

Operator Name



Total
Energy
Services

Rig Telephone

General Information			Daily Summary Information				Daily Cost Information		Rig Information	
Well Name & No			Report #	Date	MD	TVD	AFE	AFE Amount	Company Rep	
UL 13 Keene 34-12H			1	8/29/2012	40	40	O 12023		Jerry White	
Category	Field	Sec/Blk/Sur	Footage	Hours	ROP	WOB	Daily Cost	Cum Cost	Toolpusher	
NEW DRILL	Shafter Lake	13/University La							Jacob Pugh	
County/Parish		State	Ftg Rotate	Cum Ftg	Ft Slide	Cum Ft	Daily Mud	\$228,783	Contractor	
Andrews		Texas							Thornton	
Proposed MD		Proposed TVD	Hrs Rotate	Cum Hrs	Hrs Slide	Cum Hrs			Rig	Telephone
9183'		4633'							25	432-242-4228

Casing Information										
Type	OD	ID	Weight	Grade	Connection	Top MD	Top TVD	Bot MD	Bot TVD	Shoe Test
Conductor	16				Weld	0	0	40'	40	
Surface										
Intermediate										
Drig Liner										
Production										

Daily Activity Information			Present Operation @ 0600 Hrs			Wait for Daylight			
From	To	Hrs.							
20:00	06:00	10.0	Wait for Daylight to resume Tear-Out						
	</								

Operator Name



Total
Energy
Services

Rig Telephone

General Information			Daily Summary Information				Daily Cost Information		Rig Information	
Well Name & No			Report #	Date	MD	TVD	AFE	AFE Amount	Company Rep	
UL 13 Keene 34-12H			2	8/30/2012	40	40	O 12023		Jerry White	
Category	Field	Sec/Blk/Sur	Footage	Hours	ROP	WOB	Daily Cost	Cum Cost	Toolpusher	
NEW DRILL	Shafter Lake	13/University La							Jacob Pugh	
County/Parish		State	Ftg Rotate	Cum Ftg	Ft Slide	Cum Ft	Daily Mud	\$228,783	Contractor	
Andrews		Texas							Thornton	
Proposed MD		Proposed TVD	Hrs Rotate	Cum Hrs	Hrs Slide	Cum Hrs			Rig	Telephone
9183'		4633'							25	432-242-4228

Casing Information										
Type	OD	ID	Weight	Grade	Connection	Top MD	Top TVD	Bot MD	Bot TVD	Shoe Test
Conductor	16				Weld	0	0	40'	40	
Surface										
Intermediate										
Drig Liner										
Production										

Daily Activity Information			Present Operation @ 0600 Hrs			Wait for Daylight				
From	To	Hrs.								
06:00	07:00	1.0	Wait for Daylight to resume Tear-Out							
7:00	20:00	13.0	Tear Out Rig and Make Repairs to Rig							
20:00	06:00	10.0	Wait for Daylight & Trucks to move Rig							

Daily Drilling Report



Rig Name: Thornton Drilling

Forge Energy LLC

Rig No. 25 432-242-4228

Well Name & No. *UL 13 Keene 34 #12H*

Spud Date/DFS: 9/1/2012

Job No:

Report Date & No: 8/31/2012 3

Progress Summary		Daily Drilling Summary						General Well Information			
Days From Spud:		Total Drilling		Rotate Drilling		Slide Drilling		Category:	New Drill	Sec/Blk/Sur:	12/13/U/L
Proposed MD (ft):	9,138	Footage:	0	Ftg:	0	Ftg:	0	API #:	42-003-44647	County/Parish:	Andrews
Proposed TVD (ft):	4,633	Hours:	0:00	Hrs:	0:00	Hrs:	0:00	Permit #:	745788	State:	Texas
Current MD (ft):	0	ROP:	0.00	ROP:	0.00	ROP:	0.00	Field:	Shafter Lake	Country:	USA
Current TVD (ft):		Avg.WOB:	0.00	WOB:	0.00	WOB:	0.00				
		Max WOB:	0	Cum Ftg:	0	Cum Ftg:	0				
				Cum Hrs:	0:00	Cum Hrs:	0:00				
Operations Outlook											
Current Ops:	Wait for Daylight to move rig										
@ 6:00 Am											
Planned Ops:											
Next 24 hours	Move Rig										
		Daily Cost Information		Rig Information							
AFE #	AFE Amount	Company Rep									
O 12023		Jerry White									
Daily Cost	Cum Cost	Toolpusher									
\$2,640	\$236,081	Jacob Pugh									
Daily Mud	Cum Mud Cost	Contractor									
\$0	\$0	Thornton									

[illegible][illegible][illegible]

[illegible][illegible]

[illegible]

[illegible][illegible]

Mud Report		
	Current	Prev
Date		
Time		
Temp		
TVD		
MD		
Weight		
Vis.		
PV		
YP		
pH		
%Solids		
%Oil		
%Water		
%Sands		
Gels		
Filtrate (30 min)		
HTHP		
Cake		
MBT		
Pm		
Pf		
Mf		
Chloride		
Calcium		
600 Rpm		
300 Rpm		
%LGS		
System bbls		
mud less		
Cum Mud Loss		
Mud Log Information		
Bg Gas		
Con Gas		
Tr Gas		
Max		
Est pp		
ECD		

Pump & Hydraulics Information			
	Pump 1	Pump 2	Pump 3
Type	Triplex	Triplex	
Liner	6.5	6.5	
Stroke	12	12	
SPM	80	80	
Rod			
%Eff	95%	95%	
Gal/Strk	4.9157199	4.91572	
Bbl/Strk	0.11704095	0.117041	
Gal/min	392.7823099	392.7823	
Pressure	1275	1275	
AV DP			
AV DC			
Motor Detail			
	Current	Previous	
Make			
Serial			
Size			
Lobes			
Stages			
Speed			
Build			
Depth In			
Depth Out			
Hours			
Lithology			
	Current	Previous	
%shale			
%sand			
%lime			
%other			
Depth			
Safety Topic:			
Accident:			
Accident:			

Bit Information				
	Current		Prev	
Bit No.	1			
Size	12 1/4			
Make	Dowdco			
Serial	D3636			
Model	D516XD			
	qty	size	qty	size
Nozzle 1	8	16		
Nozzle 2				
Nozzle 3				
Depth Out				
Depth In	54			
Footage			0	
Hours	5.75			
ROP	0.000		0.000	
WOB	25			
Rot RPM	100			
TFA (in ²)	1.5708		0	
MM RPM				
Torque				
Grade				

Personnel	
Comp. Man(s)	1
Toolpusher(s)	1
Co-Rep(s)	
Rig Personnel	10
Mud Engineer(s)	
Mud Logger(s)	
Directional	
Service Co	2
Contractor	
Other	1
Totals	15

[illegible]

Safety Topic:	Connections & PPE
Accident:	None
Accident:	



Well Name & No.	UL 13 Keene 34 #12H	Spud Date/DFS:	9/1/2012	1/3/1900
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Job No:	Report Date & No:	9/3/2012	6
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Progress Summary		Daily Drilling Summary						General Well Information					
Days From Spud:	3	Total Drilling		Rotate Drilling		Slide Drilling		Category:	New Drill	Sec/Blk/Sur:	12/13/UL		
Proposed MD (ft):	9,138	Footage:	1329	Ftg:	1329	Ftg:	0	API #:	42-003-44647	County/Parish:	Andrews		
Proposed TVD (ft):	4,633	Hours:	14:00	Hrs:	14:00	Hrs:	0:00	Permit #:	745788	State:	Texas		
Current MD (ft):	1,780	ROP:	94.93	ROP:	94.93	ROP:	0.00	Field:	Shafter Lake	Country:	USA		
Current TVD (ft):	1,780	Avg.WOB:	28.64	WOB:	28.64	WOB:	0.00						
		Max WOB:	30	Cum Ftg:	1726	Cum Ftg:	0						
				Cum Hrs:	19:45	Cum Hrs:	0:00						
Operations Outlook								Daily Cost Information		Rig Information			
Current Ops:	Running 8 5/8 Casing							AFE #		AFE Amount		Company Rep	
@ 6:00 Am								O 12023			Jerry White		
Planned Ops:								Daily Cost	Cum Cost		Toolpusher		
Next 24 hours								\$28,241	\$338,887		Jacob Pugh		
	Run Casing - Cement - Weld Head - Nipple Up - Pick up Vertical Assembly	Daily Mud	Cum Mud Cost		Contractor								
		\$0	\$0		Thornton								

[illegible]

Directional Survey Information

[illegible]

Mud Report

	Current	Prev
Date	9/2/2012	
Time	14:00	
Temp	98	
TVD	1079	
MD	1079	
Weight	8.4	
Vis.	28	
PV	1	
YP	1	
pH	10	
%Solids	0.5	
%Oil		
%Water	99.5	
%Sands		
Gels	1	
Filtrate (30 min)		
HTHP	0	
Cake	0	
MBT		
Pm		
Pf	0.15	
Mf	0.25	
Chloride	4,400	
Calcium	160	
600 Rpm		
300 Rpm		
%LGS	0.5	
System bbls	750	
mud less		
Cum Mud Loss	0	

Pump & Hydraulics Information

	Pump 1	Pump 2	Pump 3
Type	Triplex	Triplex	
Liner	6.5	6.5	
Stroke	12	12	
SPM	80	80	
Rod			
%Eff	95%	95%	
Gal/Strk	4.9157199	4.91572	
Bbl/Strk	0.11704095	0.117041	
Gal/min	392.7823099	392.7823	
Pressure	1275	1275	
AV DP			
AV DC			

Motor Detail

	Current	Previous
Make		
Serial		
Size		
Lobes		
Stages		
Speed		
Build		
Depth In		
Depth Out		
Hours		

Lithology

	Current	Previous
%shale		
%sand		
%lime		
%other		
Depth		

Bit Information

	Current		Prev	
Bit No.	1RR		1	
Size	12 1/4		12.25	
Make	Dowdco		Dowdco	
Serial	D3636		D3636	
Model	D516XD		D516XD	
	qty	size	qty	size
Nozzle 1	8	16	8	16
Nozzle 2				
Nozzle 3				
Depth Out	1780		1780	
Depth In	1780		54	
Footage	0		1726	
Hours			19.75	
ROP	0.000		87.392	
WOB	10-May		25	
Rot RPM	100		100	
TFA (in ²)	1.5708		1.57079633	
MM RPM				
Torque				
Grade			wt-a-X-0-no-5	

Personnel

Comp. Man(s)	1
Toolpusher(s)	1
Co-Rep(s)	
Rig Personnel	8
Mud Engineer(s)	
Mud Logger(s)	
Directional	
Service Co	6
Contractor	
Other	1
Totals	17

BHA Information

[illegible]

Safety Topic:	Housekeeping & PPE
Accident:	None
Accident:	

Daily Drilling Report

Forge Energy LLC

Well Name & No. **UL 13 Keene 34 #12H**



Rig Name: **Thornton Drilling**

Rig No. 25 432-242-4228

Spud Date/DPS:	9/1/2012	7
Report Date & No:	9/7/2012	10

Progress Summary		Daily Drilling Summary				General Well Information			
Days From Spud:		Total Drilling		Rotate Drilling		Slide Drilling		Category:	
Proposed MD (ft):		Footage:	509	Rtg:	509	Ftg: 0		New Dril: 12/13/2014	
Proposed TVD (ft):		Hours:	14.00	Hrs:	14.00	Hrs: 0.00		County/Parish: Andrews	
Current MD (ft):		ROP:	36.36	ROP:	36.36	ROP: 0.00		Permit #: 145789	
Current TVD (ft):		Avg WOB:	21.75	WOB:	21.75	WOB: 0.00		State: Texas	
		Max WOB:	24	Cum Prg:	2235	Cum Ftg: 0		Field: Shafter Lake	
				Cum Hrs:	33.45	Cum Hrs: 0.00		Country: USA	
				Cum Hrs:	0.00				
Operations Outlook		Daily Cost Information				Rig Information			
Current Ops:		AFE #		AFE Amount		Company Rep			
Planned Ops:		Daily Cost		Cum Cost		Curey Broker			
Next 24 hours:		Daily Mud		Cum Mud Cost		Toolpusher			
						Jacob Pugh			
						Contractor			
						Thornton			

