## ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

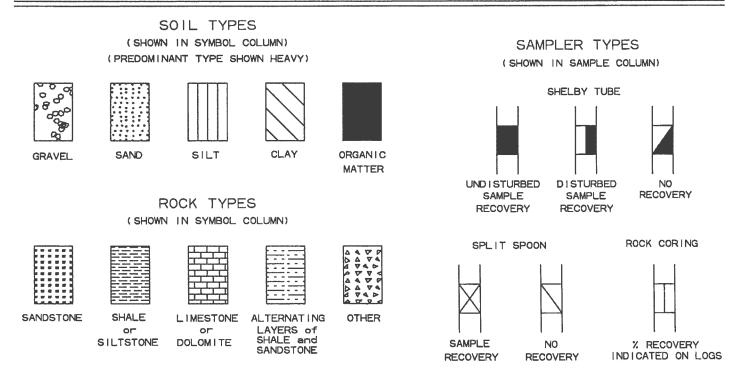


## SUBSURFACE INVESTIGATION

STATE JOB NO		061349	
FEDERAL AID PROJEC	CT NO	STPF-9061(5)	
BAU	XITE & NOR	THERN RR SPUR STR. & AI	PPRS. (S)
STATE HIGHWAY	183	SECTION	1
IN		SALINE	COUNT
LETTING OF		JANUARY 13, 2016	

The information contained herein was obtained by the Department for design and estimating purposes only. It is being furnished with the express understanding that said information does not constitute a part of the Proposal or Contract and represents only the best knowledge of the Department as to the location, character and depth of the materials encountered. The information is only included and made available so that bidders may have access to subsurface information obtained by the Department and is not intended to be a substitute for personal investigation, interpretation and judgment of the bidder. The bidder should be cognizant of the possibility that conditions affecting the cost and/or quantities of work to be performed may differ from those indicated herein.

## LEGEND



## TERMS DESCRIBING CONSISTENCY OR CONDITION

GRANU	LAR SOIL		CLAY	CL/	Y-SHALE	s	HALE
'N' Value	Density	'N' Value	Consistency	'N' Value	Consistency	'N' Value	Consistency
0-4	Very Loose	0-1	Very Soft	0-1	Very Soft		
5-10	Loose	2-4	Soft	2-4	Soft	31-60	Soft
11-30	Medium Dense	5-8	Medium Stiff	5-8	Medium Stiff	0ver 60	
31-50	Dense	9-15	Stiff	9-15	Stiff	More than	2'
0ver 50	Very Dense	16-30	Very Stiff	16-30	Very Stiff	Penetratio	on
		31-60	Hard	31-60	Hard	in 60 Blow	sı Medium Haro
		0ver 60	Very Hard	0ver 60	Very Hard	Less than	2'
						Penetratio	on
						in 60 Blow	sı Hard

- 1. Ground water elevations indicated on boring logs represent ground water elevations at date or time shown on boring log. Absence of water surface implies that no ground water data is available but does not necessarily mean that ground water will not be encountered at locations or within the vertical reaches of these borings.
- 2. Borings represent subsurface conditions at their respective locations for their respective depths. Variations in conditions between or adjacent to boring locations may be encountered.
- Terms used for describing soils according to their texture or grain size distribution are in accordance with the Unified Soil Classification System.

Standard Penetration Test – Driving a 2.0" O.D., 1-3/8" I.D. sampler a distance of 1.0 foot into undisturbed soil with a 140 pound hammer free falling a distance of 30 inches. It is customary to drive the spoon 6.0 inches to seat into undisturbed soil, then perform the test. The number of hammer blows for seating the spoon and performing the test are recorded for each 6 inches of penetration on the drill log. The field "N" Value  $(N_f)$  can be obtained by

adding the bottom two numbers for example:  $\frac{6}{8-9} \Rightarrow 8+9=17 blows / ft$ . The "N" Value corrected to 60% efficiency (N<sub>60</sub>) can be obtained by multiplying N<sub>f</sub> by the hammer correction factor published on the boring log.

