



M Whitefield

Reviewed & Approved By

Daily Drilling Report

AFE # :	100054.046.01	AFE DEPTH	17,495	AFE DAYS	27
		LAST BOP TEST	07/22/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	8/1/16	DAY:	4
OPERATIONS:		Drig		DEPTH (MD):	1670	DEPTH (TVD):	1670	PROGRESS:	1,265		
CONTRACTOR & CONTACT:		LATSHAW 5/ FLAKE SEXTON		SUPV:	Rogers / Brunette	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
633	87	365	65	58							

[illegible]

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION				
BIT NO		2		1		MW		10.5	Bulk gel	3	RU/RD		21.5	
SIZE		12 1/4		17.5		VIS		29	Paper	38	DRLG	18.5	23.0	
MFG		Reed		Reed		PV		0	Lime	6	REAM/WASH			
TYPE		TK76		TFFX55195-A6		YP		0	MF-55	2	SURVEY			
SER. NO		A227774		E194289		GELS		0	Soda ash	1	TRIP	2.5	6.5	
NOZZLES		7/20's		5/20's		pH		10	Poly vis II	1	RIG SERV		2.0	
TFA		2.1465				WL		88.1			CIRC & COND		0.5	
OUT		1670		405		HP/HT		0			RUN CSG/CMT		4.5	
IN		405		85		FC		0 / 32			WOC		4.0	
FOOTAGE		1265				CL		186,000			NU/TST BOP		8.5	
HOURS		18.5				Ca		5280			RIG REPAIR	1.0	1.0	
FT/HR		68				Sand		0			LOG			
						Solids		0.66			FISHING/STUCK			
						Oil %		0			CORE			
											DST			
											KICK			
											LOST CIRC.			
BIT #				DULL COND:										
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC	2.0	2.0
								Cum Mud \$		Delivery	1	TOTAL (Daily/cum)	24.0	73.5

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	15:00	1.00			PU BHA #2			
15:00	16:30	1.50			TIH - Tag @ 351'			
16:30	17:00	0.50			PT Csg 1000 psi for 30mins			
17:00	18:30	1.50			Drill out float equip.			
18:30	22:30	4.00	405	991	Drill Intermediate	179	25	147
22:30	23:30	1.00			Trouble shoot MWD (Rig display not functioning - install new cable)			
23:30	14:00	14.50	991	1670	Drill Intermediate	123	12	47
					Note: Working on #2 pump			
TOTAL HRS:		24.0	Motor Specs:	8", 7:8 Lobe, 4.0 stg, 1.83° Fixed, .16 rpg (MFG)		DAILY AVG		68

SHOWS/FLARE REPORT				BHA	#2	SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.5 ft	469 ft	3.00°	110.9
				Motor	30.3 ft	556 ft	2.60°	124.1
WASTE DISPOSAL SITE:				Shock sub	14.9 ft	648 ft	2.60°	131.3
DAILY FW (bbls)		CML FW		Stabilizer	6.1 ft	740 ft	1.30°	101.2
DAILY BW (bbls)		CML BW	3200	UBHO	2.4 ft	831 ft	1.00°	87.5
				MWD	30.1 ft	924 ft	1.00°	80.3
TOTAL DRILLED GAS		<div>DC SIZE</div> <div>8"</div> <div>DP SIZE</div> <div>5" - 4 1/2IF</div>		Stabilizer	7.2 ft	1109 ft	0.90°	72.6
GAS	Units			6 - 8" DC's	172.0 ft	1199 ft	0.80°	67.7
Background Gas:				XO	3.1 ft	1294 ft	0.60°	57.8
Connection Gas:				12 - 6" DC's	352.9 ft	1387 ft	0.40°	59.4
Trip Gas:				XO	2.9 ft	1482 ft	0.50°	53.2
Max Gas:				27jts HWDP	830.7 ft			
ACCIDENTS		FUEL (gals)						
NONE	Start	6550	BHA Length	1454.2 ft	SLOW PUMP RATES			
	Received		DRILL PIPE	216 ft		PSI	SPM	
	End	5146	WEIGHT OF BHA	179 M	Pump #1	130	40	
	Consumed	1404			Pump #2	110	40	

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12	87	95	364.40	8.68
2	National 12-P160	6	12		95		

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APE # :	100054.046.01	APE DEPTH	17,495	APE DAYS	27
		LAST BOP TEST	07/22/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	8/2/16	DAY:	5
OPERATIONS:		Drig		DEPTH (MD):	2780	DEPTH (TVD):	2780	PROGRESS:	1,110		
CONTRACTOR & CONTACT:		Latshaw 5 / Darrell Waites		SUPV:	Rogers / Brunette	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
720	106	443	65	71							

[illegible]

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION			
BIT NO		2		1		MW		10.5	Bulk gel	12	RU/RD		21.5
SIZE		12 1/4		17.5		VIS		30	Paper			23.0	46.0
MFG		Reed		Reed		PV		0	Lime	4	REAM/WASH		
TYPE		TK76		TFFX55195-A6		YP		0	MF-55		SURVEY		
SER. NO		A227774		E194289		GELS		0	Soda ash	13	TRIP		6.5
NOZZLES		7/20's		5/20's		pH		9.0	Poly vis II	4	RIG SERV	1.0	3.0
TFA						WL		88.4			CIRC & COND		0.5
OUT		2780		405		HP/HT		0			RUN CSG/CMT		4.5
IN		405		85		FC		0 / 32			WOC		4.0
FOOTAGE		2375				CL		185000			NU/TST BOP		8.5
HOURS		41.5				Ca		5120			RIG REPAIR		1.0
FT/HR		57				Sand		0			LOG		
						Solids		0.32			FISHING/STUCK		
						Oil %		0			CORE		
											DST		
											KICK		
											LOST CIRC.		
BIT #			DULL COND:										
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC	2.0
								Cum Mud \$		Delivery		TOTAL (Daily/cum)	24.0 97.5

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	17:30	3.50	1670	2010	Drill Intermediate	123	25	97
17:30	18:30	1.00			Rig Service			
18:30	14:00	19.50	2010	2780	Drill Intermediate	136	25	39
					Note: Working on #2 pump			

SHOWS/FLARE REPORT				BHA	#2	SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.5 ft	1576 ft	0.40°	56.8
				Motor	30.3 ft	1668 ft	0.40°	67.3
WASTE DISPOSAL SITE:				Shock sub	14.9 ft	1763 ft	0.40°	78
DAILY FW (bbls)		CML FW		Stabilizer	6.1 ft	1856 ft	0.60°	95.3
DAILY BW (bbls)		CML BW	3200	UBHO	2.4 ft	1951 ft	1.00°	101.8
				MWD	30.1 ft	2044 ft	1.10°	100
TOTAL DRILLED GAS		<div>DC SIZE 8"</div> <div>DP SIZE 5" - 4 1/2IF</div>		Stabilizer	7.2 ft	2139 ft	1.30°	92.3
GAS	Units			6 - 8" DC's	172.0 ft	2233 ft	1.40°	81.4
Background Gas:				XO	3.1 ft	2424 ft	1.60°	141.7
Connection Gas:				12 - 6" DC's	352.9 ft	2518 ft	0.40°	195.8
Trip Gas:				XO	2.9 ft	2706 ft	1.10°	297.8
Max Gas:				27jts HWDp	830.7 ft			
ACCIDENTS		FUEL (gals)						
None	Start	5298	BHA Length	1454.2 ft	SLOW PUMP RATES			
	Received		DRILL PIPE	1326 ft		PSI	SPM	
	End	4298	WEIGHT OF BHA	179 M	Pump #1	145	40	
	Consumed	1000			Pump #2	130	40	

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12	106	95	443.99	10.57
2	National 12-P160	6	12		95		

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		LAST BOP TEST	07/22/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	8/4/16	DAY:	7
OPERATIONS:		DRILLING		DEPTH (MD):	5133	DEPTH (TVD):	5131	PROGRESS:	847		
CONTRACTOR & CONTACT:		Latshaw 5 / Darrell Waites		SUPV:	Wallace / Garza	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
2050	180	752	60	120							

[illegible]

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION			
BIT NO		2		1		MW		8.95	Bulk gel	4	RU/RD		21.5
SIZE		12.25		17.5		VIS		53	Paper			23.0	81.0
MFG		Reed		Reed		PV		9	Lime	9	REAM/WASH		
TYPE		TK76		TFFX55195-A6		YP		35	MF-55	1	SURVEY		
SER. NO		A227774		E194289		GELS		18/21	Soda ash	1	TRIP		6.5
NOZZLES		7/20's		5/20's		pH		9.0	Poly vis II	2	RIG SERV	1.0	4.0
TFA		2.1465		1.533		WL		28	Caustic Soda	2	CIRC & COND		0.5
OUT		5133		405		HP/HT		0	Barite	24	RUN CSG/CMT		4.5
IN		405		85		FC		5/32			WOC		4.0
FOOTAGE		4728		320		CL		16000			NU/TST BOP		8.5
HOURS		76.5		3		Ca		1000			RIG REPAIR		1.0
FT/HR		62		107		Sand		1			LOG		
						Solids		3.2			FISHING/STUCK		
						Oil %					CORE		
											DST		
											KICK		
											LOST CIRC.		
BIT #				DULL COND:									
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC	2.0
								Cum Mud \$		Delivery		TOTAL (Daily/cum)	24.0 133.5

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	16:30	2.50	4286	4382	Drill Intermediate	130	25	38
16:30	17:00	0.50			Rig Service			
17:00	18:00	1.00	4382	4445	Drill Intermediate	130	25	63
18:00	18:30	0.50			Rig Service			
18:30	14:00	19.50	4445	5133	Drill Intermediate	180	32	35
TOTAL HRS:		24.0	Motor Specs:	8", 7:8 Lobe, 4.0 stq, 1.83° Fixed, .16 rpg (MFG)		DAILY AVG		37

SHOWS/FLARE REPORT				BHA	#2	SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.5 ft	4220 ft	0.60°	308
				Motor	30.3 ft	4315 ft	0.40°	319
WASTE DISPOSAL SITE:				Shock sub	14.9 ft	4408 ft	0.50°	325
DAILY FW (bbls)		CML FW		Stabilizer	6.1 ft	4502 ft	0.70°	284
DAILY BW (bbls)		CML BW	3200	UBHO	2.4 ft	4596 ft	0.10°	297.2
				MWD	30.1 ft	4690 ft	0.90°	241.7
TOTAL DRILLED GAS				Stabilizer	7.2 ft	4783 ft	1.10°	236.6
GAS	Units	DC SIZE 8"		6 - 8" DC's	172.0 ft	4877 ft	1.10°	241.2
Background Gas:				XO	3.1 ft	4972 ft	0.90°	234.7
Connection Gas:		DP SIZE 5" - 4 1/2IF		12 - 6" DC's	352.9 ft			
Trip Gas:				XO	2.9 ft			
Max Gas:				27jts HWDp	830.7 ft			
ACCIDENTS				FUEL (gals)				
NONE	Start	11385		BHA Length	1454.2 ft	SLOW PUMP RATES		
	Received			DRILL PIPE	3679 ft		PSI	SPM
	End	9599		WEIGHT OF BHA	91 M	Pump #1	90	40
	Consumed	1786				Pump #2	100	40

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12	90	95	376.97	8.98
2	National 12-P160	6	12	90	95	376.97	8.98

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[illegible]



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AFE # :100054.046.01

AFE DEPTH17,495

AFE DAYS27

LAST BOP TEST07/22/16

KB25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	8/8/16	DAY:	11	
OPERATIONS:		R/U Lay down truck		DEPTH (MD):	8035	DEPTH (TVD):	8034	PROGRESS:	1,014			
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Garza	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:				
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:				
3025	180	752	75	120								
DRILLING MECHANICS				CASING STRINGS								
PICK UP WEIGHT		240	PLAN	ACTUAL	SET DATE	SIZE	WT	GRADE	THRD	LOT/FIT	\$/ft	
SLACK OFF WEIGHT		220	400	403	7/19/2016	13 3/8	48	H-40	STC		\$ 27.00	
ROTATING WEIGHT		225	8,000			9 5/8	40	HCL-80	LTC		\$ 23.00	
TORQUE ON BOTTOM		13800	16,560			5 1/2	20	P-110	CDC		\$ 17.00	
TORQUE OFF BOTTOM		3775									\$ -	
BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION		
BIT NO		4		3		MW		9.1		Bulk gel		
SIZE		12 1/4		12.25		VIS		44		Paper		
MFG		Drilformance		Reed		PV		6		Lime		
TYPE		DF616X2		SKHI716M		YP		32		MF-55		
SER. NO		52927		A210625		GELS		19/17		Soda ash		
NOZZLES		7/20's		7/20's		pH		9.0		Poly vis II		
TFA		2.1465		2.1465		WL		18		Caustic Soda		
OUT		8035		6377		HP/HT		0		Barite		
IN		6377		5330		FC		3/32		Nutshell		
FOOTAGE		1658		1047		CL		28000		Shrink Wrap		
HOURS		17		27		Ca		1400		FW Gel SX		
FT/HR		98		39		Sand		.3				
						Solids		3.92				
						Oil %						
										FISHING/STUCK		
										CORE		
										DST		
										KICK		
BIT #				DULL COND:						LOST CIRC.		
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	
O	O	NO	A	F	O	NO	TD	Cum Mud \$		Delivery		
TIME						ACTIVITY				TRPM	WOB	
START	END	HRS	FROM	TO						(M lbs)	(fph)	
14:00	16:30	2.50	7021	7210	Drill Intermediate			195		40	76	
16:30	17:00	0.50	7210	7210	Service Rig							
17:00	1:00	8.00	7210	8035	Drill Intermediate			195		40	103	
1:00	3:00	2.00	8035	8035	Circulate 2 Full Circulations, Pump 2 40 bbl High Visc Pills							
3:00	4:00	1.00	8035	8035	Short Trip Out of Hole to 6300'							
4:00	4:30	0.50	8035	8035	Trip in Hole to 8035							
4:30	6:30	2.00	8035	8035	Circulate 2 Full Circulations, Pump 2 40 bbl High Visc Pills							
6:30	9:00	2.50	8035	8035	Trip Out of Hole To Run 9 5/8" Casing							
9:00	9:30	0.50	8035	8035	Spot 100 bbls Desco Pill From 3500 To 2200							
9:30	13:00	3.50	8035	8035	Trip Out of Hole To 8" DC							
13:00	14:00	1.00	8035	8035	Rig Up Lay Down Truck							
						Note:						
						Worked and pumped through tight hole 1181 - 900' until freed up						
TOTAL HRS:		24.0	Motor Specs:		8" 7:8 lobe_4 Stg_1.83°_ Adjustabe_ Slick (Mfg- Patriot_ Prov.- Firethorne)		DAILY AVG		97			
SHOWS/FLARE REPORT				BHA		4	SURVEYS					
				Description		Length	DEPTH	DEVIATION		AZIMUTH		
				Bit		1.5 ft	6859 ft			28.3		
				Motor		30.4 ft	7238 ft	0.40°		16.3		
WASTE DISPOSAL SITE:				Shock sub		14.9 ft	7332 ft	0.60°		48.8		
DAILY FW (bbls)			CML FW			6.1 ft	7426 ft	0.50°		37.8		
DAILY BW (bbls)			CML BW		3200	2.4 ft	7521 ft	0.40°		19.3		
				MWD		30.1 ft	7615 ft	0.70°		1.7		
TOTAL DRILLED GAS				Stabilizer		7.2 ft	7709 ft	0.60°		45.7		
GAS		Units	DC SIZE			6 - 8" DC's	172.0 ft					
Background Gas:			8"			XO	3.1 ft					
Connection Gas:						12 - 6" DC's	352.9 ft					
Trip Gas:			DP SIZE			XO	2.9 ft					
Max Gas:			5" - 4 1/2IF			27jts HWDP	830.7 ft					
ACCIDENTS				FUEL (gals)								
NONE				Start	10793	BHA Length		1454.3 ft	SLOW PUMP RATES			
				Received		DRILL PIPE		6581 ft	PSI		SPM	
				End	8205	WEIGHT OF BHA			Pump #1	200	30	
				Consumed	2588			Pump #2	204	30		
PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM					
1	National 12-P160	6	12	90	95	376.97	8.98	M Whitefield				
2	National 12-P160	6	12	90	95	376.97	8.98	Reviewed & Approved By				

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APE # :	100054.046.01	APE DEPTH	17,495	APE DAYS	27
		LAST BOP TEST	07/22/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	8/9/16	DAY:	12
OPERATIONS:		Opening DV Tool		DEPTH (MD):	8035	DEPTH (TVD):	8034	PROGRESS:			
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Garza	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			

[illegible]

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION					
BIT NO		4		3		MW		9.1		Bulk gel		RU/RD		21.5	
SIZE		12 1/4		12.25		VIS		43		Paper		DRLG		133.5	
MFG		Drilformance		Reed		PV		6		Lime		REAM/WASH		1.0 2.0	
TYPE		DF616X2		SKHI716M		YP		31		MF-55		SURVEY			
SER. NO		52927		A210625		GELS		18/18		Soda ash		TRIP		2.5 35.5	
NOZZLES		7/20's		7/20's		pH		9.0		Poly vis II		RIG SERV		6.0	
TFA		2.1465		2.1465		WL		18		Caustic Soda		CIRC & COND		6.5 15.0	
OUT		8035		6377		HP/HT				Barite		RUN CSG/CMT		14.0 19.5	
IN		6377		5330		FC		3/32		Nutshell		WOC		4.0	
FOOTAGE		1658		1047		CL		28000		Shrink Wrap		NU/TST BOP		8.5	
HOURS		17		27		Ca		1400		FW Gel SX		RIG REPAIR		6.0	
FT/HR		98		39		Sand		0.3				LOG			
						Solids		3.92				FISHING/STUCK			
						Oil %						CORE			
												DST			
												KICK			
												LOST CIRC.			
BIT #				DULL COND:											
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC		2.0	
								Cum Mud \$		Delivery		TOTAL (Daily/cum)	24.0	253.5	

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	16:00	2.00			L/D 8" Drill Collars & Directional BHA			
16:00	16:30	0.50			Pull Wear Bushing (Verified By Co. Rep)			
16:30	17:30	1.00			PJSM, RU Casing Equip			
17:30	18:30	1.00			MU Shoe Track - Test Floats (ok)			
18:30	22:00	3.50			Run Intermediate casing F/46' to 2875'			
22:00	23:00	1.00			Circulate bottoms up			
23:00	0:00	1.00			Run Intermediate casing F/2875' to 4251'			
0:00	2:00	2.00			Circulate bottoms up			
2:00	4:00	2.00			Run Intermediate casing F/4251' to 6789'			
4:00	5:30	1.50			Circulate bottoms up			
5:30	6:30	1.00			Run Intermediate casing F/6789' to 7956'			
6:30	7:30	1.00			Wash down F/7956' to 8035'			
7:30	8:00	0.50			RD Casing equipment			
8:00	10:00	2.00			Circulate 2X casing capacity			
10:00	10:30	0.50			PJSM, RU Cement Head			
10:30	13:00	2.50			Pump 1st stage - lead 650skts @ 11.3; Tail 200skts @ 15.6 - Disp FW 304 bbls WBM 304 bbls			
13:00	14:00	1.00			Drop bomb (30 mins) Pressured up to 442 psi - open DV Tool			
TOTAL HRS:		24.0	Motor Specs:	8" 7:8 lobe 4 Stg 1.83° Adjustabe Slick (Mfg- Patriot Prov.- Firethorne)			DAILY AVG	

SHOWS/FLARE REPORT				BHA	4	SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.5 ft			
				Motor	30.4 ft			
WASTE DISPOSAL SITE:				Shock sub	14.9 ft			
DAILY FW (bbls)		CML FW		Stabilizer	6.1 ft			
DAILY BW (bbls)		CML BW	3200	UBHO	2.4 ft			
				MWD	30.1 ft			
TOTAL DRILLED GAS		<div>DC SIZE</div> <div>8"</div> <div>DP SIZE</div> <div>5" - 4 1/2IF</div>		Stabilizer	7.2 ft			
GAS	Units			6 - 8" DC's	172.0 ft			
Background Gas:				XO	3.1 ft			
Connection Gas:				12 - 6" DC's	352.9 ft			
Trip Gas:				XO	2.9 ft			
Max Gas:				27jts HWDP	830.7 ft			
ACCIDENTS		FUEL (gals)						
None	Start	8205	BHA Length	1454.3 ft	SLOW PUMP RATES			
	Received		DRILL PIPE	6581 ft		PSI	SPM	
	End	7218	WEIGHT OF BHA		Pump #1			
	Consumed	987			Pump #2			

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12		95		
2	National 12-P160	6	12		95		

M Whitefield

Reviewed & Approved By

Daily Drilling Report

APE # :	100054.046.01	APE DEPTH	17,495	APE DAYS	27
		LAST BOP TEST	08/10/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	8/10/16	DAY:	13
OPERATIONS:		TIH		DEPTH (MD):	8035	DEPTH (TVD):	8034	PROGRESS:			
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Garza	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			

[illegible]

BIT RECORD		Present Bit			Previous Bit			MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION		
BIT NO		5			4			MW	8.6	Bulk gel		RU/RD		21.5
SIZE		8 3/4			12.25			VIS	31	Paper		DRLG		133.5
MFG		Varel			Drilformance			PV	5	Lime		REAM/WASH		2.0
TYPE		HE23MRSV			DF616X2			YP	2	MF-55		SURVEY		
SER. NO		753709R			52927			GELS	1/1	Soda ash	36	TRIP	2.5	38.0
NOZZLES		3/28's			7/20's			pH	11.5	Poly vis II		RIG SERV		6.0
TFA		1.8030			2.1465			WL	10	Caustic Soda		CIRC & COND	3.0	18.0
OUT					8035			HP/HT	0	Barite		RUN CSG/CMT	3.5	23.0
IN		8035			6377			FC	1/32	Nutshell		WOC		4.0
FOOTAGE		-8035			1658			CL	21000	Shrink Wrap		NU/TST BOP	12.5	21.0
HOURS					17			Ca	40	FW Gel SX		RIG REPAIR		6.0
FT/HR		#DIV/0!			98			Sand	0	Master CLR	120	LOG		
								Solids	5.26			FISHING/STUCK		
								Oil %	0			CORE		
												DST		
												KICK		
												LOST CIRC.		
BIT #		4	DULL COND:											
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC	2.5	4.5
1	1	NO	A	E	O	NO	TD	Cum Mud \$		Delivery		TOTAL (Daily/cum)	24.0	277.5