Daily Drilling Report

Forge Energy LLC

Well Name & No. **UL 13 Keene 34 #12H**

Job No: 11272

Progress Summary		Daily Drilling Summary				General Well Information	
Days From Spud:	10	Total Drilling		Rotate Drilling		Category:	Sec/Bk/Sur:
Proposed MD (ft):	9,138	Footage:	333	Rig:	75	API #:	42-003-44647
Proposed TVD (ft):	4,633	Hours:	12.45	Hrs:	2.15	County/Parish:	Andrews
Current MD (ft):	4,363	ROP:	26.12	ROP:	33.33	Permit #:	140788
Current TVD (ft):	4,314	Avg WOB:	34.09	WOB:	25.20	Field:	Shafter Lake
		Max WOB:	36	Cum Prg:	4051	State:	Texas
				Cum Hrs:	72.45	Country:	USA

Operations Outlook

Current Ops:	Slide Drl @ 4363', 37' PH
Planned Ops:	ROT, Slide Drl & Srvy
Next 24 hours:	

Casing Information									
Type	OD	ID	Weight	Grade	Connection	Top MD	Top TVD	Bot MD	Bot TVD
Cond	8.6				Weld	0		40	
Surf	8.58	8.097	24	J-55	ST&C	0	0	1775	1775
Interm									
2nd Interm									
Drig Liner									
Prod									

Operations Summary									
From	To	Hours	IADC	From	To	Dev	Hole Sec	NPT	Operations Description
6:00	7:30	1:30	8 - Trips			Vert	Prod Drig		RU LD Machine, Safety Meeting
7:30	8:30	1:00	8 - Trips			Vert	Prod Drig		Laydown collars, Pro-shot, Motor, 2 IBS & Bit
8:30	9:30	1:00	8 - Trips			Vert	Prod Drig		RD LD Machine
9:30	11:30	2:00	8 - Trips			Vert	Prod Drig		PIU Directional Tools, Scribe
11:30	12:00	0:30	20 - Dir. Work			Vert	Prod Drig		Test MWD, PIU Bit #3
12:00	14:15	2:15	8 - Trips			Vert	Prod Drig		TH to 3992'
14:15	14:45	0:30	5 - Const Mud &			Vert	Prod Drig		Circ. Test MWD, Wash to Ben, Orient Tool Face
14:45	15:45	1:00	2.2 - Drill SLD	4030	4054	Curv	Prod Drig		Slide Drl F/ 4030'-4054', TFO 346
15:45	16:00	0:15	10 - Dev Survey			Curv	Prod Drig		Srvy @ 4006' = 0.79 inc, 43.89 Azm, 4005.39 TVD
16:00	17:00	1:00	2.2 - Drill SLD	4054	4085	Curv	Prod Drig		Slide Drl F/ 4054'-4085', TFO 346
17:00	17:15	0:15	10 - Dev Survey			Curv	Prod Drig		Srvy @ 4037' = 2.37 inc, 3.46 Azm, 4036 TVD
17:15	18:15	1:00	2.2 - Drill SLD	4085	4116	Curv	Prod Drig		Slide Drl F/ 4085'-4116', TFO 346
18:15	18:30	0:15	10 - Dev Survey			Curv	Prod Drig		Srvy @ 4068' = 5.98 inc, 358.10 Azm, 4067.29 TVD
18:30	19:30	1:00	2.2 - Drill SLD	4116	4147	Curv	Prod Drig		Slide Drl F/ 4116'-4147', TFO 346
19:30	19:45	0:15	10 - Dev Survey			Curv	Prod Drig		Srvy @ 4099' = 9.67 inc, 359.77 Azm, 4098 TVD
19:45	20:00	0:15	2.1 - Drill ROT	4147	4158	Curv	Prod Drig		ROT Drl F/ 4147'-4158'
20:00	21:00	1:00	2.2 - Drill SLD	4158	4178	Curv	Prod Drig		Slide Drl F/ 4158'-4178', TFO 15L
21:00	21:15	0:15	10 - Dev Survey			Curv	Prod Drig		Srvy @ 4130' = 13.19 inc, 0.12 Azm, 4128.38 TVD
21:15	21:30	0:15	2.1 - Drill ROT	4178	4184	Curv	Prod Drig		ROT Drl F/ 4178'-4184'
21:30	22:15	0:45	2.2 - Drill SLD	4184	4209	Curv	Prod Drig		Slide Drl F/ 4184'-4209', TFO 15L
22:15	22:30	0:15	10 - Dev Survey			Curv	Prod Drig		Srvy @ 4164' = 15.83 inc, 0.82 Azm, 4158.39 TVD
22:30	22:45	0:15	2.1 - Drill ROT	4209	4218	Curv	Prod Drig		ROT Drl F/ 4209'-4218'
22:45	23:45	1:00	2.2 - Drill SLD	4218	4240	Curv	Prod Drig		Slide Drl F/ 4218'-4240', TFO 30L
23:45	0:00	0:15	10 - Dev Survey			Curv	Prod Drig		Srvy @ 4192' = 18.73 inc, .91 Azm, 4181.99 TVD
0:00	0:15	0:15	2.1 - Drill ROT	4240	4251	Curv	Prod Drig		ROT Drl F/ 4240'-4251'
0:15	1:15	1:00	2.2 - Drill SLD	4251	4271	Curv	Prod Drig		Slide Drl F/ 4251'-4271', TFO 30L
1:15	1:30	0:15	10 - Dev Survey			Curv	Prod Drig		Srvy @ 4223' = 21.54 inc, 0.3 Azm, 4217.09 TVD
1:30	1:45	0:15	2.1 - Drill ROT	4271	4282	Curv	Prod Drig		ROT Drl F/ 4271'-4282'
1:45	2:45	1:00	2.2 - Drill SLD	4282	4301	Curv	Prod Drig		Slide Drl F/ 4282'-4301', TFO 45L
2:45	3:00	0:15	10 - Dev Survey			Curv	Prod Drig		Srvy @ 4253' = 24.01 inc, 359.59 Azm, 4244.75 TVD
3:00	3:30	0:30	2.1 - Drill ROT	4301	4312	Curv	Prod Drig		ROT Drl F/ 4301'-4312'
3:30	4:15	0:45	2.2 - Drill SLD	4312	4332	Curv	Prod Drig		Slide Drl F/ 4312'-4332', TFO 15L
4:15	4:30	0:15	10 - Dev Survey			Curv	Prod Drig		Srvy @ 4284' = 26.38 inc, 368.63 Azm, 4272.80 TVD
4:30	5:00	0:30	2.1 - Drill ROT	4332	4348	Curv	Prod Drig		ROT Drl F/ 4332'-4348'
5:00	6:00	1:00	2.2 - Drill SLD	4348	4363	Curv	Prod Drig		Slide Drl F/ 4332'-4363', TFO 15L



JOB NO.: 12MLD0328
Company: FORGE ENERGY LLC
LOCATION: ANDREWS
RIG NAME: THORTON 25
STATE: TEXAS
COUNTY: ANDREWS
WELL NAME: UL13 KEENE 34 12H
Lead Directional : Mathue Ellis

Report Time: 0600 **5 of 5**
API JOB #
WORK ORDER#
FIELD:
Township:
Range/Section
Company Man Carey Brooker
2nd Dir Hand : David Pennington

From Tuesday, September 11, 2012 at 0600 to Wednesday, September 12, 2012 at 0600

DAILY TOTALS				ASSEMBLY TOTALS									
Start Depth	4768.00			BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP
End Depth	4938.00			1	6313	750.00	38.50	158.00	7.75	1.75	48.00	908.00	18.92
Below Rot Hrs.	24.00			2	6352	0.00	0.00	0.00	0.00	.75	0.75	0.00	0.00
Total Drilled:	170.00			Drilling Parameters		Mud Record		Bit Record		Current BHA # 2			
Avg. Total ROP:	12.83			WOB:	50	Weight:	0	Bit No:	2	7 7/8, DP408X, 6x16 6 1/4, 7/8, 3.8L, 1.50 ADJ, Stab, 7 1/4" Blade UBHO MONEL MONEL			
Slide Footage:	119.00			Rot Wt:	0	Visc:	0	Model	7 7/8, DP408X,				
Slide Hours	10.25			Pick UP:	0	Chlorides:	0	SN.:	7141352				
Avg. Slide ROP:	11.61			Slack Off:	0	YP:	0	MFG.	BAKER				
Rotate Footage:	51.00			SPP:	2000	PV:	0	Type	PDC				
Rotary Hours	3.00			Flow:	506 - 506	PH:	0	IADC					
Avg. Rot ROP:	17.00			SPM:	103	GAS:	0	JETS	6-16				
Circ Hours	1.50			Rot. RPM	45 - 45	SAND:	0	TFA:	1.178				
Ream Hours	0.00			Mot RPM:	0 - 0	WL:	0	Hole ID:	7 7/8				
Rotary Hrs%:	22.64			Incl. In:	83.89	SOLID:	0	Bit Hrs:					
Slide Hrs%:	77.36			Azm. In:	345.97	BHT°:	0	Bit Ftg:					
Rotary Ftg%:	30.00			Incl. Out:	0	Flow T°:	0	PUMPS					
Slide Ftg%:	70.00			Azm. Out:	0	Oil %:	0	Liner	6.5	6.5			
Casing				COST BREAKDOWN				Liner	6.5	6.5			
Size	Lb/Ft	MD						Stroke	12	12			
								Effic.	95.00%	95.00%			
								Gal/Stk	4.91	4.91			
								BBL/Stk	0.117	0.117			

GENERAL COMMENT

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
06:00	06:15	0.25	4768	4768	0	.00	Survey & Conn.	Survey & Conn.@4720_Inc 65.95°_Azm 343.33°
06:15	08:15	2.00	4768	4790	22	11.00	Sliding	Sliding - (WOB:45;GPM :506;TFO:0))
08:15	09:00	0.75	4790	4799	9	12.00	Drilling	Drilling - (WOB:25;GPM :506;RPM:45)
09:00	09:15	0.25	4799	4799	0	.00	Survey & Conn.	Survey & Conn.@4751_Inc 70.43°_Azm 342.98°
09:15	10:15	1.00	4799	4821	22	22.00	Sliding	Sliding - (WOB:45;GPM :506;TFO:0))
10:15	10:45	0.50	4821	4830	9	18.00	Drilling	Drilling - (WOB:25;GPM :506;RPM:45)
10:45	11:00	0.25	4830	4830	0	.00	Survey & Conn.	Survey & Conn.@4782_Inc 74.74°_Azm 342.81°
11:00	12:30	1.50	4830	4852	22	14.67	Sliding	Sliding - (WOB:45;GPM :506;TFO:15R))
12:30	13:00	0.50	4852	4859	7	14.00	Drilling	Drilling - (WOB:25;GPM :506;RPM:45)
13:00	13:15	0.25	4859	4859	0	.00	Survey & Conn.	Survey & Conn.@4811_Inc 77.65°_Azm 343.51°
13:15	16:00	2.75	4859	4880	21	7.64	Sliding	Sliding - (WOB:50;GPM :506;TFO:15R))
16:00	16:15	0.25	4880	4890	10	40.00	Drilling	Drilling - (WOB:35;GPM :506;RPM:45)
16:15	16:45	0.50	4890	4890	0	.00	Rig Service-Inhole	Rig Service-Inhole
16:45	17:00	0.25	4890	4890	0	.00	Survey & Conn.	Survey & Conn.@4842_Inc 80.90°_Azm 344.65°