			HWY. & TRANS. DEPARTMENT		BORIN PAGE	G NO 1		F 2					
			DIVISION - GEOTECHNICAL SEC. 061349 Saline County		DATE:	!			ober	1 20	113		
JOB N			Bauxite & Northern RR Spur Str. & Apprs.		TYPE O	F DR				,		ugei	. &
JOB IV.	ANIE.		S.H. 183		(11120	,		•		amor			
STATI	ON:		113+09		EQUIPM	1ENT	:	CN	ME 8	50 v	// CN	Æ	
LOCA			27' Right of Center Line of Construction					Au	toma	atic I	lamı	ner	
			David Allen		наммі	er co	DRREC	TION	FAC	FOR:		1.23	
COM	PLET	ION	N DEPTH: 58.2										
D	s	S											
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P T	М	M P	DESCRIPTION OF MATERIAL	SOIL				H	J.C.	,OW		S	R
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	0 -	Е			PLASTIC LIMIT	% MOIST.	LIQUID	DRY WEIGHT	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.		
FT.	L	S	SURFACE ELEVATION: 365.0		물급	%	35	D.	EB.	ž	PE		
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5			Moist, Stiff, Reddish Brown to Brown Sandy Clay							-	5		
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10				1							6		
		$\triangle$								8-	14		
			Moist, Medium Dense, Brown and Gray Silty										
			Sand									:	
15	XX			1							8		
	N)	$\bigvee$								10	-12		
L	N		Moist, Very Stiff, Gray Clay with Silt and Sand										
			Seams										
20										_	5		
		$\bigvee$			İ					8	3-9		
			Moist, Very Stiff, Dark Brown Clay with Silt and							1			
			Sand Partings										
	N	1											
25	X									100000	6		
L.										9	-11		
			Moist, Very Stiff, Brown and Gray Clay with Silt										
30	//	1	and Sand Partings								9		
	N	$\sqrt{\lambda}$	3-							1	3-15		
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JOB N			061349 Saline County		DATE:				ober	1, 20	13		
JOB N			Bauxite & Northern RR Spur Str. & Apprs.		TYPE O	F DR						uger	&
JODIN	AIVII.		S.H. 183							amon			
STATI	ON:		113+09		EQUIPM	1ENT	:	Cl	ME 8	350 w	/ CN	Æ	
LOCA			27' Right of Center Line of Construction					Au	toma	atic H	lamr	ner	
			Pavid Allen		HAMME	ER CO	ORREC	TION	FAC	TOR:		1.23	
COM	PLET	1OI	N DEPTH: 58.2										
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<b>'</b> ''	0	Ē			PLASTIC LIMIT	% MOIST.	<u>5</u>	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS	PER 6-IN.	K	ע
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	XX	$\times$								10-	13	İ	
	$\mathbb{N}$		Moist, Very Stiff, Brown and Gray Clay with Silt										
	$\mathbb{N}$		and Sand Seams										
40										8			
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			Moist, Very Stiff, Brown and Gray Clay with Silt										
			Partings					Ì					
45	7	V	Moist, Very Hard, Brown and Gray Clay with Silt	-						10			
			Partings							38- (1	60 "\		
			CANDSTONE Light Brown Boorly Comonted							''	,		
			SANDSTONE - Light Brown, Poorly-Cemented (Bauxite)										
			(Dauxillo)										
50	77.7	1		1						6	0	-	
			SANDSTONE WITH REDDISH BROWN CLAY					Ì		(1	)		
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			Bedded, Cemented, with Slight Dip (Bauxite)				İ						
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55			SANDSTONE WITH REDDISH BROWN CLAY										
			LAYERS - Reddish Brown and Gray, Medium									100	36
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L			(Saamo)										
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JOB N			061349 Saline County		DATE:				mber	30.	2013		
JOB N			Bauxite & Northern RR Spur Str. & Apprs.		TYPE O	F DR		-				Aug	er
			S.H. 183									Ū	
STAT	ION:		113+10		EQUIPM	1ENT	:	Cì	ME 8	350 v	v/ CN	Æ	
LOCA	TION	:	37' Left of Center Line of Construction					Au	itoma	atic l	lamı	mer	
LOGG	ED B	y: T	racy Henderson		НАММІ	ER CO	DRREC	TION	FAC'	TOR:		1.23	
COM	PLET	OI	N DEPTH: 41.3										
D	S	S											
E P	Y	Α							Ţ.	S		%	%
T	М	M P	DESCRIPTION OF MATERIAL	SOIL				H	U.F	NO.		S	R
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	O L	Ε			PLASTIC LIMIT	% MOIST.		\ <u>\</u>	LBS PER CU.FT.	NO. OF BLOWS	PER 6-IN.	1	
FT.	_	S	SURFACE ELEVATION: 366.6		되김	%	LIQUID	Ä	EB	ž	PE		
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		X									3		
	133										, ,		
			Moist, Medium Dense, Dark Gray Sand with Clay										
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20	N												
	N	X								1	6 -12		
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25			Moist, Very Stiff, Gray and Brown Clay with Silt								•		
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	XX												
	NN.												
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									or 2	30, 2013		
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					naww	ER CC	JKKEC	HON F/	CIC	JK:	1,43	
	PLE		N DEPTH: 41.3						Т		1	
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			Maries Very Chief Convey and Brown Clay with Sand									
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JOB NO. C JOB NAME: E	061349 Saline County Bauxite & Northern RR Spur Str. & Apprs. S.H. 183		DATE: TYPE O	F DR		: H	lollo Dia	amon	m Au I Cori	ing	٢
	113+34 29' Left of Center Line of Construction avid Allen		EQUIPM			Au	toma	350 w/ atic H	amme		
COMPLETION											
SAMPLES SYMBOL FT.	DESCRIPTION OF MATERIAL SURFACE ELEVATION: 352.9	SOIL GROUI	PLASTIC LIMIT	% MOIST.	LIQUID LIMIT	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS	ا نوا	S F	% ? ?
10 15	Moist, Very Stiff, Brown and Gray Clay with Silt and Sand Partings							6 8-1 7 10-	12		
20	Moist, Very Stiff, Brown and Gray Clay with Sand Seams							7 10-	12		
25 — — — — — — — — — — — — — — — — — — —	Moist, Hard, Brown and Gray Clay with Sand Seams							1 13-		We start to the start of the st	
30	Moist, Hard, Dark Brown Clay with Slickensides							14	8	and the state of t	
REMARKS:	1		<u> </u>			_1					