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	17:00	3.00	8035	8035	Circulate off DV Tool (147sks returned to surface)			
17:00	20:00	3.00	8035	8035	Pump 2nd stage cement, Circulate 450 sks to surface (see Cmt report)			
20:00	20:30	0.50			RD cement equipment			
20:30	22:30	2.00			ND BOP's, Set casing slips w/ 210K static weight, Rough cut casing			
22:30	0:30	2.00	8035	8035	NU B section of wellhead, test packoff seals (2500 PSI), Test flange (1500 PSI), Good Tests			
0:30	1:30	1.00			NU BOP			
1:30	4:00	2.50			Test BOP Top, Blind rams, Mud Cross, Floor Valves, & choke manifold- 250 PSI low/5000 PSI Hig			
4:00	6:00	2.00			Test Hydril- 250 PSI low/ 3500 PSI High (All tests good)			
6:00	9:00	3.00			Clear & clean rig floor			
9:00	11:30	2.50			Slip & cut drill line			
11:30	14:00	2.50			TIH w/ BHA #5			
TOTAL HRS:		24.0	Motor Specs:			DAILY AVG		

SHOWS/FLARE REPORT				BHA	5	SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.5 ft			
				BS	2.8 ft			
WASTE DISPOSAL SITE:				12 - 6" DC's	352.9 ft			
DAILY FW (bbls)		CML FW		XO	2.6 ft			
DAILY BW (bbls)		CML BW	3200	27jts HWDP	830.7 ft			
TOTAL DRILLED GAS		<div>DC SIZE</div> <div>6"</div> <div>DP SIZE</div> <div>5" - 4 1/2IF</div>						
GAS	Units							
Background Gas:								
Connection Gas:								
Trip Gas:								
Max Gas:								
ACCIDENTS		FUEL (gals)						
None	Start	7218	BHA Length	1190.5 ft	SLOW PUMP RATES			
	Received		DRILL PIPE	6845 ft				
	End	6536	WEIGHT OF BHA		Pump #1	PSI	SPM	
	Consumed	682			Pump #2			

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12		95		
2	National 12-P160	6	12		95		

JCG
Reviewed & Approved By



Daily Drilling Report

AFE # :100054.046.01

AFE DEPTH17,495

AFE DAYS27

LAST BOP TEST08/10/16

KB25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	8/11/16	DAY:	14					
OPERATIONS:		Drilling		DEPTH (MD):	8450	DEPTH (TVD):	8448	PROGRESS:	415							
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Garza	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:								
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:								
2480	140	586	70	164												
DRILLING MECHANICS				CASING STRINGS												
PICK UP WEIGHT		255	PLAN	ACTUAL	SET DATE	SIZE	WT	GRADE	THRD	LOT/FIT	\$/ft					
SLACK OFF WEIGHT		220	400	403	7/19/2016	13 3/8	48	H-40	STC		\$ 27.00					
ROTATING WEIGHT		235	8,000	8,035	8/9/2016	9 5/8	40	HCL-80	LTC	2,000	\$ 23.00					
TORQUE ON BOTTOM		8775	16,560			5 1/2	20	P-110	CDC		\$ 17.00					
TORQUE OFF BOTTOM		5500									\$ -					
BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION						
BIT NO		6		5		MW		8.8		Bulk gel		2	RU/RD		21.5	
SIZE		8 3/4		8 3/4		VIS		31		Paper			DRLG	6.0	139.5	
MFG		Drilformance		Varel		PV		4		Lime		3	REAM/WASH		2.0	
TYPE		DF513X5		HE23MRSV		YP		4		MF-55			SURVEY			
SER. NO		12761		753709R		GELS		2/3		Soda ash		6	TRIP	13.0	51.0	
NOZZLES		7/16's		3/28's		pH		9.0		Poly vis II			RIG SERV		8.5	
TFA		1.3738		1.803		WL		10		Caustic Soda			CIRC & COND	1.0	19.0	
OUT		8450		8045		HP/HT		0		Barite			RUN CSG/CMT		23.0	
IN		8045		8035		FC		1/32		Nutshell			WOC		4.0	
FOOTAGE		405		10		CL		20000		Shrink Wrap		7	NU/TST BOP		21.0	
HOURS		6		0.5		Ca		120/145		FW Gel SX			RIG REPAIR		6.0	
FT/HR		68		20		Sand		0		Master CLR		15	LOG			
						Solids		1.79					FISHING/STUCK			
						Oil %							CORE			
													DST			
													KICK			
BIT #		5		DULL COND:									LOST CIRC.			
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC		4.0	6.0	
1	1	NO	A	E	O	NO	BHA	Cum Mud \$		Delivery	1	TOTAL (Daily/cum)		24.0	301.5	
TIME				ACTIVITY										TRPM	WOB	ROP
START	END	HRS	FROM	TO									(M lbs)	(fph)		
14:00	16:30	2.50			TIH w/ BHA #5, Tag DV Tool @ 5025'											
16:30	17:00	0.50			Break Circ. Air Out Csg Test Csg to 2000 psi 5 min Good Test											
17:00	18:00	1.00			Drill Out DV Tool							100	20			
18:00	20:00	2.00			TIH w/ BHA #5, Tag Cmt at 7895'											
20:00	21:00	1.00			Drill Cmt From 7895 To 7988', Drill FC and 15' Cmt Inside Shoe Joint (8003')											
21:00	21:30	0.50			Test Csg to 2000 psi Hold 30 min. Good Test											
21:30	22:30	1.00	8035	8045	Drill Cmt To 8033, Drill FS and 10' New Formation (8045')							100	20	10		
22:30	23:00	0.50			Circ Btms Up											
23:00	23:30	0.50			Displace w/ Fresh Gel Mud											
23:30	2:30	3.00			TOH and LD BHA #5											
2:30	4:00	1.50			PU BHA #6, Scribe Motor, Test Mwd Tool (Good Test)											
4:00	8:00	4.00			TIH w/ BHA #6											
8:00	14:00	6.00	8045	8450	Drill Pilot Hole							234	30	68		
TOTAL HRS:		24.0	Motor Specs:		6 3/4" 1.83° 7:8 Lobe 5 Stg_Fixed (Patriot Provid- Firethorne) (.28 RPG)							DAILY AVG		69		
SHOWS/FLARE REPORT					BHA		6	SURVEYS								
					Description		Length	DEPTH	DEVIATION		AZIMUTH					
					Bit		1.0 ft	8095 ft	0.50°		156.1					
					Motor		28.8 ft	8190 ft	0.50°		142.7					
WASTE DISPOSAL SITE:					IBS		5.3 ft	8283 ft	0.40°		166.6					
DAILY FW (bbls)			CML FW		Mule Shoe Sub		3.0 ft	8378 ft	0.70°		195.1					
DAILY BW (bbls)			CML BW		3200		MWD Collar									
					IBS		5.3 ft									
TOTAL DRILLED GAS					12- 6.5" DC		352.9 ft									
GAS		Units	DC SIZE		XO		2.6 ft									
Background Gas:			6"		27- 5"HWD		830.7 ft									
Connection Gas:																
Trip Gas:			DP SIZE													
Max Gas:			5" - 4 1/2IF													
ACCIDENTS					FUEL (gals)											
None					Start	6536	BHA Length		1259.4 ft	SLOW PUMP RATES						
					Received	7212	DRILL PIPE		7191 ft	PSI		SPM				
					End	13031	WEIGHT OF BHA			Pump #1	340	40				
					Consumed	717			Pump #2	330	40					
PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM									
1	National 12-P160	6	12	70	95	293.20	6.98	JCG								
2	National 12-P160	6	12	70	95	293.20	6.98	Reviewed & Approved By								

Daily Drilling Report

APE # :	100054.046.01	APE DEPTH	17,495	APE DAYS	27
		LAST BOP TEST	08/10/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	8/12/16	DAY:	15
OPERATIONS:		Lay Down BHA		DEPTH (MD):	10038	DEPTH (TVD):	10036	PROGRESS:	1,588		
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Garza	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
3026	140	586	80	164							

DRILLING MECHANICS		CASING STRINGS								
PICK UP WEIGHT	360	PLAN	ACTUAL	SET DATE	SIZE	WT	GRADE	THRD	LOT/FIT	\$/ft
SLACK OFF WEIGHT	170	400	403	7/19/2016	13 3/8	48	H-40	STC		\$ 27.00
ROTATING WEIGHT	255	8,000	8,035	8/9/2016	9 5/8	40	HCL-80	LTC	2,000	\$ 23.00
TORQUE ON BOTTOM	17100	16,560			5 1/2	20	P-110	CDC		\$ 17.00
TORQUE OFF BOTTOM	7900									\$ -

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION				
BIT NO		6		5		MW	8.9	Bulk gel		RU/RD		21.5		
SIZE		8 3/4		8.75		VIS	31	Paper		DRLG	15.5	155.0		
MFG		Drilformance		Varel		PV	5	Lime	6	REAM/WASH		2.0		
TYPE		DF513X5		HE23MRSV		YP	4	MF-55		SURVEY				
SER. NO		12761		753709R		GELS	3/4	Soda ash	7	TRIP	6.0	57.0		
NOZZLES		7/16's		3/28's		pH	9.5	Poly vis II		RIG SERV	0.5	9.0		
TFA		1.3738		1.803		WL	9.5	Caustic Soda	2	CIRC & COND	2.0	21.0		
OUT		10038		8045		HP/HT	0	Barite	40	RUN CSG/CMT		23.0		
IN		8045		8035		FC	1/32	Nutshell		WOC		4.0		
FOOTAGE		1993		10		CL	21000	Shrink Wrap		NU/TST BOP		21.0		
HOURS		21.5		0.5		Ca	80/72	FW Gel SX		RIG REPAIR		6.0		
FT/HR		93		20		Sand	0	Master CLR P	12	LOG				
						Solids	2.48	Master CLR	27	FISHING/STUCK				
						Oil %		Master BLK	7	CORE				
								Cal Carb 200	18	DST				
								Cal Carb 400	18	KICK				
								Cal Carb 600	18	LOST CIRC.				
BIT #		DULL COND:												
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC	6.0	
								Cum Mud \$		Delivery		TOTAL (Daily/cum)	24.0	325.5

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	16:30	2.50	8450	8619	Drill Pilot Hole	234	32	68
16:30	17:00	0.50			Rig Service			
17:00	6:00	13.00	8619	10038	Drill Pilot Hole	244	35	109
6:00	8:00	2.00			Circulate 2 Bottoms Up, Pump 2 40 bbl 60 Visc Sweeps			
8:00	13:30	5.50			Trip Out of Hole To Log Pilot Hole			
13:30	14:00	0.50			Lay Down BHA #6			
TOTAL HRS:		24.0	Motor Specs: 6 3/4" 1.83° 7:8 Lobe 5 Stg Fixed (Patriot Provid- Firethorne) (.28 RPG)			DAILY AVG		102

SHOWS/FLARE REPORT				BHA	6	SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.0 ft	8664 ft	0.30°	160.3
				Motor	28.8 ft	8759 ft	0.30°	61.5
WASTE DISPOSAL SITE:				IBS	5.3 ft	8853 ft	0.40°	103.2
DAILY FW (bbls)		CML FW		Mule Shoe Sub	3.0 ft	8948 ft	0.40°	166.8
DAILY BW (bbls)		CML BW	3200	MWD Collar	29.8 ft	9043 ft	0.40°	299.9
				IBS	5.3 ft	9138 ft	1.00°	318.7
TOTAL DRILLED GAS		<div>DC SIZE</div> <div>6"</div> <div>DP SIZE</div> <div>5" - 4 1/2IF</div>		12- 6.5" DC	352.9 ft	9234 ft	1.60°	337.7
GAS	Units			XO	2.6 ft	9329 ft	1.10°	24.6
Background Gas:	1247			27- 5"HWD	830.7 ft	9422 ft	1.40°	61.2
Connection Gas:	1255					9516 ft	0.70°	31.6
Trip Gas:						9611 ft	1.00°	17
Max Gas:	1820					9706 ft	1.10°	14.6
						9801 ft	1.80°	358.6
						9894 ft	1.60°	350.1
								9987 ft
ACCIDENTS		FUEL (gals)				9987 ft	1.40°	342.6
None	Start	13031	BHA Length	1259.4 ft	SLOW PUMP RATES			
	Received		DRILL PIPE	8779 ft		PSI	SPM	
	End	11188	WEIGHT OF BHA		Pump #1	280	30	
	Consumed	1843			Pump #2	275	30	

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12	70	95	293.20	6.98
2	National 12-P160	6	12	70	95	293.20	6.98

Reviewed & Approved By

Daily Drilling Report

APE # :	100054.046.01	APE DEPTH	17,495	APE DAYS	27
		LAST BOP TEST	08/10/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	8/13/16	DAY:	16
OPERATIONS:		Rigging Down Loggers		DEPTH (MD):	10038	DEPTH (TVD):	10036	PROGRESS:			
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Garza	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			

[illegible]

BIT RECORD		Present Bit			Previous Bit			MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION		
BIT NO		6			5			MW	8.9	Bulk gel		RU/RD		21.5
SIZE		8 3/4			8.75			VIS	30	Paper		DRLG		155.0
MFG		Drilformance			Varel			PV	4	Lime		REAM/WASH		2.0
TYPE		DF513X5			HE23MRSV			YP	3	MF-55		SURVEY		
SER. NO		12761			753709R			GELS	2/3	Soda ash		TRIP	1.5	58.5
NOZZLES		7/16's			3/28's			pH	9.0	Poly vis II		RIG SERV		9.0
TFA		1.3738			1.803			WL	13	Caustic Soda		CIRC & COND		21.0
OUT					8045			HP/HT	0	Barite		RUN CSG/CMT		23.0
IN		8045			8035			FC	2/32	Nutshell		WOC		4.0
FOOTAGE		-8045			10			CL	22000	Shrink Wrap		NU/TST BOP		21.0
HOURS					0.5			Ca	80/72	FW Gel SX		RIG REPAIR		6.0
FT/HR		#DIV/0!			20			Sand	0	Master CLR P		LOG	22.5	22.5
								Solids	2.80	Master CLR		FISHING/STUCK		
								Oil %	0	Master BLK		CORE		
										Cal Carb 200		DST		
										Cal Carb 400		KICK		
										Cal Carb 600		LOST CIRC.		
BIT #		6	DULL COND:											
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC		6.0
1	1	NO	A	F	O	NO	LOG	Cum Mud \$		Delivery		TOTAL (Daily/cum)	24.0	349.5

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	14:30	0.50			Continue Laying Down BHA #6			
14:30	15:30	1.00			Clean and Clear Rig Floor to Run Logs			
15:30	16:00	0.50			Rig up Halliburton Logging Equipment			
16:00	23:30	7.50			Logging Run #1 (Density, Neutron, Gem, Bore Hole, Properties tool, High Frequency Dielectric)			
23:30	5:00	5.50			Logging Run #2 (Dual laterolog, Micro Spherically Focused Log, Dipole Sonic)			
5:00	13:30	8.50			Logging Run #3 (MRIL)			
13:30	14:00	0.50			Rig Down Halliburton Logging Equipment			
TOTAL HRS:		24.0	Motor Specs:			DAILY AVG		

SHOWS/FLARE REPORT				BHA	6	SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.0 ft			
				Motor	28.8 ft			
WASTE DISPOSAL SITE:				IBS	5.3 ft			
DAILY FW (bbls)		CML FW		Mule Shoe Sub	3.0 ft			
DAILY BW (bbls)		CML BW	3200	MWD Collar	29.8 ft			
				IBS	5.3 ft			
TOTAL DRILLED GAS		<div>DC SIZE</div> <div>6"</div> <div>DP SIZE</div> <div>5" - 4 1/2IF</div>		12- 6.5" DC	352.9 ft			
GAS	Units			XO	2.6 ft			
Background Gas:				27- 5"HWDP	830.7 ft			
Connection Gas:								
Trip Gas:								
Max Gas:								
ACCIDENTS		FUEL (gals)						
	Start	11188	BHA Length	1259.4 ft	SLOW PUMP RATES			
	Received		DRILL PIPE	8779 ft		PSI	SPM	
	End	10297	WEIGHT OF BHA		Pump #1			
	Consumed	891			Pump #2			

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12		95		
2	National 12-P160	6	12		95		

Reviewed & Approved By

Daily Drilling Report

AFE # : 100054.046.01										AFE DEPTH		17,495		AFE DAYS		27													
										LAST BOP TEST		08/10/16		KB		25													
WELL NAME:		UL Comanche A4144 Unit #4146				COUNTY:		Martin		STATE:		Texas		DATE:		8/14/16		DAY:		17									
OPERATIONS:		TOH				DEPTH (MD):		10038		DEPTH (TVD):		10036		PROGRESS:															
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton				SUPV:		Wallace / Garza		INTANGIBLE AFE \$:				TOTAL DRILLING AFE \$:															
PSI:		SPM:		TOTAL GPM		ROTARY RPM		MOTOR RPM				DAILY COST:				CML. WELL COST:													
DRILLING MECHANICS						CASING STRINGS																							
PICK UP WEIGHT								PLAN		ACTUAL		SET DATE		SIZE		WT		GRADE		THRD		LOT/FIT		\$/ft					
SLACK OFF WEIGHT								400		403		7/19/2016		13 3/8		48		H-40		STC				\$ 27.00					
ROTATING WEIGHT								8,000		8,035		8/9/2016		9 5/8		40		HCL-80		LTC		2,000		\$ 23.00					
TORQUE ON BOTTOM								16,560						5 1/2		20		P-110		CDC				\$ 17.00					
TORQUE OFF BOTTOM																								\$ -					
BIT RECORD				Present Bit			Previous Bit			MUD PROPERTIES				MUD MIXED				TIME DISTRIBUTION											
BIT NO		6			5			MW		8.85		Bulk gel		5		RU/RD						21.5							
SIZE		8 3/4			8.75			VIS		30		Paper				DRLG						155.0							
MFG		Drilformance			Varel			PV		4		Lime		2		REAM/WASH						2.0							
TYPE		DF513X5			HE23MRSV			YP		3		MF-55				SURVEY													
SER. NO		12761			753709R			GELS		2/3		Soda ash		2		TRIP		17.0		75.5									
NOZZLES		7/16's			3/28's			pH		9.0		Poly vis II				RIG SERV						9.0							
TFA		1.3738			1.803			WL		18		Caustic Soda		5		CIRC & COND		3.5		24.5									
OUT					8045			HP/HT		0		Barite		40		RUN CSG/CMT		3.5		26.5									
IN		8045			8035			FC		2/32		Nutshell				WOC						4.0							
FOOTAGE		-8045			10			CL		23000		Shrink Wrap				NU/TST BOP						21.0							
HOURS					0.5			Ca		120/72		FW Gel SX				RIG REPAIR						6.0							
FT/HR		#DIV/0!			20			Sand		0		Master CLR P		14		LOG						22.5							
								Solids		2.35		Master CLR		12		FISHING/STUCK													
								Oil %		0		Master BLK				CORE													
												Cal Carb 200				DST													
												Cal Carb 400				KICK													
												Cal Carb 600				LOST CIRC.													
BIT #					DULL COND:																								
ICS		OCS		DC		LOC		B/S		G		ODR		RP		Day Mud \$				Engineering		1		MISC				6.0	
																Cum Mud \$				Delivery				TOTAL (Daily/cum)		24.0		373.5	
TIME						ACTIVITY										TRPM		WOB		ROP									
START		END		HRS		FROM		TO										(M lbs)		(fph)									
14:00		14:30		0.50						Make Up Bit Sub and Bit																			
14:30		18:00		3.50						Trip In The Hole With Clean Out BHA																			
18:00		20:30		2.50						Circulate Two Complete Circulations (Pump Two 35 bbl 62 Visc sweeps)																			
20:30		0:00		3.50						Trip Out of Hole and LD Bit																			
0:00		3:30		3.50						Trip in Hole Open Ended to 8,732'																			
3:30		6:00		2.50						PU 27 Jts of 5" D.P. to Reach 10,038- spot mud crutch 110 BBLS 120 vis																			
6:00		7:00		1.00						Trip Out of Hole to 9,000'																			
7:00		9:30		2.50						Rig Up Cementers, Blew Hydraulic Hose, Wait For Another Pump Truck																			
9:30		10:30		1.00						Spot KO cement plug																			
10:30		12:00		1.50						Trip Out of Hole to 8,200'																			
12:00		13:00		1.00						Circulate Drill Pipe Clean (No Cement Observed)																			
13:00		14:00		1.00						Trip Out of Hole																			

Daily Drilling Report



Daily Drilling Report

AFE # :100054.046.01

AFE DEPTH17,495

AFE DAYS27

LAST BOP TEST08/10/16

KB25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	8/17/16	DAY:	20
OPERATIONS:		TOOH		DEPTH (MD):	8798	DEPTH (TVD):	8796	PROGRESS:	15		
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Brunette/ Rogers	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
DRILLING MECHANICS				CASING STRINGS							
PICK UP WEIGHT		224	PLAN	ACTUAL	SET DATE	SIZE	WT	GRADE	THRD	LOT/FIT	\$/ft
SLACK OFF WEIGHT		211	400	403	7/19/2016	13 3/8	48	H-40	STC		\$ 27.00
ROTATING WEIGHT		205	8,000	8,035	8/9/2016	9 5/8	40	HCL-80	LTC	2,000	\$ 23.00
TORQUE ON BOTTOM			16,560			5 1/2	20	P-110	CDC		\$ 17.00
TORQUE OFF BOTTOM											\$ -
BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION	
BIT NO		8		7		MW		8.8		Bulk gel	
SIZE		8 3/4		8.75		VIS		30		Paper	
MFG		Baker		Security		PV		4		Lime	
TYPE		VGD 38E		MM65D		YP		3		MF-55	
SER. NO		5257053		12765611		GELS		2/3		Soda ash	
NOZZLES		3-28's		3/18's-3/22's		pH		9.9		Poly vis II	
TFA		1.8030		1.8582		WL		26		Caustic Soda	
OUT		8798		8783		HP/HT				Barite	
IN		8783		8760		FC				Nutshell	
FOOTAGE		15		23		CL		21000		Shrink Wrap	
HOURS		11.5		21		Ca		200		FW Gel SX	
FT/HR		1		1		Sand				Master CLR P	
						Solids		3.3		Master CLR	
						Oil %				Master BLK	
										Cal Carb 200	
										Cal Carb 400	
										Cal Carb 600	
BIT #		7		DULL COND:						Engineering	
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		1	MISC
1	1	CT	G	E	O	CT	DP	Cum Mud \$			TOTAL (Daily/cum)
TIME		24.0		Motor Specs:		6.75" 7:8 Lobe 5 stg Adj 2.77° S/N HH675104 (Mfg- Nov Dist- Von Directional)		DAILY AVG		1	
SHOWS/FLARE REPORT				BHA		8		SURVEYS			
				Description		Length		DEPTH		DEVIATION	
				Bit		1.0 ft				AZIMUTH	
				MOTOR		26.6 ft					
WASTE DISPOSAL SITE:				XO		2.8 ft					
DAILY FW (bbls)				CML FW		30.0 ft					
DAILY BW (bbls)				CML BW		3200					
				Flex Joint		29.8 ft					
TOTAL DRILLED GAS				30 - 5" DP		941.8 ft					
GAS		Units		DC SIZE		27- 5"HWDP		830.7 ft			
Background Gas:				6"							
Connection Gas:											
Trip Gas:				DP SIZE							
Max Gas:				5" - 4 1/2IF							
ACCIDENTS				FUEL (gals)							
NONE				Start		7611		BHA Length		1866.5 ft	
				Received		7197		DRILL PIPE		6932 ft	
				End		13176		WEIGHT OF BHA			
				Consumed		1632				Pump #1	
								Pump #2		SLOW PUMP RATES	
										PSI	
										SPM	
PUMP		MAKE		LINER		STROKE		SPM		% EFF	
1		National 12-P160		6		12				95	
2		National 12-P160		6		12				95	
JCG											
Reviewed & Approved By											