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
17:00	18:15	1.25	4890	4905	15	12.00	Sliding	Sliding - (WOB:50;GPM :506;TFO:0))
18:15	19:15	1.00	4905	4921	16	16.00	Drilling	Drilling - (WOB:35;GPM :506;RPM:45)
19:15	19:30	0.25	4921	4921	0	.00	Survey & Conn.	Survey & Conn.@4873_Inc 83.89°_Az 345.97°
19:30	21:15	1.75	4921	4938	17	9.71	Sliding	Sliding - (WOB:50;GPM :506;TFO:0))
21:15	22:00	0.75	4938	4938	0	.00	Circulating	Circulating - Pump Heavy Sweep
22:00	23:30	1.50	4938	4938	0	.00	POOH	POOH
23:30	24:00	0.50	4938	4938	0	.00	Change BHA	Change BHA
00:00	01:00	1.00	4938	4938	0	.00	Change BHA	Change BHA
01:00	04:15	3.25	4938	4938	0	.00	Other	Wait on MWD Tool.
04:15	05:00	0.75	4938	4938	0	.00	Circulating	Install MWD and Test
05:00	06:00	1.00	4938	4938	0	.00	TIH	TIH



JOB NO.: 12MLD0328
Company: FORGE ENERGY LLC
LOCATION: ANDREWS
RIG NAME: THORTON 25
STATE: TEXAS
COUNTY: ANDREWS
WELL NAME: UL13 KEENE 34 12H
Lead Directional : Mathue Ellis

Report Time: 0600 **6 of 6**
API JOB #
WORK ORDER#
FIELD:
Township:
Range/Section
Company Man Carey Brooker
2nd Dir Hand : David Pennington

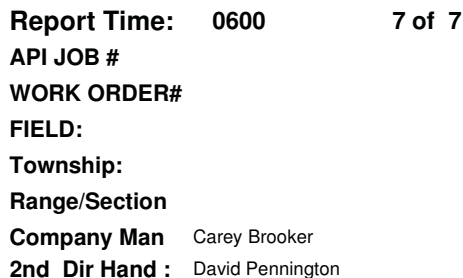
From Wednesday, September 12, 2012 at 0600 to Thursday, September 13, 2012 at 0600

DAILY TOTALS				ASSEMBLY TOTALS									
Start Depth	4938.00			BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP
End Depth	5336.00			2	6352	35.00	2.50	363.00	11.00	1.50	15.00	398.00	26.53
Below Rot Hrs.	24.00												
Total Drilled:	398.00			Drilling Parameters		Mud Record		Bit Record			Current BHA # 2 7 7/8, DP408X, 6x16 6 1/4, 7/8L, 4.8S, 1.50 ADJ, Stab, 7 1/4" Blade UBHO MONEL MONEL		
Avg. Total ROP:	29.48												
Slide Footage:	35.00		WOB:	25	Weight:	0	Bit No:	2					
Slide Hours	2.50		Rot Wt:	0	Visc:	0	Model	7 7/8, DP408X,					
Avg. Slide ROP:	14.00		Pick UP:	0	Chlorides:	0	SN.:	7141352					
Rotate Footage:	363.00		Slack Off:	0	YP:	0	MFG.	BAKER					
Rotary Hours	11.00		SPP:	2000	PV:	0	Type	PDC					
Avg. Rot ROP:	33.00		Flow:	506 - 506	PH:	0	IADC						
Circ Hours	0.75		SPM:	103	GAS:	0	JETS	6-16					
Ream Hours	0.00		Rot. RPM	45 - 60	SAND:	0	TFA:	1.178					
Rotary Hrs%:	81.48		Mot RPM:	0 - 60	WL:	0	Hole ID:	7 7/8					
Slide Hrs%:	18.52		Incl. In:	0	SOLID:	0	Bit Hrs:	13.50					
Rotary Ftg%:	91.21		Azm. In:	0	BHT°:	0	Bit Ftg:	398.00					
Slide Ftg%:	8.79		Incl. Out:	0	Flow T°:	0	PUMPS						
				Azm. Out:	0	Oil %:				0			
Casing				COST BREAKDOWN									
Size	Lb/Ft	MD	Total Daily \$12,075.00						Effic.	95.00%	95.00%		
			Total Job \$80,740.00						Gal/Stk	4.91	4.91		
									BBL/Stk	0.117	0.117		

GENERAL COMMENT

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
06:00	06:15	0.25	4938	4938	0	.00	TIH	TIH
06:15	07:30	1.25	4938	4938	0	.00	Other	Trouble shoot MWD
07:30	08:45	1.25	4938	4938	0	.00	POOH	POOH - Fix MWD Tool
08:45	12:00	3.25	4938	4938	0	.00	Other	WAIT ON COMMUNICATION TOOL FOR MWD TOOL
12:00	14:30	2.50	4938	4938	0	.00	TIH	TIH
14:30	15:15	0.75	4938	4938	0	.00	Circulating	WASH 180' TO BOTTOM FROM 4758-4938
15:15	16:15	1.00	4938	4961	23	23.00	Drilling	Drilling - (WOB:35;GPM :506;RPM:45)
16:15	16:30	0.25	4961	4961	0	.00	Survey & Conn.	Survey & Conn.@4904_Inc 86.26°_Azm 347.11°
16:30	17:15	0.75	4961	4993	32	42.67	Drilling	Drilling - (WOB:25;GPM :506;RPM:60)
17:15	17:30	0.25	4993	4993	0	.00	Survey & Conn.	Survey & Conn.@4936_Inc 88.02°_Azm 347.64°
17:30	19:00	1.50	4993	5013	20	13.33	Sliding	Sliding - (WOB:50;GPM :506;TFO:15L))
19:00	21:15	2.25	5013	5086	73	32.44	Drilling	Drilling - (WOB:25;GPM :506;RPM:60)
21:15	21:30	0.25	5086	5086	0	.00	Survey & Conn.	Survey & Conn.@5029_Inc 90.57°_Azm 347.82°
21:30	24:00	2.50	5086	5163	77	30.80	Drilling	Drilling - (WOB:25;GPM :506;RPM:60)

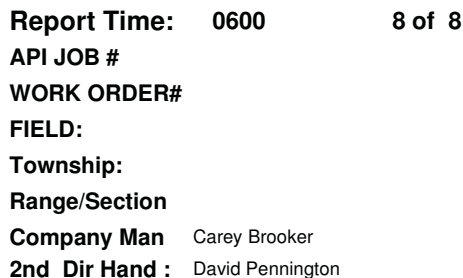
Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	00:15	0.25	5163	5180	17	68.00	Drilling	Drilling - (WOB:25;GPM :506;RPM:60)
00:15	00:30	0.25	5180	5180	0	.00	Survey & Conn.	Survey & Conn.@5123_Inc 90.75°_Azm 348.43°
00:30	01:30	1.00	5180	5195	15	15.00	Sliding	Sliding - (WOB:50;GPM :506;TFO:120L))
01:30	04:00	2.50	5195	5274	79	31.60	Drilling	Drilling - (WOB:25;GPM :506;RPM:60)
04:00	04:15	0.25	5274	5274	0	.00	Survey & Conn.	Survey & Conn.@5217_Inc 89.60°_Azm 346.85°
04:15	06:00	1.75	5274	5336	62	35.43	Drilling	Drilling - (WOB:25;GPM :506;RPM:60)



DAILY TOTALS			ASSEMBLY TOTALS									
Start Depth	5336.00		BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP
End Depth	6118.00		2	6352	80.00	5.50	1,100.00	28.75	2.50	36.75	1,180.00	32.11
Below Rot Hrs.	24.00											
Total Drilled:	782.00		Drilling Parameters		Mud Record		Bit Record			Current BHA # 2		
Avg. Total ROP:	37.69		WOB: 25		Weight: 0		Bit No: 2			7 7/8, DP408X, 6x16 6 1/4, 7/8L, 4.8S, 1.50 ADJ, Stab, 7 1/4" Blade UBHO MONEL MONEL		
Slide Footage:	45.00		Rot Wt: 0		Visc: 0		Model 7 7/8, DP408X,					
Slide Hours	3.00		Pick UP: 0		Chlorides: 0		SN.: 7141352					
Avg. Slide ROP:	15.00		Slack Off: 0		YP: 0		MFG. BAKER					
Rotate Footage:	737.00		SPP: 2000		PV: 0		Type PDC					
Rotary Hours	17.75		Flow: 506 - 506		PH: 0		IADC					
Avg. Rot ROP:	41.52		SPM: 103		GAS: 0		JETS 6-16					
Circ Hours	1.00		Rot. RPM 60 - 60		SAND: 0		TFA: 1.178					
Ream Hours	0.00		Mot RPM: 0 - 60		WL: 0		Hole ID: 7 7/8					
Rotary Hrs%:	85.54		Incl. In: 0		SOLID: 0		Bit Hrs: 34.25					
Slide Hrs%:	14.46		Az. In: 0		BHT°: 0		Bit Ftg: 1180.00					
Rotary Ftg%:	94.25		Incl. Out: 0		Flow T°: 0		PUMPS					
Slide Ftg%:	5.75		Az. Out: 0		Oil %: 0		Liner 6.5 6.5					
Casing			COST BREAKDOWN					Effic. 95.00% 95.00%				
Size	Lb/Ft	MD	Total Daily \$12,075.00					Gal/Stk 4.91 4.91				
			Total Job \$92,815.00					BBL/Stk 0.117 0.117				

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
06:00	06:45	0.75	5336	5368	32	42.67	Drilling	Drilling - (WOB:25;GPM :506;RPM:60)
06:45	07:00	0.25	5368	5368	0	.00	Survey & Conn.	Survey & Conn.@5311_Inc 89.34°_Azm 346.85°
07:00	09:45	2.75	5368	5461	93	33.82	Drilling	Drilling - (WOB:25;GPM :506;RPM:60)
09:45	10:00	0.25	5461	5461	0	.00	Survey & Conn.	Survey & Conn.@5404_Inc 89.25°_Azm 346.85°
10:00	10:30	0.50	5461	5471	10	20.00	Sliding	Sliding - (WOB:50;GPM :506;TFO:70L))
10:30	12:00	1.50	5471	5555	84	56.00	Drilling	Drilling - (WOB:25;GPM :506;RPM:60)
12:00	12:15	0.25	5555	5555	0	.00	Survey & Conn.	Survey & Conn.@5498_Inc 89.34°_Azm 345.71°
12:15	12:45	0.50	5555	5565	10	20.00	Sliding	Sliding - (WOB:50;GPM :506;TFO:15L))
12:45	14:30	1.75	5565	5649	84	48.00	Drilling	Drilling - (WOB:25;GPM :506;RPM:60)
14:30	14:45	0.25	5649	5649	0	.00	Survey & Conn.	Survey & Conn.@5592_Inc 89.69°_Azm 344.65°
14:45	17:15	2.50	5649	5743	94	37.60	Drilling	Drilling - (WOB:25;GPM :506;RPM:60)
17:15	17:30	0.25	5743	5743	0	.00	Survey & Conn.	Survey & Conn.@5686_Inc 89.52°_Azm 344.57°
17:30	18:00	0.50	5743	5774	31	62.00	Drilling	Drilling - (WOB:25;GPM :506;RPM:60)
18:00	19:15	1.25	5774	5789	15	12.00	Sliding	Sliding - (WOB:65;GPM :506;TFO:15R))

