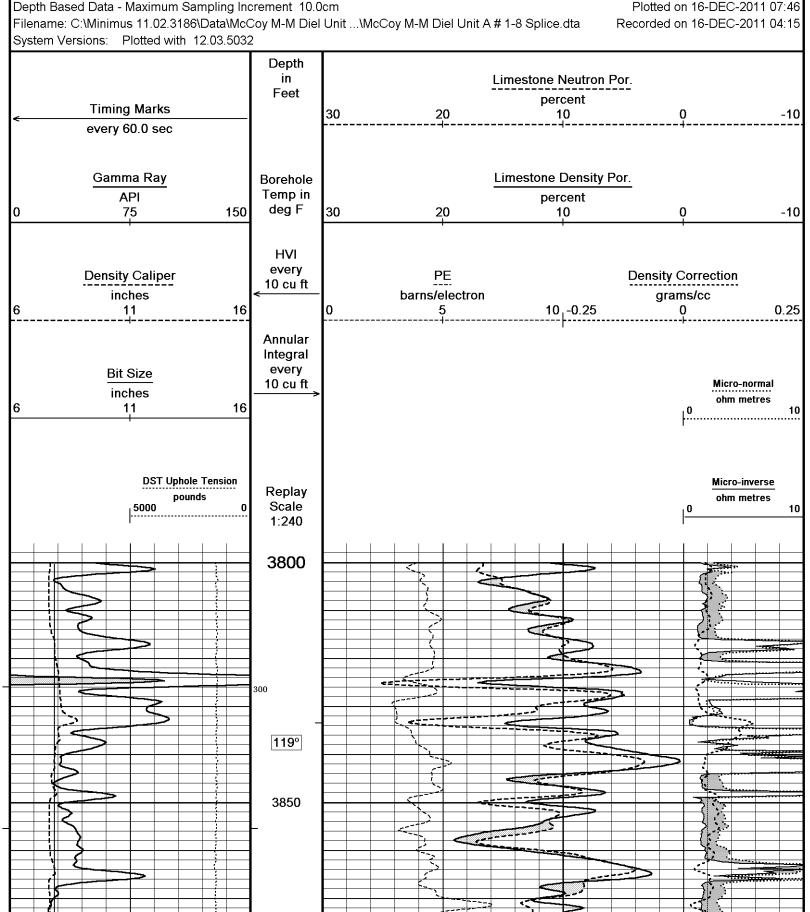
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, 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 in our price schedule.

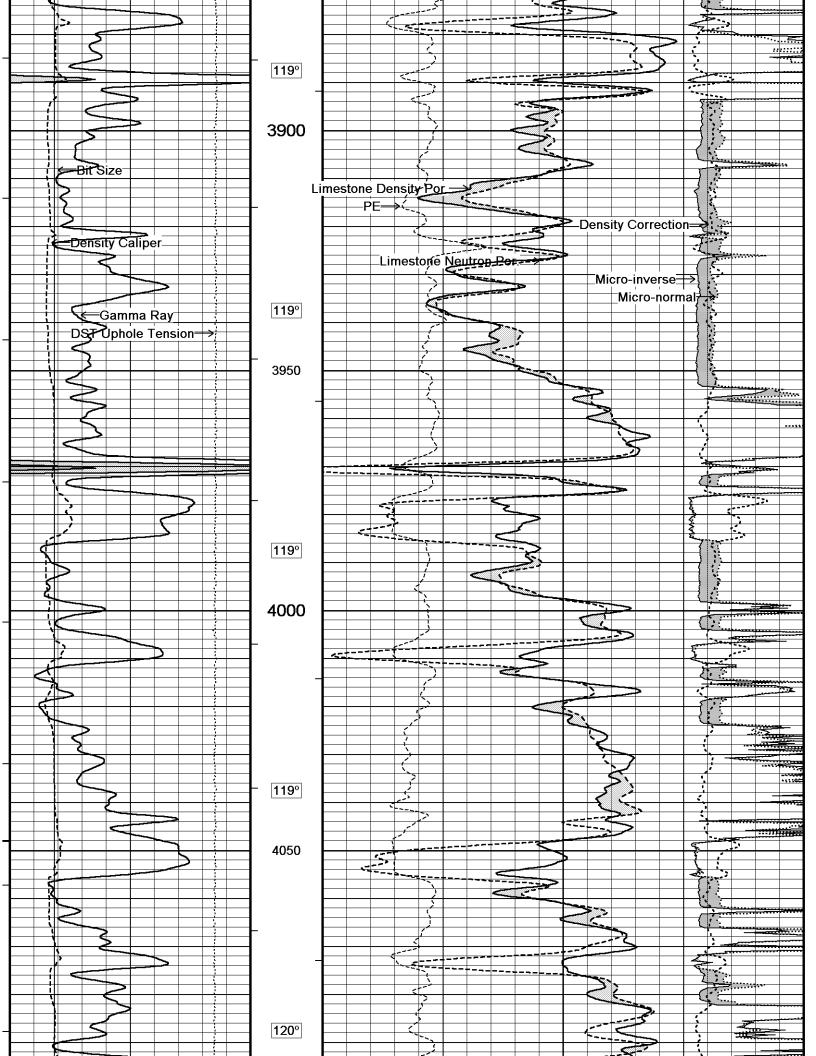


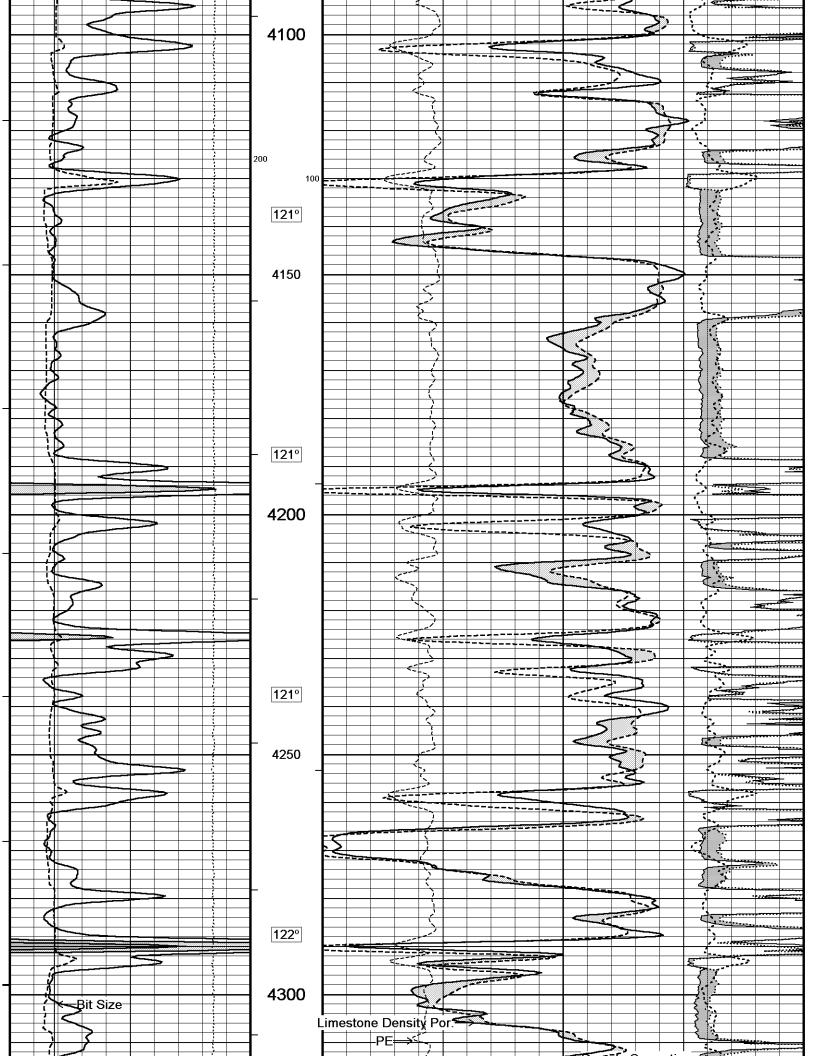


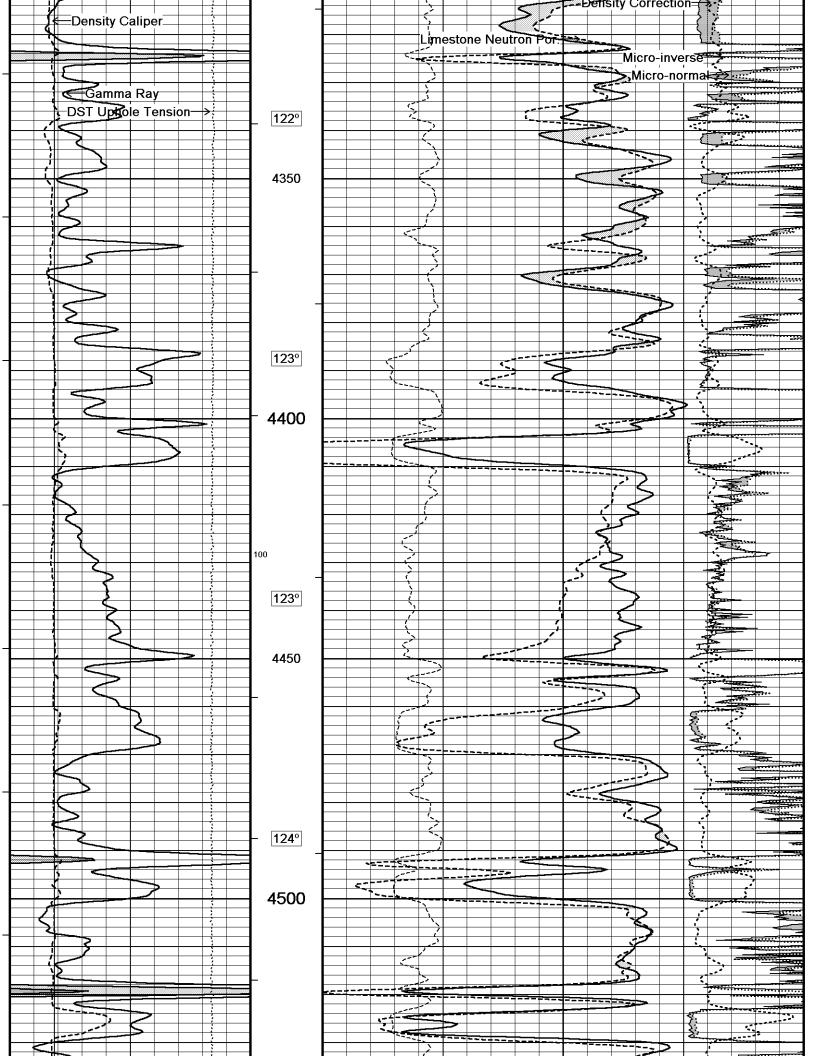
System Versions: Plotted with 12.03.503	2		
Filename: C:\Minimus 11.02.3186\Data\Mc	Coy M-M Diel	Unit\McCoy M-M Diel Unit A # 1-8 Splice.dta	Recorded on 16-DEC-2011 04:15
Depth Based Data - Maximum Sampling In	crement 10.00	cm	Plotted on 16-DEC-2011 07:46

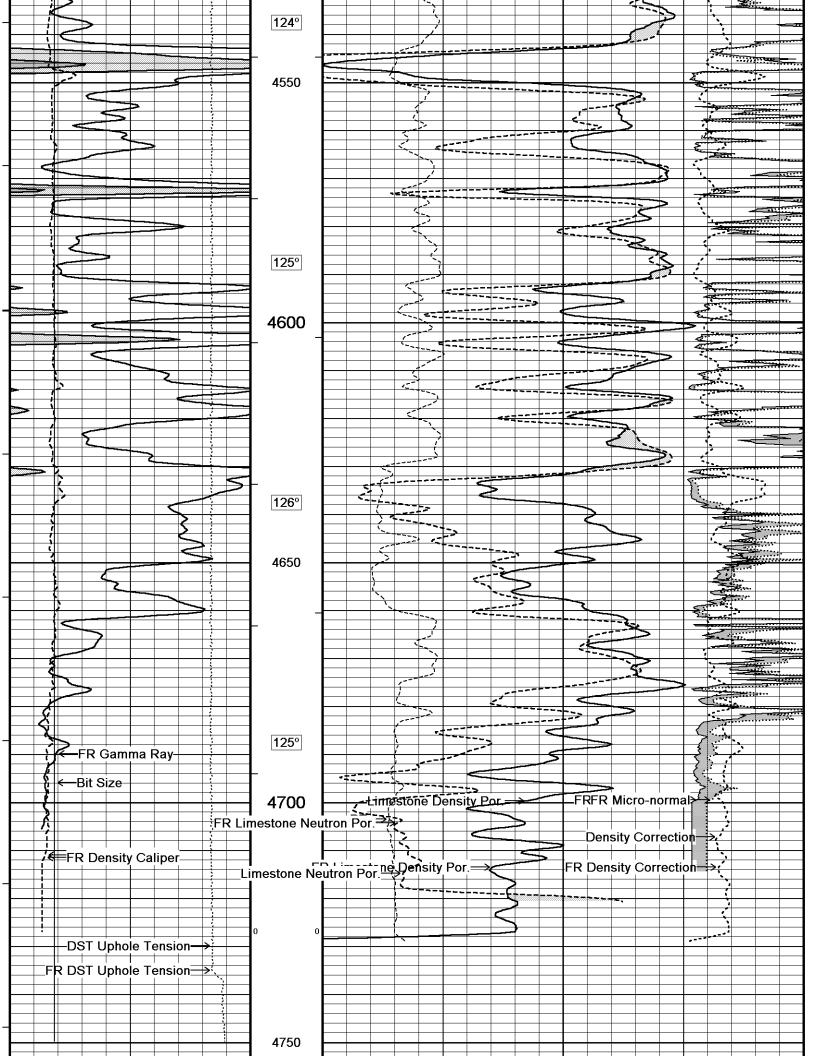
	Plotted with 12.03.5032	
$\mathbf{\Lambda}$	5 INCH MAIN PASS	^
\mathbf{V}	*MAIN PASS	\checkmark
Denth Based Data	- Maximum Sampling Increment, 10 0cm	Plotted on 16-DEC-2011 07:46