Daily Drilling Report

APE # :	100054.046.01	APE DEPTH	17,495	APE DAYS	27
		LAST BOP TEST	08/10/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	8/18/16	DAY:	21
OPERATIONS:		TOOH		DEPTH (MD):	8870	DEPTH (TVD):	8868	PROGRESS:			72
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Brunette / Rogers	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			

[illegible]

BIT RECORD		Present Bit			Previous Bit			MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION		
BIT NO		9			8			MW	8.8	Bulk gel		RU/RD		21.5
SIZE		8 3/4			8.75			VIS	31	Paper		DRLG	14.5	182.5
MFG		Baker			Baker			PV	4	Lime		REAM/WASH		2.0
TYPE		VGD -E30C			VDG-38E			YP	4	MF-55		SURVEY		
SER. NO		5255201			5257053			GELS	2/3	Soda ash		TRIP	8.5	100.5
NOZZLES		3 x 22			3/18's-3/22's			pH	9.8	Poly vis II		RIG SERV		10.0
TFA		1.1131			1.8582			WL	23	Caustic Soda		CIRC & COND	1.0	28.0
OUT		8870			8798			HP/HT		Barite	60	RUN CSG/CMT		26.5
IN		8798			8783			FC	2/32	Nutshell		WOC		18.5
FOOTAGE		72			15			CL	21000	Shrink Wrap		NU/TST BOP		21.0
HOURS		14.5			13			Ca	200/72	FW Gel SX		RIG REPAIR		6.0
FT/HR		5			1			Sand		Master CLR P	7	LOG		22.5
								Solids	3.3	Master CLR	8	FISHING/STUCK		
								Oil %		Master BLK		CORE		
										Cal Carb 200		DST		
										Cal Carb 400		KICK		
										Cal Carb 600		LOST CIRC.		
BIT #		8	DULL COND:							Engineering	1	MISC		30.5
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Delivery		TOTAL (Daily/cum)	24.0	469.5
1	1	WT	A	E	O	NO	PR	Cum Mud \$						

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	15:00	1.00			TOOH			
15:00	17:00	2.00			LD BHA #8, PU BHA #9, Scribe motor, surface test			
17:00	20:30	3.50			TIH with BHA #9			
20:30	11:00	14.50	8798	8870	Time drill @ 1 ft/hr	137	5	5
11:00	12:00	1.00			Circulate, pump 35 BBLS 10.4 ppg slug, Flow Check (No Flow)			
12:00	14:00	2.00			TOOH to 2,500'			
TOTAL HRS:		24.0	Motor Specs:		6 3/4" 6/7 Lobe, 5.0 Stage Adj. 3.00° Rev. .29, BTB 5.44", BTS: 49', BTG: 39'	DAILY AVG		5

SHOWS/FLARE REPORT				BHA	9	SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.0 ft			
				MOTOR	27.4 ft			
WASTE DISPOSAL SITE:				XO	2.8 ft			
DAILY FW (bbls)		CML FW		Tool Carrier	30.0 ft			
DAILY BW (bbls)		CML BW	3200	XO	3.8 ft			
				Flex Joint	29.8 ft			
TOTAL DRILLED GAS		<div>DC SIZE</div> <div>6"</div> <div>DP SIZE</div> <div>5" - 4 1/2IF</div>		30 - 5" DP	941.8 ft			
GAS	Units			27- 5"HWD	830.7 ft			
Background Gas:								
Connection Gas:								
Trip Gas:								
Max Gas:								
ACCIDENTS		FUEL (gals)						
NONE	Start	13176	BHA Length	1867.3 ft	SLOW PUMP RATES			
	Received		DRILL PIPE	7003 ft	PSI		SPM	
	End	11973	WEIGHT OF BHA	66 M	Pump #1			
	Consumed	1203			Pump #2			

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12		95		
2	National 12-P160	6	12		95		

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Daily Drilling Report

AFE # :		100054.046.01		AFE DEPTH		17,495		AFE DAYS		27																			
				LAST BOP TEST		08/10/16		KB		25																			
WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:		Martin		STATE:		Texas		DATE:		8/20/16		DAY:		23											
OPERATIONS:		Drilling		DEPTH (MD):		10,833		DEPTH (TVD):		9369.6		PROGRESS:				939													
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:		Brunette / Rogers		INTANGIBLE AFE \$:				TOTAL DRILLING AFE \$:																	
PSI:		SPM:		TOTAL GPM		ROTARY RPM		MOTOR RPM				DAILY COST:				CML. WELL COST:													
2450		130		546		80		158																					
DRILLING MECHANICS				CASING STRINGS																									
PICK UP WEIGHT		265		PLAN		ACTUAL		SET DATE		SIZE		WT		GRADE		THRD		LOT/FIT		\$/ft									
SLACK OFF WEIGHT		195		400		403		7/19/2016		13 3/8		48		H-40		STC				\$ 27.00									
ROTATING WEIGHT		233		8,000		8,035		8/9/2016		9 5/8		40		HCL-80		LTC				\$ 23.00									
TORQUE ON BOTTOM		14800		16,560						5 1/2		20		P-110		CDC				\$ 17.00									
TORQUE OFF BOTTOM		5000																		\$ -									
BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES				MUD MIXED				TIME DISTRIBUTION															
BIT NO		10		9		MW		8.95		Bulk gel				RU/RD						21.5									
SIZE		8 3/4		8.75		VIS		31		Paper				DRLG		16.5				216.5									
MFG		Security		Baker		PV		6		Lime		7		REAM/WASH						2.0									
TYPE		MM55DM		VGD-E30C		YP		5		MF-55				SURVEY															
SER. NO		12830188		5255201		GELS		2/3		Soda ash				TRIP		6.0				113.0									
NOZZLES		5 x 22		3 x 22		pH		9.5		Poly vis II				RIG SERV						10.0									
TFA		1.8552		1.1131		WL		35		Caustic Soda				CIRC & COND		1.5				29.5									
OUT		10833		8870		HP/HT		31		Barite		77		RUN CSG/CMT						26.5									
IN		8870		8798		FC		2/32		Nutshell				WOC						18.5									
FOOTAGE		1963		72		CL		23000		Shrink Wrap				NU/TST BOP						21.0									
HOURS		34		14.5		Ca		160		FW Gel SX				RIG REPAIR						6.0									
FT/HR		58		5		Sand				Master CLR P		10		LOG						22.5									
						Solids		2.84		Master CLR		19		FISHING/STUCK															
						Oil %				Master BLK		7		CORE															
										Cal Carb 200		18		DST															
										Cal Carb 400		17		KICK															
BIT #				DULL COND:						Cal Carb 600		18		LOST CIRC.															
ICS		OCS		DC		LOC		B/S		G		ODR		RP		Day Mud \$				Engineering		1		MISC				30.5	
																Cum Mud \$				Delivery				TOTAL (Daily/cum)		24.0		517.5	
TIME					ACTIVITY										TRPM		WOB		ROP										
START		END		HRS		FROM		TO														(M lbs)		(fph)					
14:00		15:30		1.50		9894		9990		Drill Lateral Section														64					
15:30		17:00		1.50						Pump Sweep, Circulate, Pump 35 BBLS 10.9 PPG Slug, Flow Check (No Flow)																			
17:00		18:30		1.50						TOOH & LD BHA #10																			
18:30		20:00		1.50						PU BHA #11, scribe motor/MWD, surface test (Good Test)																			
20:00		23:00		3.00						TIH with BHA #11																			
23:00		14:00		15.00		9990		10833		Drill Lateral Section										238		24		56					



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Daily Drilling Report

APE # :	100054.046.01	APE DEPTH	17,495	APE DAYS	27
		LAST BOP TEST	08/10/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	8/22/16	DAY:	25
OPERATIONS:		Drilling		DEPTH (MD):	13,800	DEPTH (TVD):	9,420.05	PROGRESS:	1,420		
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Brunette / Rogers	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
2970	140	582	80	169							

[illegible]

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION			
BIT NO		10		9		MW		9.15	Bulk gel		RU/RD		21.5
SIZE		8 3/4		8.75		VIS		30	Paper		DRLG	20.5	260.5
MFG		Security		Baker		PV		4	Lime	12	REAM/WASH		2.0
TYPE		MM55DM		VGD-E30C		YP		3	MF-55		SURVEY		
SER. NO		12830188		5255201		GELS		2/3	Soda ash		TRIP		113.0
NOZZLES		5 x 22		3 x 22		pH		9.2	Poly vis II		RIG SERV		10.5
TFA		1.8552		1.1131		WL		17	Caustic Soda	1	CIRC & COND	3.5	33.0
OUT		13800		8870		HP/HT			Barite		RUN CSG/CMT		26.5
IN		8870		8798		FC		1.5	Nutshell		WOC		18.5
FOOTAGE		4930		72		CL		26000	Shrink Wrap		NU/TST BOP		21.0
HOURS		78		14.5		Ca		200/72	FW Gel SX		RIG REPAIR		6.0
FT/HR		63		5		Sand			Master CLR P	24	LOG		22.5
						Solids		4.44	Master CLR	49	FISHING/STUCK		
						Oil %			Master BLK		CORE		
									Cal Carb 200	4	DST		
									Cal Carb 400		KICK		
									Cal Carb 600		LOST CIRC.		
BIT #		DULL COND:							Engineering	1	MISC		30.5
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$					
								Cum Mud \$		Delivery	1	TOTAL (Daily/cum)	24.0 565.5

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	23:00	9.00	12383	13005	Drill lateral	168	27	69
23:00	2:30	3.50			Circulate 4 BU (clean cycle)			
2:30	14:00	11.50	13005	13800	Drill lateral	249	25	69
TOTAL HRS:		24.0	Motor Specs:		Von: 6 3/4", 7/8 Lobe, 5.0 Stage FBH 1.75°, .29 RPG	DAILY AVG		69

SHOWS/FLARE REPORT				BHA		11	SURVEYS		
13,740' - 100% Shale				Description		Length	DEPTH	DEVIATION	AZIMUTH
				Bit		1.0 ft	12306 ft	88.11°	169.44
				MOTOR		27.0 ft	12399 ft	88.99°	169.17
WASTE DISPOSAL SITE:				XO		2.8 ft	12493 ft	90.22°	168.38
DAILY FW (bbls)		CML FW		Tool Carrier		30.0 ft	12585 ft	86.50°	168.4
DAILY BW (bbls)		CML BW	3200	XO		3.8 ft	12678 ft	87.30°	167.9
				NMDC		30.8 ft	12771 ft	88.90°	167.8
TOTAL DRILLED GAS				285 - 5" DP		8970.4 ft	12865 ft	89.80°	167.9
GAS		Units	DC SIZE 6"	27- 5"HWDP		830.7 ft	12959 ft	90.70°	168.7
Background Gas:		1044					13503 ft	87.50°	168
Connection Gas:		1038					13145 ft	88.40°	167.9
Trip Gas:			DP SIZE				13238 ft	86.17°	165.04
Max Gas:		1398	5" - 4 1/2IF				13331 ft	86.97°	164.07
							13427 ft	88.37°	164.34
							13521 ft	89.87°	164.25
ACCIDENTS		FUEL (gals)					13615 ft	91.28°	163.55
None		Start	6440	BHA Length		9896.5 ft	SLOW PUMP RATES		
		Received		DRILL PIPE		3903 ft		PSI	SPM
		End	4025	WEIGHT OF BHA		301 M	Pump #1	300	30
		Consumed	2415				Pump #2	300	30

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12	70	95	293.20	6.98
2	National 12-P160	6	12	70	95	293.20	6.98

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WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	8/23/16	DAY:	26
OPERATIONS:		TOH		DEPTH (MD):	14,604	DEPTH (TVD):	9,416.09	PROGRESS:	804		
CONTRACTOR & CONTACT:		Latshaw 5 / Darrell Waites		SUPV:	Brunette / Rogers	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			

BIT RECORD		Present Bit			Previous Bit			MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION		
BIT NO		10			9			MW	9.1	Bulk gel		RU/RD		21.5
SIZE		8 3/4			8.75			VIS	31	Paper		DRLG	13.5	274.0
MFG		Security			Baker			PV	5	Lime	8	REAM/WASH		2.0
TYPE		MM55DM			VGD-E30C			YP	3	MF-55		SURVEY		
SER. NO		12830188			5255201			GELS	2/3	Soda ash		TRIP	4.5	117.5
NOZZLES		5 x 22			3 x 22			pH	9.1	Poly vis II		RIG SERV		10.5
TFA		1.8552			1.1131			WL	18	Caustic Soda	7	CIRC & COND	5.0	38.0
OUT		14604			8870			HP/HT	2.5	Barite	90	RUN CSG/CMT		26.5
IN		8870			8798			FC	18	Nutshell		WOC		18.5
FOOTAGE		5734			72			CL	27000	Shrink Wrap		NU/TST BOP		21.0
HOURS		91.5			14.5			Ca	200	FW Gel SX		RIG REPAIR	1.0	7.0
FT/HR		63			5			Sand		Master CLR P	11	LOG		22.5
								Solids	3.99	Master CLR	32	FISHING/STUCK		
								Oil %		Master BLK		CORE		
										Cal Carb 200		DST		
										Cal Carb 400		KICK		
										Cal Carb 600		LOST CIRC.		
BIT #		DULL COND:												
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC		30.5
								Cum Mud \$		Delivery	1	TOTAL (Daily/cum)	24.0	589.5

SHOWS/FLARE REPORT				BHA	11	SURVEYS		
14,540' - 80% Shale, 15% Silt stone, 5% Limestone				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.0 ft	13709 ft	89.34°	166.89
				MOTOR	27.0 ft	13897 ft	87.41°	167.59
WASTE DISPOSAL SITE:				XO	2.8 ft	13990 ft	87.90°	167.6
DAILY FW (bbls)		CML FW		Tool Carrier	30.0 ft	14084 ft	89.20°	166.1
DAILY BW (bbls)		CML BW	3200	XO	3.8 ft	14179 ft	90.40°	165.6
				NMDC	30.8 ft	14269 ft	91.90°	165.5
TOTAL DRILLED GAS		<div>DC SIZE</div> <div>6"</div> <div>DP SIZE</div> <div>5" - 4 1/2IF</div>		285 - 5" DP	8970.4 ft	14369 ft	93.60°	164.7
GAS	Units			27- 5"HWDP	830.7 ft	14464 ft	91.45°	166.98
Background Gas:	328							
Connection Gas:	315							
Trip Gas:								
Max Gas:	1392							
ACCIDENTS		FUEL (gals)						
None		Start	4025	BHA Length	9896.5 ft	SLOW PUMP RATES		
		Received		DRILL PIPE	4707 ft	PSI	SPM	
		End	1628	WEIGHT OF BHA	301 M	Pump #1	300	
		Consumed	2397			Pump #2	300	

JCG
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TBH
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Daily Drilling Report

APE # :	100054.046.01	APE DEPTH	17,495	APE DAYS	27
		LAST BOP TEST	08/10/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	8/25/16	DAY:	28
OPERATIONS:		TIH		DEPTH (MD):	15379	DEPTH (TVD):	9422	PROGRESS:	109		
CONTRACTOR & CONTACT:		Latshaw 5 / Darrell Waites		SUPV:	King / Rogers	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
3600	136	570	80	177							

[illegible]

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION			
BIT NO		RR11		11		MW		9.1		Bulk gel		RU/RD	21.5
SIZE		8 3/4		8.75		VIS		30		Paper		DRLG	286.0
MFG		Security		Security		PV		5		Lime		3	2.0
TYPE		MM65DRM		MM65DRM		YP		3		MF-55		SURVEY	
SER. NO		12429796		12429796		GELS		2 / 2		Soda ash		TRIP	144.5
NOZZLES		6 x 22		6 x 22		pH		9		Poly vis II		RIG SERV	12.0
TFA		2.2262		2.2262		WL		36		Caustic Soda		3	43.0
OUT				15379		HP/HT				Barite		32	26.5
IN		15379		14604		FC		2 / 32		Nutshell		10	18.5
FOOTAGE		-15379		775		CL		31000		Shrink Wrap		NU/TST BOP	21.0
HOURS				10		Ca		1200		FW Gel SX		RIG REPAIR	7.0
FT/HR		#DIV/0!		78		Sand		tr		Master CLR P		1	22.5
						Solids		3.34		Master CLR		20	
						Oil %				Master BLK		16	
										Cal Carb 200			
										Cal Carb 400			
										Cal Carb 600			
BIT #		DULL COND:										LOST CIRC.	
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC	33.0
								Cum Mud \$		Delivery		TOTAL (Daily/cum)	637.5

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	15:00	1.00	15270	15306	Drill lateral	257	25	36
15:00	16:00	1.00			Trouble shoot MWD.			
16:00	17:00	1.00	15306	15379	Drill lateral section.	257	25	73
17:00	18:00	1.00			Trouble shoot MWD.			
18:00	23:00	5.00			Circulate 4-BU (Clean up cycle)			
23:00	7:30	8.50			TOH and lay down mud motor.			
7:30	12:30	5.00			Pick up BHA #13, test MWD and TIH to the top of the curve at 8,798.			
12:30	14:00	1.50			Attempt to work past the to top of the curve.			
TOTAL HRS:		24.0	Motor Specs:		VON : 6 3/4", 6/7 Lobe, 5.0 Stage Fixed 1.75°, .31 RPG	DAILY AVG		55

SHOWS/FLARE REPORT				BHA	13	SURVEYS		
95% Shale, 5% Limestone				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.0 ft	15240 ft	90.66°	167.59
				MOTOR	27.0 ft			
WASTE DISPOSAL SITE:				XO	2.8 ft			
DAILY FW (bbls)		CML FW		Tool Carrier	30.0 ft			
DAILY BW (bbls)		CML BW	3200	XO	3.8 ft			
				NMDC	30.8 ft			
TOTAL DRILLED GAS		<div>DC SIZE</div> <div>6"</div> <div>DP SIZE</div> <div>5" - 4 1/2IF</div>		78 - 5" DP	2455.2 ft			
GAS	Units			Agitator	17.0 ft			
Background Gas:				Shock Sub	10.8 ft			
Connection Gas:				207 - 5" DP	6515.2 ft			
Trip Gas:				27- 5" HWDP	830.7 ft			
Max Gas:								
ACCIDENTS		FUEL (gals)						
NONE		Start	7415	BHA Length	9924.3 ft	SLOW PUMP RATES		
		Received	7194	DRILL PIPE	5455 ft		PSI	SPM
		End	13267	WEIGHT OF BHA	304 M	Pump #1	30	320
		Consumed	1342			Pump #2	30	320

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12	68	95	284.82	6.78
2	National 12-P160	6	12	68	95	284.82	6.78

M Whitefield

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WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	8/27/16	DAY:	30
OPERATIONS:		TIH		DEPTH (MD):	15379	DEPTH (TVD):	9422	PROGRESS:			
CONTRACTOR & CONTACT:		Latshaw 5 / Darrell Waites		SUPV:	King / Rogers	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			

BIT RECORD		Present Bit			Previous Bit			MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION			
BIT NO		RR11			RR11			MW	9.2	Bulk gel		RU/RD		21.5	
SIZE		8.75			8 3/4			VIS	29	Paper		DRLG		286.0	
MFG		Security			Security			PV	5	Lime		REAM/WASH		5.0	13.0
TYPE		MM65DRM			MM65DRM			YP	4	MF-55		SURVEY			
SER. NO		12429796			12429796			GELS	2 / 2	Soda ash		TRIP		18.5	185.0
NOZZLES		6 x 22			6 x 22			pH	9	Poly vis II		RIG SERV		0.5	13.5
TFA		2.2262			1.1131			WL	29	Caustic Soda		CIRC & COND		38.0	
OUT					8820			HP/HT		Barite		68	RUN CSG/CMT		26.5
IN		15379			8820			FC	1.5 / 32	Nutshell		WOC		18.5	
FOOTAGE		-15379						CL	42000	Shrink Wrap		NU/TST BOP		21.0	
HOURS								Ca	1280	FW Gel SX		RIG REPAIR		7.0	
FT/HR		#DIV/0!						Sand		Master CLR P		20	LOG		22.5
								Solids	3.37	Master CLR		FISHING/STUCK			
								Oil %		Master BLK		13	CORE		
										Cal Carb 200		DST			
										Cal Carb 400		KICK			
										Cal Carb 600		LOST CIRC.			
BIT #					DULL COND:										
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC		33.0	
								Cum Mud \$		Delivery		TOTAL (Daily/cum)		24.0	685.5

SHOWS/FLARE REPORT				BHA	14	SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.0 ft			
				Motor	27.4 ft			
WASTE DISPOSAL SITE:				XO	2.8 ft			
DAILY FW (bbls)		CML FW		Tool Carrier	30.0 ft			
DAILY BW (bbls)		CML BW	3200	XO	3.8 ft			
				NMDC	30.8 ft			
TOTAL DRILLED GAS		<div>DC SIZE</div> <div>6"</div> <div>DP SIZE</div> <div>5" - 4 1/2IF</div>		78 DP	2455.2 ft			
GAS	Units			Agitator	26.3 ft			
Background Gas:				207 DP	6515.2 ft			
Connection Gas:				27 HWDP	830.7 ft			
Trip Gas:								
Max Gas:								
ACCIDENTS		FUEL (gals)						
		Start	12167	BHA Length	9923.2 ft	SLOW PUMP RATES		
		Received		DRILL PIPE	5456 ft		PSI	SPM
		End	11484	WEIGHT OF BHA		Pump #1		
		Consumed	683			Pump #2		

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Daily Drilling Report



WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	8/30/16	DAY:	33
OPERATIONS:		CUC		DEPTH (MD):	17252	DEPTH (TVD):	9421	PROGRESS:	1,037		
CONTRACTOR & CONTACT:		Latshaw 5 / Darrell Waites		SUPV:	King / Rogers	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
3600	136	578	80	162							