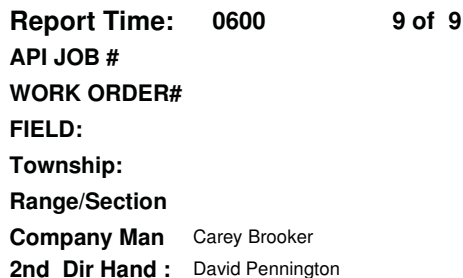
Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
19:15	20:45	1.50	5789	5837	48	32.00	Drilling	Drilling - (WOB:25;GPM :506;RPM:60)
20:45	21:00	0.25	5837	5837	0	.00	Survey & Conn.	Survey & Conn.@5780_Inc 89.78°_Azm 344.30°
21:00	23:00	2.00	5837	5930	93	46.50	Drilling	Drilling - (WOB:25;GPM :506;RPM:60)
23:00	24:00	1.00	5930	5930	0	.00	Circulating	Clean Up Cycle #1
00:00	00:15	0.25	5930	5930	0	.00	Survey & Conn.	Survey & Conn.@5873_Inc 89.78°_Azm 344.30°
00:15	01:00	0.75	5930	5940	10	13.33	Sliding	Sliding - (WOB:60;GPM :506;TFO:15R))
01:00	03:00	2.00	5940	6024	84	42.00	Drilling	Drilling - (WOB:25;GPM :506;RPM:60)
03:00	03:15	0.25	6024	6024	0	.00	Survey & Conn.	Survey & Conn.@5967_Inc 90.57°_Azm 344.57°
03:15	05:45	2.50	6024	6118	94	37.60	Drilling	Drilling - (WOB:25;GPM :506;RPM:60)
05:45	06:00	0.25	6118	6118	0	.00	Survey & Conn.	Survey & Conn.@6061_Inc °_Azm °



DAILY TOTALS			ASSEMBLY TOTALS									
Start Depth	6118.00		BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP
End Depth	6809.00		2	6352	120.00	11.00	1,751.00	45.00	2.50	58.50	1,871.00	31.98
Below Rot Hrs.	24.00											
Total Drilled:	691.00		Drilling Parameters		Mud Record		Bit Record		Current BHA # 2			
Avg. Total ROP:	31.77											
Slide Footage:	40.00		WOB:		30	Weight:	0	Bit No:	2			
Slide Hours	5.50		Rot Wt:		0	Visc:	0	Model	7 7/8, DP408X,			
Avg. Slide ROP:	7.27		Pick UP:		0	Chlorides:	0	SN.:	7141352			
Rotate Footage:	651.00		Slack Off:		0	YP:	0	MFG.	BAKER			
Rotary Hours	16.25		SPP:		2000	PV:	0	Type	PDC			
Avg. Rot ROP:	40.06		Flow:		506 - 506	PH:	0	IADC				
Circ Hours	0.00		SPM:		103	GAS:	0	JETS	6-16			
Ream Hours	0.00		Rot. RPM		60 - 60	SAND:	0	TFA:	1.178			
Rotary Hrs%:	74.71		Mot RPM:		0 - 60	WL:	0	Hole ID:	7 7/8			
Slide Hrs%:	25.29		Incl. In:		0	SOLID:	0	Bit Hrs:	56.00			
Rotary Ftg%:	94.21		Az. In:		0	BHT°:	0	Bit Ftg:	1871.00			
Slide Ftg%:	5.79		Incl. Out:		0	Flow T°:	0	PUMPS				
			Az. Out:		0	Oil %:	0					
Casing			COST BREAKDOWN									
Size	Lb/Ft	MD	Total Daily		\$12,075.00			Effic. 95.00% 95.00%				
			Total Job		\$104,890.00			Gal/Stk 4.91 4.91				
								BBL/Stk 0.117 0.117				

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
06:00	08:30	2.50	6118	6212	94	37.60	Drilling	Drilling - (WOB:25;GPM :506;RPM:60)
08:30	08:45	0.25	6212	6212	0	.00	Survey & Conn.	Survey & Conn.@6155_Inc 89.16° Azm 343.69°
08:45	11:15	2.50	6212	6232	20	8.00	Sliding	Sliding - (WOB:60;GPM :506;TFO:45R))
11:15	13:30	2.25	6232	6305	73	32.44	Drilling	Drilling - (WOB:25;GPM :506;RPM:60)
13:30	14:00	0.50	6305	6305	0	.00	Rig Service-Inhole	Rig Service-Inhole
14:00	14:15	0.25	6305	6305	0	.00	Survey & Conn.	Survey & Conn.@6248_Inc 90.04° Azm 345.18°
14:15	17:45	3.50	6305	6399	94	26.86	Drilling	Drilling - (WOB:25;GPM :506;RPM:60)
17:45	18:00	0.25	6399	6399	0	.00	Survey & Conn.	Survey & Conn.@6342_Inc 90.04° Azm 345.27°
18:00	19:15	1.25	6399	6495	96	76.80	Drilling	Drilling - (WOB:25;GPM :506;RPM:60)
19:15	19:30	0.25	6495	6495	0	.00	Survey & Conn.	Survey & Conn.@6438_Inc 89.16° Azm 344.39°
19:30	22:30	3.00	6495	6515	20	6.67	Sliding	Sliding - (WOB:80;GPM :506;TFO:45R))
22:30	24:00	1.50	6515	6570	55	36.67	Drilling	Drilling - (WOB:25;GPM :506;RPM:60)
00:00	00:30	0.50	6570	6588	18	36.00	Drilling	Drilling - (WOB:25;GPM :506;RPM:60)
00:30	00:45	0.25	6588	6588	0	.00	Survey & Conn.	Survey & Conn.@6531_Inc 90.57° Azm 345.79°

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:45	02:45	2.00	6588	6681	93	46.50	Drilling	Drilling - (WOB:30;GPM :506;RPM:60)
02:45	03:00	0.25	6681	6681	0	.00	Survey & Conn.	Survey & Conn.@6624_Inc 90.48°_Azm 346.15°
03:00	05:00	2.00	6681	6774	93	46.50	Drilling	Drilling - (WOB:30;GPM :506;RPM:60)
05:00	05:15	0.25	6774	6774	0	.00	Survey & Conn.	Survey & Conn.@6717_Inc 89.96°_Azm 346.15°
05:15	06:00	0.75	6774	6809	35	46.67	Drilling	Drilling - (WOB:30;GPM :506;RPM:60)



DAILY TOTALS			ASSEMBLY TOTALS									
Start Depth	6809.00		BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP
End Depth	7323.00		2	6352	140.00	15.75	2,245.00	61.00	4.50	81.25	2,385.00	29.35
Below Rot Hrs.	24.00											
Total Drilled:	514.00		Drilling Parameters		Mud Record		Bit Record		Current BHA # 2			
Avg. Total ROP:	24.77		WOB: 30		Weight: 0		Bit No: 2		7 7/8, DP408X, 6x16 6 1/4, 7/8L, 4.8S, 1.50 ADJ, Stab, 7 1/4" Blade UBHO MONEL MONEL			
Slide Footage:	20.00		Rot Wt: 0		Visc: 0		Model 7 7/8, DP408X,					
Slide Hours	4.75		Pick UP: 0		Chlorides: 0		SN.: 7141352					
Avg. Slide ROP:	4.21		Slack Off: 0		YP: 0		MFG. BAKER					
Rotate Footage:	494.00		SPP: 2000		PV: 0		Type PDC					
Rotary Hours	16.00		Flow: 506 - 506		PH: 0		IADC					
Avg. Rot ROP:	30.88		SPM: 103		GAS: 0		JETS 6-16					
Circ Hours	2.00		Rot. RPM 60 - 60		SAND: 0		TFA: 1.178					
Ream Hours	0.00		Mot RPM: 60 - 60		WL: 0		Hole ID: 7 7/8					
Rotary Hrs%:	77.11		Incl. In: 0		SOLID: 0		Bit Hrs: 76.75					
Slide Hrs%:	22.89		Azm. In: 0		BHT°: 0		Bit Ftg: 2385.00					
Rotary Ftg%:	96.11		Incl. Out: 0		Flow T°: 0		PUMPS					
Slide Ftg%:	3.89		Azm. Out: 0		Oil %: 0		Liner 6.5 6.5					
Casing								Stroke 12 12				
Size	Lb/Ft	MD	COST BREAKDOWN					Effic. 95.00% 95.00%				
			Total Daily		\$12,075.00			Gal/Stk 4.91 4.91				
			Total Job		\$116,965.00			BBL/Stk 0.117 0.117				

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
06:00	07:45	1.75	6809	6869	60	34.29	Drilling	Drilling - (WOB:30;GPM :506;RPM:60)
07:45	08:00	0.25	6869	6869	0	.00	Survey & Conn.	Survey & Conn.@6812_Inc 89.69°_Azm 346.50°
08:00	09:15	1.25	6869	6929	60	48.00	Drilling	Drilling - (WOB:30;GPM :506;RPM:60)
09:15	11:15	2.00	6929	6929	0	.00	Circulating	Circulating - PUMP WEIGHTED SWEEP AND WORK PIPE
11:15	12:00	0.75	6929	6961	32	42.67	Drilling	Drilling - (WOB:30;GPM :506;RPM:60)
12:00	12:15	0.25	6961	6961	0	.00	Survey & Conn.	Survey & Conn.@6904_Inc 89.16°_Azm 347.20°
12:15	17:00	4.75	6961	6981	20	4.21	Sliding	Sliding - (WOB:80;GPM :506;TFO:45R)
17:00	19:15	2.25	6981	7054	73	32.44	Drilling	Drilling - (WOB:30;GPM :506;RPM:60)
19:15	19:30	0.25	7054	7054	0	.00	Survey & Conn.	Survey & Conn.@6997_Inc 90.66°_Azm 347.11°
19:30	22:45	3.25	7054	7148	94	28.92	Drilling	Drilling - (WOB:30;GPM :506;RPM:60)
22:45	23:00	0.25	7148	7148	0	.00	Survey & Conn.	Survey & Conn.@7091_Inc 90.75°_Azm 347.38°
23:00	24:00	1.00	7148	7179	31	31.00	Drilling	Drilling - (WOB:30;GPM :506;RPM:60)
00:00	02:30	2.50	7179	7241	62	24.80	Drilling	Drilling - (WOB:30;GPM :506;RPM:60)
02:30	02:45	0.25	7241	7241	0	.00	Survey & Conn.	Survey & Conn.@7183_Inc 90.4°_Azm 347.64°



JOB NO.: 12MLD0328
 Company: FORGE ENERGY LLC
 LOCATION: ANDREWS
 RIG NAME: THORTON 25
 STATE: TEXAS
 COUNTY: ANDREWS
 WELL NAME: UL13 KEENE 34 12H
 Lead Directional : Mathue Ellis

Report Time: 0600 10 of 10
 API JOB #
 WORK ORDER#
 FIELD:
 Township:
 Range/Section
 Company Man Carey Brooker
 2nd Dir Hand : David Pennington