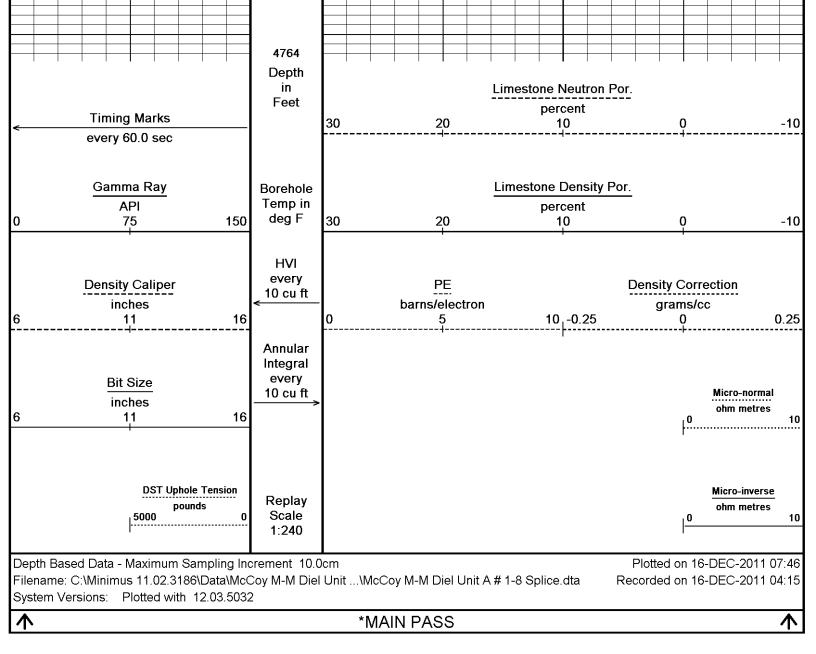


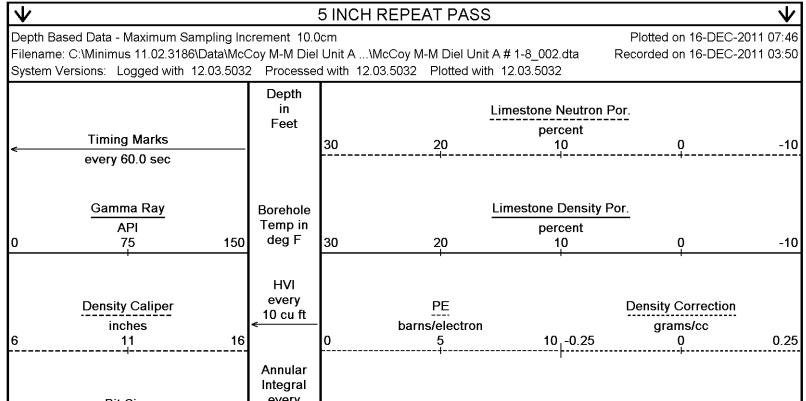


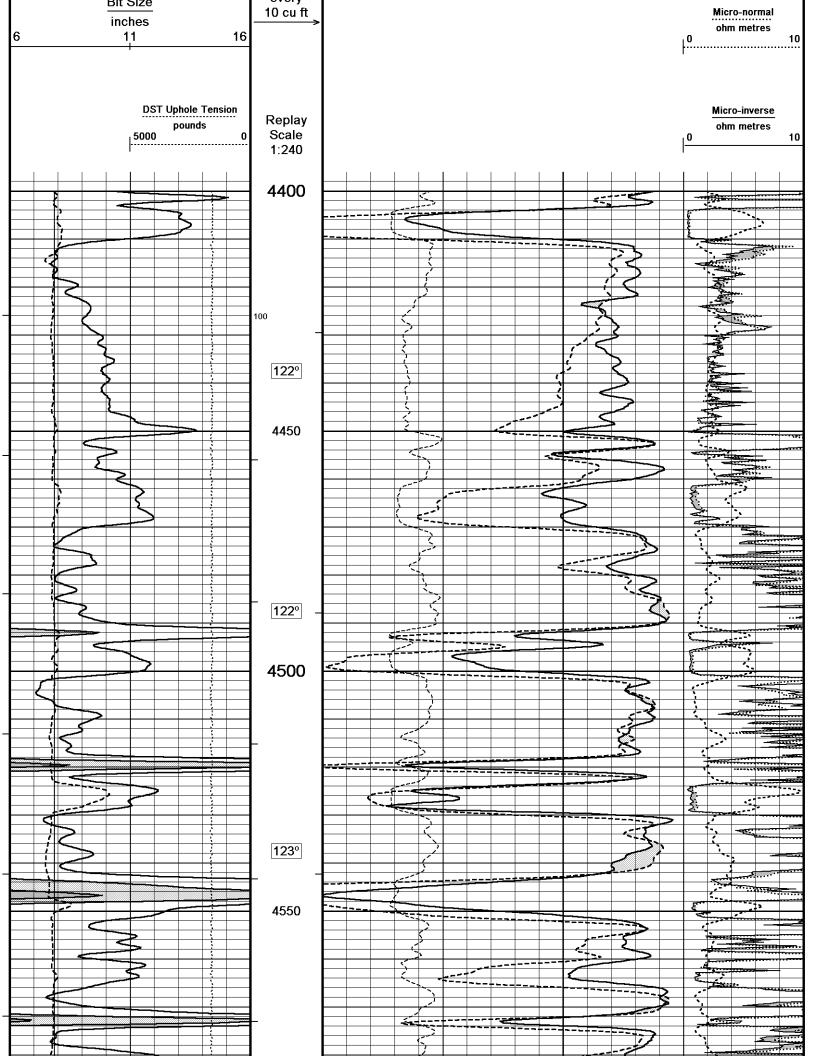


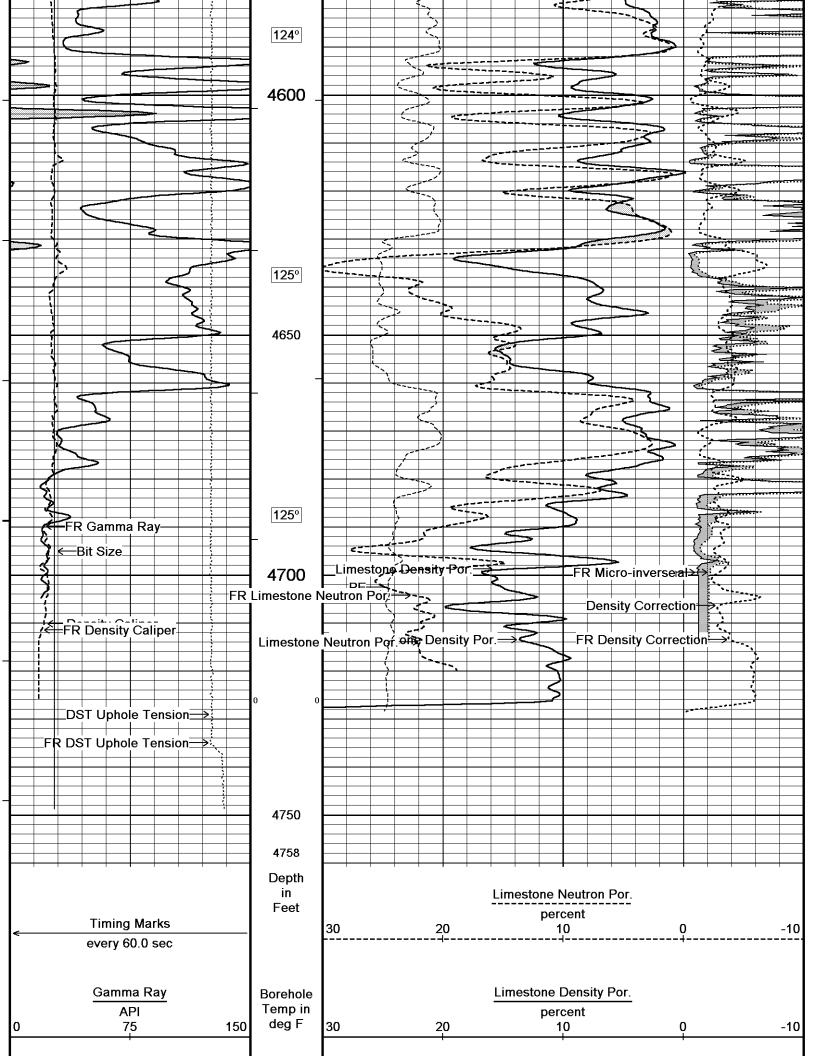


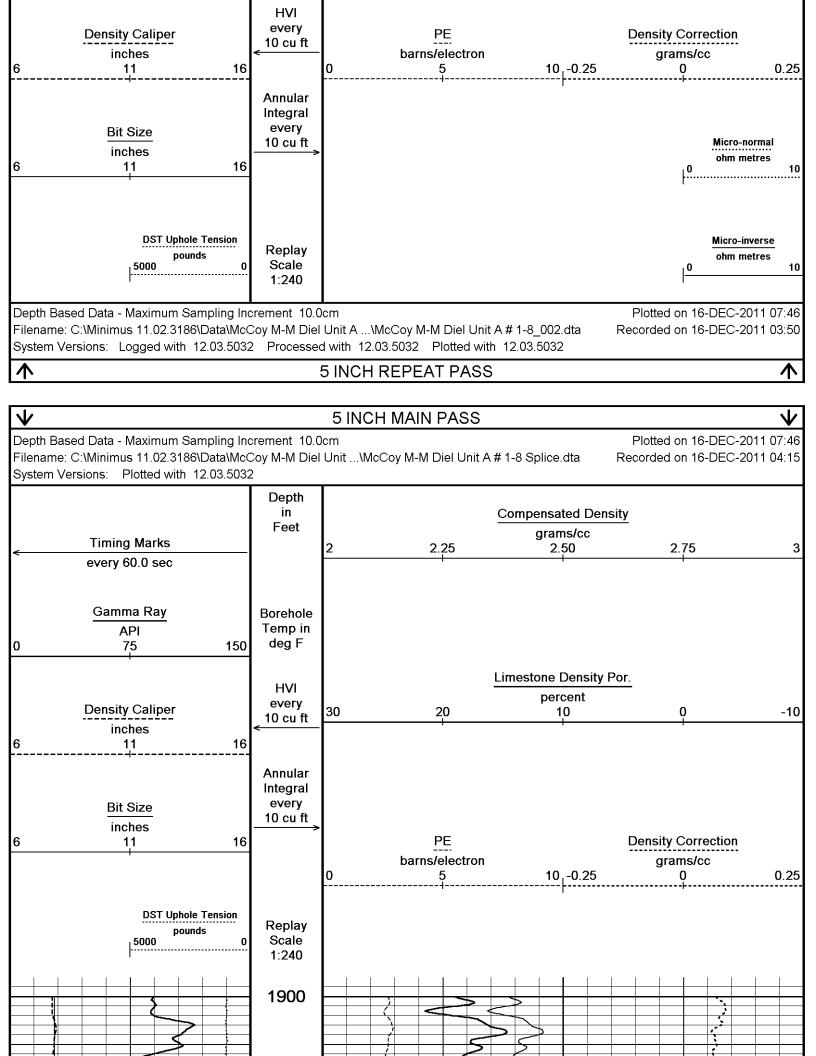


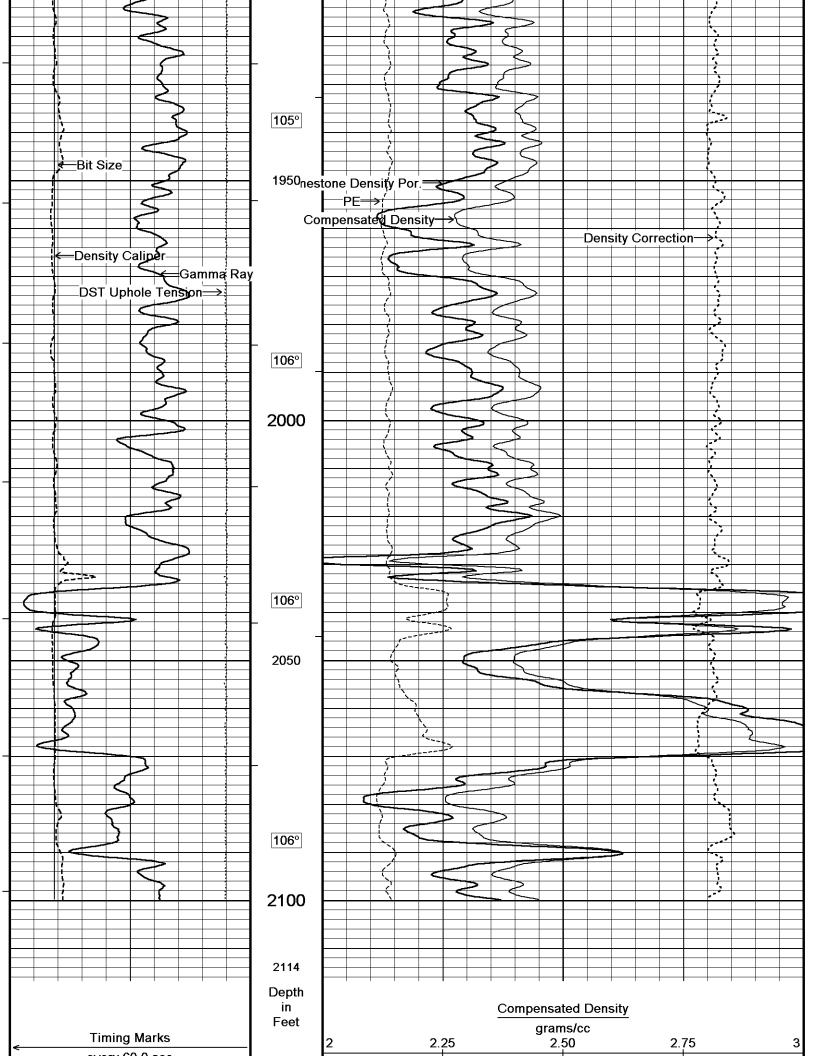


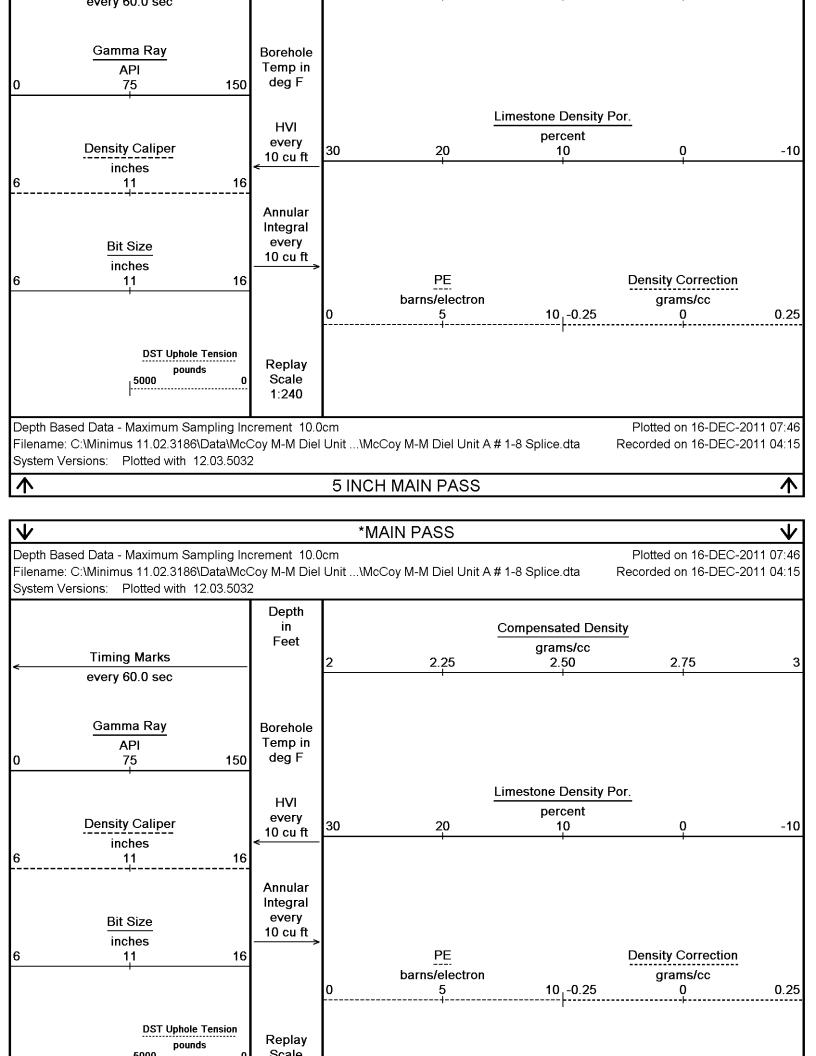


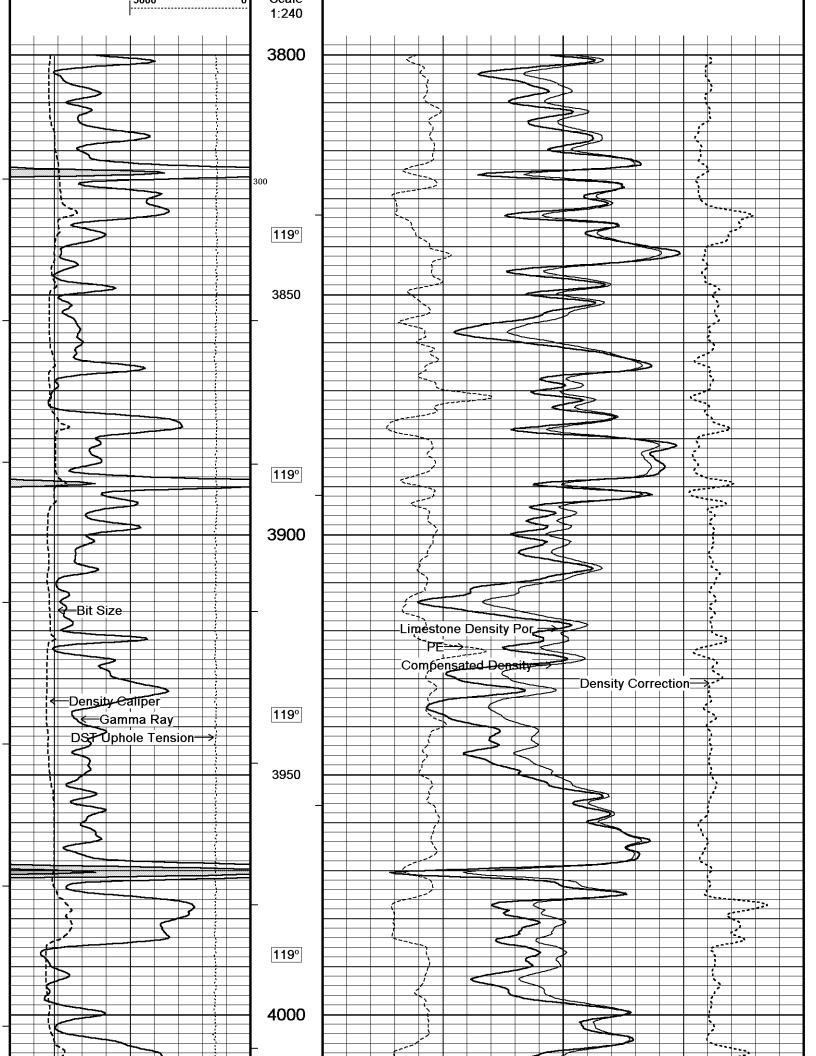


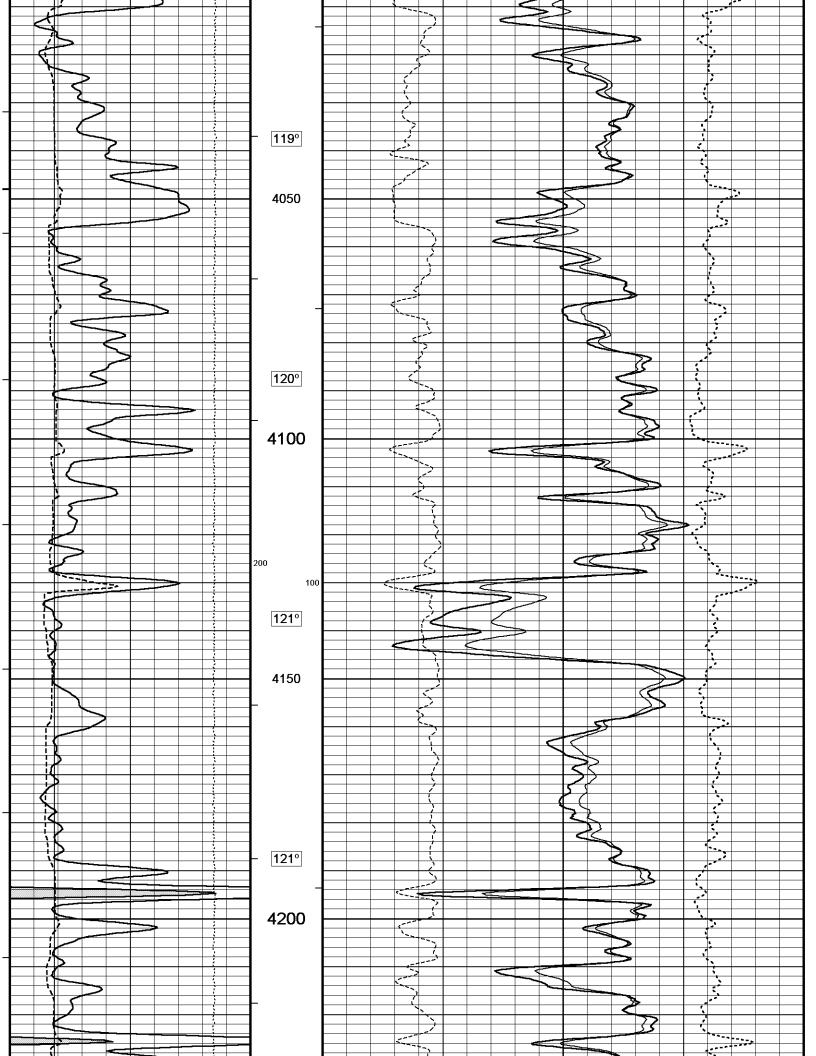


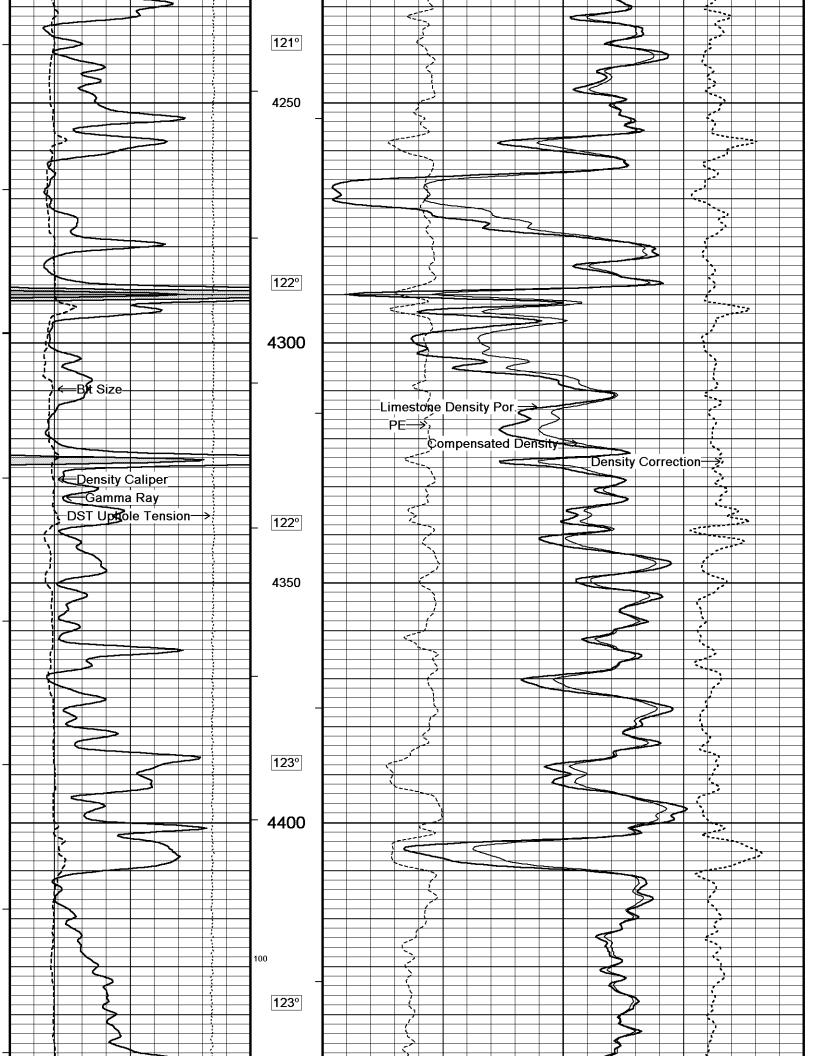


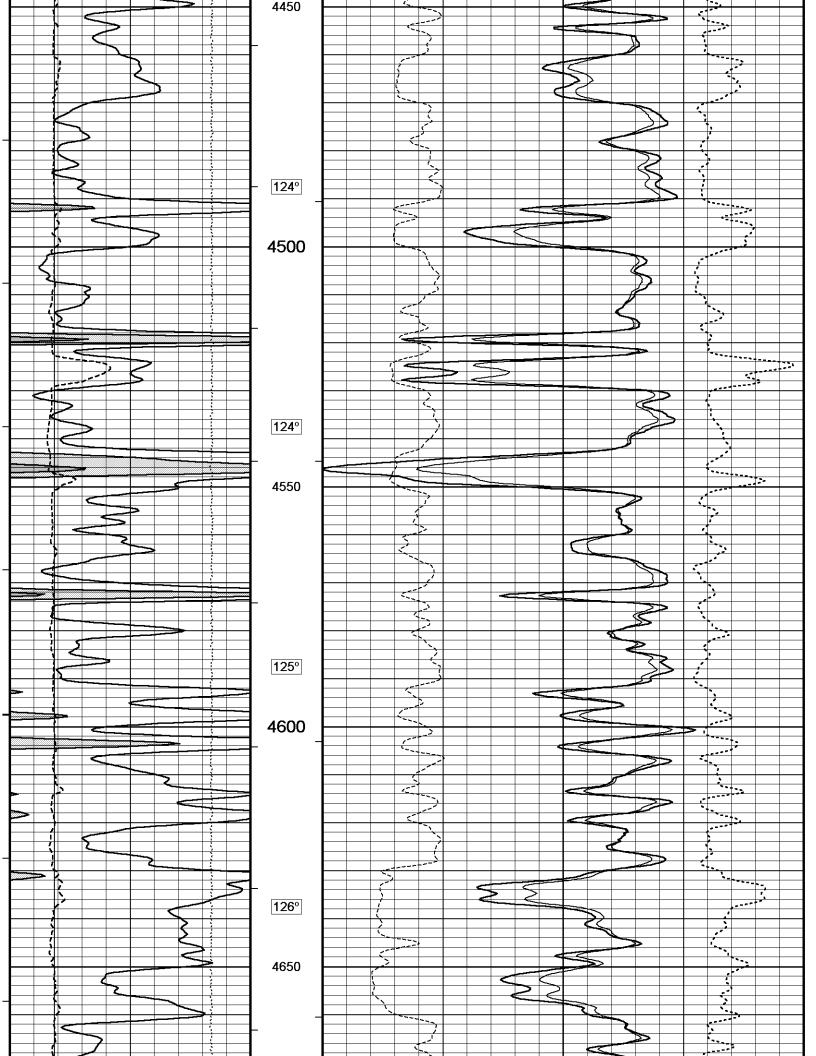


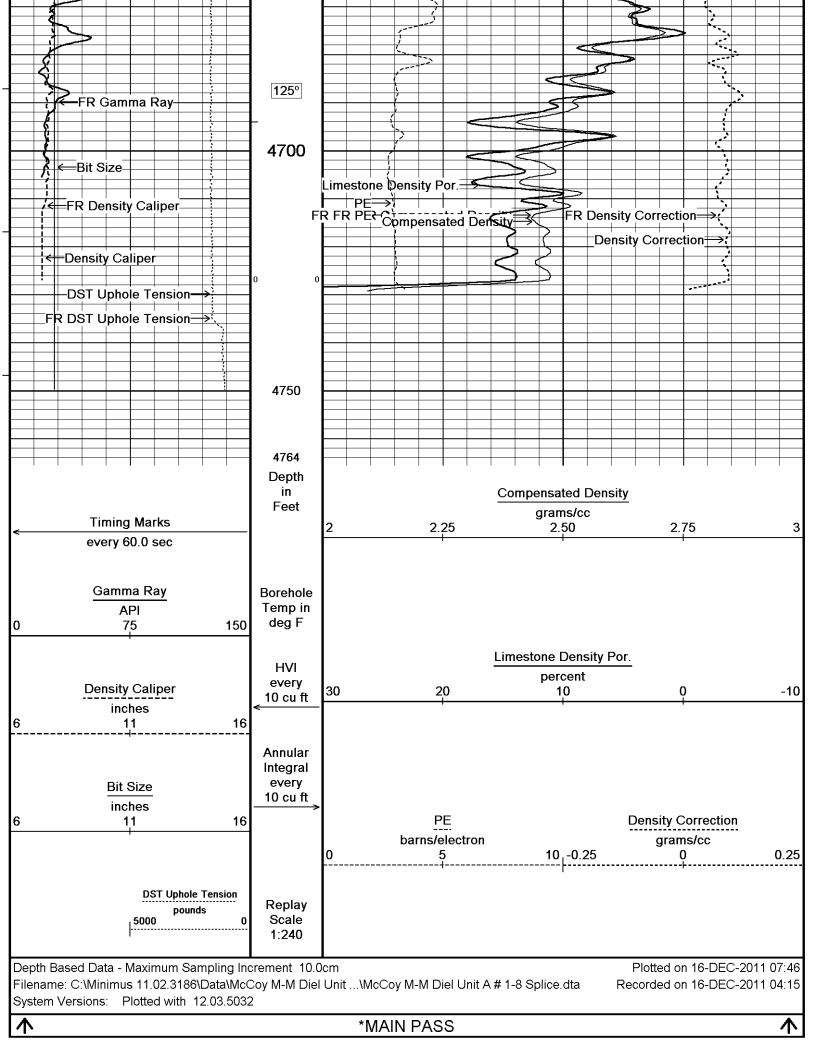


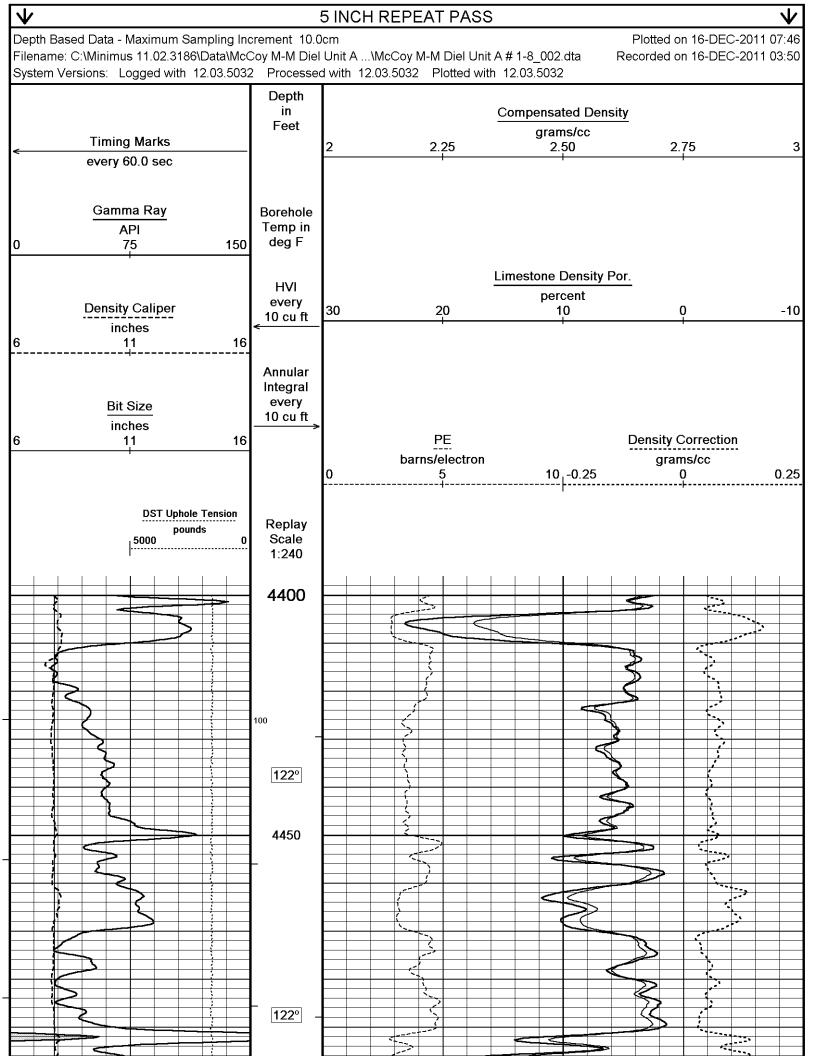


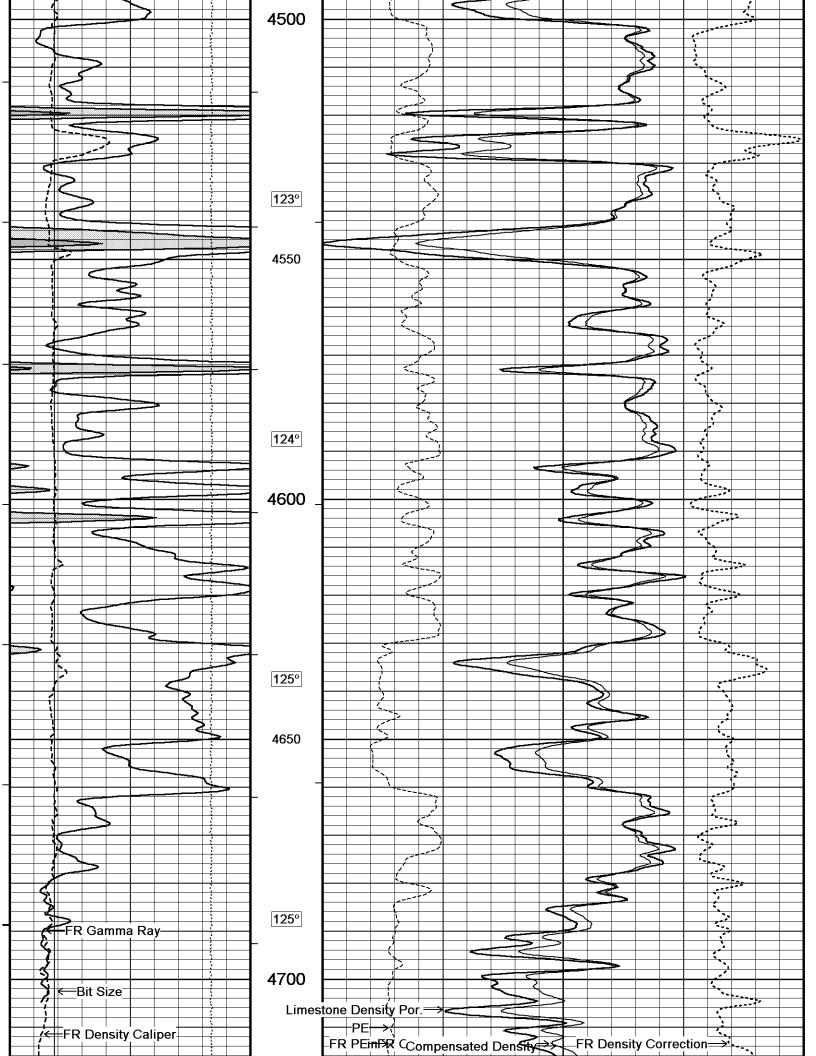


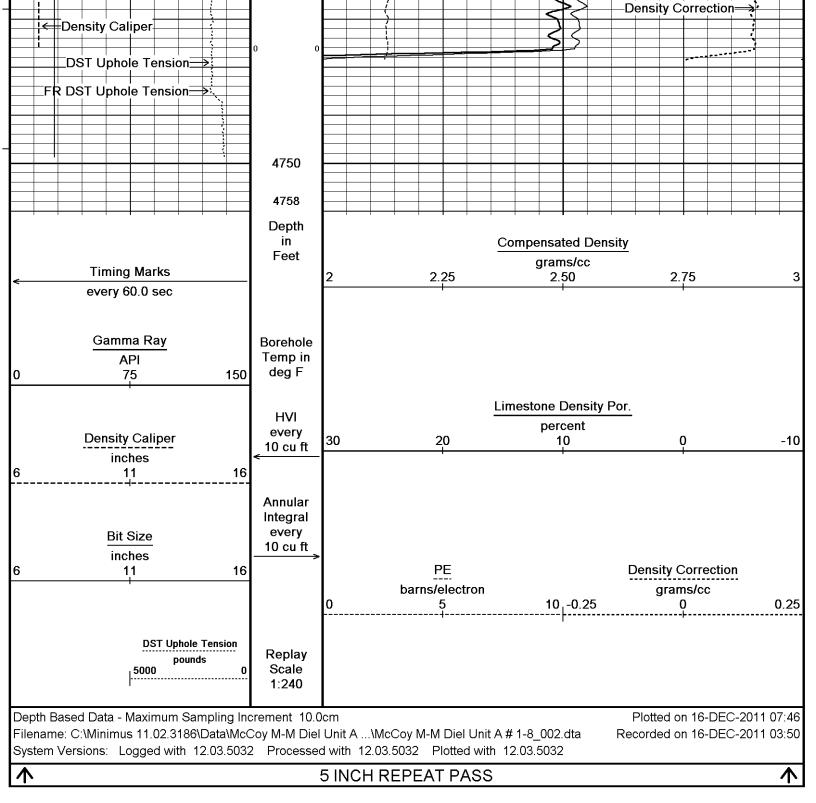












	BEFORE SURV	/EY CALIBRATION	
C:\M	1inimus 11.02.3186\Data\M	/IcCoy M-M Diel Unit A ≉	# 1-8\McCoy M-M Diel Unit A # 1-8 Splice.dta
General Constants All 000			Last Edited on 16-DEC-2011,02:42
General Parameters			
Mud Resistivity	1.450	ohm-metres	
Mud Resistivity Temperature	67.000	degrees F	
Water Level	0.000	feet	
Density/Neutron Processing	Wet Hole		
Hole/Annular Volume and Different	ial Caliper Parameters		
HVOL Method	Single Caliper		
HVOL Caliper 1	Density Caliper		
HVOL Caliper 2	N/A		
Annular Volume Diameter	5.500	inches	

Caliper for Differential Calip	er Density Calipe	۲	
Rwa Parameters			
Porosity used	Base Density Porosit	у	
Resistivity used	Array Ind. Six Res R		
RWA Constant A	0.61		
RWA Constant M	2.15	0	
Down-hole Tension Calibration	on SMS 0		Field Calibration on 23-OCT-2011 03:19
Reading No	Measured	Calibrated (lbs)	
1	12734.06	0.00	
2	13523.27	454.00	
Gamma Calibration MCG-C	84		
	Measured	Calibrated (API)	Field Calibration on 14-DEC-2011 10:22
Background	70	46	
Calibrator (Gross)	756	502	
Calibrator (Net)	686	456	
Gamma Constants MCG-C 8	34		Last Edited on 16-DEC-2011,02:54
Gamma Calibrator Number	grc14	1	
Mud Density	1.1		
Caliper Source for Processir			
Tool Position	Eccentre		
Concentration of KCI	0.0	0 kppm	
SP Calibration MCG-C 84			
	Measured	Calibrated (mV)	Field Calibration on 28-DEC-2010 11:28
Reference 1	100.3	Calibrated (mv) 100.0	
Reference 2	-99.7	-100.0	
		100.0	
High Resolution Temperature	e Calibration MCG-C 84		Field Calibration on 24-JUN-2010,13:02
	Measured	Calibrated(Deg F)	Field Calibration on 24-JUN-2010, 13.02
Lower	50.00	50.00	
Upper	75.00	75.00	
High Resolution Temperature	Constants MCG-C 84		Last Edited on
Pre-filter Length	1	1	
Micro Normal and Micro Inver	rse Calibration MML-A 9		Base Calibration on 21-NOV-2011 11:00
			Field Check on 28-NOV-2011 19:50
Base Calibration	Managurad	Calibrated (abm m)	
Channel	Measured Resistor 1 Resistor 2 Re	Calibrated (ohm-m) esistor 1 Resistor 2	
Micro Normal	12.1 59.5	2.6 12.8	
Micro Inverse	15.6 77.7	1.7 8.4	
Channel		Field Check (ohm-m)	
Micro Normal	32.5 16.4	32.5 16.4	
Micro Inverse Micro Normal and Micro Inver		10.4	Last Edited on 29-NOV-2011,00:10
	Soft Rubber Inflatable 006-90		
Micro Normal K Factor		0.5110	