BIT RECORD		Present Bit			Previous Bit			MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION		
BIT NO		RR11			RR9			MW	9	Bulk gel		RU/RD		21.5
SIZE		8 3/4			8.75			VIS	29	Paper		DRLG	16.0	315.0
MFG		Security			Baker			PV	5	Lime	24	REAM/WASH		17.5
TYPE		MM65DRM			VGD-E30C			YP	4	MF-55		SURVEY		
SER. NO		12429796			5255201			GELS	1 / 1	Soda ash		TRIP		188.0
NOZZLES		6 x 22			3 x 22			pH	10.3	Poly vis II		RIG SERV		15.0
TFA		2.2262			1.1131			WL	16	Caustic Soda	5	CIRC & COND	8.0	46.0
OUT		17252			8820			HP/HT		Barite		RUN CSG/CMT		26.5
IN		15379			8820			FC	1 / 32	Nutshell		WOC		18.5
FOOTAGE		1873						CL	32000	Shrink Wrap		NU/TST BOP		21.0
HOURS		29						Ca	1000	FW Gel SX		RIG REPAIR		28.0
FT/HR		65						Sand		Master CLR P		LOG		25.5
								Solids	2.5	Master CLR	36	FISHING/STUCK		
								Oil %		Master BLK	1	CORE		
										Master Sld	2	DST		
										Cal Carb 400		KICK		
										Cal Carb 600		LOST CIRC.		
BIT #		DULL COND:								Engineering	1	MISC		33.0
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Delivery		TOTAL (Daily/cum)	24.0	755.5
								Cum Mud \$						

SHOWS/FLARE REPORT				BHA	14	SURVEYS		
95% Shale, 5% Limestone				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.0 ft	16267 ft	87.58°	168.56°
				Motor	27.4 ft	16360 ft	88.99°	168.12°
WASTE DISPOSAL SITE:				XO	2.8 ft	16454 ft	90.48°	167.68°
DAILY FW (bbls)		CML FW		Tool Carrier	30.0 ft	16549 ft	92.15°	167.77°
DAILY BW (bbls)		CML BW	3200	XO	3.8 ft	16644 ft	92.15°	168.73°
				NMDC	30.8 ft	16737 ft	89.87°	169.08°
TOTAL DRILLED GAS		<div>DC SIZE</div> <div>6"</div> <div>DP SIZE</div> <div>5" - 4 1/2IF</div>		78 DP	2455.2 ft	16832 ft	90.48°	168.47°
GAS	Units			Agitator	26.3 ft	16926 ft	91.28°	167.68°
Background Gas:				207 DP	6515.2 ft	17019 ft	90.22°	167.94°
Connection Gas:				27 HWDP	830.7 ft	17113 ft	87.41°	167.59°
Trip Gas:								
Max Gas:								
ACCIDENTS		FUEL (gals)						
	Start	8503	BHA Length	9923.2 ft	SLOW PUMP RATES			
	Received		DRILL PIPE	7329 ft		PSI	SPM	
	End		WEIGHT OF BHA		Pump #1	40	400	
	Consumed	8503			Pump #2	40	380	

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WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	8/31/16	DAY:	34
OPERATIONS:		TOH		DEPTH (MD):	17919	DEPTH (TVD):	9408	PROGRESS:	667		
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Rogers	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
3745	140	586	80	182							

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION						
BIT NO		RR11		RR9		MW		9.0		Bulk gel		RU/RD		21.5		
SIZE		8 3/4		8.75		VIS		32		Paper		DRLG	10.5	325.5		
MFG		Security		Baker		PV		5		Lime		REAM/WASH		17.5		
TYPE		MM65DRM		VGD-E30C		YP		7		MF-55		SURVEY				
SER. NO		12429796		5255201		GELS		1/2		Soda ash		TRIP	0.5	188.5		
NOZZLES		6 x 22		3 x 22		pH		9.3		Poly vis II		RIG SERV	0.5	15.5		
TFA		2.2262		1.1131		WL		6.0		Caustic Soda		CIRC & COND	12.5	58.5		
OUT		17919		8820		HP/HT		0		Barite		RUN CSG/CMT		26.5		
IN		15379		8820		FC		1/32		Nutshell		WOC		18.5		
FOOTAGE		2540				Cl		45000		Shrink Wrap		NU/TST BOP		21.0		
HOURS		39.5				Ca		1160		FW Gel SX		RIG REPAIR		28.0		
FT/HR		64				Sand		4.6		Master CLR P		LOG		25.5		
						Solids		2.00		Master CLR		FISHING/STUCK				
						Oil %		0		Master BLK		CORE				
										Master Sld		DST				
										Cal Carb 400		KICK				
										Cal Carb 600		LOST CIRC.				
BIT #				DULL COND:								Engineering	1	MISC		33.0
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		1						
								Cum Mud \$		Delivery		TOTAL (Daily/cum)		24.0	779.5	

SHOWS/FLARE REPORT				BHA	14	SURVEYS		
95% Shale, 5% Limestone				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.0 ft	17207 ft	88.29°	167.77
				Motor	27.4 ft	17301 ft	89.52°	166.98
WASTE DISPOSAL SITE:				XO	2.8 ft	17393 ft	90.66°	166.45
DAILY FW (bbls)		CML FW		Tool Carrier	30.0 ft	17487 ft	92.07°	166.54
DAILY BW (bbls)		CML BW	3200	XO	3.8 ft	17580 ft	93.56°	166.01
				NMDC	30.8 ft	17673 ft	90.40°	166.45
TOTAL DRILLED GAS		<div>DC SIZE</div> <div>6"</div> <div>DP SIZE</div> <div>5" - 4 1/2IF</div>		78 DP	2455.2 ft	17768 ft	91.80°	166.8
GAS	Units			Agitator	26.3 ft	17861 ft	92.68°	166.01
Background Gas:				207 DP	6515.2 ft	17919 ft	92.68°	166.01
Connection Gas:				27 HWDP	830.7 ft			
Trip Gas:								
Max Gas:								
ACCIDENTS		FUEL (gals)						
None	Start		BHA Length	9923.2 ft	SLOW PUMP RATES			
	Received	7198	DRILL PIPE	7996 ft		PSI	SPM	
	End	11385	WEIGHT OF BHA	443 M	Pump #1	255	30	
	Consumed	-4187			Pump #2	265	30	

M Whitefield

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Daily Drilling Report

APE # :	100054.046.01	APE DEPTH	17,495	APE DAYS	27
		LAST BOP TEST	09/02/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	9/1/16	DAY:	35
OPERATIONS:		TIH		DEPTH (MD):	17919	DEPTH (TVD):	9408	PROGRESS:			
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Janak	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			

[illegible]

BIT RECORD		Present Bit			Previous Bit			MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION		
BIT NO		RR9			RR11			MW	9.1	Bulk gel		RU/RD		21.5
SIZE		8 3/4			8 3/4			VIS	32	Paper		DRLG		325.5
MFG		Baker			Security			PV	6	Lime		REAM/WASH	0.5	18.0
TYPE		VGD-30C			MM65DRM			YP	9	MF-55		SURVEY		
SER. NO		5255201			12429796			GELS	2/2	Soda ash		TRIP	17.5	206.0
NOZZLES		3X22			6X22			pH	9.0	Poly vis II		RIG SERV	1.5	17.0
TFA		1.1131			2.2262			WL	9.0	Caustic Soda		CIRC & COND		58.5
OUT		8820			17919			HP/HT	0	Barite		RUN CSG/CMT		26.5
IN		8820			15379			FC	1/32	Nutshell		WOC		18.5
FOOTAGE					2540			CL	46000	Shrink Wrap	5	NU/TST BOP	4.5	25.5
HOURS					39.5			Ca	1600	FW Gel SX		RIG REPAIR		28.0
FT/HR		#DIV/0!			64			Sand	5.4	Master CLR P		LOG		25.5
								Solids	2.70	Master CLR		FISHING/STUCK		
								Oil %	0	Master BLK		CORE		
										Master Sid		DST		
										Cal Carb 400		KICK		
										Cal Carb 600		LOST CIRC.		
BIT #		RR11	DULL COND:											
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC		33.0
2	4	CT	G	N	0.25	LT	TD	Cum Mud \$		Delivery		TOTAL (Daily/cum)	24.0	803.5

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	22:00	8.00			TOH to test BOP's			
22:00	23:00	1.00			Laydown DD Tools			
23:00	3:30	4.50			Test BOPS (Choke & Rams 250PSI LOW 5000PSI HIGH)/ Install wear bushing			
3:30	7:00	3.50			TIH W/ Clean out BHA Assembly			
7:00	8:30	1.50			Slip & Cut drill line			
8:30	9:00	0.50			TIH W/ Clean out BHA Assembly			
9:00	9:30	0.50			Attempt to work past top of curve @ 8798'. Tagged @ 8830'			
9:30	13:00	3.50			TOH - change out BHA			
13:00	14:00	1.00			PU & MU directional tool			
TOTAL HRS:		24.0	Motor Specs:	VON: 6 3/4", 6/7 lobe, 5.0 stage, 1.75° fixed, 0.31 RPG		DAILY AVG		

SHOWS/FLARE REPORT				BHA	14	SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.0 ft			
				Motor	27.5 ft			
WASTE DISPOSAL SITE:				XO	2.8 ft			
DAILY FW (bbls)		CML FW		Tool Carrier	30.0 ft			
DAILY BW (bbls)		CML BW	3200	XO	3.8 ft			
				NMDC	30.8 ft			
TOTAL DRILLED GAS		<div>DC SIZE</div> <div>6"</div> <div>DP SIZE</div> <div>5" - 4 1/2IF</div>		9 Stands DP	910.1 ft			
GAS	Units			XO	3.0 ft			
Background Gas:				Watermelon Mill	5.7 ft			
Connection Gas:				XO	3.0 ft			
Trip Gas:				1 Jt DP	31.7 ft			
Max Gas:				XO	1.0 ft			
				Watermelon Mill	3.6 ft			
				XO	2.1 ft			
ACCIDENTS				FUEL (gals)		9 Stands HWDP	830.7 ft	
NONE	Start	11385	BHA Length	1886.7 ft	SLOW PUMP RATES			
	Received		DRILL PIPE	16032 ft		PSI	SPM	
	End	9699	WEIGHT OF BHA		Pump #1			
	Consumed	1686			Pump #2			

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12		95		
2	National 12-P160	6	12		95		

M Whitefield

Reviewed & Approved By

Daily Drilling Report

APE # :	100054.046.01	APE DEPTH	17,495	APE DAYS	27
		LAST BOP TEST	09/01/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	9/2/16	DAY:	36
OPERATIONS:		Wash & Ream top of curve		DEPTH (MD):	17919	DEPTH (TVD):	9408	PROGRESS:			
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Janak	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
1604	120	502	30	156							

[illegible]

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION				
BIT NO		RR9		RR11		MW		9.2		Bulk gel		RU/RD		21.5
SIZE		8 3/4		8.75		VIS		33		Paper		DRLG		325.5
MFG		Baker		Security		PV		8		Lime		REAM/WASH	14.5	32.5
TYPE		VGD-30C		MM65DRM		YP		9		MF-55		SURVEY		
SER. NO		5255201		12429796		GELS		2/3		Soda ash		TRIP	9.0	215.0
NOZZLES		3X22		6X22		pH		9.1		Poly vis II		RIG SERV	0.5	17.5
TFA		1.1131		2.2262		WL		7.0		Caustic Soda		5	CIRC & COND	58.5
OUT				17919		HP/HT		0		Barite		32	RUN CSG/CMT	26.5
IN		8820		15379		FC		1/32		Nutshell			WOC	18.5
FOOTAGE		-8820		2540		CL		48000		Shrink Wrap			NU/TST BOP	25.5
HOURS				39.5		Ca		1320		FW Gel SX			RIG REPAIR	28.0
FT/HR		#DIV/0!		64		Sand		0		Master CLR P		27	LOG	25.5
						Solids		3.35		Master CLR			FISHING/STUCK	
						Oil %				Master BLK			CORE	
										Master Sld			DST	
										Cal Carb 400			KICK	
										Cal Carb 600			LOST CIRC.	
BIT #				DULL COND:										
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC		33.0
								Cum Mud \$		Delivery		TOTAL (Daily/cum)	24.0	827.5

TIME					ACTIVITY	TRPM	WOB	ROP
START	END	HRS	FROM	TO			(M lbs)	(fph)
14:00	15:00	1.00			Finish MU directional tools (see BHA)			
15:00	16:00	1.00			Test MWD - TIH with (2.38 mtr) & watermellon mills			
16:00	16:30	0.50			Service Rig			
16:30	21:00	4.50			TIH with (2.38 mtr) & watermellon mills			
21:00	2:00	5.00			Wash & ream thru top of curve	156		
2:00	3:00	1.00			TOOH to top of curve			
3:00	7:30	4.50			Orient tool to get thru top of curve			
7:30	8:00	0.50			TIH to clean top of curve with mills			
8:00	11:00	3.00			Wash & ream thru top of curve	156		
11:00	11:30	0.50			TOOH to top of curve			
11:30	12:00	0.50			Orient tool to get thru top of curve			
12:00	12:30	0.50			TIH to clean top of curve with mills			
12:30	14:00	1.50			Wash & ream thru top of curve	156		
TOTAL HRS:		24.0	Motor Specs:		VON: 6 3/4", 6/7 Lobe, 5.0 Stage, 2.38 Adj, .31 RPG	DAILY AVG		

SHOWS/FLARE REPORT				BHA	14	SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.0 ft			
				Motor	27.5 ft			
WASTE DISPOSAL SITE:				XO	2.8 ft			
DAILY FW (bbls)		CML FW		Tool Carrier	30.0 ft			
DAILY BW (bbls)		CML BW	3200	XO	3.8 ft			
				NMDC	30.8 ft			
TOTAL DRILLED GAS				9 Stands DP	910.1 ft			
GAS	Units	DC SIZE		XO	3.0 ft			
Background Gas:		6"		Watermelon Mill	5.7 ft			
Connection Gas:				XO	3.0 ft			
Trip Gas:		DP SIZE		1 Jt DP	31.7 ft			
Max Gas:		5" - 4 1/2IF		XO	1.0 ft			
				Watermelon Mill	3.6 ft			
				XO	2.1 ft			
ACCIDENTS		FUEL (gals)		9 Stands HWDP	830.7 ft			
None	Start	9699	BHA Length	1886.7 ft	SLOW PUMP RATES			
	Received		DRILL PIPE	16032 ft		PSI	SPM	
	End	8802	WEIGHT OF BHA		Pump #1	255	30	
	Consumed	897			Pump #2	265	30	

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12	60	95	251.31	5.98
2	National 12-P160	6	12	60	95	251.31	5.98

Reviewed & Approved By

Daily Drilling Report

APE # :	100054.046.01	APE DEPTH	17,495	APE DAYS	27
		LAST BOP TEST	09/01/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	9/3/16	DAY:	37
OPERATIONS:		TIH		DEPTH (MD):	17919	DEPTH (TVD):	9408	PROGRESS:			
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Janak	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			

[illegible]

BIT RECORD		Present Bit			Previous Bit			MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION		
BIT NO					RR9			MW	9.1	Bulk gel		RU/RD		21.5
SIZE					8.75			VIS	32	Paper		DRLG		325.5
MFG					Baker			PV	6	Lime		REAM/WASH	3.5	36.0
TYPE					VGD-30C			YP	8	MF-55		SURVEY		
SER. NO					5255201			GELS	1/2	Soda ash		TRIP	19.5	234.5
NOZZLES					3x22			pH	9.0	Poly vis II		RIG SERV	1.0	18.5
TFA					1.1131			WL	6.0	Caustic Soda		CIRC & COND		58.5
OUT					8870			HP/HT	0	Barite	30	RUN CSG/CMT		26.5
IN					8798			FC	1/32	Nutshell		WOC		18.5
FOOTAGE					72			CL	50000	Shrink Wrap		NU/TST BOP		25.5
HOURS					14.5			Ca	1440	FW Gel SX		RIG REPAIR		28.0
FT/HR		#DIV/0!			5			Sand	0	Master CLR P	25	LOG		25.5
								Solids	2.43	Master CLR		FISHING/STUCK		
								Oil %	0	Master BLK		CORE		
										Master Sld	1	DST		
										Cal Carb 400		KICK		
										Cal Carb 600		LOST CIRC.		
BIT #		RR9	DULL COND:											
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC		33.0
1	1	NO	A	E	O	NO	BHA	Cum Mud \$		Delivery		TOTAL (Daily/cum)	24.0	851.5

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	15:30	1.50			Wash & ream thru top of curve			
15:30	16:00	0.50			TOOH to top of curve			
16:00	16:30	0.50			Orient tool to get thru top of curve			
16:30	18:30	2.00			Spot lube pill, Pump slug (35bbbls, 10lbs/32 vis), TOH			
18:30	19:00	0.50			Service Rig			
19:00	22:00	3.00			TOOH			
22:00	23:30	1.50			Lay down directional tools			
23:30	5:00	5.50			TIH W/ Slick hole assembly			
5:00	5:30	0.50			Service Rig			
5:30	7:00	1.50			Attempt to work thru top of curve w/ slick assembly			
7:00	10:00	3.00			Pump slug (30bbbls, 10lbs/32 vis), TOO H			
10:00	13:00	3.00			PU & MU directional tools (see BHA)			
13:00	14:00	1.00			TIH with (1.83 mtr) tapered mill & watermellon mill			
TOTAL HRS:	24.0	Motor Specs:	VON: 6 3/4"	6/7 Lobe,	5.0 Stage, 1.83 Adj, .31 RPG	DAILY AVG		

SHOWS/FLARE REPORT				BHA	14	SURVEYS				
				Description	Length	DEPTH	DEVIATION	AZIMUTH		
				Tapered Mill	2.6 ft					
				Motor	27.5 ft					
WASTE DISPOSAL SITE:				XO	3.0 ft					
DAILY FW (bbls)		CML FW		Watermelon Mill	5.7 ft					
DAILY BW (bbls)		CML BW	3200	XO	3.0 ft					
				XO	2.8 ft					
TOTAL DRILLED GAS		<div>DC SIZE</div> <div>6"</div> <div>DP SIZE</div> <div>5" - 4 1/2IF</div>		NMDC	30.0 ft					
GAS	Units			XO	3.8 ft					
Background Gas:				NMDC	30.8 ft					
Connection Gas:				10 Stands 5" DP	941.8 ft					
Trip Gas:				9 Stands 5" HWDP	830.7 ft					
Max Gas:										
ACCIDENTS		FUEL (gals)								
NONE		Start	8802	BHA Length	1881.6 ft	SLOW PUMP RATES				
		Received		DRILL PIPE	16037 ft		PSI	SPM		
		End	7809	WEIGHT OF BHA		Pump #1				
		Consumed	993			Pump #2				

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12		95		
2	National 12-P160	6	12		95		

Reviewed & Approved By



WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	9/4/16	DAY:	38
OPERATIONS:		TOH		DEPTH (MD):	17919	DEPTH (TVD):	9408	PROGRESS:			
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Janak	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			

BIT RECORD		Present Bit			Previous Bit			MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION		
BIT NO					RR9			MW	9.1	Bulk gel		RU/RD		21.5
SIZE					8.75			VIS	33	Paper		DRLG		325.5
MFG					Baker			PV	5	Lime		REAM/WASH	3.5	39.5
TYPE					VGD-30C			YP	8	MF-55		SURVEY		
SER. NO					5255201			GELS	2/2	Soda ash		TRIP	14.5	249.0
NOZZLES					3x22			pH	8.8	Poly vis II		RIG SERV	1.0	19.5
TFA					1.1131			WL	7.0	Caustic Soda		CIRC & COND		58.5
OUT					8870			HP/HT	0	Barite	41	RUN CSG/CMT		26.5
IN					8798			FC	1/32	Nutshell		WOC		18.5
FOOTAGE					72			CL	51000	Shrink Wrap		NU/TST BOP		25.5
HOURS					14.5			Ca	1560	FW Gel SX		RIG REPAIR	5.0	33.0
FT/HR		#DIV/0!			5			Sand	0	Master CLR P	18	LOG		25.5
								Solids	2.36	Master CLR		FISHING/STUCK		
								Oil %	0	Master BLK		CORE		
										Master Sld		DST		
										Cal Carb 400		KICK		
										Cal Carb 600		LOST CIRC.		
BIT #					DULL COND:					Engineering	1	MISC		33.0
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Delivery		TOTAL (Daily/cum)	24.0	875.5
								Cum Mud \$						

SHOWS/FLARE REPORT				BHA	14	SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Tapered Mill	2.6 ft			
				Motor	27.5 ft			
WASTE DISPOSAL SITE:				XO	2.8 ft			
DAILY FW (bbls)		CML FW		NMDC	30.0 ft			
DAILY BW (bbls)		CML BW	3200	XO	3.8 ft			
				NMDC	30.8 ft			
TOTAL DRILLED GAS				10 Stands 5" DP	941.8 ft			
GAS	Units	DC SIZE 6"		9 Stands 5" HWDP	830.7 ft			
Background Gas:								
Connection Gas:								
Trip Gas:		DP SIZE 5" - 4 1/2IF						
Max Gas:								
ACCIDENTS		FUEL (gals)						
		Start	7809	BHA Length	30.1 ft	SLOW PUMP RATES		
		Received		DRILL PIPE	17889 ft		PSI	SPM
		End		WEIGHT OF BHA		Pump #1		
		Consumed	7809			Pump #2		

Reviewed & Approved By



WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	9/5/16	DAY:	39
OPERATIONS:		TIH		DEPTH (MD):	17919	DEPTH (TVD):	9408	PROGRESS:			
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Janak	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION					
BIT NO		RR9		RR9		MW		9.2		Bulk gel		RU/RD		21.5	
SIZE		8 3/4		8.75		VIS		35		Paper		DRLG		325.5	
MFG		BAKER		Baker		PV		9		13		REAM/WASH		40.0	
TYPE		VGD-30C		VGD-30C		YP		11		MF-55		SURVEY			
SER. NO		5255201		5255201		GELS		3/4		Soda ash		TRIP		21.5	
NOZZLES		3X22		3x22		pH		9.0		Poly vis II		RIG SERV		19.5	
TFA		1.1131		1.1131		WL		6.0		Caustic Soda		CIRC & COND		2.0	
OUT		8870		8870		HP/HT		0		Barite		57		RUN CSG/CMT	
IN		8798		8798		FC		1/32		Nutshell		WOC		18.5	
FOOTAGE		72		72		CL		56000		Shrink Wrap		NU/TST BOP		25.5	
HOURS		14.5		14.5		Ca		1400		FW Gel SX		RIG REPAIR		33.0	
FT/HR		5		5		Sand		0		Master CLR P		LOG		25.5	
						Solids		2.79		Master CLR		FISHING/STUCK			
						Oil %		0		Master BLK		CORE			
										Master Sld		DST			
										Cal Carb 400		KICK			
										Cal Carb 600		LOST CIRC.			
BIT #				DULL COND:											
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC		33.0	
								Cum Mud \$		Delivery		TOTAL (Daily/cum)	24.0	899.5	