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JOB N			061349 Saline County		DATE:				ber	2, 20	13		
JOB N			Bauxite & Northern RR Spur Str. & Apprs.		TYPE O	F DRI			ollo	w St	em A		
			S.H. 183							amor		_	
STATI			113+34		EQUIPM	IENT	:			50 v			
LOCA			29' Left of Center Line of Construction			`D ()	ND D E CE			atic I		ner 1.23	
			Pavid Allen I DEPTH: 48		HAMMI	SK CL	JRREU	HON	PAC.	IOK:		1.23	
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Н	0	L E			PLASTIC LIMIT	% MOIST		DRY WEIGHT	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.	R	D
FT.	L	- 1	SURFACE ELEVATION: 352.9		PLAST LIMIT	% №	LIQUID	DR	LBS				
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40			SANDSTONE WITH REDDISH BROWN CLAY										
<u> </u>			SEAMS - Reddish Brown and Gray, Medium									86	30
			Bedded, Poorly- Cemented, with Slight Dip	Ė									
			(Bauxite)										-
45												56	8
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MATERIALS DIVISION - GEOTECHNICAL SEC.		ORINO .GE	3 NC 1		F 2					
JOB NO. 061349 Saline County	DA	TE:			Octo		-			
JOB NAME: Bauxite & Northern RR Spur Str. & Apprs. S.H. 183	TY	PE OF	DRI	ILLING	i: H			em A nd Co		
STATION: 113+34	EQ	UIPMI	ENT	;	CN			v/ CN	_	
LOCATION: 27' Right of Center Line of Construction					Au	tom	atic l	Hamr		
LOGGED BY: David Allen	HA	MME	R CC	ORREC	TION	FAC	TOR:		1.23	
COMPLETION DEPTH: 48.4	$\neg \tau$	Т		<u> </u>					T	
D S A A P M M DESCRIPTION OF MATERIAL GRO  H B L S SURFACE ELEVATION: 352.3		PLASTIC LIMIT	% MOIST.	LIQUID LIMIT	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS	PER 6-IN.	% S C R	% R Q D
TIT O GORN AGE ELEVATION. 002.0	,		٥,							
Moist, Very Stiff, Gray and Brown Clay with Silt and Sand Partings							10	6 9 13		
Moist, Very Stiff, Gray and Brown Clay with Sand Seams  Moist, Very Stiff, Gray and Brown Clay with Sand							9	6 -14		
Partings							1:	3-16		
Moist, Hard, Gray and Brown Clay with Sand Seams								11 4-20		
SANDSTONE - Light Brown, Poorly-Cemented (Bauxite)								30		
		L							1	1