Micro Inverse K Factor Standoff Offset		0.3380 N/A inches	
		INVA IIICHES	
Caliper Calibration MML-A 9			Base Calibration on 21-NOV-2011 11:11 Field Calibration on 28-NOV-2011 19:54
Base Calibration			
Reading No	Measured	Calibrator Size (in)	
	15045	5.98	
23	18517 21877	7.97 9.86	
4	25857	9.86 11.92	
5	23637	0.00	
6	N/A	N/A	

Field Calibration			
	Measured Caliper (in) 7.96	Actual Caliper (in) 7.97	
Neutron Calibration MDN-A.E	3 39		Base Calibration on 22-NOV-2011 10:41 Field Check on 14-DEC-2011 10:28
Base Calibration			
	Measured Near Far	Calibrated (cps) Near Far	
	2737 86	3714 110	
Ratio	31.919	33.764	
Field Calibrator at Base		Calibrated (cps) 2423 3477	
Ratio		0.697	
Field Check		Calibrated (cps) 2406 3408	
Ratio		0.706	
Neutron Constants MDN-A.B	39		Last Edited on 16-DEC-2011,02:55
Neutron Source Id	N1095		
Neutron Jig Number	NECD117		
Epithermal Neutron Caliper Source for Processin	No g Density Calipe		
Stand-off	g Density Callpe 0.00		
Mud Density	1.00		
Limestone Sigma	7.10		
Sandstone Sigma	4.26		
Dolomite Sigma	4.70		
Formation Pressure Source	None		
Formation Pressure	N/A	•	
Temperature Source	Constant Value		
Temperature Mud Salinity	68.00 0.00	-	
Salinity Correction	Not Applied		
Formation Fluid Salinity Sour			
Formation Fluid Salinity	0.00		
Barite Mud Correction	Not Applied		
FE Calibration MFE-A.A 67			Base Calibration on 21-NOV-2011 10:35 Field Check on 14-DEC-2011 10:40
Base Calibration	Managerod	Calibrated (abm m)	
Reference 1	Measured 0.0	Calibrated (ohm-m) 0.0	
Reference 2	959.4	126.8	
Base Check		281.1	
Field Check		281.0	
FE Constants MFE-A.A 67			Last Edited on 16-DEC-2011,02:55
Running Mode	No Sleeve		
MFE K Factor	0.1268		
Caliper Source for FE correct			
Caliper Value for FE correction Rm Source for FE correction	on N/A Temperature Cor		
Temp. for Rm Corr.	MCG External Temperature		
Stand-off			
Induction Calibration MAI-A.A			Base Calibration on 14-JUN-2006 13:48 Field Check on 14-DEC-2011 10:42
Base Calibration			
Test Loop Calibration	Measured	Calibrated (mmho/m)	
Channel	Low High	Low High	
1	16.5 472.3	9.3 966.2	
2	6.0 378.3 2.5 200.7	7.6 821.4	
3 4	3.5 260.7 1.1 135.1	5.2 566.0	
4	1.1 135.1	2.6 279.2	

Array Temperature		82.2	Deg F		
Channel	Base Check	(mmho/m)	Field Check (m	mho/m)	
	Low	High	Low	High	
1	0.0	0.0	13.9	3846.8	
2	0.0	0.0	30.5	3568.4	
3	0.0	0.0	28.2	3039.7	
4	0.0	0.0	20.8	2038.0	
Deep	0.0	0.0	17.9	1922.9	
Medium	0.0	0.0	39.9	4053.9	
Shallow	0.0	0.0	44.8	5360.2	
Array Temperat	ure	0.0		65.6	Deg F
Induction Constants MAI-A					Last Edited on 16-DEC-2011,02:59
Induction Model		RtAP-WBM			
Caliper for Borehole Corr.		Density Caliper			
Hole Size for Borehole Cor	rection	N/A			
Tool Centred		No			
Stand-off Type		Fins			
Stand-off		0.50			
Number of Fins on Stand-o	off	8.0000			
Stand-off Fin Angle		45.00			
Stand-off Fin Width		0.5000			
Borehole Corr. Rm Source	7	emperature Corr			