SHOWS/FLARE REPORT				BHA	15	SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.0 ft			
				Motor	27.06 ft			
WASTE DISPOSAL SITE:				XO	2.83 ft			
DAILY FW (bbls)		CML FW		NMDC	30.01 ft			
DAILY BW (bbls)		CML BW	3200	XO	3.75 ft			
				NMDC	30.83 ft			
TOTAL DRILLED GAS		<div>DC SIZE</div> <div>6"</div> <div>DP SIZE</div> <div>5" - 4 1/2F</div>		94 Stands 5" DP	8853.76 ft			
GAS	Units			2 JTS 5" DP	62.00 ft			
Background Gas:				8-5/8" Reamer	6.25 ft			
Connection Gas:				1 JT 5" DP	31.00 ft			
Trip Gas:				8-5/8" Reamer	6.44 ft			
Max Gas:				85 JTS 5" DP	8006.06 ft			
				9 Stands 5" HWDP	830.69 ft			
				1 JT 5" DP	31.00 ft			
ACCIDENTS		FUEL (gals)						
None	Start Received		BHA Length		SLOW PUMP RATES			
		7260	DRILL PIPE	17919 ft		PSI	SPM	
	End	6150	WEIGHT OF BHA		Pump #1			
	Consumed	1110			Pump #2			

M Whitefield

Reviewed & Approved By

Daily Drilling Report

APE # :	100054.046.01	APE DEPTH	17,495	APE DAYS	27
		LAST BOP TEST	09/01/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	9/6/16	DAY:	40
OPERATIONS:		Circulating clean up cycle		DEPTH (MD):	17919	DEPTH (TVD):	9408	PROGRESS:			
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Janak	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
3200	140	586	25	182							

[illegible]

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION			
BIT NO		RR9		RR9		MW		9.1	Bulk gel	8	RU/RD		21.5
SIZE		8 3/4		8.75		VIS		32	Paper		DRLG		325.5
MFG		BAKER		Baker		PV		6	Lime		REAM/WASH	13.0	53.0
TYPE		VGD-30C		VGD-30C		YP		9	MF-55		SURVEY		
SER. NO		5255201		5255201		GELS		2/2	Soda ash	10	TRIP	1.5	272.0
NOZZLES		3X22		3x22		pH		9.0	Poly vis II	4	RIG SERV		19.5
TFA		1.1131		1.1131		WL		15	Caustic Soda	5	CIRC & COND	9.5	70.0
OUT				8870		HP/HT		0	Barite		RUN CSG/CMT		26.5
IN		8798		8798		FC		1/32	Nutshell		WOC		18.5
FOOTAGE		-8798		72		CL		45000	Shrink Wrap		NU/TST BOP		25.5
HOURS				14.5		Ca		1240	FW Gel SX		RIG REPAIR		33.0
FT/HR		#DIV/0!		5		Sand		0	Master CLR P	28	LOG		25.5
						Solids		2.78	Master CLR	18	FISHING/STUCK		
						Oil %		0	Master BLK		CORE		
									Master Sld		DST		
									Cal Carb 400		KICK		
									Cal Carb 600		LOST CIRC.		
BIT #				DULL COND:									
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC	33.0
								Cum Mud \$		Delivery	1	TOTAL (Daily/cum)	24.0 923.5

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	15:30	1.50			TIH with (2.12 mtr)			
15:30	16:30	1.00			Circulate bottoms up			
16:30	20:30	4.00			Wash to 15,200 ft			
20:30	21:00	0.50			Circulate bottoms up			
21:00	6:00	9.00			Wash to 17,919 ft			
6:00	14:00	8.00			Circ. pump sweeps (12 sweeps @ 10.15lb 61 Vis) & clean hole	207		
TOTAL HRS:		24.0	Motor Specs:		VON: 6 3/4", 6/7 Lobe, 5.0 Stage, 2.12 Adj, .31 RPG	DAILY AVG		

SHOWS/FLARE REPORT				BHA	15	SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.0 ft			
				Motor	27.06 ft			
WASTE DISPOSAL SITE:				XO	2.83 ft			
DAILY FW (bbls)		CML FW		NMDC	30.01 ft			
DAILY BW (bbls)		CML BW	3200	XO	3.75 ft			
				NMDC	30.83 ft			
TOTAL DRILLED GAS				94 Stands 5" DP	8853.76 ft			
GAS	Units	DC SIZE <div>6"</div> DP SIZE <div>5" - 4 1/2IF</div>		2 JTS 5" DP	62.00 ft			
Background Gas:				8-5/8" Reamer	6.25 ft			
Connection Gas:				1 JT 5" DP	31.00 ft			
Trip Gas:				8-5/8" Reamer	6.44 ft			
Max Gas:				85 JTS 5" DP	8006.06 ft			
				9 Stands 5" HWD	830.69 ft			
				1 JT 5" DP	31.00 ft			
ACCIDENTS		FUEL (gals)						
NONE	Start	13314	BHA Length			SLOW PUMP RATES		
	Received		DRILL PIPE		17919 ft		PSI	SPM
	End	12167	WEIGHT OF BHA			Pump #1	255	30
	Consumed	1147				Pump #2	265	30

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12	70	95	293.20	6.98
2	National 12-P160	6	12	70	95	293.20	6.98

M Whitefield

Reviewed & Approved By



WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	9/7/16	DAY:	41
OPERATIONS:		Ciraculating clean up cycle		DEPTH (MD):	17919	DEPTH (TVD):	9408	PROGRESS:			
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Janak	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
3488	140	586	50	182							

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION					
BIT NO		RR9		RR9		MW		9.05		Bulk gel		RU/RD		21.5	
SIZE		8 3/4		8.75		VIS		34		LCF Super		22		325.5	
MFG		BAKER		Baker		PV		7		Lime		1		59.0	
TYPE		VGD-30C		VGD-30C		YP		10		MF-55		SURVEY			
SER. NO		5255201		5255201		GELS		2/3		Soda ash		20		277.0	
NOZZLES		3X22		3x22		pH		9.3		Poly vis II		RIG SERV		19.5	
TFA		1.1131		1.1131		WL		24		Caustic Soda		10		83.0	
OUT				8870		HP/HT		0		Barite		112		26.5	
IN		8798		8798		FC		2/32		Nutshell		WOC		18.5	
FOOTAGE		-8798		72		CL		51000		Shrink Wrap		11		25.5	
HOURS				14.5		Ca		920		FW Gel SX		RIG REPAIR		33.0	
FT/HR		#DIV/0!		5		Sand		0		Master CLR P		22		25.5	
						Solids		1.97		Master CLR		4		FISHING/STUCK	
						Oil %		0		Master BLK				CORE	
										Master Sld		4		DST	
										Cal Carb 400				KICK	
										Cal Carb 600				LOST CIRC.	
BIT #				DULL COND:											
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC		33.0	
								Cum Mud \$		Delivery	1	TOTAL (Daily/cum)	24.0	947.5	

TOTAL HRS:	24.0	Motor Specs:	VON: 6 3/4", 6/7 Lobe, 5.0 Stage, 2.12 Adj, .31 RPG				DAILY AVG	

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12	70	95	293.20	6.98
2	National 12-P160	6	12	70	95	293.20	6.98

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Daily Drilling Report

AFE # :	100054.046.01	AFE DEPTH	17,495	AFE DAYS	27
			09/01/16		25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	9/8/16	DAY:	42
OPERATIONS:		Run Casing		DEPTH (MD):	17919	DEPTH (TVD):	9408	PROGRESS:			
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Janak	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			

DRILLING MECHANICS				CASING STRINGS							
PICK UP WEIGHT			PLAN	ACTUAL	SET DATE	SIZE	WT	GRADE	THRD	LOT/FIT	\$/ft
SLACK OFF WEIGHT			400	403	7/19/2016	13 3/8	48	H-40	STC		\$ 27.00
ROTATING WEIGHT			8,000	8,035	8/9/2016	9 5/8	40	HCL-80	LTC		\$ 23.00
TORQUE ON BOTTOM			16,560			5 1/2	20	P-110	CDC		\$ 17.00
TORQUE OFF BOTTOM											\$ -

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION	
BIT NO		RR9		RR9		MW	9	Bulk gel		RU/RD	21.5
SIZE		8 3/4		8.75		VIS	38	LCF Super		DRLG	325.5
MFG		BAKER		Baker		PV	11	Lime		REAM/WASH	59.0
TYPE		VGD-30C		VGD-30C		YP	9	MF-55		SURVEY	
SER. NO		5255201		5255201		GELS	3/4	Soda ash		TRIP	9.5
NOZZLES		3X22		3x22		pH	9.1	Poly vis II		RIG SERV	19.5
TFA		1.1131		1.1131		WL	29	Caustic Soda		CIRC & COND	1.0
OUT				8870		HP/HT	0	Barite		RUN CSG/CMT	12.8
IN		8798		8798		FC	3/32	Nutshell		WOC	18.5
FOOTAGE		-8798		72		CL	48000	Shrink Wrap		NU/TST BOP	25.5
HOURS				14.5		Ca	1200	FW Gel SX		RIG REPAIR	33.0
FT/HR		#DIV/0!		5		Sand	0	Master CLR P		LOG	25.5
						Solids	1.79	Master CLR		FISHING/STUCK	
						Oil %	0	Master BLK		CORE	
								Master Sld		DST	
								Cal Carb 400		KICK	
								Cal Carb 600		LOST CIRC.	
BIT #		DULL COND:									
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	
								Cum Mud \$		Delivery	
										TOTAL (Daily/cum)	24.0
											971.5

TIME					ACTIVITY					TRPM	WOB	ROP
START	END	HRS	FROM	TO							(M lbs)	(fph)
14:00	15:00	1.00			Spot lube pill							
15:00	23:00	8.00			Pump slug (40bbbls, 10.5lbs/32 vis), TOOHO							
23:00	0:30	1.50			Break bit & laydown DD tools							
0:30	1:15	0.75			Pull wear bushing							
1:15	4:45	3.50			Rig up csg crew & laydown truck							
4:45	12:45	8.00			Run 5.5" Prod. Csg (See Csg Report)							
12:45	14:00	1.25			Attempt to work casing thru the top of the curve							
					Note: Bent short shoe jt @ approx 3.0 deg							
TOTAL HRS:		24.0	Motor Specs:		VON: 6 3/4", 6/7 Lobe, 5.0 Stage, 2.12 Adj, .31 RPG					DAILY AVG		

SHOWS/FLARE REPORT				BHA		15	SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH	
				Bit	1.0 ft				
				Motor	27.1 ft				
WASTE DISPOSAL SITE:				XO	2.8 ft				
DAILY FW (bbls)		CML FW		NMDC	30.0 ft				
DAILY BW (bbls)		CML BW	3200	XO	3.8 ft				
				NMDC	30.8 ft				
TOTAL DRILLED GAS				94 Stands 5" DP	8853.8 ft				
GAS	Units	DC SIZE		2 JTS 5" DP	62.0 ft				
Background Gas:		6"		8-5/8" Reamer	6.3 ft				
Connection Gas:				1 JT 5" DP	31.0 ft				
Trip Gas:		DP SIZE		8-5/8" Reamer	6.4 ft				
Max Gas:		5" - 4 1/2IF		85 JTS 5" DP	8006.1 ft				
				9 Stands 5" HWD	830.7 ft				
				1 JT 5" DP	31.0 ft				
ACCIDENTS		FUEL (gals)							
None		Start	9998	BHA Length	17922.7 ft	SLOW PUMP RATES			
		Received		DRILL PIPE	-4 ft		PSI	SPM	
		End	8602	WEIGHT OF BHA		Pump #1	255	30	
		Consumed	1396			Pump #2	265	30	

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12		95		
2	National 12-P160	6	12		95		

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WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	9/9/16	DAY:	43
OPERATIONS:		TIH		DEPTH (MD):	17919	DEPTH (TVD):	9408	PROGRESS:			
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Janak	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION			
BIT NO		RR13		RR9		MW		9.05	Bulk gel	4	RU/RD		21.5
SIZE		8 3/4		8.75		VIS		36	LCF Super				325.5
MFG		BAKER		Baker		PV		9	Lime	4	REAM/WASH		59.0
TYPE		VGD-20C		VGD-30C		YP		8	MF-55		SURVEY		
SER. NO		5254376		5255201		GELS		2/3	Soda ash	5	TRIP	12.5	299.0
NOZZLES		3X22		3x22		pH		9.0	Poly vis II		RIG SERV	2.0	21.5
TFA		1.1131		1.1131		WL		34	Caustic Soda	4	CIRC & COND		84.0
OUT				8870		HP/HT		0	Barite		RUN CSG/CMT	9.5	48.8
IN				8798		FC		3/32	Nutshell		WOC		18.5
FOOTAGE				72		CL		48000	Shrink Wrap		NU/TST BOP		25.5
HOURS				14.5		Ca		1160	FW Gel SX		RIG REPAIR		33.0
FT/HR		#DIV/0!		5		Sand		0	Master CLR P		LOG		25.5
						Solids		2.18	Master CLR		FISHING/STUCK		
						Oil %		0	Master BLK		CORE		
									Master Sld		DST		
									Cal Carb 400		KICK		
									Cal Carb 600		LOST CIRC.		
BIT #				DULL COND:									
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC	33.8
								Cum Mud \$		Delivery	1	TOTAL (Daily/cum)	24.0 995.5

SHOWS/FLARE REPORT				BHA	15	SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.0 ft			
				Motor	32.17 ft			
WASTE DISPOSAL SITE:				XO	2.8 ft			
DAILY FW (bbls)		CML FW		NMDC	30.0 ft			
DAILY BW (bbls)		CML BW	3200	XO	3.8 ft			
				NMDC	30.8 ft			
TOTAL DRILLED GAS				1 Stand 5" DP	94.8 ft			
GAS	Units	DC SIZE		8-1/4" integral stab	6.1 ft			
Background Gas:		6"		93 Stands 5" DP	8654.82 ft			
Connection Gas:				1 Jt 5" DP	31.64 ft			
Trip Gas:		DP SIZE		8-5/8" Reamer	6.0 ft			
Max Gas:		5" - 4 1/2IF		1 Jt 5"DP	31.70 ft			
				8-5/8" Reamer	6.00 ft			
				1 JT 5" DP	31.7 ft			
ACCIDENTS		FUEL (gals)						
NONE	Start	8602	BHA Length	207.1 ft	SLOW PUMP RATES			
	Received		DRILL PIPE	17712 ft				
	End	7809	WEIGHT OF BHA		Pump #1	PSI	SPM	
	Consumed	793			Pump #2			

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WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	9/11/16	DAY:	45
OPERATIONS:		Dress KO Plug		DEPTH (MD):	17919	DEPTH (TVD):	9408	PROGRESS:			
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Janak	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
1435	140	586	60								

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION				
BIT NO		RR13		RR9		MW		8.9	Bulk gel		RU/RD		21.5	
SIZE		8 3/4		8.75		VIS		34	LCF Super		DRLG		325.5	
MFG		BAKER		Baker		PV		7	Lime		REAM/WASH		59.0	
TYPE		VGD-20C		VGD-30C		YP		9	MF-55		SURVEY			
SER. NO		5254376		5255201		GELS		2/3	Soda ash		TRIP	3.5	313.5	
NOZZLES		3X22		3x22		pH		8.0	Poly vis II		RIG SERV		21.5	
TFA		1.1131		1.1131		WL		46	Caustic Soda		CIRC & COND		86.0	
OUT				8870		HP/HT		0	Barite		RUN CSG/CMT		50.8	
IN				8798		FC		2.5/32	Nutshell		WOC	20.0	47.5	
FOOTAGE				72		CL		49000	Shrink Wrap		NU/TST BOP		25.5	
HOURS				14.5		Ca		1280	FW Gel SX		RIG REPAIR		33.0	
FT/HR		#DIV/0!		5		Sand		0	Master CLR P		LOG		25.5	
						Solids		3.2	Master CLR		FISHING/STUCK			
						Oil %		0	Master BLK		CORE			
									Master Sld		DST			
									Cal Carb 400		KICK			
									Cal Carb 600		LOST CIRC.			
BIT #			DULL COND:											
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC	0.5	34.3
								Cum Mud \$		Delivery		TOTAL (Daily/cum)	24.0	1043.5

SHOWS/FLARE REPORT				BHA	15	SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.0 ft			
				BS	2.8 ft			
				XO	2.5 ft			
WASTE DISPOSAL SITE:								
DAILY FW (bbls)		CML FW						
DAILY BW (bbls)		CML BW	3200					
TOTAL DRILLED GAS								
GAS	Units	DC SIZE						
Background Gas:		6"						
Connection Gas:								
Trip Gas:		DP SIZE						
Max Gas:		5" - 4 1/2IF						
ACCIDENTS				FUEL (gals)				
NONE		Start	7022	BHA Length	6.3 ft	SLOW PUMP RATES		
		Received	7142	DRILL PIPE	17913 ft		PSI	SPM
		End	13688	WEIGHT OF BHA		Pump #1		
		Consumed	476			Pump #2		

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Daily Drilling Report

APE # :	100054.046.01	APE DEPTH	17,495	APE DAYS	27
		LAST BOP TEST	09/01/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	9/15/16	DAY:	49
OPERATIONS:		TIH		DEPTH (MD):	9067	DEPTH (TVD):	9047	PROGRESS:	78		
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Rogers / Janak	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
562	77	322	45								

[illegible]

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION			
BIT NO		15		14		MW		9.0	Bulk gel		RU/RD	21.5	
SIZE		8 3/4		7 7/8		VIS		32	LCF Super		8.0	359.0	
MFG		SMITH		SMITH		PV		5	Lime	4	REAM/WASH	59.0	
TYPE		FH30		FHI30		YP		5	MF-55		SURVEY		
SER. NO		RD6083		RD6083		GELS		2 / 2	Soda ash		TRIP	340.0	
NOZZLES		3X22		3x22		pH		10	Poly vis II		RIG SERV	23.5	
TFA		1.1131		1.1131		WL		42	Caustic Soda		CIRC & COND	91.3	
OUT				9067		HP/HT		0	Barite	108	RUN CSG/CMT	50.8	
IN		9067		8720		FC		33	Nutshell		WOC	47.5	
FOOTAGE		-9067		344		CL		49000	Shrink Wrap		NU/TST BOP	25.5	
HOURS				39		Ca		1250	FW Gel SX		RIG REPAIR	33.0	
FT/HR		#DIV/0!		9		Sand		4.6	Master CLR P	3	LOG	25.5	
						Solids		2.11	Master CLR		FISHING/STUCK		
						Oil %		0	Master BLK		CORE		
									Master Sld		DST		
									Cal Carb 400		KICK		
									Cal Carb 600		LOST CIRC.		
BIT #		14	DULL COND:										
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC	63.0
O	1	BT	G	N	O	LT	BHA	Cum Mud \$		Delivery		TOTAL (Daily/cum)	24.0 1139.5

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	19:00	5.00	8989	9042	Slide DRLG (side track)	132	35	11
19:00	22:30	3.50			Circ & trough from 9020'-9042'			
22:30	0:00	1.50	9042	9064	Slide DRLG (side track)	132	35	15
0:00	3:30	3.50			Pump slug (35bbbls, 10.1lbs/32vis), TOH			
3:30	5:30	2.00			Rack back DD tools, Break bit			
5:30	8:00	2.50			MU Bit, & slick hole BHA, TIH w/BHA 17			
8:00	9:30	1.50	9064	9067	Attempt to work pipe into existing curve from side track - Drill 2/ft (no success)	65	45	2
9:30	11:30	2.00			Pump slug (35bbbls, 10.1lbs/32vis), TOH			
11:30	12:30	1.00			PU & MU Directional BHA			
12:30	13:30	1.00			Rig service			
13:30	14:00	0.50			TIH w/BHA 18			
TOTAL HRS:		24.0	Motor Specs:		6.75", 7/8" LOBE, 5.0 STG, 2.25 FBH, .28 RPG (WENZEL)	DAILY AVG		10

SHOWS/FLARE REPORT				BHA	18	SURVEYS		
LITHOLOGY @ 9067': 80% LIME, 15% SAND, 5% SHALE				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.0 ft			
				Motor	26.4 ft			
WASTE DISPOSAL SITE:				XO	2.8 ft			
DAILY FW (bbls)		CML FW		Tool Carrier	30.0 ft			
DAILY BW (bbls)		CML BW	3200	XO	3.8 ft			
				NMDC	30.8 ft			
TOTAL DRILLED GAS		<div>DC SIZE</div> <div>6"</div> <div>DP SIZE</div> <div>5" - 4 1/2IF</div>		Stand DP	94.8 ft			
GAS	Units			Stabilizer	6.0 ft			
Background Gas:								
Connection Gas:								
Trip Gas:								
Max Gas:								
ACCIDENTS		FUEL (gals)						
NONE		Start	9799	BHA Length	195.7 ft	SLOW PUMP RATES		
		Received		DRILL PIPE	8871 ft		PSI	SPM
		End	8399	WEIGHT OF BHA	12 M	Pump #1		
		Consumed	1400			Pump #2		

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12	77	95	322.52	7.68
2	National 12-P160	6	12				

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Daily Drilling Report

AFE # :	100054.046.01	AFE DEPTH	17,495	AFE DAYS	27
		LAST BOP TEST	09/01/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	9/16/16	DAY:	50
OPERATIONS:		Wait on Cementers		DEPTH (MD):	9130	DEPTH (TVD):	9064	PROGRESS:	63		
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Rogers / Janak	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
1589	106	443		124							

[illegible]

BIT RECORD		Present Bit			Previous Bit			MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION		
BIT NO		15			14			MW	9.0	Bulk gel	1	RU/RD		21.5
SIZE		8 3/4			7.875			VIS	32	LCF Super		DRLG	4.0	363.0
MFG		SMITH			SMITH			PV	5	Lime	6	REAM/WASH		59.0
TYPE		FH30			FHI30			YP	3	MF-55		SURVEY		
SER. NO		RD6083			RD6083			GELS	2 / 3	Soda ash		TRIP	11.0	351.0
NOZZLES		3X22			3x22			pH	10	Poly vis II		RIG SERV		23.5
TFA		1.1131			1.1131			WL	32	Caustic Soda		CIRC & COND	1.0	92.3
OUT		9130			9067			HP/HT	0	Barite	48	RUN CSG/CMT		50.8
IN		9067			8720			FC	32	Nutshell		WOC		47.5
FOOTAGE		63			344			CL	49000	Shrink Wrap		NU/TST BOP		25.5
HOURS		4			39			Ca	1200	FW Gel SX		RIG REPAIR		33.0
FT/HR		16			9			Sand	5.0	Master CLR P		LOG		25.5
								Solids	2.11	Master CLR		FISHING/STUCK		
								Oil %	0	Master BLK		CORE		
										Master Sld		DST		
										Cal Carb 400		KICK		
										Cal Carb 600		LOST CIRC.		
BIT #		DULL COND:						Day Mud \$	\$1,237	Engineering	1	MISC	8.0	71.0
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Cum Mud \$	\$445,934	Delivery		TOTAL (Daily/cum)	24.0	1163.5