From Sunday, September 16, 2012 at 0600 to Monday, September 17, 2012 at 0600

DAILY TOTALS				ASSEMBLY TOTALS							
Start Depth	7323.00	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP
End Depth	7510.00	2	6352	140.00	15.75	2,289.00	63.75	4.50	84.00	2,429.00	28.92
Below Rot Hrs.	24.00	3	6331	0.00	0.00	143.00	5.75	1.25	7.00	143.00	0.00
Total Drilled:	187.00	Drilling Parameters		Mud Record		Bit Record		Current BHA # 3			
Avg. Total ROP:	22.00										
Slide Footage:	0.00										
Slide Hours	0.00										
Avg. Slide ROP:	NA	WOB:		30	Weight:		0	Bit No:		3	FX75, 7-16's 6 1/4, 7/8L, 4.8S, 1.5° FIXED Stab, 7 1/4" Blade UBHO MONEL MONEL 46 STNDS DP 36 JTS HWDP DRILLING JARS 4 JTS HWDP
Rotate Footage:	187.00	Rot Wt:		0	Visc:		0	Model		FX75, 7-16's	
Rotary Hours	8.50	Pick UP:		0	Chlorides:		0	SN.:		11961999	
Avg. Rot ROP:	22.00	Slack Off:		0	YP:		0	MFG.		SECURITY	
Circ Hours	1.25	SPP:		2700	PV:		0	Type		PDC	
Ream Hours	0.00	Flow:		481 - 506	PH:		0	IADC			
Rotary Hrs%:	100.00	SPM:		98	GAS:		0	JETS		7-16	
Slide Hrs%:	.00	Rot. RPM		60 - 60	SAND:		0	TFA:		1.374	
Rotary Ftg%:	100.00	Mot RPM:		-	WL:		0	Hole ID:		7 7/8	
Slide Ftg%:	.00	Incl. In:		0	SOLID:		0	Bit Hrs:			
Casing				BHT°:		0	Bit Ftg:				
Size	Lb/Ft	MD	Incl. Out:		0	Flow T°:		0	PUMPS		
				Oil %:		0	Liner		6.5	6.5	
				Azm. Out:		0	Stroke		12	12	
				COST BREAKDOWN		Effic.		95.00%	95.00%		
				Total Daily		\$12,075.00	Gal/Stk		4.91	4.91	
				Total Job		\$132,240.00	BBL/Stk		0.117	0.117	

GENERAL COMMENT

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
06:00	07:30	1.50	7323	7335	12	8.00	Drilling	Drilling - (WOB:30;GPM :506;RPM:60)
07:30	07:45	0.25	7335	7335	0	.00	Survey & Conn.	Survey & Conn.@7278_Inc 90.4°_Azm 347.29°
07:45	09:00	1.25	7335	7367	32	25.60	Drilling	Drilling - (WOB:30;GPM :506;RPM:60)
09:00	13:00	4.00	7367	7367	0	.00	POOH	POOH
13:00	14:15	1.25	7367	7367	0	.00	Change BHA	Change BHA #3
14:15	15:00	0.75	7367	7367	0	.00	Circulating	Make up bit and Test MWD
15:00	15:30	0.50	7367	7367	0	.00	Other	Install Rotating Head
15:30	16:00	0.50	7367	7367	0	.00	Service-Outtho	Rig Service-Outhole
16:00	17:15	1.25	7367	7367	0	.00	Other	Cut 110' of Drilling Line
17:15	19:45	2.50	7367	7367	0	.00	TIH	TIH
19:45	21:15	1.50	7367	7367	0	.00	POOH	POOH for Drill Pipe Screen
21:15	23:00	1.75	7367	7367	0	.00	TIH	TIH
23:00	23:30	0.50	7367	7367	0	.00	Circulating	P/U Kelly and Fill Pipe
23:30	24:00	0.50	7367	7367	0	.00	TIH	TIH

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	02:45	2.75	7367	7428	61	22.18	Drilling	Drilling - (WOB:30;GPM :481;RPM:60)
02:45	03:00	0.25	7428	7428	0	.00	Survey & Conn.	Survey & Conn.@5372_Inc 90.57°_Azm 347.01°
03:00	06:00	3.00	7428	7510	82	27.33	Drilling	Drilling - (WOB:30;GPM :481;RPM:60)



Well Name & No.	UL 13 Keene 34 #12H	Spud Date/DFS:	9/2/2012	18
Job No:	11272	Report Date & No:	9/19/2012	22

Progress Summary		Daily Drilling Summary						General Well Information													
Days From Spud:	18	Total Drilling		Rotate Drilling		Slide Drilling		Category:	New Drill	Sec/Blk/Sur:	12/13/UL										
Proposed MD (ft):	9,138	Footage:	449	Ftg:	433	Ftg:	16	API #:	42-003-44647	County/Parish:	Andrews										
Proposed TVD (ft):	4,633	Hours:	22:45	Hrs:	21:00	Hrs:	1:45	Permit #:	745788	State:	Texas										
Current MD (ft):	8,250	ROP:	19.74	ROP:	20.62	ROP:	9.14	Field:	Shafter Lake	Country:	USA										
Current TVD (ft):	4,628	Avg.WOB:	33.85	WOB:	30.00	WOB:	80.00														
		Max WOB:	80	Cum Ftg:	7250	Cum Ftg:	946														
				Cum Hrs:	180:45	Cum Hrs:	63:45														
Operations Outlook																					
Current Ops:	Drilling Ahead @ 8250'																				
@ 6:00 Am																					
Planned Ops:																					
Next 24 hours	Drill T/8389 Short TRip to Move 10 Stands under HWDP - Continue Drilling to T/9086																				

Daily Cost Information		Rig Information
AFE #	AFE Amount	Company Rep
O 12023		Jerry White
Daily Cost	Cum Cost	Toolpusher
\$42,503	\$1,122,772	Steve Boyd
Daily Mud	Cum Mud Cost	Contractor
\$0	\$37,463	Thornton

Directional Survey Information

MD	Angle	Azimuth	TVD	VS	+N/-S	+E/-W	Closure Distance	Closure Direction	B+/-	Dip Sex
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	Current	Revis
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Mud Log Information

Bq Gas	28
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	Pump 1	Pump 2	Pump 3
1			
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	Current	Previous
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Lithology

	Current	Previous
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Accident:	
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Accident:	
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	Current	Draw
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Comp. Man(s)	2
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BHA #	7
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Accident:	None
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Accident:	
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Mud Report		
	Current	Prev
Date	9/19/2012	9/18/2012
Time	15:30	17:00
Temp		103
TVD	4632	4627
MD	8396	8019
Weight	10.2	10
Vis.	37	36
PV	14	16
YP	14	6
pH	10	10
%Solids	3.1	1.4
%Oil		
%Water	96.9	98.6
%Sands	tr	tr
Gels		
Filtrate (30 min)	100	100
HTHP		
Cake	2	1
MBT		
Pm		
Pf	0.2	0.15
Mf	0.3	0.25
Chloride	178,000	178000
Calcium	920	880
600 Rpm		
300 Rpm		
%LGS	3.1	1.4
System bbls	957	957
mud less		
Cum Mud Loss		
Mud Log Information		
Bg Gas	35	
Con Gas	45	
Tr Gas		
Max	43 @ 8254'	
Est pp		
ECD	10.22	

Pump & Hydraulics Information			
	Pump 1	Pump 2	Pump 3
Type	Triplex	Triplex	
Liner	6.5	6.5	
Stroke	12	12	
SPM	101	100	
Rod			
%Eff	95%	95%	
Gal/Strk	4.92	4.92	
Bbl/Strk	0.117	0.117	
Gal/min	496	491	
Pressure	2200	2300	
AV DP	271	271	
AV DC	435	435	

Motor Detail		
	<i>Current</i>	<i>Previous</i>
Make	<i>Pathfinder</i>	<i>Pathfinder</i>
Serial	6331	6352
Size	6 1/4"	6 1/4"
Lobes	7/8L	7/8L
Stages	4.8	4.8S
Speed	0.331	0.331
Build	1.5 <i>Fixed</i>	1.5 <i>Adj.</i>
Depth In	7367	4938
Depth Out		7367
Hours		79.25
Lithology		
	<i>Current</i>	<i>Previous</i>
%shale		
%sand		
%lime		
%other	100	100
Depth	8389	7471
	San Andres	San Andres

Safety Topic:	Tripping in hole
Accident:	None
Accident:	

Bit Information				
	Current		Prev	
Bit No.	6		5	
Size	7 7/8		7.875	
Make	Hughes		Security	
Serial	7141772		11961999	
Model	T606X		FX75	
	qty	size	qty	size
Nozzle 1	6	22	7	16
Nozzle 2				
Nozzle 3				
Depth Out			8389	
Depth In	8389		7367	
Footage	-8389		1022	
Hours			34.5	
ROP	0.000		29.623	
WOB			30	
Rot RPM			65	
TFA (in ³)	2.227		1.374	
MM RPM			141	
Torque				
Grade			2-BT-H-X-0-WT-B	

Personnel	
Comp. Man(s)	1
Toolpusher(s)	1
Co-Rep(s)	
Rig Personnel	11
Mud Engineer(s)	0
Mud Logger(s)	1
Directional	4
Service Co	
Contractor	
Other	1
Totals	19

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hole

Daily Drilling Report



Rig Name: Thornton Drilling

Forge Energy LLC

Rig No. 25 432-242-4228

Well Name & No. *UL 13 Keene 34 #12H*

Spud Date/DFS:	9/2/2012	20
Report Date & No:	9/21/2012	24

Job No: 11272

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Directional Survey Information										
MD	Angle	Azimuth	TVD	VS	+N-S	+E-W	Closure Distance	Closure Direction	Rx-L	Dig Sev
5.404	89.25	346.85	4628.46	1048.02	1030.48	-196.39	1049.14	349.18	14.09	0.1
5.498	89.34	345.71	4629.61	1142.01	1031.22	-213.02	1143.02	348.94	14.01	0.1
5.592	89.29	344.65	4630.41	1235.98	1212.65	-243.32	1236.82	348.65	13.17	1.19
5.686	89.25	344.57	4631.06	1329.93	1303.28	-268.27	1330.6	348.37	10.87	0.2
5.780	89.73	344.33	4631.53	1423.98	1401.23	-293.44	1425.43	348.11	9.21	0.1
5.873	89.78	344.3	4631.99	1516.79	1514.97	-318.68	1517.2	348.88	5.51	0
5.967	90.55	344.57	4631.7	1610.73	1573.91	-343.88	1611.04	347.68	2.93	0.89
6.061	90.48	345.24	4630.84	1704.87	1664.54	-369.33	1707.21	347.35	1.71	0.51
6.155	90.16	343.89	4631.14	1798.58	1754.97	-394.47	1798.78	347.3	-2.39	1.74
6.248	90.04	345.18	4632.39	1891.52	1844.55	-419.42	1891.64	347.19	-4.34	1.86
6.342	90.04	345.72	4631.72	1986.49	1935.45	-443.38	1985.38	347.1	-8.32	2.01
6.436	89.16	344.39	4632.79	2081.44	2028.1	-468.51	2081.51	346.99	-8.21	1.3
6.531	90.57	345.79	4632.61	2174.41	2117.96	-492.44	2174.45	346.91	-9.7	2.14
6.624	90.48	346.15	4631.76	2267.4	2208.18	-514.39	2267.44	346.87	-9.76	0.4
6.717	89.96	345.15	4631.4	2360.39	2298.28	-538.04	2360.42	346.82	-10.35	1.21
6.812	89.69	346.5	4631.69	2455.4	2390.78	-559.71	2455.43	346.82	-10.68	0.47
6.904	89.16	347.2	4632.61	2547.39	2480.37	-580.64	2547.42	346.82	-9.31	0.95
6.997	90.69	347.11	4632.76	2640.38	2567.11	-601.51	2640.38	346.84	-8.26	1.47
7.091	90.75	347.88	4631.6	2734.37	2662.71	-622.06	2734.41	346.85	-5.52	0.3
7.183	90.4	347.64	4630.68	2826.35	2752.53	-641.96	2826.4	346.87	-3.02	0.47
7.278	90.4	347.29	4630.02	2921.33	2845.25	-662.58	2921.39	346.88	-0.37	0.69
7.373	90.57	347.01	4629.21	3016.32	2937.88	-683.7	3016.38	346.9	2.93	0.34
7.467	91.28	347.06	4627.7	3110.31	3039.87	-704.79	3110.37	346.9	4.61	0.76
7.560	91.89	347.16	4626.12	3203.27	3120.09	-725.33	3203.33	346.91	8.4	0.8
7.654	90.75	346.17	4626.96	3297.24	3211.53	-747.2	3297.31	346.97	1.47	1.61
7.746	88.29	344.92	4623.73	3389.21	3300.63	-770.16	3389.27	346.87	6.73	3
7.839	88.65	346.28	4626.29	3482.13	3390.29	-794.53	3482.13	346.81	1.68	0.87
7.930	89.34	344.64	4627.97	3573.07	3475.02	-818.76	3573.09	346.75	2.46	0.87
8.023	89.69	344.41	4628.76	3666	3567.64	-843.58	3666.02	346.7	0.05	0.45
8.115	90.22	345.81	4629.63	3754.81	3658.5	-867.37	3754.83	346.64	-2.69	0.64
8.208	88.55	344.74	4629.83	3845.89	3745.98	-892.37	3850.89	346.6	-4.53	1.6
8.302	88.72	344.72	4632.06	3934.81	3836.64	-917.47	3940.81	346.55	-6.63	0.82
8.396	89.16	345.81	4632.06	4029.75	3927.52	-942.65	4030.75	346.55	-12.06	2.08
8.488	88.81	345.36	4635.43	4123.87	4016.13	-968.09	4130.7	346.47	-7.51	0.85
8.581	88.64	345.33	4637.5	4200.77	4016.13	-989.46	4223.67	346.45	-8.89	0.28
8.674	89.87	346.76	4638.71	4316.65	4196.42	-1011.72	4316.65	346.45	-9.31	1.87