Temp. for Rm Corr.		rnal Temperature			
Squasher Start		0.0020		•	
Squasher Offset		N/A			
Borehole Normalisation					
DRM1	0.0000	DRC1			0000
DRM2	0.0000	DRC2			0000
MRM1	0.0000	MRC1			0000
MRM2	0.0000	MRC2			0000
SRM1	0.0000	SRC1			0000
SRM2	0.0000	SRC2		0.0	0000
Calibration Site Correction	c				
Channel 1	3	0.00	mmhos/met		
Channel 2		0.00			
Channel 3		0.00			
Channel 4		0.00			
		0.00	miniosinici		
Apparent Porosity and Wa	ter Saturation				
Archie Constant (A)		1.00			
Cementation Exponent (M)		2.00			
Saturation Exponent (N)		2.00			
Saturation of Water for Ape		100.00	•		
Resistivity of Water for Ap		0.05			
Resistivity of Mud Filtrate f	or Sw	0.00			
Source for Rt		0.00			
Source for Rxo		0.00	1		
High Resolution Temperatu	re Calibratior	n MAI-A.A 188			Field Calibration on 14-JUN-2006,13:48
		Measured	Calibrated(Deg	F)	
Lower		1.00	33.8		
Upper		11.00	51.8		
High Resolution Temperatu	re Constants	MAI-A.A 188			Last Edited on
Pre-filter Length		11			
Caliper Calibration MPD-B	65				Base Calibration on 21-NOV-2011 14:58 Field Calibration on 14-DEC-2011 10:36
Base Calibration					
Reading No		Measured	Calibrator Size (i	n)	
1		13999	3.9		
2		22481	5.9		
3		30982	7.9		
4		20207	Q \$		

5			48432		11.92	
6			N/A		N/A	
Field Calibration	Measur	ad Calir	or (in)	Actual C	aliper (in)	
	Medsur		6.04	/ locular c	5.98	
Photo Density Calibration	MPD-B 65	5				Base Calibration on 21-NOV-2011 14:42 Field Check on 14-DEC-2011 10:33
Density Calibration				0 11		
Base Calibration	Ne		asured Far	Near	ated (sdu) Far	
Reference 1 Reference 2	608- 243		28249 2437	59556 24941	30836 2541	
Field Check at Base						
	1234	.7	1185.8			
Field Check	1233	9.5	1181.3			
PE Calibration						
Base Calibration	Me	Meası WH		(Calibrated	
Background	WS 223	1098	Ratio		Ratio	
Reference 1 22		60634	0.382		0.371	
Reference 2 6	6577	24217	0.275		0.272	
Field Check at Base	23.4	1098.4				
	23.4	1090.4				
Field Check	23.3 ⁻	1095.5				
Density Constants MPD-E	3 65					Last Edited on 16-DEC-2011,02:55
Density Source Id			P57072E			
Nylon Calibrator Number Aluminium Calibrator Nur			DNCE695 DACD698			
Density Shoe Profile			8 inch	1		
Caliper Source for Proces	ssing	D	ensity Caliper			
PE Correction to Density Mud Density			Not Applied 1.13		/cc	
Mud Density Z/A Multiplie	er		1.11	-		
Mud Filtrate Density	nait.		1.00			
Dry Hole Mud Filtrate Der DNCT	nsity		1.00 0.00			
CRCT			0.00) gm.		
Density Z/A Correction			Hybrid			
Matrix Density (gm/cc) 2.71			Depth (ft)			
0.00			0.00 0.00			
0.00 0.00			0.00)		
0.00			0.00			
0.00			0.00 0.00			
0.00 0.00			0.00			
0.00						

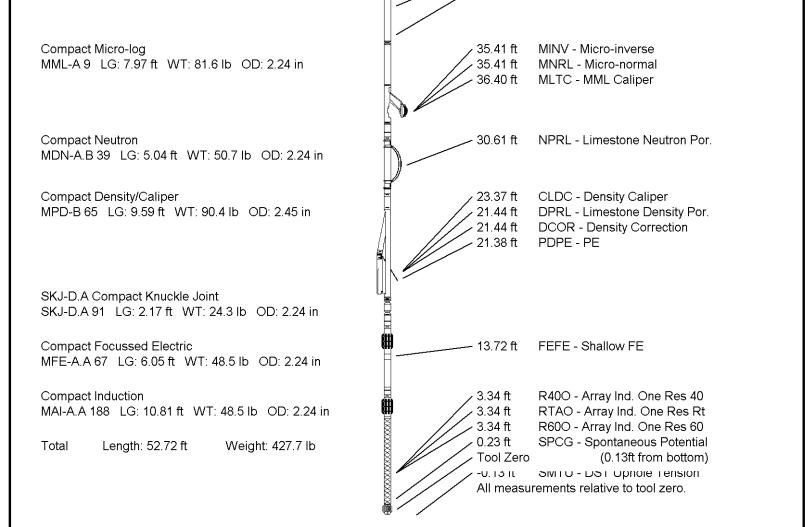
DOWNHOLE EQUIPMENT

C:\Minimus 11.02.3186\Data\McCoy M-M Diel Unit A # 1-8\McCoy M-M Diel Unit A # 1-8 Splice.dta

MCB-A.A 11B Tension Cablehead MCB-A.A 161 LG: 2.40 ft WT: 19.8 lb OD: 2.24 in

Compact Comms Gamma MCG-C 84 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in 42.13 ft