			HWY. & TRANS. DEPARTMENT DIVISION - GEOTECHNICAL SEC.		BORING PAGE			F 2					
JOB N			061349 Saline County		DATE:				her	2, 20	13		
JOB N			Bauxite & Northern RR Spur Str. & Apprs.		TYPE O	F DR						uger	&
JOB II			S.H. 183									oring	
STATI	ON:		113+34		EQUIPM	IENT	:			350 w			
LOCA			27' Right of Center Line of Construction					Aut	toma	atic F			- 1
			David Allen		HAMMI	ER CO	)RREC	TION	FAC	ror:		1.23	
COM	PLET	IOI	N DEPTH: 48.4				T	T					
D	S	S											
E	Y	Α							FT.	۸S		%	%
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н	В	L		GROU	12	IST.	la.	VEI	ER	F BI	Ż	C R	Q D
	O L	E			PLASTIC LIMIT	% MOIST	LIQUID	DRY WEIGHT	LBS PER CU.FT	NO. OF BLOWS	PER 6-IN.	, I	
FT.	-	S	SURFACE ELEVATION: 352.3			%	35	ă	<u> </u>				
			SANDSTONE - Light Brown and Gray, Medium							(2	)		
			Bedded, Cemented, with Slight Dip (Bauxite)									94	71
	777												
									,				
40													
												100	56
			SANDSTONE WITH REDDISH BROWN CLAY								-		
			LAYERS - Reddish Brown and Gray, Medium										
		H-	Bedded, Poorly- Cemented, with Slight Dip								ı		
45			(Bauxite)										
												92	46
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	27.77		Boring Terminated			-				-	***************************************		
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JOB N			Bauxite & Northern RR Spur Str. & Apprs.		түре о	F DR						ugei	&
300.1	LE IVILLA		S.H. 183								nd Co		
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LOCA			25' Left of Center Line of Construction		DQUIII	1101 4 5	•				Hami		
			David Allen		НАММ	en C	או פורר	TION	FAC	TOR.		1.23	
					ITAZIALIAI		MILLO	11011	176				
	PLE		N DEPTH: 63.5			1	I						
DEPTH	S Y M B O	S A M P L	DESCRIPTION OF MATERIAL	SOIL GROU	1 🖺	% MOIST.	<u>6</u>	DRY WEIGHT	LBS PER CU.FT.	NO. OF BLOWS	PER 6-IN.	% S' C R	% K Q D
	Ľ	Е			PLAST	M	LIQUID	RY	BS 1	0.0	ER (		
FT.		S	SURFACE ELEVATION: 367.5			8		Ω	그	Z	교		
5		X	Moist, Medium Dense, Brown Sand with Gray Clay and some Gravel (Sandstone Fragtments)					and the state of t		7	9 -8		
10		X	Moist, Medium Dense, Brown and Gray Sand with Clay								-10		
		X	Moist, Very Stiff, Gray Clay with Sand Seams							9	5 -15		
20		X	Moist, Very Stiff, Gray Clay with Sand Partings								7 0-14		
<u>25</u> 		$\times$	Moist, Very Stiff, Gray and Brown Clay with Sand Seams	d							10 2-15		
30			Moist, Hard, Gray and Brown Clay with Sand Partings							1.7	10 5-22		
35	1	$\sqrt{>}$	1	1							8	1	
REI	MARI	KS:											