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Directional Survey Information										
MD	Angle	Azimuth	TVD	VS	+N-S	+E-W	Closure Distance	Closure Direction	R+/-	Dlg Sev
5.404	89.25	346.85	4628.46	1048.02	1030.48	-196.99	1049.14	349.18	14.09	0.1
5.498	89.34	345.71	4629.61	1142.01	1121.78	-219.28	1143.02	348.94	14.53	1.22
5.592	89.69	344.65	4630.41	1235.98	1212.65	-243.32	1236.82	348.65	13.17	1.19
5.686	89.52	344.57	4631.06	1329.93	1303.28	-268.27	1330.6	348.37	10.87	0.2
5.780	89.78	344.3	4631.63	1423.86	1393.83	-293.49	1424.4	348.11	8.29	0.4
5.873	89.78	344.3	4631.99	1516.79	1483.36	-318.66	1517.2	347.88	5.51	0
5.967	90.57	344.57	4631.7	1610.73	1573.91	-343.88	1611.04	347.68	2.93	0.89
6.061	90.48	344.65	4630.84	1704.67	1664.54	-368.83	1704.91	347.51	0.63	0.13
6.155	89.16	343.69	4631.14	1798.58	1754.97	-394.47	1798.76	347.33	-2.39	1.74
6.248	90.04	345.18	4631.79	1891.52	1844.55	-419.42	1891.64	347.19	-4.94	1.86
6.342	90.04	345.27	4631.72	1985.49	1935.45	-443.39	1985.58	347.1	-6.32	0.1
6.438	89.16	344.39	4632.39	2081.44	2028.1	-468.51	2081.51	346.99	-8.21	1.3
6.531	90.57	345.79	4632.61	2174.41	2117.96	-492.44	2174.45	346.91	-9.7	2.14
6.624	90.48	346.15	4631.76	2267.4	2208.18	-514.99	2267.44	346.87	-9.76	0.4
6.717	89.96	345.15	4631.4	2360.39	2298.28	-538.04	2360.42	346.82	-10.35	1.21
6.812	89.69	346.5	4631.69	2455.4	2390.78	-559.71	2455.43	346.82	-10.66	0.47
6.904	89.16	347.2	4632.61	2547.39	2480.37	-580.64	2547.42	346.82	-9.31	0.95
6.997	90.66	347.11	4632.76	2640.38	2571.04	-601.31	2640.42	346.84	-7.54	1.62
7.091	90.75	347.88	4631.6	2734.37	2662.71	-622.06	2734.41	346.85	-5.52	0.3
7.183	90.4	347.64	4630.68	2826.35	2752.53	-641.96	2826.4	346.87	-3.02	0.47
7.278	90.4	347.29	4630.02	2921.33	2845.26	-662.58	2921.39	346.89		0.37
7.373	90.57	347.01	4629.21	3016.32	2937.88	-683.7	3016.38	346.9	2.93	0.34
7.467	91.28	347.06	4627.7	3110.31	3029.47	-704.79	3110.37	346.9	4.61	0.76
7.560	91.89	347.16	4625.12	3203.27	3120.09	-725.53	3203.33	346.91	6.4	0.66
7.654	90.75	346.17	4622.96	3297.24	3211.53	-747.2	3297.31	346.9	7.47	1.61
7.746	88.29	344.92	4623.73	3389.21	3300.6	-770.16	3389.27	346.87	6.73	3
7.839	88.55	344.68	4626.29	3482.13	3390.29	-794.62	3482.13	346.81	4.68	0.46
7.930	89.34	344.64	4627.97	3573.07	3478.02	-818.76	3573.09	346.75	2.46	0.87
8.023	89.69	344.41	4628.76	3666	3567.64	-843.58	3666.02	346.7	0.05	0.45
8.115	90.22	344.61	4628.83	3757.95	3656.3	-868.15	3757.95	346.64	-2.65	0.62
8.208	88.55	344.74	4629.83	3850.89	3745.98	-892.372	3850.89	346.6	-4.53	1.8
8.302	88.72	344.72	4632.06	3944.81	3836.64	-917.47	3944.81	346.55	-6.63	0.18
8.395	89.16	344.65	4633.79	4037.75	3923.32	-942.03	4037.75	346.51	-5.3	

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Directional Survey Information										
MD	Angle	Azimuth	TVD	VS	+N/-S	+E/-W	Closure Distance	Closure Direction	R+/-L	Dlg Sev
5.404	89.25	346.85	4628.46	1048.02	1030.48	-196.99	1049.14	349.18	14.09	0.1
5.498	89.34	345.71	4629.61	1142.01	1121.78	-219.28	1143.02	348.94	14.53	1.22
5.592	89.69	344.65	4630.41	1235.98	1212.65	-243.32	1236.82	348.65	13.17	1.19
5.686	89.52	344.57	4631.06	1329.93	1303.28	-268.27	1330.6	348.37	10.87	0.2
5.780	89.78	344.3	4631.63	1423.86	1393.83	-293.49	1424.4	348.11	8.29	0.4
5.873	89.78	344.3	4631.99	1516.79	1483.36	-318.66	1517.2	347.88	5.51	0
5.967	90.57	344.57	4631.7	1610.73	1573.91	-343.88	1611.04	347.68	2.93	0.89
6.061	90.48	344.65	4630.84	1704.67	1664.54	-368.83	1704.91	347.51	0.63	0.13
6.155	89.16	343.69	4631.14	1798.58	1754.97	-394.47	1798.76	347.33	-2.39	1.74
6.248	90.04	345.18	4631.79	1891.52	1844.55	-419.42	1891.64	347.19	-4.94	1.86
6.342	90.04	345.27	4631.72	1985.49	1935.45	-443.39	1985.58	347.1	-6.32	0.1
6.438	89.16	344.39	4632.39	2081.44	2028.1	-468.51	2081.51	346.99	-8.21	1.3
6.531	90.57	345.79	4632.61	2174.41	2117.96	-492.44	2174.45	346.91	-9.7	2.14
6.624	90.48	346.15	4631.76	2267.4	2208.18	-514.99	2267.44	346.87	-9.76	0.4
6.717	89.96	345.15	4631.4	2360.39	2298.28	-538.04	2360.42	346.82	-10.35	1.21
6.812	89.69	346.5	4631.69	2455.4	2390.78	-559.71	2455.43	346.82	-10.66	0.47
6.904	89.16	347.2	4632.61	2547.39	2480.37	-580.64	2547.42	346.82	-9.31	0.95
6.997	90.66	347.11	4632.76	2640.38	2571.04	-601.31	2640.42	346.84	-7.54	1.62
7.091	90.75	347.88	4631.6	2734.37	2662.71	-622.06	2734.41	346.85	-5.52	0.3
7.183	90.4	347.64	4630.68	2826.35	2752.53	-641.96	2826.4	346.87	-3.02	0.47
7.278	90.4	347.29	4630.02	2921.33	2845.26	-662.58	2921.39	346.89		0.37
7.373	90.57	347.01	4629.21	3016.32	2937.88	-683.7	3016.38	346.9	2.93	0.34
7.467	91.28	347.06	4627.7	3110.31	3029.47	-704.79	3110.37	346.9	4.61	0.76
7.560	91.89	347.16	4625.12	3203.27	3120.09	-725.53	3203.33	346.91	6.4	0.66
7.654	90.75	346.17	4622.96	3297.24	3211.53	-747.2	3297.31	346.9	7.47	1.61
7.746	88.29	344.92	4623.73	3389.21	3300.6	-770.16	3389.27	346.87	6.73	3
7.839	88.55	344.58	4626.29	3482.13	3390.29	-794.62	3482.13	346.81	4.68	0.46
7.930	89.34	344.64	4627.97	3573.07	3478.02	-818.76	3573.09	346.75	2.46	0.87
8.023	89.69	344.41	4628.76	3666	3567.64	-843.58	3666.02	346.7	0.05	0.45
8.115	90.22	344.61	4628.83	3757.95	3656.3	-868.15	3757.95	346.64	-2.65	0.62
8.208	88.55	344.74	4629.83	3850.89	3745.98	-892.372	3850.89	346.6	-4.53	1.8
8.302	88.72	344.72	4632.06	3944.81	3836.64	-917.47	3944.81	346.55	-6.63	0.18
8.395	89.16	344.65	4633.79	4037.75	3923.32	-942.03	4037.75	346.51	-5.33	0.48
8.488	88.81	345.36	4635.43	4130.7	4016.14	-966.09	4130.7	346.47	-7.51	0.85
8.581	88.64	345.33	4637.5	4223.67	4106.13	-989.46	4223.67	346.45	-8.89	0.26
8.674	89.87	346.76	4638.71	4316.65	4196.42	-1011.72	4316.65	346.45	-9.31	1.87
8.768	89.43	346.94	4639.29	4410.64	4287.94	-1033.13	4410.65	346.45	-8.51	0.51
8.859	89.78	347.82	4639.91	4501.63	4376.74	-1053.01	4501.63	346.47	-6.87	1.04
8.954	89.96	348.61	4640.13	4596.59	4469.74	-1072.41	4596.59	346.51	-3.78	0.85
9.048	89.52	348.61	4640.55	4690.53	4561.89	-1090.97	4690.53	346.55	-0.07	0.47
9.143	89.78	349.14	4641.14	4785.45	4655.1	-1109.3	4785.45	346.6	4.12	0.62
9.255	88.9	348.96	4642.43	4765.05	4765.05	1130.58	4897.34	346.65	9.41	0.8
9.312	88.9	348.96	4643.52	4820.99	4820.99	1141.49	4954.28	346.68	12.01	0

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Well Name & No.	UL 13 Keene 34 #12H	Spud Date/DFS:	9/2/2012	24
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Job No: 11272	Report Date & No:	9/25/2012	28
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Progress Summary		Daily Drilling Summary						General Well Information													
Days From Spud:	24	Total Drilling		Rotate Drilling		Slide Drilling		Category:	New Drill	Sec/Blk/Sur:	12/13/UL										
Proposed MD (ft):	9,138	Footage:	0	Ftg:	0	Ftg:	0	API #:	42-003-44647	County/Parish:	Andrews										
Proposed TVD (ft):	4,633	Hours:	0:00	Hrs:	0:00	Hrs:	0:00	Permit #:	745788	State:	Texas										
Current MD (ft):	9,312	ROP:	0.00	ROP:	0.00	ROP:	0.00	Field:	Shafter Lake	Country:	USA										
Current TVD (ft):	4,643	Avg.WOB:	0.00	WOB:	0.00	WOB:	0.00														
		Max WOB:	0	Cum Ftg:	8291	Cum Ftg:	967														
				Cum Hrs:	218:45	Cum Hrs:	66:15														
Operations Outlook																					
Current Ops:																					
@ 6:00 Am	Work Casing to bottom @ 8595																				
Planned Ops:																					
Next 24 hours	Run Casing, Cement and Nipple down.																				