45.04 ft GRGC - Gamma Ray CGXT - MCG External Temperature



COMPANY		MCCOY PE	TROLEUM CORPOR	ATION		
WELL		M-M DIEL U	INIT "A" # 1-8			
FIELD		WILDCAT				
PROVINCE/COL	JNTY	LANE				
COUNTRY/STA	ГΕ	U.S.A. / KAN	NSAS			
Elevation Kelly Bushing	2743.00	feet	First Reading	4712.00	feet	
Elevation Drill Floor	2741.00	feet	Depth Driller	4730.00	feet	
Elevation Ground Level	2733.00	feet	Depth Logger	4735.00	feet	
Weather	ford	COMPEN	T PHOTO DENSITY ISATED NEUTRON ESISTIVITY LOG			40 Years of Wire ine 100 ≥010

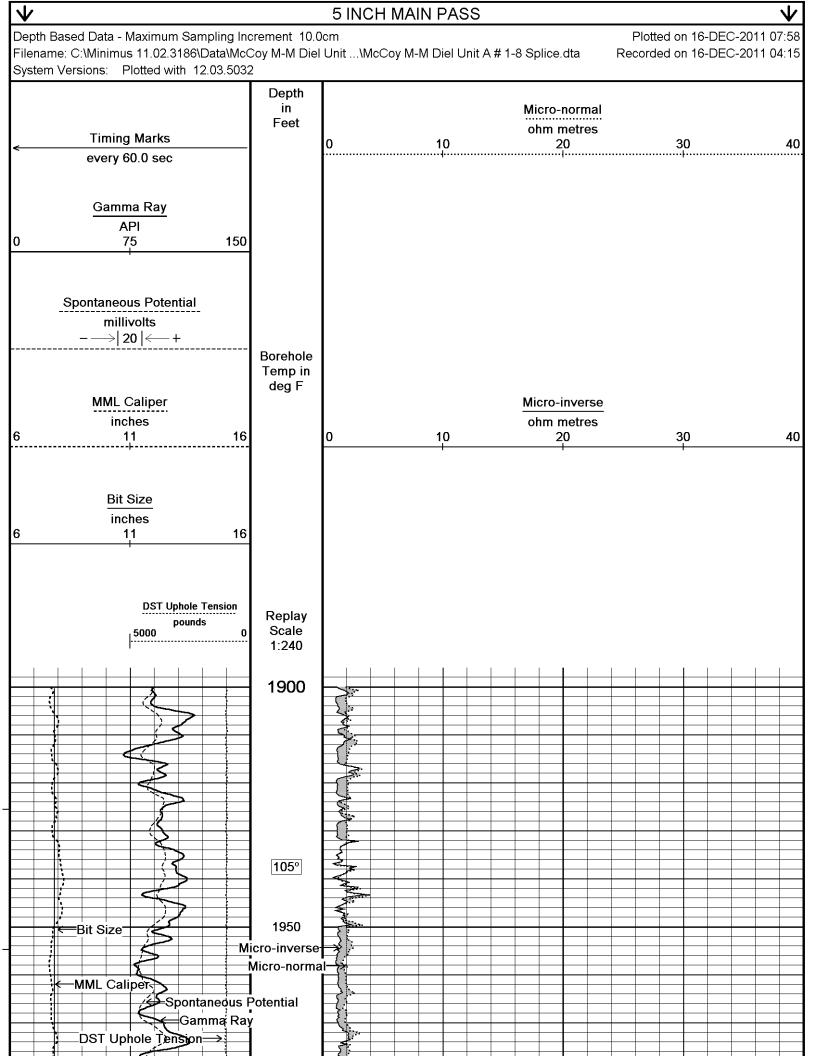
•		MICRORE	MICRORESISTIVITY I OG	
Weatherford				
ANY	COY PETR	MCCOY PETROLEUM CORPORATION	ORATION	
WELL M-	M-M DIEL UNIT "A" # 1-8	T "A" # 1-8		Ì ≋∎
	WILDCAT		4	5 ₩
PROVINCE/COUNTY LA	LANE		Yea	Wireline
COUNTRY/STATE U.	U.S.A. / KANSAS	AS	0.01	2010
LOCATION 23	2310' FSL & 2310' FEL	310' FEL	ſ	
	NW NW SE			
SEC TWP RGE		Other Services		
8 20S 27W		1FE		
API Number 15-101-22334 Permit Number	34 MPD/MDN	MDN		
Permanent Datum G.L., Elevation 2733 feet	vation 2733 feet		Elevations:	feet
Log Measured From KB			766	2743.00
Drilling Measured From K.B. @ 10 FEET	3. @ 10 FEET		GL	2733.00
Date	16-DEC-2011			
Run Number	ONE			
Depth Driller	4730.00	feet		
Depth Logger	4735.00	feet		
First Reading	4699.00	feet		
Last Reading	1900.00	feet		
Casing Driller	228.00	feet		
Casing Logger	227.00	feet		
Bit Size	7.875	inches		
Hole Fluid Type	\leq		_	
Density / Viscosity	9.40 lb/USg	54.00		
PH / Fluid Loss	10.50	7.60 ml/30Min		
Sample Source	FLOWLINE			
Rm @ Measured Temp	1.45 @ 67.0	ohm-m		
Rmf @ Measured Temp	1.16@67.0	ohm-m		
Rmc @ Measured Temp	1.74 @ 67.0	ohm-m		
Source Rmf / Rmc	CALC	CALC		
Rm @ BHT	0.80 @125.0	ohm-m		
Time Since Circulation	5 HOURS			
Max Recorded Temp	126.00	deg F		
Equipment Name	COMPACT			
Equipment / Base	13096	LIB		
Recorded By	A. GIAMBALVO	0		
Witnessed By	JERRY SMITH			
S.O. / JOB #	3534684		LB11-319	

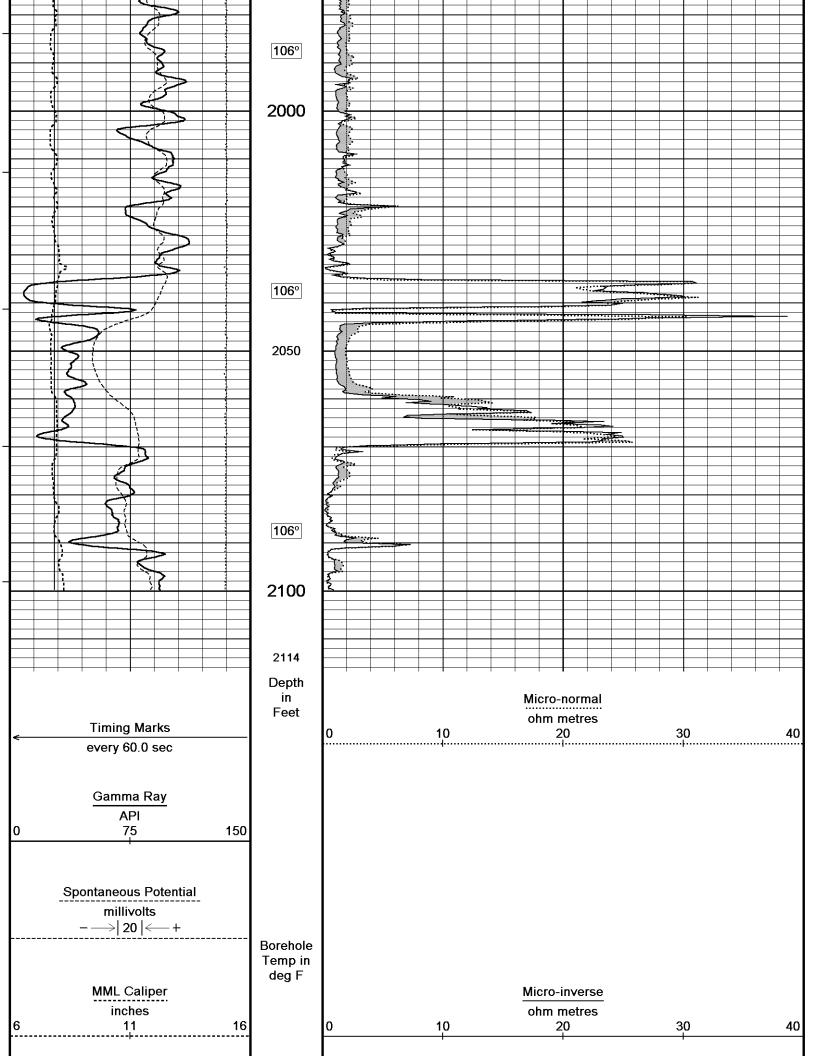
		BOREHOLE RECC	RD	BOREHOLE RECORD Last Edited: 16-DEC-2011 07:2							
	Bit Size	Depth From			Depth To						
	inches	feet feet			feet						
	7.875	227.00 4735.00			4735.00						
	CASING RECORD										
Туре	Size	Depth From	Shoe	e Depth	Weight						
	inches	· ·		feet	pounds/ft						
SURFACE	8.625	10.00		227.00	24.00						

REMARKS

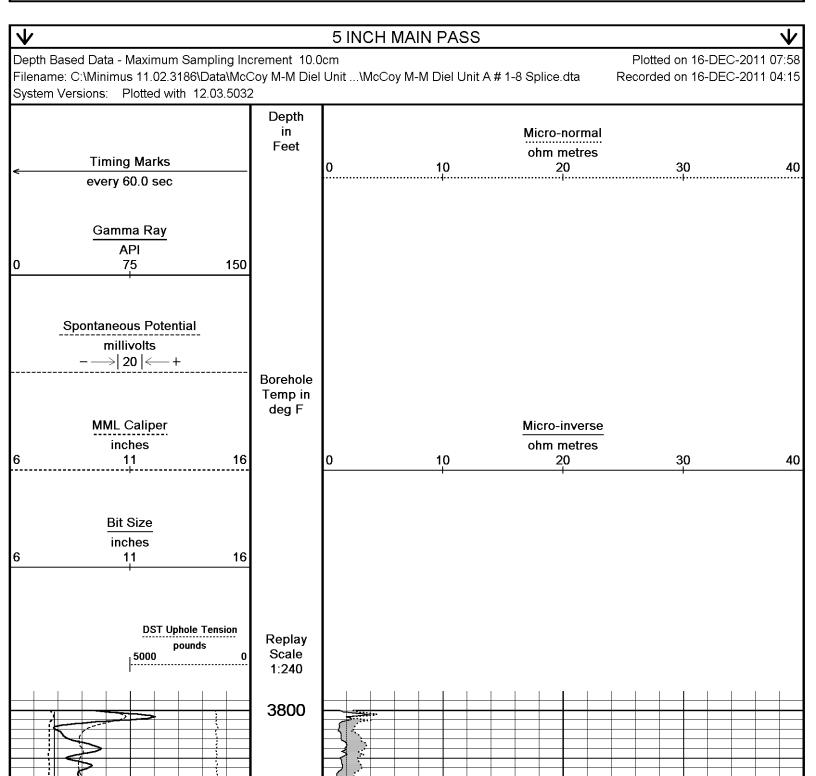
Tools Used: MPD, MCG, MDN, MFE, MAI, MML. Hardware: MPD: 8 inch profile plate used. MAI, MSS and MFE: 0.5 Inch standoffs used. MDN: Dual Bowspring used. 2.71 G/CC Limestone density matrix used to calculate porosity. Borehole rugosity, tight pulls, and washouts will affect data quality. All intervals logged and scaled per customer's request. Annular volume with 5.5 inch production casing from TD to 3800 ft = 158 cu. ft Service Order #3534684 Rig: Val # 7 Engineer: A. Giambalvo Operator(s): K. Rinehart

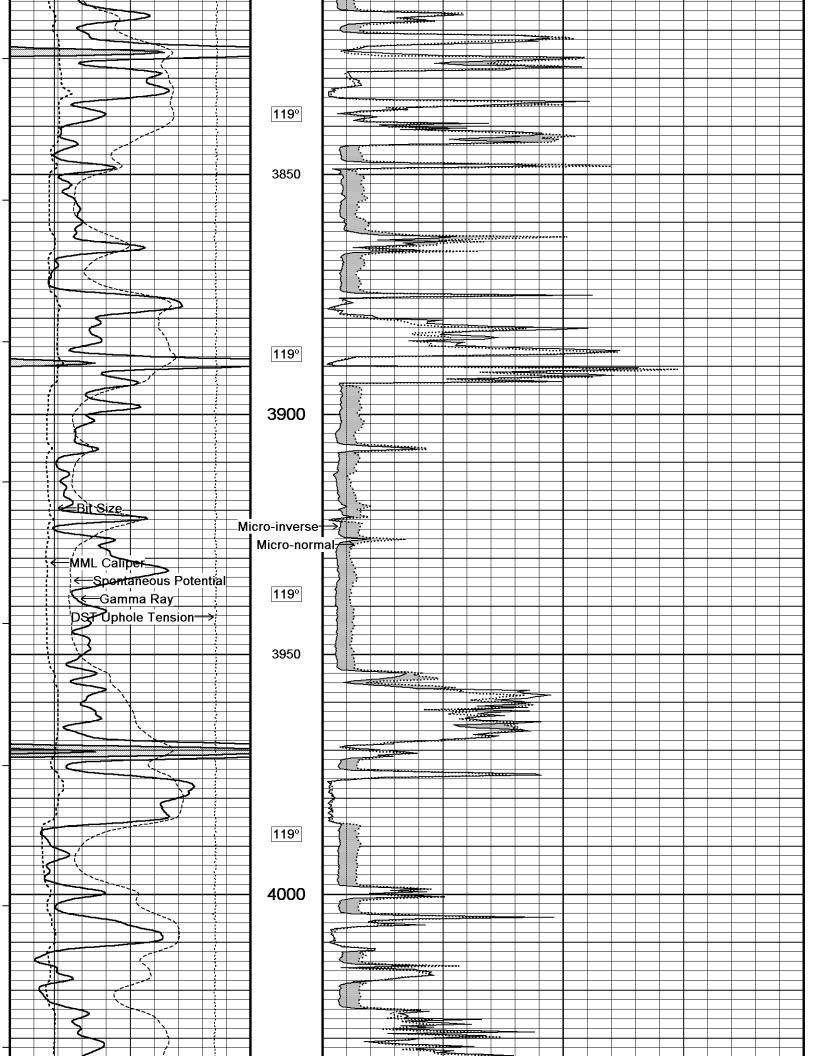
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, 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 in our price schedule.