JOB NO. 061349 Saline County JOB NAME: Bauxite & Northern RR Spur Str. & Apprs. JOB NAME: Bauxite & Northern RR Spur Reddish Brown, Medium Bedded, Poorly-Cemented, with Slight Dip (Bauxite)  JOB NAME: Bauxite & Northern RR Spur Reddish Brown, Medium Bedded, Poorly-Cemented, with Slight Dip (Bauxite)  JOB NAME: Control of the Spur Str. & Apprs. JOB NAME: Control of the Spur Str. & Spur Str. & Spur Str. & Spur Str. & Spur Str. & Spur Str. & Spur Str. & Spur Str. & Spur Str. & Spur Str. & Spur Str. & Spur Str. & S				HWY. & TRANS. DEPARTMENT DIVISION - GEOTECHNICAL SEC.		BORII PAGE			F 2			~		
JOB NAME   Bauxite & Northern RR Spur Str. & Appris.   S.H. 183   STATION: 114-72   EQUIPMENT: CMB 850 w CME   Automatic Hammer   LOCATION: 25' Left of Center Line of Construction   EQUIPMENT: CMB 850 w CME   Automatic Hammer   LOCATION: 25' Left of Center Line of Construction   EQUIPMENT: CMB 850 w CME   Automatic Hammer   LOCATION: 25' Left of Center Line of Construction   EQUIPMENT: CMB 850 w CME   Automatic Hammer   LOCATION: 25' Left of Center Line of Construction   EQUIPMENT: CMB 850 w CME   Automatic Hammer   LOCATION: 25' Left of Center Line of Construction   EQUIPMENT: CMB 850 w CME   Automatic Hammer   LOCATION: 25' Left of Center Line of Construction   EQUIPMENT: CMB 850 w CME   Automatic Hammer   LOCATION: 25' Left of Construction   EQUIPMENT: CMB 850 w CME   Automatic Hammer   LOCATION: 25' Left of CMB 850 w CME   Automatic Hammer   LOCATION: 25' Left of CMB 850 w CME   Automatic Hammer   LOCATION: 25' Left of CMB 850 w CMB   EQUIPMENT: CMB 850 w CMB   Automatic Hammer   LOCATION: 25' Left of CMB 850 w CMB   Automatic Hammer   LOCATION: 25' Left of CMB 850 w CMB   EQUIPMENT: CMB 850 w CMB   Automatic Hammer   LOCATION: 25' Left of CMB 850 w CMB   Automatic Hammer   LOCATION: 25' Left of CMB 850 w CMB   Automatic Hammer   LOCATION: 25' Left of CMB 850 w CMB   Automatic Hammer   LOCATION: 25' Left of CMB 850 w CMB   Automatic Hammer   LOCATION: 25' Left of CMB 850 w CMB   Automatic Hammer   LOCATION: 25' Left of CMB 850 w CMB   Automatic Hammer   LOCATION: 25' Left of CMB 850 w CMB   Automatic Hammer   LOCATION: 25' Left of CMB 850 w CMB   Automatic Hammer   LOCATION: 25' Left of CMB 850 w CMB   Automatic Hammer   LOCATION: 25' Left of CMB 850 w CMB   Automatic Hammer   LOCATION: 25' Left of CMB 850 w CMB   Automatic Hammer   LOCATION: 25' Left of CMB 850 w CMB   Automatic Hammer   LOCATION: 25' Left of CMB 850 w CMB   Automatic Hammer   LOCATION: 25' Left of CMB 850 w CMB 850 w CMB   Automatic Hammer   LOCATION: 25' Left of CMB 850 w CMB 850 w CMB 850 w CMB 850 w CMB 850 w CMB 850 w CMB 850 w CMB										ber 7	7-8. 2	2013		
S.H. 183 STATION: 114+72 LOCATION: 25 Left of Center Line of Construction LOGGED BY: David Alten LOGGED BY: David By: Dav													uger	&