Daily Cost Information		Rig Information
AFE #	AFE Amount	Company Rep
O 12023		Jerry White
Daily Cost	Cum Cost	Toolpusher
\$196,337	\$1,578,660	Jacob Pugh
Daily Mud	Cum Mud Cost	Contractor
\$0	\$86,929	Thornton

Directional Survey Information										
MD	Angle	Azimuth	TVD	VS	+N/-S	+E/-W	Closure Distance	Closure Direction	R+/-L	Dlg Sev
5,404	89.25	346.85	4628.46	1048.02	1030.48	-196.99	1049.14	349.18	14.09	0.1
5,498	89.34	345.71	4629.61	1142.01	1121.78	-219.28	1143.02	348.94	14.53	1.22
5,592	89.69	344.65	4630.41	1235.98	1212.65	-243.32	1236.82	348.65	13.17	1.19
5,686	89.52	344.57	4631.06	1329.93	1303.28	-268.27	1330.6	348.37	10.87	0.2
5,780	89.78	344.3	4631.63	1423.86	1393.83	-293.49	1424.4	348.11	8.29	0.4
5,873	89.78	344.3	4631.99	1516.79	1483.36	-318.66	1517.2	347.88	5.51	0
5,967	90.57	344.57	4631.7	1610.73	1573.91	-343.88	1611.04	347.68	2.93	0.89
6,061	90.48	344.65	4630.84	1704.67	1664.54	-368.83	1704.91	347.51	0.63	0.13
6,155	89.16	343.69	4631.14	1798.58	1754.97	-394.47	1798.76	347.33	-2.39	1.74
6,248	90.04	345.18	4631.79	1891.52	1844.55	-419.42	1891.64	347.19	-4.94	1.86
6,342	90.04	345.27	4631.72	1985.49	1935.45	-443.39	1985.58	347.1	-6.32	0.1
6,438	89.16	344.39	4632.39	2081.44	2028.1	-468.51	2081.51	346.99	-8.21	1.3
6,531	90.57	345.79	4632.61	2174.41	2117.96	-492.44	2174.45	346.91	-9.7	2.14
6,624	90.48	346.15	4631.76	2267.4	2208.18	-514.99	2267.44	346.87	-9.76	0.4
6,717	89.96	345.15	4631.4	2360.39	2298.28	-538.04	2360.42	346.82	-10.35	1.21
6,812	89.69	346.5	4631.69	2455.4	2390.78	-559.71	2455.43	346.82	-10.66	0.47
6,904	89.16	347.2	4632.61	2547.39	2480.37	-580.64	2547.42	346.82	-9.31	0.95
6,997	90.66	347.11	4632.76	2640.38	2571.04	-601.31	2640.42	346.84	-7.54	1.62
7,091	90.75	347.88	4631.6	2734.37	2662.71	-622.06	2734.41	346.85	-5.52	0.3
7,183	90.4	347.64	4630.68	2826.35	2752.53	-641.96	2826.4	346.87	-3.02	0.47
7,278	90.4	347.29	4630.02	2921.33	2845.26	-662.58	2921.39	346.89		0.37
7,373	90.57	347.01	4629.21	3016.32	2937.88	-683.7	3016.38	346.9	2.93	0.34
7,467	91.28	347.06	4627.7	3110.31	3029.47	-704.79	3110.37	346.9	4.61	0.76
7,560	91.89	347.16	4625.12	3203.27	3120.09	-725.53	3203.33	346.91	6.4	0.66
7,654	90.75	346.17	4622.96	3297.24	3211.53	-747.2	3297.31	346.9	7.47	1.61
7,746	88.29	344.92	4623.73	3389.21	3300.6	-770.16	3389.27	346.87	6.73	3
7,839	88.55	344.58	4626.29	3482.13	3390.29	-794.62	3482.13	346.81	4.68	0.46
7,930	89.34	344.64	4627.97	3573.07	3478.02	-818.76	3573.09	346.75	2.46	0.87
8,023	89.69	344.41	4628.76	3666	3567.64	-843.58	3666.02	346.7	0.05	0.45
8,115	90.22	344.61	4628.83	3757.95	3656.3	868.15	3757.95	346.64	-2.65	0.62
8,208	88.55	344.74	4629.83	3850.89	3745.98	-892.372	3850.89	346.6	-4.53	1.8
8,302	88.72	344.72	4632.06	3944.81	3836.64	-917.47	3944.81	346.55	-6.63	0.18
8,395	89.16	344.65	4633.79	4037.75	3923.32	-942.03	4037.75	346.51	-	

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Directional Survey Information										
MD	Angle	Azimuth	TVD	VS	+N-S	+E-W	Closure Distance	Closure Direction	R+/-	Dlg Sev
5,404	89.25	346.85	4628.46	1048.02	1030.48	-196.99	1049.14	349.18	14.09	0.1
5,498	89.34	345.71	4629.61	1142.01	1121.78	-219.28	1143.02	348.94	14.53	1.22
5,592	89.69	344.65	4630.41	1235.98	1212.65	-243.32	1236.82	348.65	13.17	1.19
5,686	89.52	344.57	4631.06	1329.93	1303.28	-268.27	1330.6	348.37	10.87	0.2
5,780	89.78	344.3	4631.63	1423.86	1393.83	-293.49	1424.4	348.11	8.29	0.4
5,873	89.78	344.3	4631.99	1516.79	1483.36	-318.66	1517.2	347.88	5.51	0
5,967	90.57	344.57	4631.7	1610.73	1573.91	-343.88	1611.04	347.68	2.93	0.89
6,061	90.48	344.65	4630.84	1704.67	1664.54	-368.83	1704.91	347.51	0.63	0.13
6,155	89.16	343.69	4631.14	1798.58	1754.97	-394.47	1798.76	347.33	-2.39	1.74
6,248	90.04	345.18	4631.79	1891.52	1844.55	-419.42	1891.64	347.19	-4.94	1.86
6,342	90.04	345.27	4631.72	1985.49	1935.45	-443.39	1985.58	347.1	-6.32	0.1
6,438	89.16	344.39	4632.39	2081.44	2028.1	-468.51	2081.51	346.99	-8.21	1.3
6,531	90.57	345.79	4632.61	2174.41	2117.96	-492.44	2174.45	346.91	-9.7	2.14
6,624	90.48	346.15	4631.76	2267.4	2208.18	-514.99	2267.44	346.87	-9.76	0.4
6,717	89.96	345.15	4631.4	2360.39	2298.28	-538.04	2360.42	346.82	-10.35	1.21
6,812	89.69	346.5	4631.69	2455.4	2390.78	-559.71	2455.43	346.82	-10.66	0.47
6,904	89.16	347.2	4632.61	2547.39	2480.37	-580.64	2547.42	346.82	-9.31	0.95
6,997	90.66	347.11	4632.76	2640.38	2571.04	-601.31	2640.42	346.84	-7.54	1.62
7,091	90.75	347.88	4631.6	2734.37	2662.71	-622.06	2734.41	346.85	-5.52	0.3
7,183	90.4	347.64	4630.68	2826.35	2752.53	-641.96	2826.4	346.87	-3.02	0.47
7,278	90.4	347.29	4630.02	2921.33	2845.26	-662.58	2921.39	346.89		0.37
7,373	90.57	347.01	4629.21	3016.32	2937.88	-683.7	3016.38	346.9	2.93	0.34
7,467	91.28	347.06	4627.7	3110.31	3029.47	-704.79	3110.37	346.9	4.61	0.76
7,560	91.89	347.16	4625.12	3203.27	3120.09	-725.53	3203.33	346.91	6.4	0.66
7,654	90.75	346.17	4622.96	3297.24	3211.53	-747.2	3297.31	346.9	7.47	1.61
7,746	88.29	344.92	4623.73	3389.21	3300.6	-770.16	3389.27	346.87	6.73	3
7,839	88.55	344.58	4626.29	3482.13	3390.29	-794.62	3482.13	346.81	4.68	0.46
7,930	89.34	344.64	4627.97	3573.07	3478.02	-818.76	3573.09	346.75	2.46	0.87
8,023	89.69	344.41	4628.76	3666	3567.64	-843.58	3666.02	346.7	0.05	0.45
8,115	90.22	344.61	4628.83	3757.95	3656.3	-868.15	3757.95	346.64	-2.65	0.62
8,208	88.55	344.74	4629.83	3850.89	3745.98	-892.372	3850.89	346.6	-4.53	1.8
8,302	88.72	344.72	4632.06	3944.81	3836.64	-917.47	3944.81	346.55	-6.63	0.18
8,395	89.16	344.65	4633.79	4037.75	3923.32	-942.03	4037.75	346.51	-5.33	0.48
8,488	88.81	345.36	4635.43	4130.7	4016.14	-966.09	4130.7	346.47	-7.51	0.85
8,581	88.64	345.33	4637.5	4223.67	4106.13	-989.46	4223.67	346.45	-8.89	0.26
8,674	89.87	346.76	4638.71	4316.65	4196.42	-1011.72	4316.65	346.45	-9.31	1.87
8,768	89.43	346.94	4639.29	4410.64	4287.94	-1033.13	4410.65	346.45	-8.51	0.51
8,859	89.78	347.82	4639.91	4501.63	4376.74	-1053.01	4501.63	346.47	-6.87	1.04
8,954	89.96	348.61	4640.13	4596.59	4469.74	-1072.41	4596.59	346.51	-3.78	0.85
9,048	89.52	348.61	4640.55	4690.53	4561.89	-1090.97	4690.53	346.55	-0.07	0.47
9,143	89.78	349.14	4641.14	4785.45	4655.1	1109.3	4785.45	346.6	4.12	0.62
9,255	88.9	348.96	4642.43	4765.05	4765.05	1130.58	4897.34	346.65	9.41	0.8
9,312	88.9	348.96	4643.52	4820.99	4820.99	1141.49	4954.28	346.68	12.01	0

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Daily Drilling Report



Rig Name: Thornton Drilling

Forge Energy LLC

Rig No. 25 432-242-4228

Well Name & No. *UL 13 Keene 34 #12H*

Spud Date/DFS: 9/2/2012 26

Job No: 11272

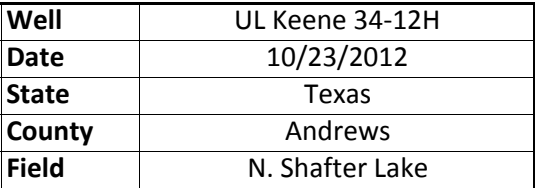
Report Date & No: 9/27/2012 30

Progress Summary		Daily Drilling Summary						General Well Information			
Days From Spud:	26	Total Drilling		Rotate Drilling		Slide Drilling		Category:	New Drill	Sec/Blk/Sur:	12/13/U/L
Proposed MD (ft):	9,138	Footage:	0	Ftg:	0	Ftg:	0	API #:	42-003-44647	County/Parish:	Andrews
Proposed TVD (ft):	4,633	Hours:	0:00	Hrs:	0:00	Hrs:	0:00	Permit #:	745788	State:	Texas
Current MD (ft):	9,312	ROP:	0.00	ROP:	0.00	ROP:	0.00	Field:	Shafter Lake	Country:	USA
Current TVD (ft):	4,643	Avg.WOB:	0.00	WOB:	0.00	WOB:	0.00				
		Max WOB:	0	Cum Ftg:	8291	Cum Ftg:	967				
				Cum Hrs:	218:45	Cum Hrs:	66:15				
Operations Outlook											
Current Ops:	Wait For Trucks										
@ 6:00 Am											
Planned Ops:	Load out Rig and remaining Rental Equipment.										
Next 24 hours											