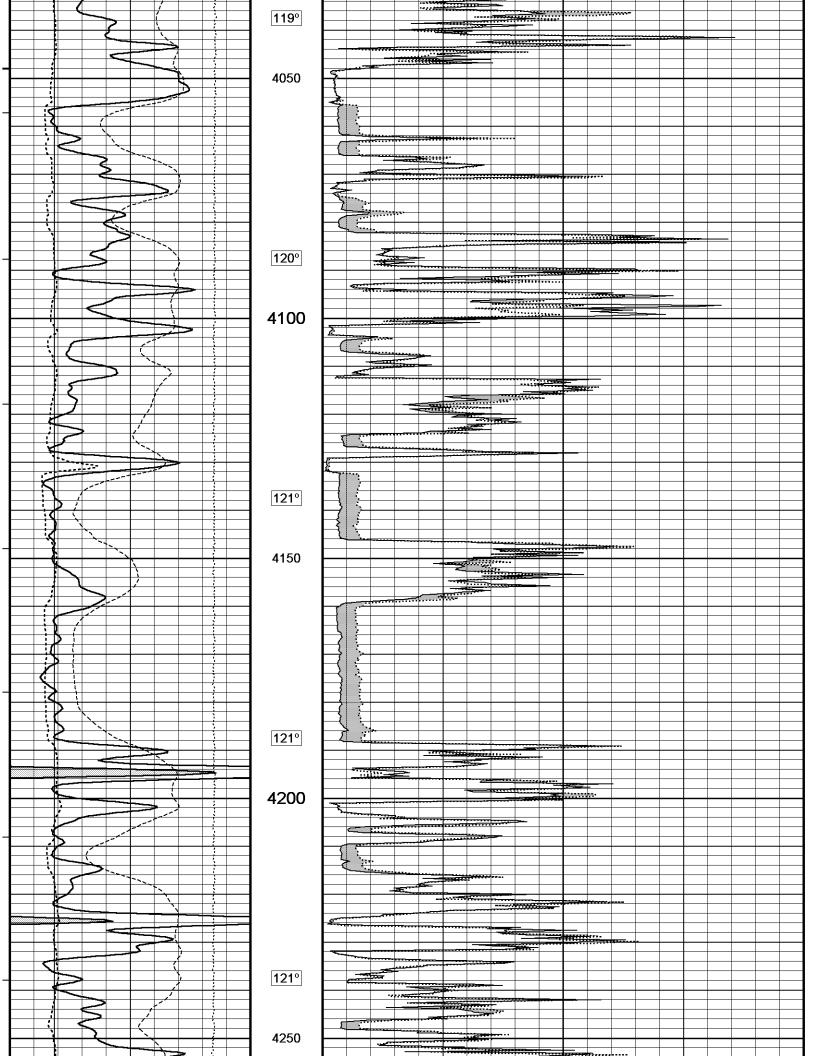


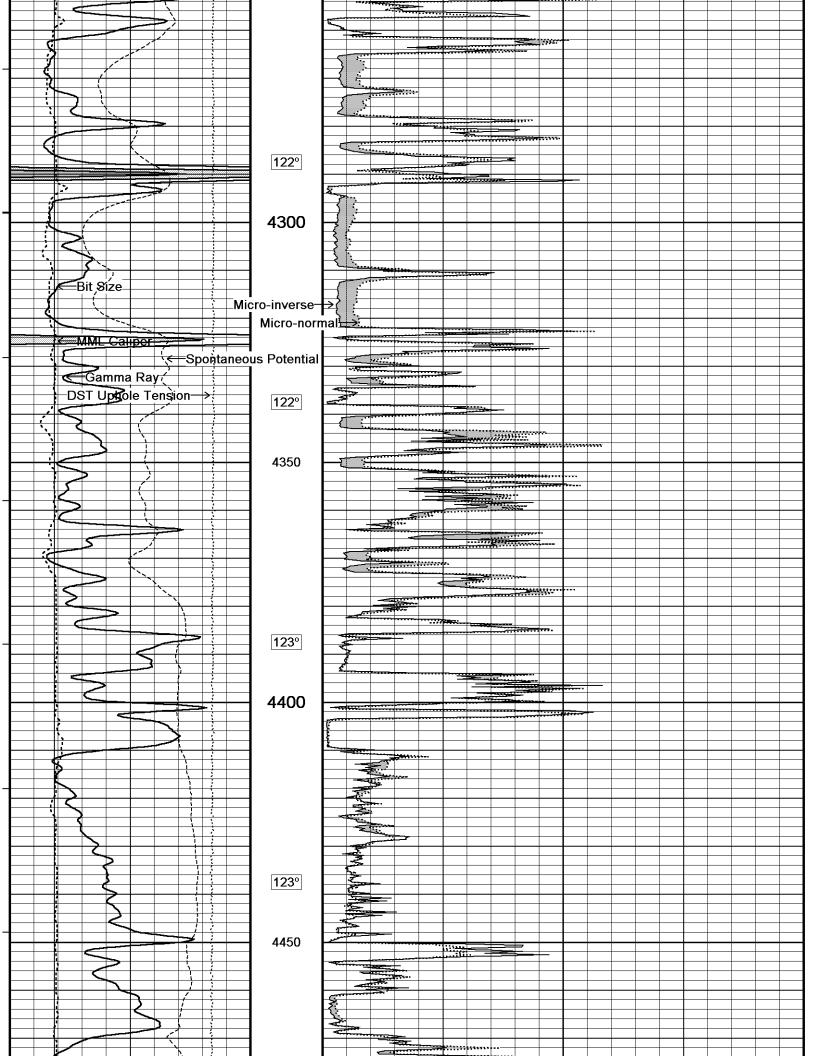


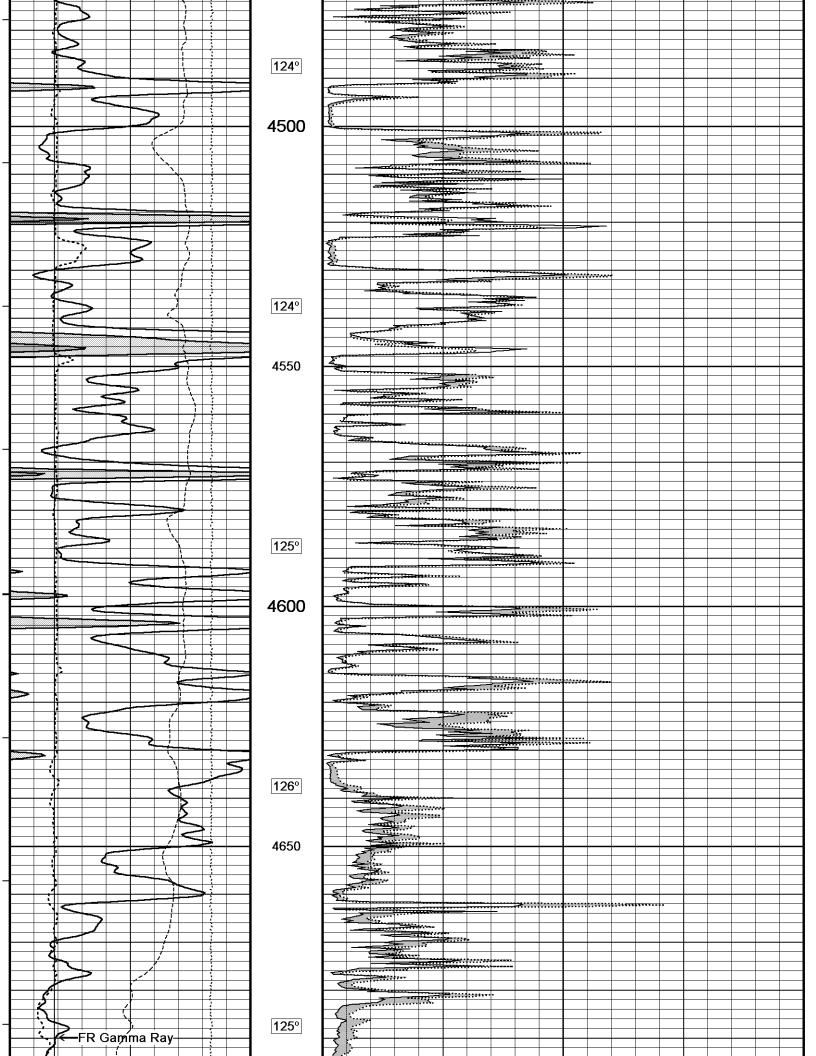
Bit Size inches 6 11 16			
DST Uphole Tension pounds 	Replay Scale 1:240		
Depth Based Data - Maximum Sampling Ind Filename: C:\Minimus 11.02.3186\Data\McC System Versions: Plotted with 12.03.5032	Coy M-M Diel	ocm Unit\McCoy M-M Diel Unit A # 1-8 Splice.dta	Plotted on 16-DEC-2011 07:58 Recorded on 16-DEC-2011 04:15
		5 INCH MAIN PASS	个

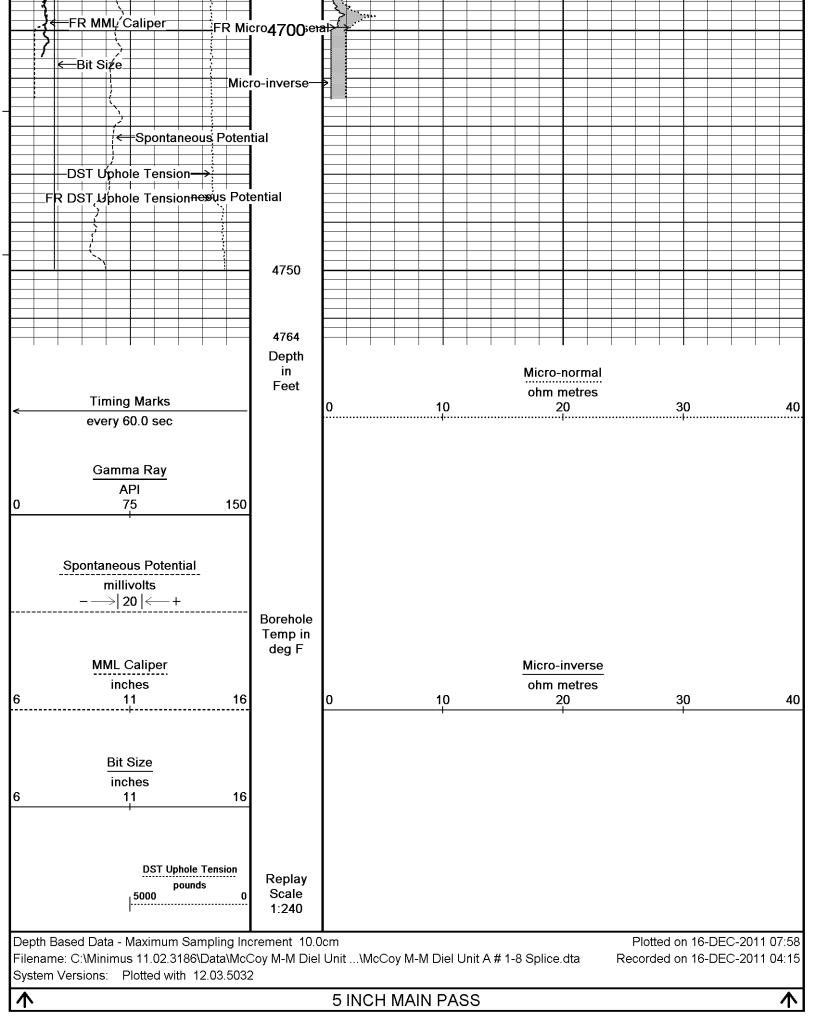








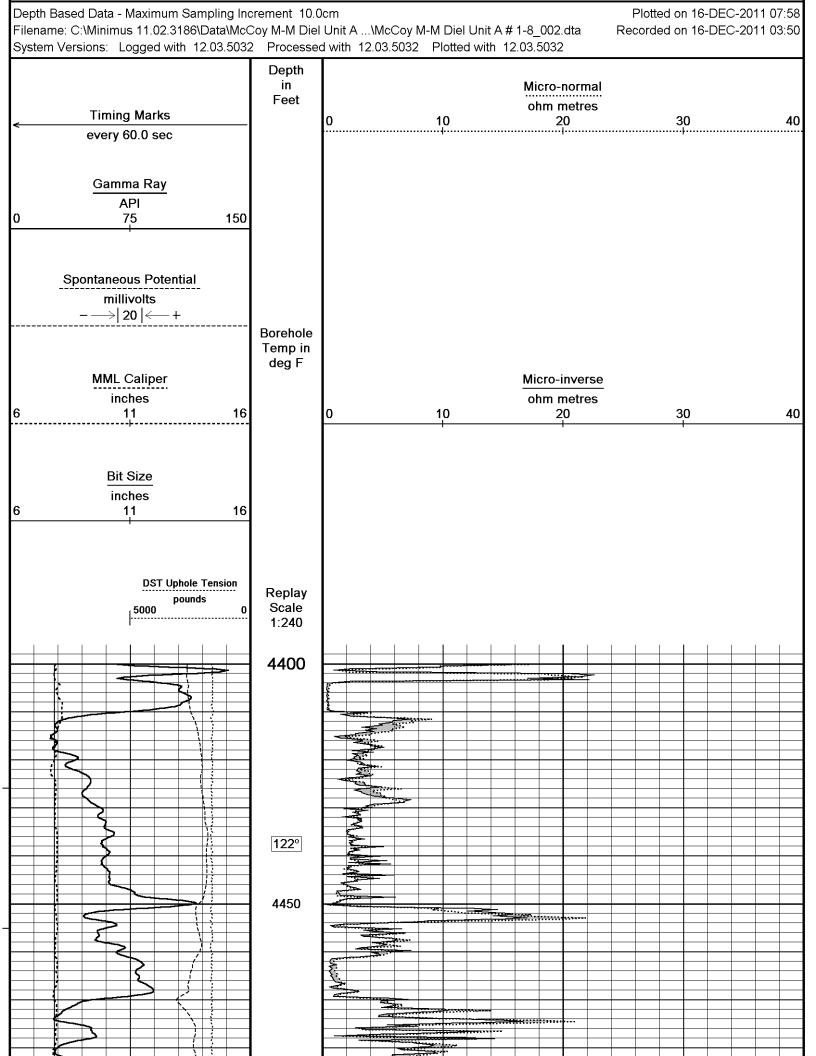


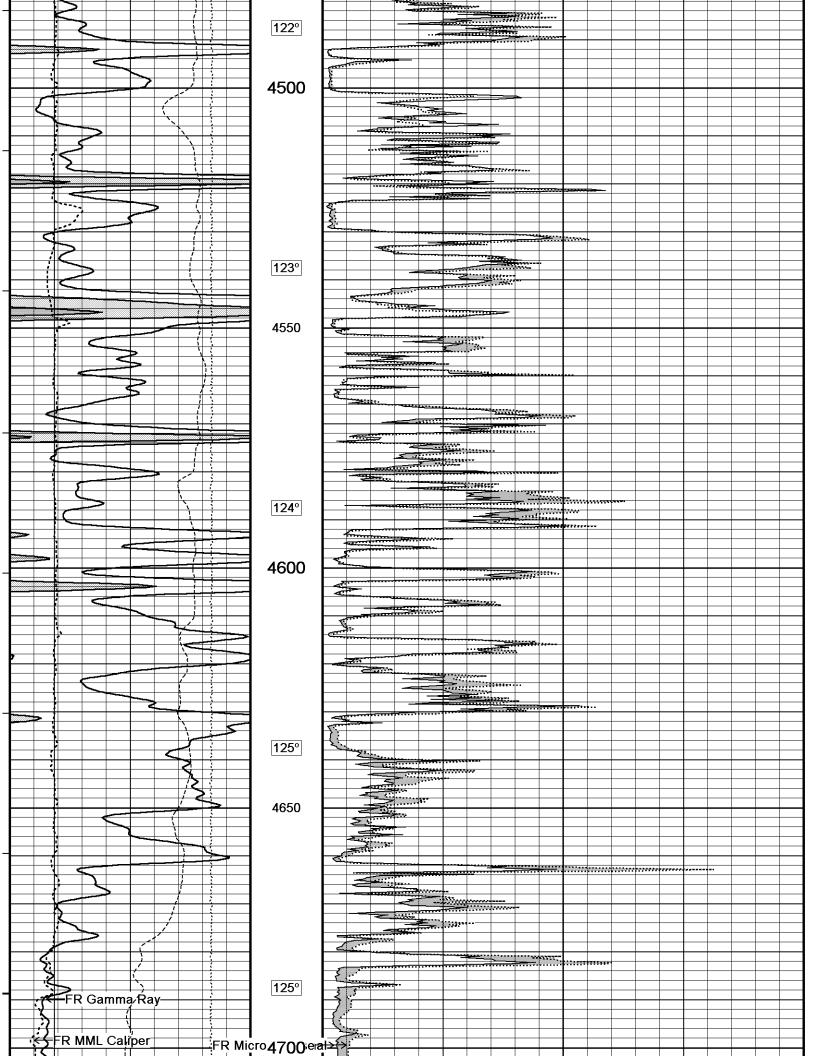


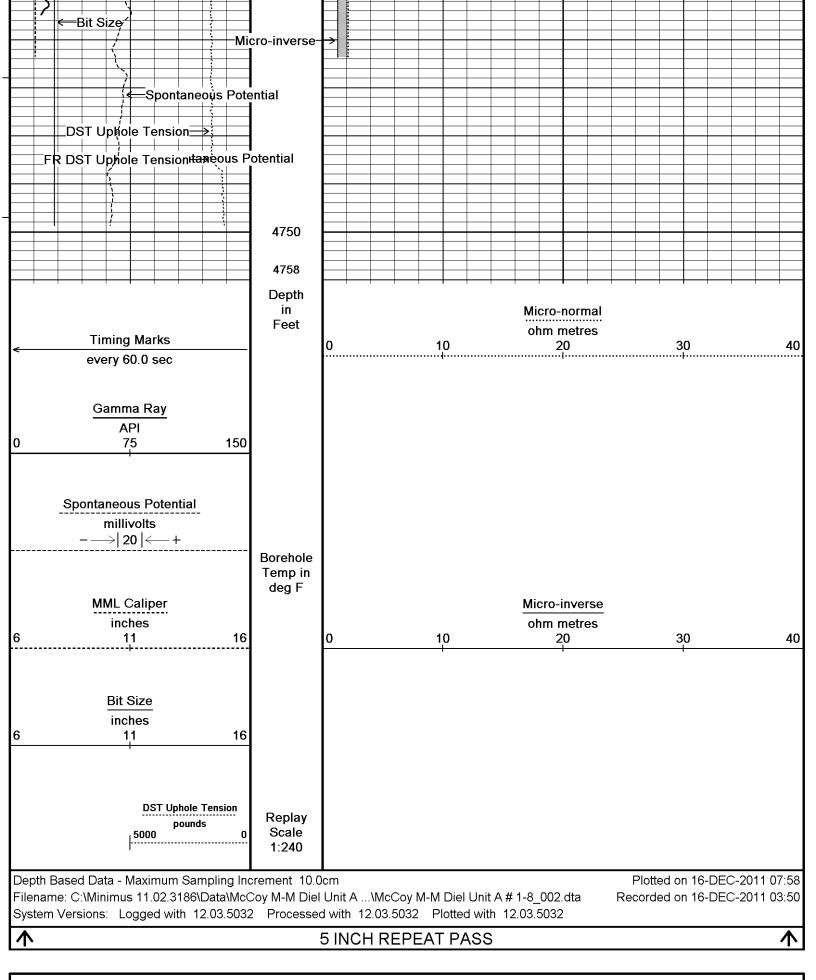
5 INCH REPEAT PASS

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BEFORE SURVEY CALIBRATION

C:\Minimus 11.02.3186\Data\McCoy M-M Diel Unit A # 1-8\McCoy M-M Diel Unit A # 1-8 Splice.dta