LOCATION: 25 Left of Center Line of Construction LOCATION: 25 Left of Center Line of Construction LOCATION: 25 Left of Center Line of Construction LOCATION: 1.23  DESCRIPTION OF MATERIAL T B P M M DESCRIPTION OF MATERIAL T B P M M DESCRIPTION OF MATERIAL T B P M M DESCRIPTION OF MATERIAL T B P M M DESCRIPTION: 367.5  SURFACE ELEVATION: 367.5  Moist, Hard, Gray and Brown Clay with Sand Seams  Moist, Hard, Gray and Brown Clay with Sand Partings  Moist, Hard, Gray and Brown Clay with Sand Partings  T SANDSTONE WITH CLAY LAYERS - Reddish Brown, Poorly-Cemented (Bauxite) SANDSTONE WITH CLAY LAYERS - Reddish Brown, Poorly-Cemented, with Slight Dip (Bauxite)  SANDSTONE WITH CLAY SEAMS - Reddish Brown, Medium Bedded, Poorly-Cemented, with Slight Dip (Bauxite)  Boring Terminated  Boring Terminated	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		•										
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AND BLACK SANDSTONE WITH CLAY SEAMS - Medium Bedded, Poorly-Cemented, with Slight Dip (Bauxite)  Boring Terminated  65  70		<b>*</b>		Slight Dip (Bauxite)										
AND BLACK SANDSTONE WITH CLAY SEAMS - Medium Bedded, Poorly-Cemented, with Slight Dip (Bauxite)  Boring Terminated  65  70	<u>-</u>	<b>222</b>	3		_									
AND BLACK SANDSTONE WITH CLAY SEAMS - Medium Bedded, Poorly-Cemented, with Slight Dip (Bauxite)  Boring Terminated  65  70		- 1333 - 1333 - 1335 -												
- Medium Bedded, Poorly-Cemented, with Slight Dip (Bauxite)  Boring Terminated  65  70	60	-[333												
Dip (Bauxite)  Boring Terminated  70	<u> </u> -	<i>28</i> 1											100	82
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ARKANSAS HWY. & TRANS. DEPARTMENT MATERIALS DIVISION - GEOTECHNICAL SEC.					BORING NO. 6 PAGE 1 OF 2											
	JOB NO. 061349 Saline County JOB NAME: Bauxite & Northern RR Spur Str. & Apprs.						DATE: October 8, 2013  TYPE OF DRILLING: Hollow Stem Auger &									
10B N	JOB NAME: Bauxite & Northern RR Spur Str. & Apprs. S.H. 183					Diamond Coring										
STATI						EQUIPMENT: CME 850 w/ CME										
STATION: 114+89  LOCATION: 41' Left of Center Line of Construction						Automatic Hammer										
1			David Allen		HAMMER CORRECTION FACTOR: 1.23											
			N DEPTH: 58.1		12.01211		314470									
			V DEI 111. 30.1													
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FT.		S	SURFACE ELEVATION: 366.6		42	%	33	Q		Ž	PI					
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			Moist, Medium Dense, Brown Sand with Clay													
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			Moist, Very Stiff, Gray and Brown Clay with Sand Seams													
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REMARKS:																

ARKANSAS HWY. & TRANS. DEPARTMENT MATERIALS DIVISION - GEOTECHNICAL SEC.					BORIN PAGE			F 2								
JOB NO. 061349 Saline County					DATE: October 8, 2013											
JOB NAME: Bauxite & Northern RR Spur Str. & Apprs.					TYPE OF DRILLING: Hollow Stem Auger &											
	S.H. 183						Diamond Coring									
STAT	STATION: 114+89					EQUIPMENT: CME 850 w/ CME										
LOCATION: 41' Left of Center Line of Construction						Automatic Hammer										
LOGGED BY: David Allen HAMMER CORRECTION FACTOR: 1.23																
COMPLETION DEPTH: 58.1																
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L .			Brown, Medium Bedded, Poorly-Cemented, with													
55			Slight Dip (Bauxite)													
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