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	19:00	5.00			TIH			
19:00	23:00	4.00	9067	9130	Slide drlg (side track)	124	35	16
23:00	0:00	1.00			Circ - build slug			
0:00	3:00	3.00			Pump slug (35bbl 10.1lbs/32vis) TOH			
3:00	4:00	1.00			Laydown DD Tools			
4:00	6:00	2.00			TIH with DP open ended to csg shoe			
6:00	9:00	3.00			Wait on orders			
9:00	14:00	5.00			Wait on O-tex cementers to set 2nd balance plug + Rig slip & cut drlg line, serviced ST-80,			
					worked on draw works, serviced Top drive, go through pumps - gear ends etc...Also			
					mixed 120vis 40bbl pill to spot @ 9000'			
TOTAL HRS:		24.0	Motor Specs:	6.75", 7/8" LOBE, 5.0 STG, 2.25 FBH, .28 RPG (WENZEL)		DAILY AVG		16

SHOWS/FLARE REPORT				BHA	18	SURVEYS		
Lithology: @ 9130' 80% Lime, 15% Sand, 5% Shale				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.0 ft	9088 ft	36.93°	156.96
				Motor	26.4 ft			
WASTE DISPOSAL SITE:				XO	2.8 ft			
DAILY FW (bbls)		CML FW		Tool Carrier	30.0 ft			
DAILY BW (bbls)		CML BW	3200	XO	3.8 ft			
				NMDC	30.8 ft			
TOTAL DRILLED GAS		<div>DC SIZE</div> <div>6"</div> <div>DP SIZE</div> <div>5" - 4 1/2IF</div>		Stand DP	94.8 ft			
GAS	Units			Stabilizer	6.0 ft			
Background Gas:								
Connection Gas:								
Trip Gas:								
Max Gas:								
ACCIDENTS		FUEL (gals)						
NONE		Start	8399	BHA Length	195.7 ft	SLOW PUMP RATES		
		Received		DRILL PIPE	8934 ft		PSI	SPM
		End	6949	WEIGHT OF BHA		Pump #1		
		Consumed	1450			Pump #2		

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12	106	95	443.99	10.57
2	National 12-P160	6	12				

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Daily Drilling Report

AFE # :	100054.046.01	AFE DEPTH	17,495	AFE DAYS	27
		LAST BOP TEST	01/07/00	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	9/18/16	DAY:	52
OPERATIONS:		Circ btms up		DEPTH (MD):	8657	DEPTH (TVD):		PROGRESS:		8,657	
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Rogers / Janak	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
1220	120	502	60								

[illegible]

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION					
BIT NO		16		15		MW		8.8		Bulk gel		RU/RD		21.5	
SIZE		8 3/4		8.75		VIS		29		LCF Super		DRLG		6.0 369.0	
MFG		SMITH		SMITH		PV		3		Lime		7		REAM/WASH 59.0	
TYPE		FHI21B		FH30		YP		3		MF-55		SURVEY			
SER. NO		RD4041		RD6083		GELS		1 / 2		Soda ash		TRIP		4.5 361.0	
NOZZLES		3X22		3x22		pH		10.5		Poly vis II		RIG SERV		23.5	
TFA		1.1131		1.1131		WL		97		Caustic Soda		CIRC & COND		0.5 95.3	
OUT		8657		9130		HP/HT		0		Barite		RUN CSG/CMT		53.8	
IN		8245		9067		FC		95		Nutshell		WOC		13.0 73.5	
FOOTAGE		412		63		CL		28000		Shrink Wrap		NU/TST BOP		25.5	
HOURS		6.5		4		Ca		120 / 72		FW Gel SX		RIG REPAIR		33.0	
FT/HR		63		16		Sand		1.80		Master CLR P		LOG		25.5	
						Solids		1.24		Master CLR		FISHING/STUCK			
						Oil %		0		Master BLK		CORE			
										Master Sld		DST			
										Cal Carb 400		KICK			
										Cal Carb 600		LOST CIRC.			
BIT #				DULL COND:											
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		\$2,063		Engineering		1 71.0	
								Cum Mud \$		\$447,997		Delivery			
												TOTAL (Daily/cum)		24.0 1211.5	

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	1:00	11.00			WOC			
1:00	5:00	4.00			TIH with slick assembly to 8000' (shoe)			
5:00	7:00	2.00			WOC			
7:00	7:30	0.50			TIH...tag KO plug @ 8245'			
7:30	13:30	6.00	8245	8657	Drlg (dress cement)	60	15	69
13:30	14:00	0.50			Circ btms up - TOH to PU Directional tools			
TOTAL HRS:		24.0	Motor Specs:			DAILY AVG		1443

SHOWS/FLARE REPORT				BHA	19	SURVEYS		
100% Cement @ 8657' (dressed KO plug)				Description	Length	DEPTH	DEVIATION	AZIMUTH
				BIT	1.0 ft			
				BIT SUB	2.8 ft			
WASTE DISPOSAL SITE:				XO	2.6 ft			
DAILY FW (bbls)		CML FW		5" HWDP	830.7 ft			
DAILY BW (bbls)		CML BW	3200					
TOTAL DRILLED GAS		<div>DC SIZE</div> <div>6"</div> <div>DP SIZE</div> <div>5" - 4 1/2IF</div>						
GAS	Units							
Background Gas:								
Connection Gas:								
Trip Gas:								
Max Gas:								
ACCIDENTS		FUEL (gals)						
NONE	Start	6949	BHA Length	837.1 ft	SLOW PUMP RATES			
	Received		DRILL PIPE	7820 ft	PSI		SPM	
	End	6246	WEIGHT OF BHA	31 M	Pump #1			
	Consumed	703			Pump #2			

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12	120	95	502.63	11.97
2	National 12-P160	6	12				

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APE # :	100054.046.01	APE DEPTH	17,495	APE DAYS	27
		LAST BOP TEST	01/07/00	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	9/19/16	DAY:	53
OPERATIONS:		Drlg		DEPTH (MD):	8683	DEPTH (TVD):	8681	PROGRESS:	26		
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Rogers / Jank	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
1236	110	460		142							

[illegible]

BIT RECORD		Present Bit			Previous Bit			MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION		
BIT NO		17			16			MW	8.8	Bulk gel	2	RU/RD		21.5
SIZE		8 3/4			8.75			VIS	30	LCF Super			15.0	384.0
MFG		SMITH			SMITH			PV	3	Lime	2	REAM/WASH		59.0
TYPE		FHI21B			FHI21B			YP	3	MF-55		SURVEY		
SER. NO		RD2257			RD4041			GELS	2 / 3	Soda ash		TRIP	9.0	370.0
NOZZLES		3X22			3x22			pH	12	Poly vis II		RIG SERV		23.5
TFA		1.1131			1.1131			WL	23	Caustic Soda		CIRC & COND		95.3
OUT		8683			8657			HP/HT	0	Barite	32	RUN CSG/CMT		53.8
IN		8657			8245			FC	1.5 / 32	Nutshell		WOC		73.5
FOOTAGE		26			412			CL	26000	Shrink Wrap		NU/TST BOP		25.5
HOURS		14			6.5			Ca	120 / 72	FW Gel SX		RIG REPAIR		33.0
FT/HR		2			63			Sand	1.80	Master CLR P		LOG		25.5
								Solids	2.14	Master CLR	65	FISHING/STUCK		
								Oil %	0	Master BLK		CORE		
										Master Sld		DST		
										Cal Carb 400		KICK		
										Cal Carb 600		LOST CIRC.		
BIT #		16	DULL COND:											
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$	\$8,918	Engineering	1	MISC		71.0
O	O	NO	N	N	O	NO	BHA	Cum Mud \$	\$456,915	Delivery		TOTAL (Daily/cum)	24.0	1235.5

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	18:00	4.00			TOH			
18:00	20:00	2.00			PU BHA #20			
20:00	23:00	3.00			TIH			
23:00	23:30	0.50	8657	8667	DRILL 10' CEMENT	142	5	20
23:30	0:00	0.50			CIRC & TROUGH 10' OF CEMENT @ 165 AZM			
0:00	14:00	14.00	8667	8683	TIME DRILL @ 1FT/HR	142	4	1
TOTAL HRS:		24.0	Motor Specs:		(DYNOMAX) 6.75", 6/7 LOBE, 5.0 STG, 2.6 ADJ, .31 RPG	DAILY AVG		2

SHOWS/FLARE REPORT				BHA	20	SURVEYS		
Lithology: @ 8682' 60% Shale / 40% Cement				Description	Length	DEPTH	DEVIATION	AZIMUTH
				BIT	1.0 ft			
				6 3/4" MOTOR	27.5 ft			
WASTE DISPOSAL SITE:				XO	4.2 ft			
DAILY FW (bbls)		CML FW		TOOL CARRIER	30.0 ft			
DAILY BW (bbls)		CML BW	3200	XO	3.4 ft			
				FLEX MONEL	30.1 ft			
TOTAL DRILLED GAS								
GAS	Units	<div>DC SIZE</div> <div>6"</div> <div>DP SIZE</div> <div>5" - 4 1/2IF</div>						
Background Gas:	4							
Connection Gas:								
Trip Gas:								
Max Gas:	5							
ACCIDENTS		FUEL (gals)						
NONE		Start	6246	BHA Length	96.2 ft	SLOW PUMP RATES		
		Received		DRILL PIPE	8587 ft		PSI	SPM
		End	5112	WEIGHT OF BHA	10 M	Pump #1	350 / 410	35 / 40
		Consumed	1134			Pump #2	340 / 400	35 / 40

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12	55	95	230.37	5.48
2	National 12-P160	6	12	55	95	230.37	5.48

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		LAST BOP TEST	09/20/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	9/22/16	DAY:	56
OPERATIONS:		Drig		DEPTH (MD):	10510	DEPTH (TVD):	9257	PROGRESS:	953		
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Rogers / Jank	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
2275	130	544	75	156							

DRILLING MECHANICS		CASING STRINGS								
PICK UP WEIGHT	260	PLAN	ACTUAL	SET DATE	SIZE	WT	GRADE	THRD	LOT/FIT	\$/ft
SLACK OFF WEIGHT	190	400	403	7/19/2016	13 3/8	48	H-40	STC		\$ 27.00
ROTATING WEIGHT	230	8,000	8,035	8/9/2016	9 5/8	40	HCL-80	LTC		\$ 23.00
TORQUE ON BOTTOM	13454	16,560			5 1/2	20	P-110	CDC		\$ 17.00
TORQUE OFF BOTTOM	4580									\$ -

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION									
BIT NO		RR18		18		MW		8.9		Bulk gel		14		RU/RD				21.5	
SIZE		8 3/4		8.75		VIS		31		LCF Super				DRLG		17.5		432.0	
MFG		SECURITY		SECURITY		PV		4		Lime		6		REAM/WASH				59.0	
TYPE		MMD55DM		MMD55DM		YP		4		MF-55				SURVEY					
SER. NO		1282258		1282258		GELS		1 / 4		Soda ash				TRIP		6.5		387.5	
NOZZLES		5X22		5X22		pH		11		Poly vis II				RIG SERV				24.0	
TFA		1.8552		1.8552		WL		36		Caustic Soda		8		CIRC & COND				97.8	
OUT		10510		9557		HP/HT		0		Barite sx				RUN CSG/CMT				53.8	
IN		9557		8700		FC		2 / 32		Nutshell				WOC				73.5	
FOOTAGE		953		857		CL		26000		Shrink Wrap				NU/TST BOP				29.0	
HOURS		17.5		23.5		Ca		2.1 / 7.2		FW Gel SX				RIG REPAIR				33.0	
FT/HR		54		36		Sand		TR		Master CLR P		1		LOG				25.5	
						Solids		2.31		Master CLR		53		FISHING/STUCK					
						Oil %		0		Master BLK		3		CORE					
										Master Sld				DST					
										Cal Carb 400				KICK					
										Cal Carb 600				LOST CIRC.					
BIT #				DULL COND:															
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering		1		MISC				71.0	
								Cum Mud \$		Delivery				TOTAL (Daily/cum)		24.0		1307.5	

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	17:00	3.00			PU Lateral Assembly			
17:00	20:30	3.50			TIH w/BHA #22 & RR Bit 18			
20:30	14:00	17.50	9557	10510	Drill lateral	231	27	54
TOTAL HRS:		24.0	Motor Specs:		(Dynomax) 6.75", 7/8 lobe, 5 Stage, 2.25 fix, .288 rpg	DAILY AVG		54

SHOWS/FLARE REPORT				BHA	22	SURVEYS		
Liathology @ 10460' 90% shale, 10% limestone				Description	Length	DEPTH	DEVIATION	AZIMUTH
				BIT	1.0 ft	9574 ft	88.55°	165.92
				6 3/4" MOTOR	26.4 ft	9664 ft	89.43°	165.83
WASTE DISPOSAL SITE:				XO	4.2 ft	9758 ft	90.75°	165.04
DAILY FW (bbls)		CML FW		TOOL CARRIER	30.1 ft	9852 ft	92.07°	164.25
DAILY BW (bbls)		CML BW	3200	XO	3.4 ft	9946 ft	90.66°	165.13
				FLEX MONEL	30.1 ft	10041 ft	88.37°	166.8
TOTAL DRILLED GAS						10136 ft	89.34°	165.83
GAS	Units	DC SIZE 6"				10231 ft	87.67°	166.27
Background Gas:	95					10326 ft	89.34°	165.66
Connection Gas:						10421 ft	88.90°	168.38
Trip Gas:		DP SIZE 5" - 4 1/2IF						
Max Gas:	536							
ACCIDENTS		FUEL (gals)						
NONE		Start	8892	BHA Length	95.2 ft	SLOW PUMP RATES		
		Received		DRILL PIPE	10415 ft		PSI	SPM
		End	7415	WEIGHT OF BHA	8 M	Pump #1	220/300	30/40
		Consumed	1477			Pump #2	210/310	30/40

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12	65	95	272.26	6.48
2	National 12-P160	6	12	65	95	272.26	6.48

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APE # :	100054.046.01	APE DEPTH	17,495	APE DAYS	27
		LAST BOP TEST	09/20/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	9/23/16	DAY:	57
OPERATIONS:		Drilling		DEPTH (MD):	10980	DEPTH (TVD):	9265	PROGRESS:	470		
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Rogers / Jank	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
2016	130	544	85	168							

[illegible]

BIT RECORD		Present Bit			Previous Bit			MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION		
BIT NO		19			RR18			MW	8.8	Bulk gel	2	RU/RD	12.5	34.0
SIZE		8 3/4			8 3/4			VIS	30	LCF Super		DRLG		432.0
MFG		SECURITY			SECURITY			PV	4	Lime	6	REAM/WASH		59.0
TYPE		MMD65DM			MMD55DM			YP	4	MF-55		SURVEY		
SER. NO		12637983			1282258			GELS	2 / 5	Soda ash		TRIP	10.0	397.5
NOZZLES		5X22			5 X 22			pH	11.2	Poly vis II		RIG SERV	0.5	24.5
TFA		1.8552			1.8552			WL	49	Caustic Soda		CIRC & COND	1.0	98.8
OUT		10980			10510			HP/HT	0	Barite sx		RUN CSG/CMT		53.8
IN		10510			9557			FC	3 / 32	Nutshell		WOC		73.5
FOOTAGE		470			953			CL	25000	Shrink Wrap		NU/TST BOP		29.0
HOURS		12			17.5			Ca	80	FW Gel SX		RIG REPAIR		33.0
FT/HR		39			54			Sand	TR	Master CLR P	2	LOG		25.5
								Solids	1.83	Master CLR	21	FISHING/STUCK		
								Oil %	0	Master BLK		CORE		
										Master Sld		DST		
										Cal Carb 400		KICK		
										Cal Carb 600		LOST CIRC.		
BIT #		RR18	DULL COND:											
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC		71.0
1	1	CT	G	N	O	FC	PR	Cum Mud \$		Delivery		TOTAL (Daily/cum)	24.0	1331.5

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	14:30	0.50	10510	10523	Drig lateral	230	2	26
14:30	15:30	1.00			Sweep hole clean; pump 35bbl 10.9ppg slug (no flow)			
15:30	18:30	3.00			TOH for bit & mtr			
18:30	19:00	0.50			Rig service			
19:00	20:30	1.50			TOH			
20:30	22:30	2.00			PU BHA #23			
22:30	2:00	3.50			TIH...PU Agitator @ 2201' (test)			
2:00	14:00	12.00	10523	10980	Drig lateral	253	27	38
TOTAL HRS:		24.0	Motor Specs:		(Dynamax) 6.75 6/7 lobe .5 stage .175 FBH .31 RPG	DAILY AVG		

SHOWS/FLARE REPORT				BHA		23	SURVEYS		
Lithology @ 10960 60% shale, 30% limestone, 10% silt				Description		Length	DEPTH	DEVIATION	AZIMUTH
				Bit		1.0 ft	10544 ft	87.58°	168.91
				6.75 Motor		27.6 ft	10639 ft	88.55°	169.44
WASTE DISPOSAL SITE:				xo		4.2 ft	10733 ft	89.52°	169
DAILY FW (bbls)		CML FW		Tool Carrier		30.1 ft	10826 ft	89.87°	166.98
DAILY BW (bbls)		CML BW	3200	xo		3.4 ft	10920 ft	91.10°	166.27
				Flex Monel		30.1 ft			
TOTAL DRILLED GAS				22 stds 5" DP					
GAS	Units	DC SIZE 6"		Agitator					
Background Gas:	104			73 stds 5" DP					
Connection Gas:				5 stds 5" HWDP					
Trip Gas:									
Max Gas:	465								
ACCIDENTS		FUEL (gals)							
NONE		Start	7415	BHA Length		96.4 ft	SLOW PUMP RATES		
		Received		DRILL PIPE		10884 ft	PSI		SPM
		End	6055	WEIGHT OF BHA		8 M	Pump #1	274 / 327	30 / 40
		Consumed	1360				Pump #2	278 / 372	30 / 40

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12	65	95	272.26	6.48
2	National 12-P160	6	12	65	95	272.26	6.48

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APE # :	100054.046.01	APE DEPTH	17,495	APE DAYS	27
		LAST BOP TEST	09/20/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	9/24/16	DAY:	58
OPERATIONS:		Run clean cycle		DEPTH (MD):	11723	DEPTH (TVD):	9274	PROGRESS:		743	
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Rogers / Jank	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
2675	130	544	85	168							

DRILLING MECHANICS		CASING STRINGS								
PICK UP WEIGHT	280	PLAN	ACTUAL	SET DATE	SIZE	WT	GRADE	THRD	LOT/FIT	\$/ft
SLACK OFF WEIGHT	170	400	403	7/19/2016	13 3/8	48	H-40	STC		\$ 27.00
ROTATING WEIGHT	230	8,000	8,035	8/9/2016	9 5/8	40	HCL-80	LTC		\$ 23.00
TORQUE ON BOTTOM	18000	16,560			5 1/2	20	P-110	CDC		\$ 17.00
TORQUE OFF BOTTOM	8000									\$ -

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION					
BIT NO		19		RR18		MW		8.8		Bulk gel		RU/RD		34.0	
SIZE		8 3/4		8.75		VIS		35		LCF Super		DRLG		16.5	
MFG		SECURITY		SECURITY		PV		6		Lime		1		REAM/WASH	
TYPE		MMD65DM		MMD55DM		YP		7		MF-55		SURVEY			
SER. NO		12637983		1282258		GELS		6 / 10		Soda ash		14		TRIP	
NOZZLES		5X22		5 X 22		pH		10.1		Poly vis II		RIG SERV		0.5	
TFA		1.8552		1.8552		WL		28		Caustic Soda		3		CIRC & COND	
OUT		11723		10510		HP/HT		0		Barite sx		RUN CSG/CMT		53.8	
IN		10510		9557		FC		1.5 / 32		Nutshell		WOC		73.5	
FOOTAGE		1213		953		CL		23000		Shrink Wrap		NU/TST BOP		29.0	
HOURS		20.75		17.5		Ca		120		FW Gel SX		RIG REPAIR		33.0	
FT/HR		58		54		Sand		TR		Master CLR P		LOG		25.5	
						Solids		1.47		Master Clr		45		FISHING/STUCK	
						Oil %		0		Master BLK				CORE	
										Master Sld		1		DST	
										Cal Carb 400				KICK	
										Cal Carb 600				LOST CIRC.	
BIT #				DULL COND:											
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC	3.5	74.5	
								Cum Mud \$		Delivery		TOTAL (Daily/cum)	24.0	1355.5	

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	22:30	8.50	10980	11352	Drlg lateral	253	28	44
22:30	23:00	0.50			Rig service (check fluid ends on mud pumps)			
23:00	23:30	0.50			Change out MWD transducer, troubleshoot MWD pulses			
23:30	2:00	2.50	11352	11438	Drlg Lateral - pump pressure loss continuing; unable to get MWD pulses w/ pressure drop	264	30	34
2:00	2:30	0.50			TOOH to 11245', H2S sensor on rig floor activated - rig evacuated			
2:30	5:00	2.50			H2S alarms, rig evacuated, Wait on Enersafe to come and clear rig			
5:00	6:00	1.00			Continue TOOH, wash in string, @ 9882'			
6:00	6:30	0.50			P/U new HWDP, test MWD tools, OK			
6:30	7:30	1.00			TIH			
7:30	8:00	0.50			Re-log f/ 11343 - 11438			
8:00	13:30	5.50	11438	11723	Drlg lateral	253	25	52
13:30	14:00	0.50			CUC			
TOTAL HRS:		24.0	Motor Specs:		(Dynomax) 6.75 6/7 lobe .5 stage .175 FBH .31 RPG	DAILY AVG		45

SHOWS/FLARE REPORT				BHA	23	SURVEYS		
Lithology @ 11600 50% sh,20% ls,15% siltstone,15% sand				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.0 ft	11014 ft	89.16°	166.1
				6.75 Motor	27.6 ft	11108 ft	89.34°	166.27
WASTE DISPOSAL SITE:				xo	4.2 ft	11202 ft	87.67°	165.48
DAILY FW (bbls)		CML FW		Tool Carrier	30.1 ft	11296 ft	88.72°	164.69
DAILY BW (bbls)		CML BW	3200	xo	3.4 ft	11391 ft	90.04°	164.6
				Flex Monel	30.1 ft	11486 ft	89.08°	166.36
TOTAL DRILLED GAS				22 stds 5" DP		11582 ft	89.87°	166.01
GAS	Units	DC SIZE 6"		Agitator		11676 ft	89.52°	167.85
Background Gas:	130			73 stds 5" DP				
Connection Gas:				5 stds 5" HWDP				
Trip Gas:								
Max Gas:	360			DP SIZE 5" - 4 1/2IF				
ACCIDENTS		FUEL (gals)						
NONE		Start	6055	BHA Length	96.4 ft	SLOW PUMP RATES		
		Received	7200	DRILL PIPE	11627 ft		PSI	SPM
		End	11582	WEIGHT OF BHA	8 M	Pump #1	287 / 368	30/40
		Consumed	1673			Pump #2	310 / 390	30/40