General Constants All 000

Last Edited on 16-DEC-2011,02:42

General Parameters			
Mud Resistivity	1.450	ohm-metres	
Mud Resistivity Temperatu		degrees F	
Water Level	0.000	feet	
Density/Neutron Processin	g Wet Hole		
Hole/Annular Volume and I	Differential Caliper Parameters		
HVOL Method	Single Caliper		
HVOL Caliper 1	Density Caliper		
HVOL Caliper 2	N/A		
Annular Volume Diameter	5.500	inches	
Caliper for Differential Cali	per Density Caliper		
Rwa Parameters			
Porosity used	Base Density Porosity		
Resistivity used	Array Ind. Six Res Rt		
RWA Constant A	0.610		
RWA Constant M	2.150		
Down-hole Tension Calibra	tion SMS 0		
Deading No.			Field Calibration on 23-OCT-2011 03:19
Reading No	Measured 12734.06	Calibrated (lbs)	
1	12734.06 13523.27	0.00 454.00	
		404.00	
Gamma Calibration MCG-0	2 84		Field Calibratian on 14 DEC 2011 10:22
	Measured	Calibrated (API)	Field Calibration on 14-DEC-2011 10:22
Background	70	46	
Calibrator (Gross)	756	502	
Calibrator (Net)	686	456	
Gamma Constants MCG-C	84		Last Edited on 16-DEC-2011,02:54
Gamma Calibrator Number	r grc141 1.13		
Mud Density Caliper Source for Process		gm/cc	
Tool Position	Eccentred		
Concentration of KCI	0.00	kppm	
SP Calibration MCG-C 84			Field Calibration on 28-DEC-2010 11:28
	Measured	Calibrated (mV)	
Reference 1	100.3	100.0	
Reference 2	-99.7	-100.0	
High Resolution Temperatu	re Calibration MCG-C 84		
- '		Calibrate d(De = C)	Field Calibration on 24-JUN-2010,13:02
Lawar	Measured	Calibrated(Deg F)	
Lower Upper	50.00 75.00	50.00 75.00	
		70.00	
High Resolution Temperatu	re Constants MCG-C 84		Last Edited on
Pre-filter Length	11		
Micro Normal and Micro Inv	erse Calibration MML-A 9		Base Calibration on 21-NOV-2011 11:00
			Field Check on 28-NOV-2011 19:50
Base Calibration	Measured (alibrated (ohm m)	
Channel		Calibrated (ohm-m) stor 1 Resistor 2	
Micro Normal	12.1 59.5	2.6 12.8	
Micro Inverse	15.6 77.7	1.7 8.4	
Channel		eld Check (ohm-m)	
Micro Normal	32.5	32.5	
Micro Inverse	16.4	16.4	
Micro Normal and Micro Inv	erse Constants MML-A 9		Last Edited on 29-NOV-2011,00:10
Pad Type 8-12 ir	n Soft Rubber Inflatable 006-901	1-159	
Micro Normal K Factor		.5110	
Micro Inverse K Factor	0	.3380	
Standoff Offeat		N/A inchos	

N/A inches

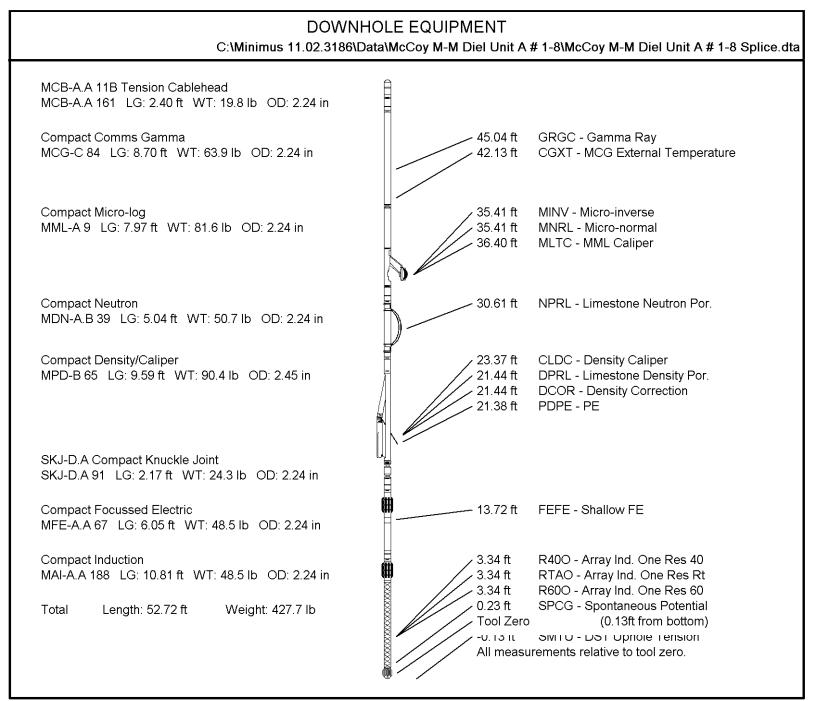
Standoff Offset

Caliper Calibration MML-A 9			Base Calibration on 21-NOV-2011 11:11 Field Calibration on 28-NOV-2011 19:54
Base Calibration Reading No 1	Measured 15045	Calibrator Size (in) 5.98	
1 2	18517	5.98 7.97	
3	21877	9.86	
4 5	25857 0	11.92 0.00	
6	N/A	N/A	
Field Calibration			
Me	easured Caliper (in) 7.96	Actual Caliper (in) 7.97	
Neutron Calibration MDN-A.B 3	9		Base Calibration on 22-NOV-2011 10:41 Field Check on 14-DEC-2011 10:28
Base Calibration			
	Measured Near Far 2737 86	Calibrated (cps) Near Far 3714 110	
Ratio	31.919	33.764	
Field Calibrator at Base		Calibrated (cps)	
Ratio		2423 3477 0.697	
Field Check		Calibrated (cps) 2406 3408	
Ratio		0.706	
Neutron Constants MDN-A.B 39	Э		Last Edited on 16-DEC-2011,02:55
Neutron Source Id Neutron Jig Number Epithermal Neutron	N1095 NECD117 NC	7	
Caliper Source for Processing Stand-off	Density Calipe 0.00		
Mud Density	1.00) gm/cc	
Limestone Sigma	7.10		
Sandstone Sigma Dolomite Sigma	4.26 4.70		
Formation Pressure Source	None	e	
Formation Pressure	N/A		
Temperature Source Temperature	Constant Value 68.00		
Mud Salinity	0.00) kppm	
Salinity Correction	Not Applied		
Formation Fluid Salinity Source Formation Fluid Salinity	Constant Value		
Barite Mud Correction	Not Applied		
FE Calibration MFE-A.A 67			Base Calibration on 21-NOV-2011 10:35 Field Check on 14-DEC-2011 10:40
Base Calibration	Measured	Calibrated (ohm-m)	
Reference 1	0.0	0.0	
Reference 2	959.4	126.8	
Base Check		281.1	
Field Check		281.0	
FE Constants MFE-A.A 67			Last Edited on 16-DEC-2011,02:55
Running Mode	No Sleeve		
MFE K Factor Caliper Source for FE correction	0.1268 n Density Calipe		
Caliper Value for FE correction	Ň/A	A inches	
Rm Source for FE correction Temp. for Rm Corr. N	Temperature Cor ICG External Temperature		

Stand-off		0.5	inches		
Induction Calibration MAI-A	.A 188				Base Calibration on 14-JUN-2006 13:4 Field Check on 14-DEC-2011 10:4
Base Calibration					
Test Loop Calibration		Measured	Calibrated (mmho/m)	
Channel	Low	High	Low	High	
1 1	16.5	472.3	9.3	966.2	
2	6.0	378.3	7.6	821.4	
3	3.5	260.7	5.2	566.0	
4	1.1	135.1	2.6	279.2	
	1.1	100.1	2.0	210.2	
Array Temperature		82.2	Deg F		
Channel	Base Check	(mmho/m)	Field Check (mmho/m)	
	Low	High	Low	High	
1	0.0	0.0	13.9	3846.8	
2	0.0	0.0	30.5	3568.4	
3	0.0	0.0	28.2	3039.7	
4	0.0	0.0	20.8	2038.0	
1 ⁻	0.0				
Deep	0.0	0.0	17.9	1922.9	
Medium	0.0	0.0	39.9	4053.9	
Shallow	0.0	0.0	44.8	5360.2	
Array Temperati		0.0		65.6	<u> </u>
Induction Constants MAI-A.	A 188				Last Edited on 16-DEC-2011,02:5
Induction Model		RtAP-WBM			
Caliper for Borehole Corr.		Density Caliper			
Hole Size for Borehole Cor	roction	N/A			
	rection				
Tool Centred		No			
Stand-off Type		Fins			
Stand-off		0.50			
Number of Fins on Stand-o	off	8.0000			
Stand-off Fin Angle		45.00	•		
Stand-off Fin Width		0.5000	inches		
Borehole Corr. Rm Source		Femperature Corr			
Temp. for Rm Corr.	MCG Exte	rnal Temperature	!		
Squasher Start		0.0020		re	
Squasher Offset		N/A		re	
· ·					
Borehole Normalisation					
DRM1	0.0000	DRC1		(0.0000
DRM2	0.0000	DRC2			0.0000
MRM1	0.0000	MRC1			0.0000
	0.0000				
MRM2		MRC2			0.0000
SRM1	0.0000	SRC1			0.0000
SRM2	0.0000	SRC2		(0.0000
	_				
Calibration Site Corrections	5	_	_		
Channel 1		0.00			
Channel 2		0.00			
Channel 3		0.00	mmhos/m	etre	
Channel 4		0.00	mmhos/m	etre	
A		0			
Apparent Porosity and Wat	er Saturation				
Archie Constant (A)		1.00			
Cementation Exponent (M)		2.00			
Saturation Exponent (N)		2.00			
Saturation of Water for Apo		100.00			
Resistivity of Water for Apo		0.05			
Resistivity of Mud Filtrate f	or Sw	0.00	ohm-m		
Source for Rt		0.00	I		
Source for Rxo		0.00			
High Resolution Temperatu	re Calibration	n MAI-A.A 188			
1		Magging		~ Г)	Field Calibration on 14-JUN-2006,13:4
		Measured	Calibrated(De		
Lower		1.00		3.80	
Upper		11.00	5	1.80	

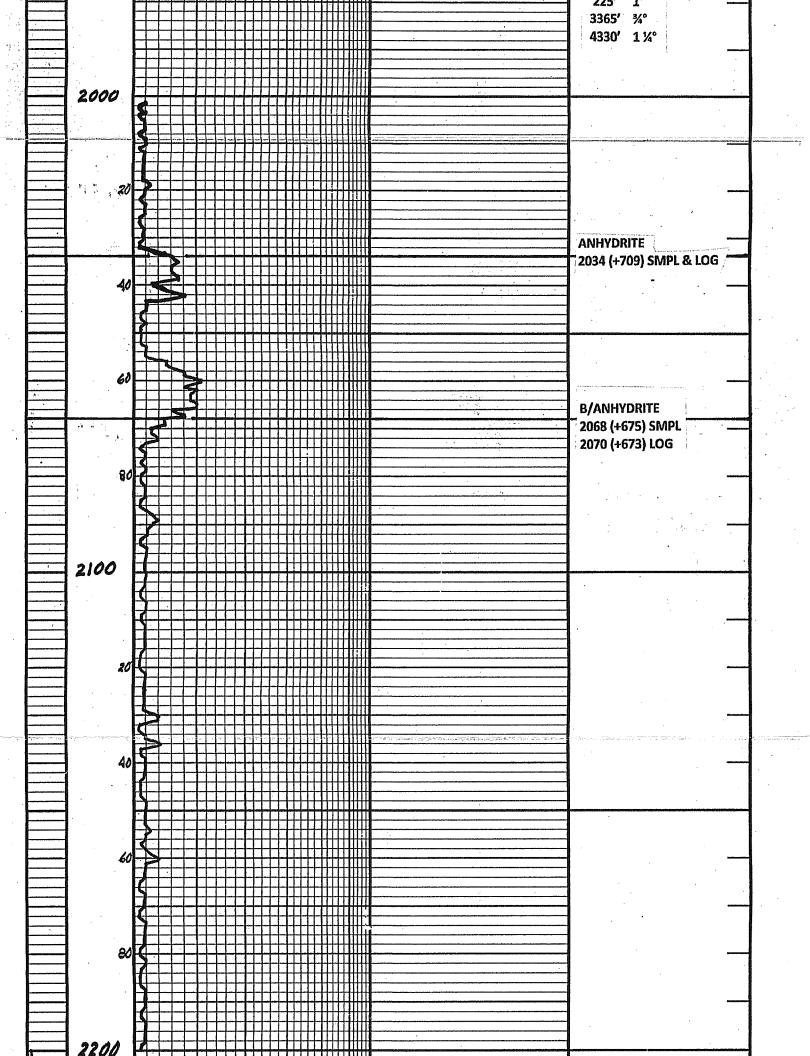
High Resolution Temp	erature C	Constants M	AI-A.A 188			Last Edited on
Pre-filter Length			11			
Caliper Calibration MF	PD-B 65					Base Calibration on 21-NOV-2011 14:58 Field Calibration on 14-DEC-2011 10:36
Base Calibration Reading No 1		Ме	asured 13999	Calibrate	or Size (in) 3.99	
2 3			22481 30982		5.98 7.97	
4 5			39297 48432		9.86 11.92	
6			N/A		N/A	
Field Calibration	м	easured Cali		Actual (Caliper (in)	
			6.04		5.98	
Photo Density Calibrat	ion MPL)-B 65				Base Calibration on 21-NOV-2011 14:42 Field Check on 14-DEC-2011 10:33
Density Calibration Base Calibration		Me Near	asured Far	Calibr Near	ated (sdu) Far	
Reference 1 Reference 2		60841 24364	28249 2437	59556 24941	30836 2541	
Field Check at Bas	e	1234.7	1185.8			
Field Check		1233.5	1181.3			
PE Calibration Base Calibration		Meas	ured		Calibrated	
Background	WS 223	WH 1098	Ratio		Ratio	
Reference 1 Reference 2	22974 6577	60634 24217	0.382 0.275		0.371 0.272	
Field Check at Bas						
	223.4	1098.4				
Field Check	223.3	1095.5				
Density Constants MP	PD-B 65					Last Edited on 16-DEC-2011,02:55
Density Source Id Nylon Calibrator Num Aluminium Calibrator Density Shoe Profile Caliper Source for Pro PE Correction to Density	Number ocessing	D	P57072E DNCE695 DACD698 8 inch ensity Caliper Not Applied	5 3 1 7		
Mud Density Mud Density Z/A Mult Mud Filtrate Density Dry Hole Mud Filtrate DNCT CRCT Density Z/A Correctio		1.13 1.11 1.00 1.00 0.00 0.00 Hybric	3 gm) gm) gm) gm	//cc //cc //cc //cc		
Matrix Density (gm/co			Depth (ft)			