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12	65	95	272.26	6.48
2	National 12-P160	6	12	65	95	272.26	6.48

Trevor Hein

Reviewed & Approved By



M Whitefield

Reviewed & Approved By

Daily Drilling Report

AFE # : 100054.046.01		AFE DEPTH		17,495		AFE DAYS		27																					
		LAST BOP TEST		09/20/16		KB		25																					
WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:		Martin		STATE:		Texas		DATE:		9/26/16		DAY:		60											
OPERATIONS:		Drilling		DEPTH (MD):		14066		DEPTH (TVD):		9302		PROGRESS:				1,077													
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:		Rogers / Jank		INTANGIBLE AFE \$:				TOTAL DRILLING AFE \$:																	
PSI:		SPM:		TOTAL GPM		ROTARY RPM		MOTOR RPM				DAILY COST:				CML. WELL COST:													
3037		130		544		85		168																					
DRILLING MECHANICS				CASING STRINGS																									
PICK UP WEIGHT				270		PLAN		ACTUAL		SET DATE		SIZE		WT		GRADE		THRD		LOT/FIT		\$/ft							
SLACK OFF WEIGHT				210		400		403		7/19/2016		13 3/8		48		H-40		STC				\$ 27.00							
ROTATING WEIGHT				240		8,000		8,035		8/9/2016		9 5/8		40		HCL-80		LTC				\$ 23.00							
TORQUE ON BOTTOM				17378		16,560						5 1/2		20		P-110		CDC				\$ 17.00							
TORQUE OFF BOTTOM				7860																		\$ -							
BIT RECORD		Present Bit			Previous Bit			MUD PROPERTIES				MUD MIXED				TIME DISTRIBUTION													
BIT NO		19			RR18			MW		9.1		Bulk gel				RU/RD						34.0							
SIZE		8 3/4			8.75			VIS		41		LCF Super				DRLG				19.5		489.0							
MFG		SECURITY			SECURITY			PV		10		Lime				REAM/WASH						59.0							
TYPE		MMD65DM			MMD55DM			YP		19		MF-55				SURVEY													
SER. NO		12637983			1282258			GELS		7 / 10		Soda ash		4		TRIP						400.5							
NOZZLES		5X22			5 X 22			pH		10.3		Poly vis II				RIG SERV						25.0							
TFA		1.8552			1.8552			WL		11		Caustic Soda		6		CIRC & COND				4.5		106.8							
OUT		14066			10510			HP/HT		0		Barite sx				RUN CSG/CMT						53.8							
IN		10510			9557			FC		1 / 32		Nutshell				WOC						73.5							
FOOTAGE		3556			953			CL		31000		Shrink Wrap				NU/TST BOP						29.0							
HOURS		61.25			17.5			Ca		160		FW Gel SX				RIG REPAIR						33.0							
FT/HR		58			54			Sand		TR		Master CLR P		43		LOG						25.5							
								Solids		3.77		Master Clr		1		FISHING/STUCK													
								Oil %		0		Master BLK				CORE													
												Master Sld				DST													
												Cal Carb 400				KICK													
BIT #					DULL COND:							Cal Carb 600				LOST CIRC.													
ICS		OCS		DC		LOC		B/S		G		ODR		RP		Day Mud \$				Engineering		1		MISC		74.5			
																Cum Mud \$				Delivery				TOTAL (Daily/cum)		24.0		1403.5	
TIME					ACTIVITY										TRPM		WOB		ROP										
START		END		HRS		FROM		TO														(M lbs)		(fph)					
14:00		21:00		7.00		12989		13407		Drlg lateral										255		30		60					
21:00		1:30		4.50						CUC, 5 btms-up (36000stks, Torque reduced to 9500ft/lbs)																			
1:30		14:00		12.50		13407		14066		Drlg lateral										253		30		53					

Daily Drilling Report

APE # :	100054.046.01	APE DEPTH	17,495	APE DAYS	27
		LAST BOP TEST	09/20/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	9/27/16	DAY:	61
OPERATIONS:		TIH		DEPTH (MD):	14455	DEPTH (TVD):	9294	PROGRESS:			389
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Rogers / Jank	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			

DRILLING MECHANICS		CASING STRINGS								
PICK UP WEIGHT	270	PLAN	ACTUAL	SET DATE	SIZE	WT	GRADE	THRD	LOT/FIT	\$/ft
SLACK OFF WEIGHT	210	400	403	7/19/2016	13 3/8	48	H-40	STC		\$ 27.00
ROTATING WEIGHT	240	8,000	8,035	8/9/2016	9 5/8	40	HCL-80	LTC		\$ 23.00
TORQUE ON BOTTOM	21798	16,560			5 1/2	20	P-110	CDC		\$ 17.00
TORQUE OFF BOTTOM	7898									\$ -

BIT RECORD		Present Bit			Previous Bit			MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION		
BIT NO		20			19			MW	9.1	Bulk gel		RU/RD		34.0
SIZE		8 3/4			8 3/4			VIS	43	LCF Super		DRLG	8.0	497.0
MFG		SECURITY			SECURITY			PV	9	Lime		REAM/WASH		59.0
TYPE		MM65DRM			MM65DRM			YP	22	MF-55		SURVEY		
SER. NO		12703216			12637983			GELS	7 / 9	Soda ash		TRIP	11.5	412.0
NOZZLES		6x22			5X22			pH	10	Poly vis II		RIG SERV	1.5	26.5
TFA		2.2262			1.8552			WL	10	Caustic Soda	12	CIRC & COND	3.0	109.8
OUT					14455			HP/HT	0	Barite sx	44	RUN CSG/CMT		53.8
IN		14455			10510			FC	1 / 32	Nutshell		WOC		73.5
FOOTAGE		-14455			953			CL	36000	Shrink Wrap		NU/TST BOP		29.0
HOURS					69.25			Ca	80	FW Gel SX		RIG REPAIR		33.0
FT/HR		#DIV/0!			14			Sand	TR	Master CLR P	13	LOG		25.5
								Solids	4.07	Master Clr		FISHING/STUCK		
								Oil %	0	Master BLK		CORE		
										Master Sld		DST		
										Cal Carb 400		KICK		
										Cal Carb 600		LOST CIRC.		
BIT #		19	DULL COND:											
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC		74.5
2	1	BT	N		O	CT	DMF	Cum Mud \$		Delivery		TOTAL (Daily/cum)	24.0	1427.5

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	22:00	8.00	14066	14455	Drlg Lateral	253	25	49
22:00	1:00	3.00			CUC, BTU x3, (25000stks), motor pressuring up 4500# @ 24500stks (mtr failure)			
1:00	5:00	4.00			Pump slug (35 bbls, 10.9ppg), TOH for Mud Motor			
5:00	7:00	2.00			PU Bit # 20 & BHA #24			
7:00	7:30	0.50			TIH			
7:30	8:00	0.50			PU & test agitator @ 2205'			
8:00	11:30	3.50			TIH			
11:30	13:00	1.50			Rig service - Slip & cut drlg line			
13:00	14:00	1.00			TIH			
TOTAL HRS:		24.0	Motor Specs:		(WENZEL) 6.5", 7/8 Lobe, 6.0 Stq, 1.75 FBH, .26 RPG	DAILY AVG		49

SHOWS/FLARE REPORT				BHA	24	SURVEYS		
Lithology @ 14455_100% Shale				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.0 ft	14208 ft	91.19°	170.49
				6.75 Motor	31.6 ft	14303 ft	92.51°	169.44
WASTE DISPOSAL SITE:				xo	4.2 ft	14398 ft	94.09°	167.94
DAILY FW (bbls)		CML FW		Tool Carrier	30.1 ft			
DAILY BW (bbls)		CML BW	3200	xo	3.4 ft			
				Flex Monel	30.1 ft			
TOTAL DRILLED GAS				22 stds 5" DP	2076.0 ft			
GAS	Units	DC SIZE 6"		Agitator	28.1 ft			
Background Gas:	33			73 stds 5" DP	6894.4 ft			
Connection Gas:		DP SIZE 5" - 4 1/2IF		5 stds 5" HWDP	830.7 ft			
Trip Gas:								
Max Gas:	410							
ACCIDENTS		FUEL (gals)						
NONE	Start		7717	BHA Length	9929.5 ft	SLOW PUMP RATES		
	Received			DRILL PIPE	4525 ft		PSI	SPM
	End		4743	WEIGHT OF BHA	338 M	Pump #1	430 / 495	30/40
	Consumed		2974			Pump #2	400 / 510	30/40

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12		95		
2	National 12-P160	6	12		95		

M Whitefield

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Daily Drilling Report

AFE # :	100054.046.01	AFE DEPTH	17,495	AFE DAYS	27
		LAST BOP TEST	09/20/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	9/28/16	DAY:	62
OPERATIONS:		Drilling		DEPTH (MD):	15345	DEPTH (TVD):	9287	PROGRESS:	890		
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
3300	130	544	85	168							

[illegible]

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION					
BIT NO		20		19		MW		9.15		Bulk gel		RU/RD		34.0	
SIZE		8 3/4		8.75		VIS		43		LCF Super		DRLG		15.0 512.0	
MFG		SECURITY		SECURITY		PV		10		Lime		REAM/WASH		59.0	
TYPE		MM65DRM		MM65DRM		YP		22		MF-55		SURVEY			
SER. NO		12703216		12637983		GELS		7/10		Soda ash		TRIP		3.0 415.0	
NOZZLES		6x22		5X22		pH		10.8		Poly vis II		1 RIG SERV		26.5	
TFA		2.2262		1.8552		WL		11		Caustic Soda		5 CIRC & COND		4.0 113.8	
OUT		15345		14455		HP/HT		0		Barite sx		RUN CSG/CMT		53.8	
IN		14455		10510		FC		1/32		Nutshell		WOC		73.5	
FOOTAGE		890		953		CL		32000		Shrink Wrap		NU/TST BOP		29.0	
HOURS		15		69.25		Ca		160		FW Gel SX		RIG REPAIR		33.0	
FT/HR		59		14		Sand		TR		Master CLR P		12 LOG		25.5	
						Solids		4.35		Master Clr		FISHING/STUCK			
						Oil %		0		Master BLK		CORE			
										Master Sld		DST			
										Cal Carb 400		KICK			
										Cal Carb 600		LOST CIRC.			
BIT #				DULL COND:											
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC	2.0	76.5	
								Cum Mud \$		Delivery		TOTAL (Daily/cum)	24.0	1451.5	

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	17:00	3.00			TIH			
17:00	21:00	4.00			CUC, BTU X4 (30,000stks)			
21:00	23:00	2.00			Re-log gamma f/ 14259'-14455'			
23:00	14:00	15.00	14455	15345	Drig lateral	222	25	59
TOTAL HRS:		24.0	Motor Specs:		(WENZEL) 6.5", 7/8 Lobe, 6.0 Stq, 1.75 FBH, .26 RPG	DAILY AVG		59

SHOWS/FLARE REPORT				BHA	24	SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.0 ft	14493 ft	92.42°	167.41
				6.75 Motor	31.6 ft	14586 ft	90.04°	166.36
WASTE DISPOSAL SITE:				xo	4.2 ft	14680 ft	89.87°	166.1
DAILY FW (bbls)		CML FW		Tool Carrier	30.1 ft	14772 ft	90.84°	165.48
DAILY BW (bbls)		CML BW	3200	xo	3.4 ft	14866 ft	92.33°	163.72
				Flex Monel	30.1 ft	14960 ft	89.96°	163.9
TOTAL DRILLED GAS				22 stds 5" DP	2076.0 ft	15054 ft	89.60°	165.39
GAS	Units	DC SIZE 6" DP SIZE 5" - 4 1/2IF		Agitator	28.1 ft	15148 ft	88.99°	167.59
Background Gas:	639			73 stds 5" DP	6894.4 ft	15241 ft	88.02°	169.79
Connection Gas:				5 stds 5" HWDP	830.7 ft			
Trip Gas:								
Max Gas:	1271							
ACCIDENTS		FUEL (gals)						
NONE	Start	4743	BHA Length	9929.5 ft	SLOW PUMP RATES			
	Received	7201	DRILL PIPE	5415 ft	PSI		SPM	
	End	10595	WEIGHT OF BHA		Pump #1	428/493	30/40	
	Consumed	1349			Pump #2	393/500	30/40	

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12	65	95	272.26	6.48
2	National 12-P160	6	12	65	95	272.26	6.48

M Whitefield

Reviewed & Approved By

Daily Drilling Report

AFE # : 100054.046.01										AFE DEPTH		17,495		AFE DAYS		27													
										LAST BOP TEST		09/20/16		KB		25													
WELL NAME:		UL Comanche A4144 Unit #4146				COUNTY:		Martin		STATE:		Texas		DATE:		9/29/16		DAY:		63									
OPERATIONS:		Drilling				DEPTH (MD):		16170		DEPTH (TVD):		9298		PROGRESS:		825													
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton				SUPV:		Wallace / Lowen		INTANGIBLE AFE \$:				TOTAL DRILLING AFE \$:															
PSI:		SPM:		TOTAL GPM		ROTARY RPM		MOTOR RPM				DAILY COST:				CML. WELL COST:													
3400		130		544		90		168																					
DRILLING MECHANICS						CASING STRINGS																							
PICK UP WEIGHT				300		PLAN		ACTUAL		SET DATE		SIZE		WT		GRADE		THRD		LOT/FIT		\$/ft							
SLACK OFF WEIGHT				100		400		403		7/19/2016		13 3/8		48		H-40		STC				\$ 27.00							
ROTATING WEIGHT				230		8,000		8,035		8/9/2016		9 5/8		40		HCL-80		LTC				\$ 23.00							
TORQUE ON BOTTOM				22900		16,560						5 1/2		20		P-110		CDC				\$ 17.00							
TORQUE OFF BOTTOM				16640																		\$ -							
BIT RECORD		Present Bit			Previous Bit			MUD PROPERTIES				MUD MIXED			TIME DISTRIBUTION														
BIT NO		20			19			MW		9.2		Bulk gel			RU/RD						34.0								
SIZE		8 3/4			8.75			VIS		44		LCF Super			DRLG			16.5			528.5								
MFG		SECURITY			SECURITY			PV		10		Lime			3			REAM/WASH			59.0								
TYPE		MM65DRM			MM65DRM			YP		23		MF-55			SURVEY														
SER. NO		12703216			12637983			GELS		7/8		Soda ash			TRIP						415.0								
NOZZLES		6x22			5X22			pH		10.5		Poly vis II			8			RIG SERV			0.5			27.0					
TFA		2.2262			1.8552			WL		9.0		Caustic Soda			12			CIRC & COND			6.5			120.3					
OUT		16170			14455			HP/HT		0		Barite sx						RUN CSG/CMT						53.8					
IN		14455			10510			FC		1/32		Nutshell						WOC						73.5					
FOOTAGE		1715			953			CL		35000		Shrink Wrap						NU/TST BOP						29.0					
HOURS		31.5			69.25			Ca		80		FW Gel SX						RIG REPAIR			0.5			33.5					
FT/HR		54			14			Sand		TR		Master CLR P			27			LOG						25.5					
								Solids		4.8		Master Clr			7			FISHING/STUCK											
								Oil %		0		Master BLK						CORE											
												Master Sld						DST											
												Cal Carb 400						KICK											
												Cal Carb 600						LOST CIRC.											
BIT #					DULL COND:																								
ICS		OCS		DC		LOC		B/S		G		ODR		RP		Day Mud \$				Engineering		1		MISC				76.5	
																Cum Mud \$				Delivery				TOTAL (Daily/cum)		24.0		1475.5	
TIME						ACTIVITY										TRPM		WOB		ROP									
START		END		HRS		FROM		TO												(M lbs)		(fph)							
14:00		17:00		3.00		15345		15478		Drill lateral										222		25		44					
17:00		23:30		6.50						CUC, BTU X7 (54,500stks)																			
23:30		1:00		1.50		15478		15571		Drill lateral										222		25		62					
1:00		1:30		0.50						Rig Service																			
1:30		2:00		0.50						Troubleshoot and replace washed seal on kellyhose to topdrive																			
2:00		14:00		12.00		15571		16170		Drill lateral										232		25		50					
																				</									

Daily Drilling Report

APE # :	100054.046.01	APE DEPTH	17,495	APE DAYS	27
		LAST BOP TEST	09/20/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	9/30/16	DAY:	64
OPERATIONS:		Drilling		DEPTH (MD):	16820	DEPTH (TVD):	9305	PROGRESS:	650		
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Lowen	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
3520	130	544	90	168							

[illegible]

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION				
BIT NO		20		19		MW	9.2	Bulk gel		RU/RD		34.0		
SIZE		8 3/4		8.75		VIS	45	LCF Super		DRLG	15.5	544.0		
MFG		SECURITY		SECURITY		PV	11	Lime	2	REAM/WASH		59.0		
TYPE		MM65DRM		MM65DRM		YP	26	MF-55		SURVEY				
SER. NO		12703216		12637983		GELS	8/10	Soda ash		TRIP		415.0		
NOZZLES		6x22		5X22		pH	10.7	Poly vis II		RIG SERV	0.5	27.5		
TFA		2.2262		1.8552		WL	8.0	Caustic Soda	12	CIRC & COND	8.0	128.3		
OUT		16820		14455		HP/HT	0	Barite sx		RUN CSG/CMT		53.8		
IN		14455		10510		FC	1/32	Nutshell		WOC		73.5		
FOOTAGE		2365		953		CL	41000	Shrink Wrap	3	NU/TST BOP		29.0		
HOURS		47		69.25		Ca	80	FW Gel SX		RIG REPAIR		33.5		
FT/HR		50		14		Sand	TR	Master CLR P	7	LOG		25.5		
						Solids	4.87	Master Clr	10	FISHING/STUCK				
						Oil %	0	Master BLK		CORE				
								Master Sld		DST				
								Cal Carb 400		KICK				
BIT #		DULL COND:						Cal Carb 600		LOST CIRC.				
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC	76.5	
								Cum Mud \$		Delivery		TOTAL (Daily/cum)	24.0	1499.5

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	17:15	3.25	16170	16320	Drill lateral	232	25	46
17:15	1:15	8.00			CUC, BTU X 8 (65,500stks)			
1:15	4:30	3.25	16320	16443	Drill lateral		25	38
4:30	5:00	0.50			Rig Service			
5:00	14:00	9.00	16443	16820	Drill lateral	232	25	42
TOTAL HRS:		24.0	Motor Specs:		(WENZEL) 6.5", 7/8 Lobe, 6.0 Stq, 1.75 FBH, .26 RPG	DAILY AVG		42

SHOWS/FLARE REPORT				BHA		SURVEYS	
				Description	Length	DEPTH	DEVIATION
				Bit	1.0 ft	16082 ft	90.84°
				6.75 Motor	31.6 ft	16175 ft	91.80°
WASTE DISPOSAL SITE:				xo	4.2 ft	16269 ft	89.34°
DAILY FW (bbls)		CML FW		Tool Carrier	30.1 ft	16362 ft	89.78°
DAILY BW (bbls)		CML BW	3200	xo	3.4 ft	16456 ft	89.25°
				Flex Monel	30.1 ft	16550 ft	88.46°
TOTAL DRILLED GAS				22 stds 5" DP	2076.0 ft	16645 ft	88.37°
GAS	Units	DC SIZE 6"		Agitator	28.1 ft	16739 ft	88.20°
Background Gas:	765			73 stds 5" DP	6894.4 ft		
Connection Gas:				5 stds 5" HWDP	830.7 ft		
Trip Gas:							
Max Gas:	1842						
ACCIDENTS		FUEL (gals)					
NONE	Start	8602	BHA Length	9929.5 ft	SLOW PUMP RATES		
	Received		DRILL PIPE	6890 ft			
	End	2676	WEIGHT OF BHA		Pump #1	500/665	30/40
	Consumed	5926			Pump #2	510/636	30/40

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12	65	95	272.26	6.48
2	National 12-P160	6	12	65	95	272.26	6.48

M Whitefield

Reviewed & Approved By

Daily Drilling Report

APE # :	100054.046.01	APE DEPTH	17,495	APE DAYS	27
		LAST BOP TEST	09/20/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	10/1/16	DAY:	65
OPERATIONS:		Circulating		DEPTH (MD):	17259	DEPTH (TVD):	9305	PROGRESS:		439	
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Lowen	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
3795	140	586	100	152							

DRILLING MECHANICS		CASING STRINGS								
PICK UP WEIGHT	320	PLAN	ACTUAL	SET DATE	SIZE	WT	GRADE	THRD	LOT/FIT	\$/ft
SLACK OFF WEIGHT	80	400	403	7/19/2016	13 3/8	48	H-40	STC		\$ 27.00
ROTATING WEIGHT	230	8,000	8,035	8/9/2016	9 5/8	40	HCL-80	LTC		\$ 23.00
TORQUE ON BOTTOM	23900	16,560			5 1/2	20	P-110	CDC		\$ 17.00
TORQUE OFF BOTTOM	19906									\$ -

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION					
BIT NO		20		19		MW		9.25		Bulk gel		RU/RD		34.0	
SIZE		8 3/4		8.75		VIS		44		LCF Super		DRLG		12.5 556.5	
MFG		SECURITY		SECURITY		PV		12		Lime 3		REAM/WASH		59.0	
TYPE		MM65DRM		MM65DRM		YP		24		MF-55		SURVEY			
SER. NO		12703216		12637983		GELS		8/10		Soda ash		TRIP		3.5 418.5	
NOZZLES		6x22		5X22		pH		10.9		Poly vis II		RIG SERV		0.5 28.0	
TFA		2.2262		1.8552		WL		10		Caustic Soda 5		CIRC & COND		7.0 135.3	
OUT		17259		14455		HP/HT		0		Barite sx		RUN CSG/CMT		53.8	
IN		14455		10510		FC		1/32		Nutshell 30		WOC		73.5	
FOOTAGE		2804		953		CL		39000		Shrink Wrap 3		NU/TST BOP		29.0	
HOURS		59.5		69.25		Ca		120		FW Gel SX		RIG REPAIR		33.5	
FT/HR		47		14		Sand		TR		Master CLR P		LOG		25.5	
						Solids		5.25		Master Clr		FISHING/STUCK			
						Oil %		0		Master BLK		CORE			
										Master Sld		DST			
										Cal Carb 400		KICK			
										Cal Carb 600		LOST CIRC.			
BIT #				DULL COND:											
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC	0.5	77.0	
								Cum Mud \$		Delivery		TOTAL (Daily/cum)	24.0	1523.5	

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	14:30	0.50	16820	16826	Drill lateral	232	25	12
14:30	15:00	0.50			Lay out damaged joint of drill pipe			
15:00	15:30	0.50	16826	16859	Drill lateral	232	25	66
15:30	16:00	0.50			Service Rig			
16:00	3:30	11.50	16859	17259	Drill lateral	232	25	35
3:30	6:00	2.50			CUC, BTU X 2 (17,350stks)			
6:00	9:30	3.50			Short trip to 15,384'			
9:30	14:00	4.50			CUC, BTU X 4 (34,700stks)			
TOTAL HRS:		24.0	Motor Specs:		(WENZEL) 6.5", 7/8 Lobe, 6.0 Stq, 1.75 FBH, .26 RPG	DAILY AVG		35

SHOWS/FLARE REPORT				BHA		SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.0 ft	16834 ft	89.34°	167.15
				6.75 Motor	31.6 ft	16928 ft	89.96°	167
WASTE DISPOSAL SITE:				xo	4.2 ft	17020 ft	89.96°	166.71
DAILY FW (bbls)		CML FW		Tool Carrier	30.1 ft	17115 ft	90.31°	166.36
DAILY BW (bbls)		CML BW	3200	xo	3.4 ft	17208 ft	90.66°	165.3
				Flex Monel	30.1 ft			
TOTAL DRILLED GAS				22 stds 5" DP	2076.0 ft			
GAS	Units	<div>DC SIZE</div> <div>6"</div> <div>DP SIZE</div> <div>5" - 4 1/2IF</div>		Agitator	28.1 ft			
Background Gas:	251			73 stds 5" DP	6894.4 ft			
Connection Gas:				5 stds 5" HWDP	830.7 ft			
Trip Gas:								
Max Gas:	1725							
ACCIDENTS		FUEL (gals)						
NONE	Start	2676	BHA Length	9929.5 ft	SLOW PUMP RATES			
	Received	7168	DRILL PIPE	7329 ft	PSI		SPM	
	End	7414	WEIGHT OF BHA		Pump #1	560/680	30/40	
	Consumed	2430			Pump #2	560/660	30/40	

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12	70	95	293.20	6.98
2	National 12-P160	6	12	70	95	293.20	6.98

M Whitefield

Reviewed & Approved By



Daily Drilling Report

AFE # :		100054.046.01		AFE DEPTH		17,495	AFE DAYS		27
LAST BOP TEST		09/20/16		KB		25			
WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	10/2/16
OPERATIONS:		TIH		DEPTH (MD):	17282	DEPTH (TVD):	9305	PROGRESS:	23
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Lowen	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:	
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:	
3067	130	544		141					

DRILLING MECHANICS			CASING STRINGS						
PICK UP WEIGHT	320	PLAN	ACTUAL	SET DATE	SIZE	WT	GRADE	THRD	LOT/FIT
SLACK OFF WEIGHT	70	400	403	7/19/2016	13 3/8	48	H-40	STC	\$ 27.00
ROTATING WEIGHT	230	8,000	8,035	8/9/2016	9 5/8	40	HCL-80	LTC	\$ 23.00
TORQUE ON BOTTOM	23900	16,560			5 1/2	20	P-110	CDC	\$ 17.00
TORQUE OFF BOTTOM	16345								\$ -

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION	
BIT NO	20	19		MW	9.3	Bulk gel		RU/RD		34.0	
SIZE	8 3/4	8.75		VIS	46	LCF Super		DRLG		2.5	559.0
MFG	SECURITY	SECURITY		PV	12	Lime		2	REAM/WASH		59.0
TYPE	MM65DRM	MM65DRM		YP	23	MF-55		SURVEY			
SER. NO	12703216	12637983		GELS	8/9	Soda ash		TRIP		14.5	433.0
NOZZLES	6x22	5X22		pH	10.4	Poly vis II		4	RIG SERV		29.0
TFA	2.2262	1.8552		WL	8	Caustic Soda		3	CIRC & COND		136.3
OUT	17282	14455		HP/HT	0	Barite sx		72	RUN CSG/CMT		53.8
IN	14455	10510		FC	1/32	Nutshell		8	WOC		73.5
FOOTAGE	2827	953		CL	45000	Shrink Wrap		NU/TST BOP		29.0	
HOURS	49.5	69.25		Ca	80	FW Gel SX		RIG REPAIR		33.5	
FT/HR	57	14		Sand	TR	Master CLR P		LOG		25.5	
				Solids	5.34	Master Clr		FISHING/STUCK			
				Oil %	0	Master BLK		CORE			
						Master Sld		DST			
						Cal Carb 400		KICK			
BIT #	20	DULL COND:				Cal Carb 600		LOST CIRC.			
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1
								Cum Mud \$		Delivery	
								TOTAL (Daily/cum)		24.0	1547.5

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	14:30	0.50	17259	17282	Drill lateral	141	30	46
14:30	15:00	0.50			Circulate, Drop carbide to establish wash depth			
15:00	17:00	2.00			TOH, wash in the string			
17:00	18:00	1.00			L/D washed jt and pick up new jt			
18:00	19:00	1.00			TIH			
19:00	21:00	2.00	17282	17282	Attempt to Drill ahead, Bit balled up			
21:00	21:30	0.50			Circ and pump slug			
21:30	2:30	5.00			TOH to 2282'			
2:30	3:30	1.00			Function Agitator, check ok, Lay down agitator			
3:30	5:30	2.00			L/D Directional tools			
5:30	6:30	1.00			Service rig			
6:30	9:30	3.00			Wait on Cagle Fishing Tools			
9:30	11:30	2.00			Make up fishing tools			
11:30	14:00	2.50			TIH w/Fishing tools			
					Note: 8.125" OD skirt on OS with 6.5" grapple and bumper sub is our fishing assembly to catch pov			
					section of motor which is 26.5' long = bit 1', estimated TOF = 17254'			
TOTAL HRS:		24.0	Motor Specs:			DAILY AVG		9

SHOWS/FLARE REPORT				BHA		Length	SURVEYS			
				Description		4.2 ft	DEPTH	DEVIATION		AZIMUTH
				Overshot		7.0 ft				
				Bumper Sub		1.6 ft				
WASTE DISPOSAL SITE:				XO		8970.4 ft				
DAILY FW (bbls)			CML FW		95 Stands 5" DP	830.7 ft				
DAILY BW (bbls)			CML BW	3200	9 Stands 5" HWDP					
TOTAL DRILLED GAS										
GAS		Units	DC SIZE							
Background Gas:		250	6"							
Connection Gas:										
Trip Gas:			DP SIZE							
Max Gas:		800	5" - 4 1/2IF							
ACCIDENTS				FUEL (gals)						
NONE				Start	7414	BHA Length	9813.9 ft	SLOW PUMP RATES		
				Received		DRILL PIPE	7468 ft	PSI	SPM	
				End	5298	WEIGHT OF BHA		Pump #1	560/680	30/40
				Consumed	2116			Pump #2	560/660	30/40

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12	65	95	272.26	6.48
2	National 12-P160	6	12	65	95	272.26	6.48

M Whitefield

Reviewed & Approved By



WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	10/3/16	DAY:	67
OPERATIONS:		TIH		DEPTH (MD):	17282	DEPTH (TVD):	9305	PROGRESS:			
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Lowen	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION				
BIT NO		20		19		MW		9.3	Bulk gel		RU/RD		34.0	
SIZE		8 3/4		8.75		VIS		49	LCF Super		DRLG		559.0	
MFG		SECURITY		SECURITY		PV		12	Lime		REAM/WASH		59.0	
TYPE		MM65DRM		MM65DRM		YP		26	MF-55		SURVEY			
SER. NO		12703216		12637983		GELS		8/10	Soda ash		TRIP	20.5	453.5	
NOZZLES		6x22		5X22		pH		10	Poly vis II		RIG SERV	2.5	31.5	
TFA		2.2262		1.8552		WL		9	Caustic Soda		CIRC & COND		136.3	
OUT		17282		14455		HP/HT		0	Barite sx		RUN CSG/CMT		53.8	
IN		14455		10510		FC		1.5/32	Nutshell		WOC		73.5	
FOOTAGE		2827		953		CL		45000	Shrink Wrap		NU/TST BOP		29.0	
HOURS		49.5		69.25		Ca		120	FW Gel SX		RIG REPAIR		33.5	
FT/HR		57		14		Sand		TR	Master CLR P		LOG		25.5	
						Solids		5.23	Master Clr		FISHING/STUCK	1.0	1.0	
						Oil %		0	Master BLK		CORE			
									Master Sld		DST			
									Cal Carb 400		KICK			
									Cal Carb 600		LOST CIRC.			
BIT #		DULL COND:												
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC		82.0
								Cum Mud \$		Delivery		TOTAL (Daily/cum)	24.0	1571.5

SHOWS/FLARE REPORT				BHA	24	SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Overshot	4.2 ft			
				Bumper Sub	7.0 ft			
WASTE DISPOSAL SITE:				XO	1.6 ft			
DAILY FW (bbls)		CML FW		95 Stands 5" DP	8970.4 ft			
DAILY BW (bbls)		CML BW	3200	9 Stands 5" HWDP	830.7 ft			
TOTAL DRILLED GAS		<div>DC SIZE</div> <div>6"</div> <div>DP SIZE</div> <div>5" - 4 1/2IF</div>						
GAS	Units							
Background Gas:								
Connection Gas:								
Trip Gas:								
Max Gas:								
ACCIDENTS		FUEL (gals)						
NONE	Start	5298	BHA Length	9813.9 ft	SLOW PUMP RATES			
	Received		DRILL PIPE	7468 ft	PSI		SPM	
	End	4561	WEIGHT OF BHA		Pump #1	560/680	30/40	
	Consumed	737			Pump #2	560/660	30/40	

M Whitefield

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Daily Drilling Report

AFE # :	100054.046.01	AFE DEPTH	17,495	AFE DAYS	27
		LAST BOP TEST	09/20/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	10/4/16	DAY:	68
OPERATIONS:		Circulate		DEPTH (MD):	17282	DEPTH (TVD):	9305	PROGRESS:			
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Lowen	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			
3300	150	628	100								

[illegible]

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION				
BIT NO		21		20		MW		9.3	Bulk gel		RU/RD		34.0	
SIZE		8 3/4		8.75		VIS		50	LCF Super		DRLG		559.0	
MFG		Smith		SECURITY		PV		12	Lime		REAM/WASH		59.0	
TYPE		FH30VPS		MM65DRM		YP		26	MF-55		SURVEY			
SER. NO		RD6535		12703216		GELS		9/10	Soda ash		TRIP	8.5	439.0	
NOZZLES		3X22		6x22		pH		10.3	Poly vis II		RIG SERV		31.5	
TFA		1.1131		2.2262		WL		11	Caustic Soda		CIRC & COND	1.5	137.8	
OUT				14455		HP/HT		0	Barite sx		RUN CSG/CMT		53.8	
IN		17282		17282		FC		1.5/32	Nutshell		WOC		73.5	
FOOTAGE		-17282		2827		CL		44000	Shrink Wrap		NU/TST BOP		29.0	
HOURS				49.5		Ca		80	FW Gel SX		RIG REPAIR		33.5	
FT/HR		#DIV/0!		57		Sand		TR	Master CLR P		LOG		25.5	
						Solids		5.36	Master Clr		FISHING/STUCK	14.0	43.0	
						Oil %		0	Master BLK		CORE			
									Master Sld		DST			
									Cal Carb 400		KICK			
									Cal Carb 600		LOST CIRC.			
BIT #				DULL COND:										
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC		77.0
								Cum Mud \$		Delivery		TOTAL (Daily/cum)	24.0	1595.5

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	16:00	2.00			TIH w/Fishing tools			
16:00	18:00	2.00			Attempt to latch onto fish			
18:00	2:30	8.50			TOH w/Fishing tools			
2:30	4:00	1.50			Break down grapple assembly			
4:00	4:30	0.50			Make up bit, bit sub, & X/O			
4:30	12:30	8.00			TIH w/BHA #25, Slick assembly			
12:30	14:00	1.50			CUC, BTU X 8 (69,300 stks)			
					Note: Bit #21 is a RR that we had on rig			
TOTAL HRS:	24.0	Motor Specs:				DAILY AVG		

SHOWS/FLARE REPORT				BHA	25	SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.0 ft			
				BS	2.8 ft			
WASTE DISPOSAL SITE:				XO	2.6 ft			
DAILY FW (bbls)		CML FW		95 Stands 5" DP	8970.4 ft			
DAILY BW (bbls)		CML BW	3200	9 Stands 5" HWDP	830.7 ft			
TOTAL DRILLED GAS		<div>DC SIZE</div> <div>6"</div> <div>DP SIZE</div> <div>5" - 4 1/2IF</div>						
GAS	Units							
Background Gas:								
Connection Gas:								
Trip Gas:								
Max Gas:								
ACCIDENTS		FUEL (gals)						
NONE	Start	4561	BHA Length	9807.5 ft	SLOW PUMP RATES			
	Received	7211	DRILL PIPE	7475 ft		PSI	SPM	
	End	11090	WEIGHT OF BHA		Pump #1	560/680	30/40	
	Consumed	682			Pump #2	560/660	30/40	

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12	75	95	314.14	7.48
2	National 12-P160	6	12	75	95	314.14	7.48

M Whitefield

Reviewed & Approved By



WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	10/5/16	DAY:	69
OPERATIONS:		Rig Repair		DEPTH (MD):	17282	DEPTH (TVD):	9305	PROGRESS:			
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Lowen	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			

BIT RECORD		Present Bit			Previous Bit			MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION			
BIT NO		21			20			MW	9.3	Bulk gel		RU/RD			34.0
SIZE		8 3/4			8.75			VIS	45	LCF Super		DRLG			559.0
MFG		Smith			SECURITY			PV	12	Lime		REAM/WASH			59.0
TYPE		FH30VPS			MM65DRM			YP	25	MF-55		SURVEY			
SER. NO		RD6535			12703216			GELS	8/10	Soda ash		TRIP		11.5	450.5
NOZZLES		3X22			6x22			pH	10.1	Poly vis II		RIG SERV		3.0	34.5
TFA		1.1131			2.2262			WL	10	Caustic Soda	4	CIRC & COND		7.5	145.3
OUT					14455			HP/HT	0	Barite sx	24	RUN CSG/CMT			53.8
IN		17282			17282			FC	1.5/32	Nutshell		WOC			73.5
FOOTAGE		-17282			2827			CL	42000	Shrink Wrap		NU/TST BOP			29.0
HOURS					49.5			Ca	120	FW Gel SX		RIG REPAIR		1.5	35.0
FT/HR		#DIV/0!			57			Sand	TR	Master CLR P		LOG			25.5
								Solids	5.41	Master Clr		FISHING/STUCK			43.0
								Oil %	0	Master BLK		CORE			
										Master Sld		DST			
										Cal Carb 400		KICK			
										Cal Carb 600		LOST CIRC.			
BIT #					DULL COND:										
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC	0.5	77.5	
								Cum Mud \$		Delivery		TOTAL (Daily/cum)		24.0	1619.5

SHOWS/FLARE REPORT				BHA	25	SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH
				Bit	1.0 ft			
				BS	2.8 ft			
WASTE DISPOSAL SITE:				XO	2.6 ft			
DAILY FW (bbls)		CML FW		95 Stands 5" DP	8970.4 ft			
DAILY BW (bbls)		CML BW	3200	9 Stands 5" HWDP	830.7 ft			
TOTAL DRILLED GAS								
GAS	Units	DC SIZE						
Background Gas:		6"						
Connection Gas:								
Trip Gas:		DP SIZE						
Max Gas:		5" - 4 1/2IF						
ACCIDENTS				FUEL (gals)				
NONE	Start	11090		BHA Length	9807.5 ft	SLOW PUMP RATES		
	Received			DRILL PIPE	7475 ft		PSI	SPM
	End	9400		WEIGHT OF BHA		Pump #1	560/680	30/40
	Consumed	1690				Pump #2	560/660	30/40

M Whitefield

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Daily Drilling Report

APE # :	100054.046.01	APE DEPTH	17,495	APE DAYS	27
		LAST BOP TEST	09/20/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	10/7/16	DAY:	71
OPERATIONS:		R/D cementers		DEPTH (MD):	17282	DEPTH (TVD):	9305	PROGRESS:			
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Lowen	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			

[illegible]

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION				
BIT NO		21		20		MW		9.3	Bulk gel		RU/RD		34.0	
SIZE		8 3/4		8.75		VIS		45	LCF Super		DRLG		559.0	
MFG		Smith		SECURITY		PV		12	Lime		REAM/WASH		59.0	
TYPE		FH30VPS		MM65DRM		YP		25	MF-55		SURVEY			
SER. NO		RD6535		12703216		GELS		8/10	Soda ash		TRIP		453.5	
NOZZLES		3X22		6x22		pH		10.1	Poly vis II		RIG SERV		34.5	
TFA		1.1131		2.2262		WL		10	Caustic Soda		CIRC & COND	3.8	149.0	
OUT		17282		14455		HP/HT		0	Barite sx		RUN CSG/CMT	20.3	75.8	
IN		17282		17282		FC		1.5/32	Nutshell		WOC		73.5	
FOOTAGE				2827		CL		42000	Shrink Wrap		NU/TST BOP		29.0	
HOURS				49.5		Ca		120	FW Gel SX		RIG REPAIR		43.5	
FT/HR		#DIV/0!		57		Sand		TR	Master CLR P		LOG		25.5	
						Solids		5.41	Master Clr		FISHING/STUCK		43.0	
						Oil %		0	Master BLK		CORE			
									Master Sld		DST			
									Cal Carb 400		KICK			
									Cal Carb 600		LOST CIRC.			
BIT #				DULL COND:										
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$		Engineering	1	MISC		88.3
								Cum Mud \$		Delivery		TOTAL (Daily/cum)	24.0	1667.5

TIME					ACTIVITY	TRPM	WOB (M lbs)	ROP (fph)
START	END	HRS	FROM	TO				
14:00	22:00	8.00			Run 5.5" Prod. Csg			
22:00	23:30	1.50			Circulate bttm's up (4500stks)			
23:30	6:30	7.00			Run 5.5" Prod. Csg			
6:30	8:00	1.50			R/D Butch's casing crew & L/D truck ... R/U O-TEX cement head & lines			
8:00	10:15	2.25			Circulate casing capacity and bottoms up (11,700 stks)			
10:15	11:15	1.00			Safety meeting w/O-TEX cementer, Swap lines, Test lines T/ 5,000 psi, Pump 24BBLS Mud			
11:15	12:15	1.00			wash spacer. Followed by 3000 sks of 14.4ppg, 1.22 YLD, 5.41 FW/SK tail cement,			
12:15	13:00	0.75			drop plug displace W/378.5BBLS fresh water first 20BBLS sugar water. Bumped plug			
13:00	13:30	0.50			W/2523psi Held 500psi for 5 minutes, Bled back 3BBLS, Floats held, pressured up to			
13:30	14:00	0.50			5000psi ruptured disc, bled back 1.5BBLS, floats held. Rig down O-TEX cements			
					Spoke to Michelle w/ TRRC 10/6/16 @ 0845			
TOTAL HRS:	24.0	Motor Specs:				DAILY AVG		

SHOWS/FLARE REPORT				BHA	25	SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH
WASTE DISPOSAL SITE:								
DAILY FW (bbls)		CML FW						
DAILY BW (bbls)		CML BW	3200					
TOTAL DRILLED GAS								
GAS	Units	DC SIZE						
Background Gas:		6"						
Connection Gas:								
Trip Gas:		DP SIZE						
Max Gas:		5" - 4 1/2IF						
ACCIDENTS		FUEL (gals)						
NONE	Start	8702	BHA Length		SLOW PUMP RATES			
	Received		DRILL PIPE	17282 ft		PSI	SPM	
	End	7908	WEIGHT OF BHA		Pump #1	560/680	30/40	
	Consumed	794			Pump #2	560/660	30/40	

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12		95		
2	National 12-P160	6	12		95		

M Whitefield

Reviewed & Approved By

Daily Drilling Report

APE # :	100054.046.01	APE DEPTH	17,495	APE DAYS	27
		LAST BOP TEST	09/20/16	KB	25

WELL NAME:		UL Comanche A4144 Unit #4146		COUNTY:	Martin	STATE:	Texas	DATE:	10/8/16	DAY:	72
OPERATIONS:		Rig Release 10/8/2016 @ 02:00		DEPTH (MD):	17282	DEPTH (TVD):	9305	PROGRESS:			
CONTRACTOR & CONTACT:		Latshaw 5/ Flake Sexton		SUPV:	Wallace / Lowen	INTANGIBLE AFE \$:		TOTAL DRILLING AFE \$:			
PSI:	SPM:	TOTAL GPM	ROTARY RPM	MOTOR RPM		DAILY COST:		CML. WELL COST:			

[illegible]

BIT RECORD		Present Bit		Previous Bit		MUD PROPERTIES		MUD MIXED		TIME DISTRIBUTION		
BIT NO		21		20		MW		Bulk gel		RU/RD		34.0
SIZE		8 3/4		8.75		VIS		LCF Super		DRLG		559.0
MFG		Smith		SECURITY		PV		Lime		REAM/WASH		59.0
TYPE		FH30VPS		MM65DRM		YP		MF-55		SURVEY		
SER. NO		RD6535		12703216		GELS		Soda ash		TRIP		453.5
NOZZLES		3X22		6x22		pH		Poly vis II		RIG SERV		34.5
TFA		1.1131		2.2262		WL		Caustic Soda		CIRC & COND		149.0
OUT				14455		HP/HT		Barite sx		RUN CSG/CMT		75.8
IN		17282		17282		FC		Nutshell		WOC		73.5
FOOTAGE		-17282		2827		CL		Shrink Wrap		NU/TST BOP		29.0
HOURS				49.5		Ca		FW Gel SX		RIG REPAIR		43.5
FT/HR		#DIV/0!		57		Sand		Master CLR P		LOG		25.5
						Solids		Master Clr		FISHING/STUCK		43.0
						Oil %		Master BLK		CORE		
								Master Sld		DST		
								Cal Carb 400		KICK		
BIT #		DULL COND:						Cal Carb 600		LOST CIRC.		
ICS	OCS	DC	LOC	B/S	G	ODR	RP	Day Mud \$	Engineering	MISC		88.3
								Cum Mud \$	Delivery	TOTAL (Daily/cum)		1667.5

[illegible]

SHOWS/FLARE REPORT				BHA	25	SURVEYS		
				Description	Length	DEPTH	DEVIATION	AZIMUTH
WASTE DISPOSAL SITE:								
DAILY FW (bbls)		CML FW						
DAILY BW (bbls)		CML BW	3200					
TOTAL DRILLED GAS								
GAS	Units	DC SIZE						
Background Gas:		6"						
Connection Gas:								
Trip Gas:		DP SIZE						
Max Gas:		5" - 4 1/2IF						
ACCIDENTS		FUEL (gals)						
None	Start	7908	BHA Length		SLOW PUMP RATES			
	Received		DRILL PIPE	17282 ft				
	End	7316	WEIGHT OF BHA		Pump #1	PSI	SPM	
	Consumed	592			Pump #2			

PUMP	MAKE	LINER	STROKE	SPM	% EFF	GPM	BPM
1	National 12-P160	6	12		95		
2	National 12-P160	6	12		95		

M Whitefield

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