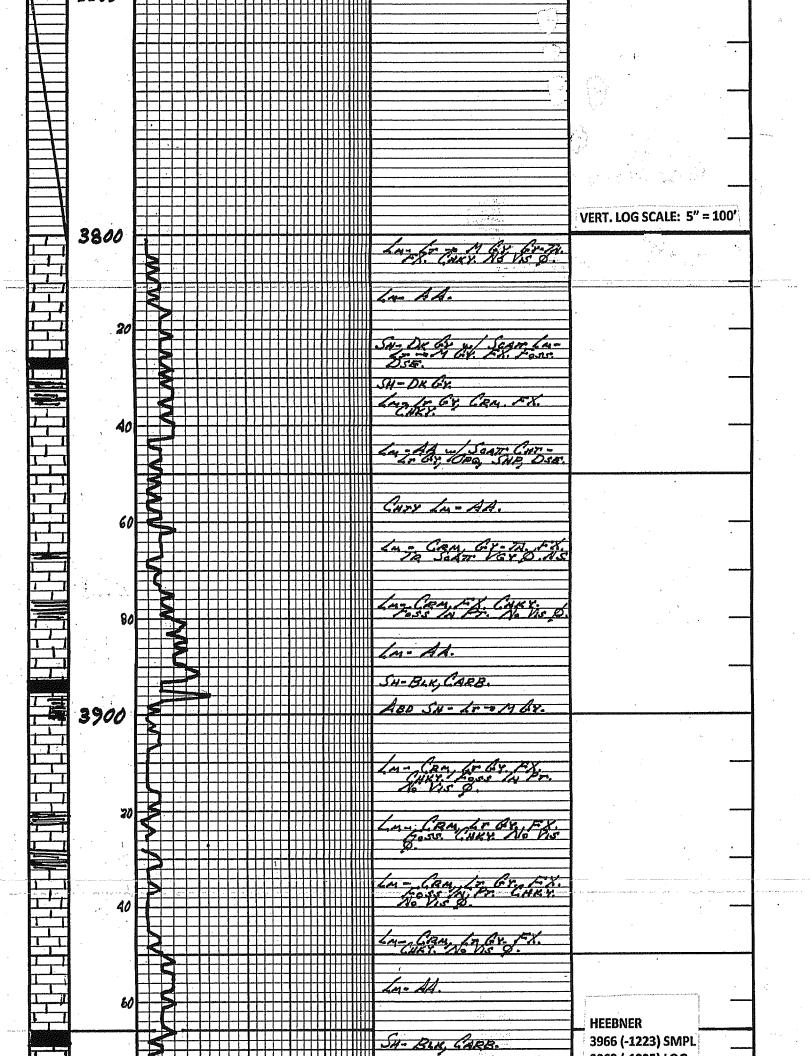
Matrix Density (gm/cc) 2.71 0.00 Depth (ft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

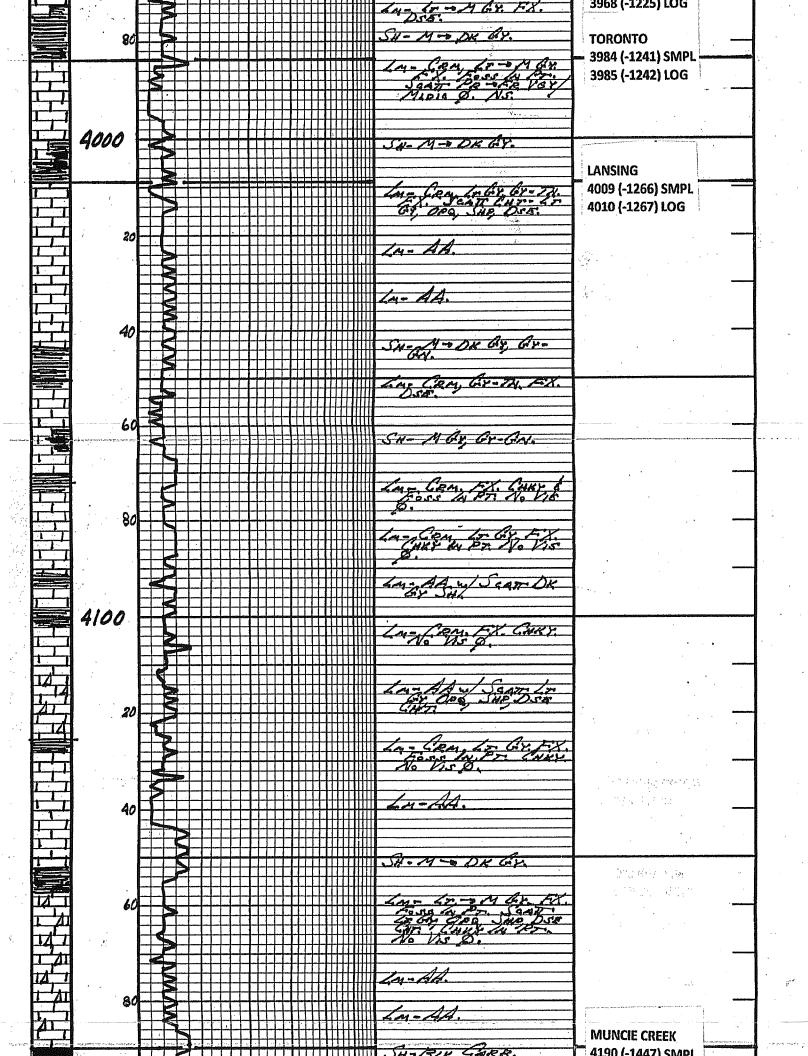


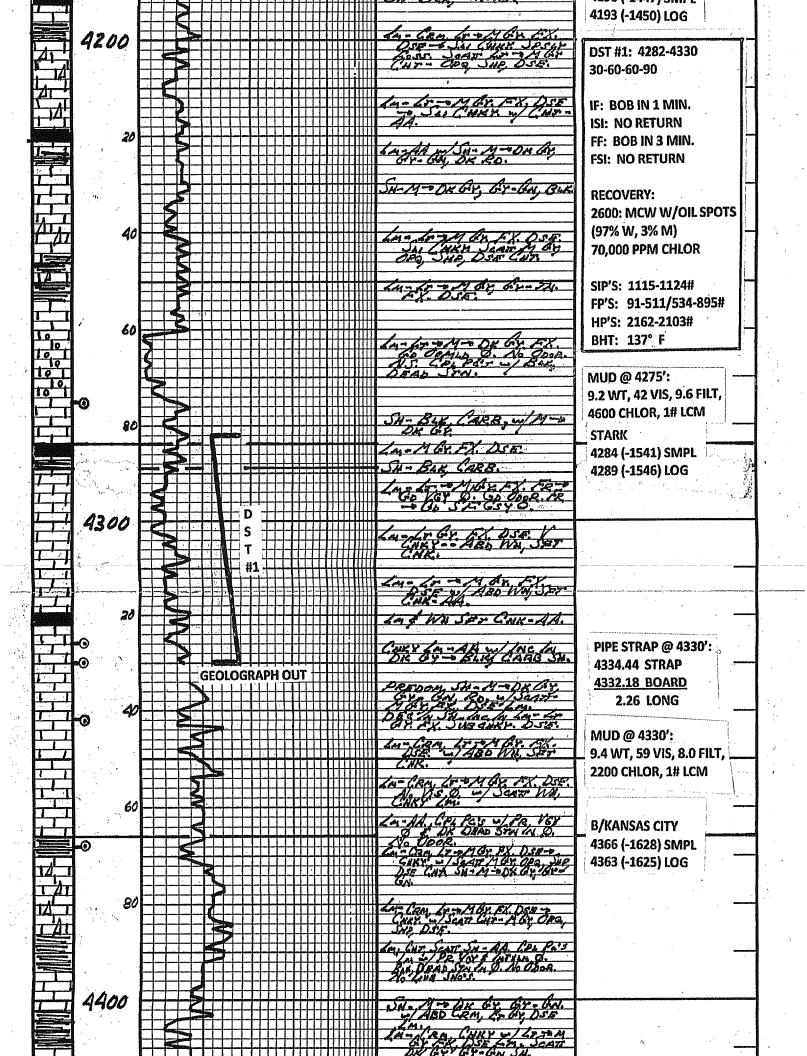
COMPANY		MCCOY PETROLEUM CORPORATION									
WELL		M-M DIEL UNIT "A" # 1-8									
FIELD		WILDCAT									
PROVINCE/COL	JNTY	LANE									
COUNTRY/STA	TE	U.S.A. / KANSAS									
Elevation Kelly Bushing	2743.00	feet	First Reading	4699.00	feet						
Elevation Drill Floor	2741.00	feet	Depth Driller	4730.00	feet						
Elevation Ground Level	2733.00	feet	Depth Logger	4735.00	feet						
W eather	ford	MICRORESIST	IVITY LOG			40 Vears of Wire ine 1970 2010					

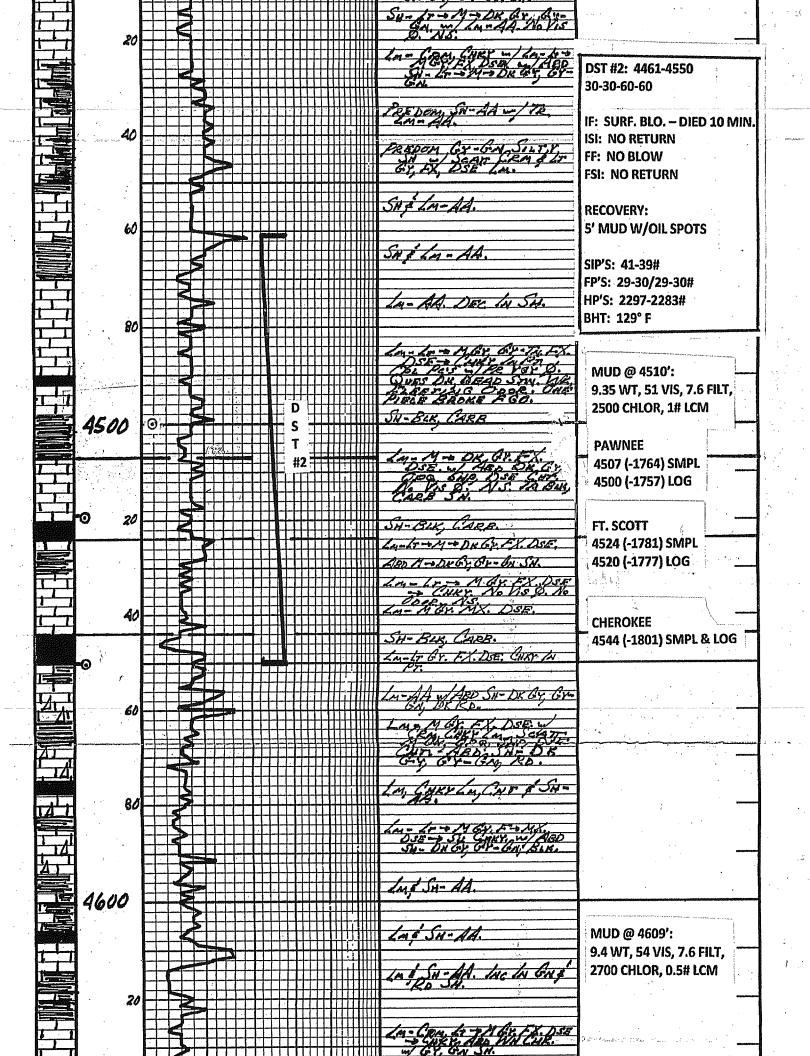
	MISSISSIPPIAN 4662(-1919)		FT. SCOTT 4520 (-1777)	B/KANSAS CITY 4363 (-1625)	STARK 4289 (-1546)		HEEBNER 3968 (-1225)	ANHYDRITE 2034 (+709)	FORMATION TOPS LOG	GEOLOGIST ON WELL: Jerry A. Smith	GEOLOGICAL SUPERVISON FROM: 3750	SAMPLES EXAMINED FROM: 3800	DRILLING TIME KEPT FROM: 3800	SAMPLES SAVED FROM: 3800	API No. 15-101-22334	MUD UP: 3213 TYPE MUD: Chemical		SPUD: 12/07/11 COMP. 12/16/11	CONTRACTOR: VAL Energy, Rig #7	COUNTY: Lane STATE: KS	SEC. 8 TWSP. 20 RNG. 27W	LOCATION: NW-NW-SE	FIELD: Wildcat	LEASE: M-M Diel Unit "A" #1-8	COMPANY: McCoy Petroleum Corporation		GEOLOGIST'S R DRILLING TIME and S		CERTIFIED PETROLEUM GEOLOGIST	JERRY A. SMITH
	4665 (-1922)	4544 (-1801)	4524 (-1781)	4366 (-1628)	4289 (-1546)	4009 (-1266)	3966 (-1223)	2034 (+709)	SAMPLES		TO: RTD	TO: RTD	TO: RTD	TO: RTD	Weatherford: DIL, DENS-NEU,		PRODUCTION: D & A	SURFACE: 8 5/8" @ 228'	CASING	KB	Measurements Are All From:	G.L. 2733	D.F.	K.B. 2743	ELEVATIONS		ST'S REPORT and SAMPLE LOG		JM GEOLOGIST	SMITH
	-		dilli dilli vdrit		E	0 0 0 0	0 0 0		Indston		Shal			GE arb :	IN E				0 0		4	∆ ∆ ∆ ∆ ∆		Do	lomi	Z Z				
D)EPT	ĨH					l	PER	E IN I FOOT tion Ind	•				S	AMP	LE	DES	SCR	IPTI	ONS			D.	S.T.	2	ЕТЕ): Т	CTOR RILOBIT	Ē		
													-//# -///- -///-							· · · · · · · · · · · · · · · · · · ·			S.ł		s:	and the second se	• •			

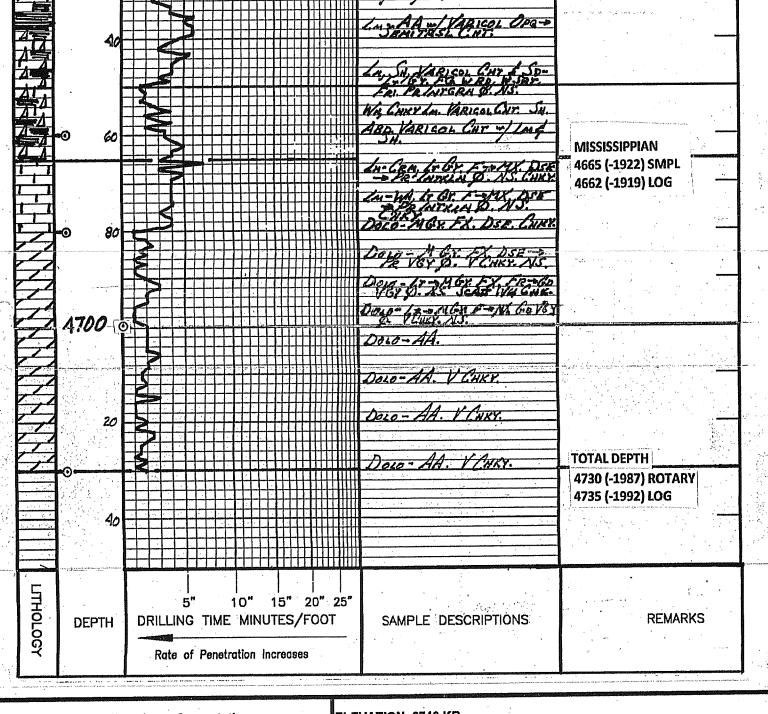












COMPANY McCoy Petroleum Corportation	ELEVATION 2743 KB										
LEASE M-M Diel Unit "A" #1-8											
LOCATION NW-NW-SE	SEC 8	TWP 20	RGE 27W		: 1 1979-1999-1999-1999						
COUNTPrinted from NeuraView 12/19/11	STATE KS		· · · · · · · · · · · · · · · · · · ·	• : 	An incompanya ana ana ana ana ana ana ana ana ana						