Daily Cost Information		Rig Information
AFE #	AFE Amount	Company Rep
O 12023		Jerry White
Daily Cost	Cum Cost	Toolpusher
\$4,639	#REF!	Jacob Pugh
Daily Mud	Cum Mud Cost	Contractor
\$0	\$85,332	Thornton

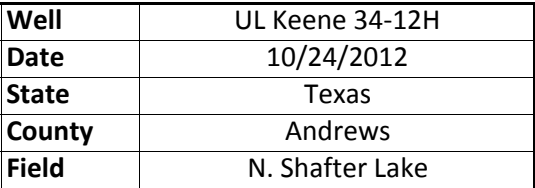
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Directional Survey Information										
MD	Angle	Azimuth	TVD	VS	+N/-S	+E/-W	Closure Distance	Closure Direction	R+/L-	Dlg Sev
5,404	89.25	346.85	4628.46	1048.02	1030.48	-196.99	1049.14	349.18	14.09	0.1
5,498	89.34	345.71	4629.61	1142.01	1121.78	-219.28	1143.02	348.94	14.53	1.22
5,592	89.69	344.65	4630.41	1235.98	1212.65	-243.32	1236.82	348.65	13.17	1.19
5,686	89.52	344.57	4631.06	1329.93	1303.28	-268.27	1330.6	348.37	10.87	0.2
5,780	89.78	344.3	4631.63	1423.86	1393.83	-293.49	1424.4	348.11	8.29	0.4
5,873	89.78	344.3	4631.99	1516.79	1483.36	-318.66	1517.2	347.88	5.51	0
5,967	90.57	344.57	4631.7	1610.73	1573.91	-343.88	1611.04	347.68	2.93	0.89
6,061	90.48	344.65	4630.84	1704.67	1664.54	-368.83	1704.91	347.51	0.63	0.13
6,155	89.16	343.69	4631.14	1798.58	1754.97	-394.47	1798.76	347.33	-2.39	1.74
6,248	90.04	345.18	4631.79	1891.52	1844.55	-419.42	1891.64	347.19	-4.94	1.86
6,342	90.04	345.27	4631.72	1985.49	1935.45	-443.39	1985.58	347.1	-6.32	0.1
6,438	89.16	344.39	4632.39	2081.44	2028.1	-468.51	2081.51	346.99	-8.21	1.3
6,531	90.57	345.79	4632.61	2174.41	2117.96	-492.44	2174.45	346.91	-9.7	2.14
6,624	90.48	346.15	4631.76	2267.4	2208.18	-514.99	2267.44	346.87	-9.76	0.4
6,717	89.96	345.15	4631.4	2360.39	2298.28	-538.04	2360.42	346.82	-10.35	1.21
6,812	89.69	346.5	4631.69	2455.4	2390.78	-559.71	2455.43	346.82	-10.66	0.47
6,904	89.16	347.2	4632.61	2547.39	2480.37	-580.64	2547.42	346.82	-9.31	0.95
6,997	90.66	347.11	4632.76	2640.38	2571.04	-601.31	2640.42	346.84	-7.54	1.62
7,091	90.75	347.88	4631.6	2734.37	2662.71	-622.06	2734.41	346.85	-5.52	0.3
7,183	90.4	347.64	4630.68	2826.35	2752.53	-641.96	2826.4	346.87	-3.02	0.47
7,278	90.4	347.29	4630.02	2921.33	2845.26	-662.58	2921.39	346.89		0.37
7,373	90.57	347.01	4629.21	3016.32	2937.88	-683.7	3016.38	346.9	2.93	0.34
7,467	91.28	347.06	4627.7	3110.31	3029.47	-704.79	3110.37	346.9	4.61	0.76
7,560	91.89	347.16	4625.12	3203.27	3120.09	-725.53	3203.33	346.91	6.4	0.66
7,654	90.75	346.17	4622.96	3297.24	3211.53	-747.2	3297.31	346.9	7.47	1.61
7,746	88.29	344.92	4623.73	3389.21	3300.6	-770.16	3389.27	346.87	6.73	3
7,839	88.55	344.58	4626.29	3482.13	3390.29	-794.62	3482.13	346.81	4.68	0.46
7,930	89.34	344.64	4627.97	3573.07	3478.02	-818.76	3573.09	346.75	2.46	0.87
8,023	89.69	344.41	4628.76	3666	3567.64	-843.58	3666.02	346.7	0.05	0.45
8,115	90.22	344.61	4628.83	3757.95	3656.3	868.15	3757.95	346.64	-2.65	0.62
8,208	88.55	344.74	4629.83	3850.89	3745.98	-892.372	3850.89	346.6	-4.53	1.8
8,302	88.72	344.72	4632.06	3944.81	3836.64	-917.47	3944.81	346.55	-6.63	0.18
8,395	89.16	344.65	4633.79	4037.75	3923.32	-942.03	4037.75	346.51	-5	



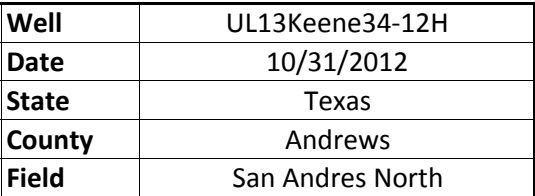
COMPLETION REPORT

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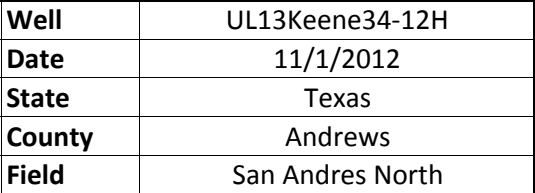
COMPLETION REPORT

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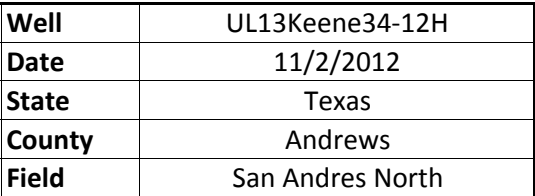
COMPLETION REPORT

WELL DATA			CONTRACTOR			COMPLETION COST			
PBTD	9265		Company			AFE No.	O 12023		
TVD	4643		Rig No.			AFE Amount			
Casing	5 1/2 17#		Pusher			Daily Cost			
Tubing			Phone #	512-262-8732		Total Cost			
Wellhead	5.125" 10K		Fe Rep.	Jack Parrott		Report #	9		
From	To	Hours	TIME SUMMARY						
6:30	7:00	0.50	PJSM						
7:00	10:30	3.50	Pump Stage #1						
10:30	11:30	1.00	R/U Wireline						
11:00	13:45	2.75	Wait on Parts to Fix Wireline Computer and Fix the Computer						
13:45	16:00	2.25	RIH W/ Plug and Perf. Assy and Pump Down at 14 BPM W/ 1465						
			PSI, Spot CBP at 8883' and Finish Spotting Acid at 8 BPM, 1264 PSI, Set CBP at 8883'						
			Pressure up to 4500 PSI and Hold, P/U and Fire Gun #1 at 8833', P/U and Spot Gun #2						
			at 8833',Inject 6 BBL acid,fire Gun #2 at 8729', P/U and Fire Gun #3 at 8624', P/U						
			and Fire Gun #4 at 8519' and POOH W/ Spent Plug and Perf Assy						
16:00	16:15	0.25	Break Off Lubricator and L/D Tools						
16:15	18:00	1.75	Pump Stage #2						
18:00	19:45	1.75	R/U Wireline and RIH W/ Plug and Perf. Assy and Pump Down at 14 BPM W/ 2405						
			PSI, Spot CBP at 8460' and Finish Spotting Acid at 8 BPM, 2200 PSI, Set CBP at 8460'						
			Pressure up to 4500 PSI and Hold, P/U and Fire Gun #1 at 8415', P/U and Spot Gun #2						
			at 8310',Inject 6 BBL acid,fire Gun #2 at 8310', P/U and Fire Gun #3 at 8205', P/U						
			and Fire Gun #4 at 8100' and POOH W/ Spent Plug and Perf Assy						
20:00	20:15	0.25	L/D Tools and Lubricator and Secure Well and Shut Down for the Evening						
			Perforating Detail						
			3.125" O.D. Guns, 6 SPF, 60 Degree Phasing, 22.7 Gram Charge, .042 EHD						
			Gun#1 11 Shots, Gun #2 10 Shots, Gun #3 9 Shots, Gun #4 8 Shots						
			University Frac. Pit Level 11'						
			University Meter 303077 BBL, 3987 BPD,						
			Fisher Frac Pit Level 12'3", I Will Turn tap off Tomorrow						
			Fisher Meter 698012 BBL, 3694 BPD, 22 PSI						




COMPLETION REPORT

WELL DATA			CONTRACTOR			COMPLETION COST			
PBTD	9265		Company			AFE No.	O 12023		
TVD	4643		Rig No.			AFE Amount			
Casing	5 1/2 17#		Pusher			Daily Cost			
Tubing			Phone #	512-262-8732		Total Cost			
Wellhead	5.125" 10K		Fe Rep.	Jack Parrott		Report #	10		
From	To	Hours	TIME SUMMARY						
6:30	7:00	0.50	PJSM						
7:00	9:30	1.50	Pump Stage #3						
9:30	11:30		R/U Wireline and RIH W/ Plug and Perf. Assy and Pump Down at 14 BPM W/ 3050						
			PSI, Spot CBP at 8046' and Finish Spotting Acid at 8 BPM, 2400 PSI, Set CBP at 8046'						
			Pressure up to 4500 PSI and Hold, P/U and Fire Gun #1 at 7996', P/U and Spot Gun #2						
			at 7891',Inject 6 BBL acid,fire Gun #2 at 7891', P/U and Fire Gun #3 at 7783', P/U						
			and Fire Gun #4 at 7682' and POOH W/ Spent Plug and Perf Assy.						
11:30	13:15	1.75	Pump Stage #4						
13:15	15:15	2.00	R/U Wireline and RIH W/ Plug and Perf. Assy and Pump Down at 14 BPM W/ 2550						
			PSI, Spot CBP at 7627' and Finish Spotting Acid at 8 BPM, 2250 PSI, Set CBP at 7627'						
			Pressure up to 4500 PSI and Hold, P/U and Fire Gun #1 at 7577', P/U and Spot Gun #2						
			at 7465',Inject 6 BBL acid,fire Gun #2 at 7465', P/U and Fire Gun #3 at 7368', P/U						
			and Fire Gun #4 at 7263' and POOH W/ Spent Plug and Perf Assy.						
15:15	18:00	2.75	Pump Stage #5						
18:00			R/U Wireline and RIH W/ Plug and Perf. Assy and Pump Down at 14 BPM W/ 2550						
			PSI, Spot CBP at 7627' and Finish Spotting Acid at 8 BPM, 2250 PSI, Set CBP at 7627'						
			Pressure up to 4500 PSI and Hold, P/U and Fire Gun #1 at 7577', P/U and Spot Gun #2						
			at 7465',Inject 6 BBL acid,fire Gun #2 at 7465', P/U and Fire Gun #3 at 7368', P/U						
			and Fire Gun #4 at 7263' and POOH W/ Spent Plug and Perf Assy.						
			Perforating Detail						
			3.125" O.D. Guns, 6 SPF, 60 Degree Phasing, 22.7 Gram Charge, .042 EHD						
			Gun#1 11 Shots, Gun #2 10 Shots, Gun #3 9 Shots, Gun #4 8 Shots						
			University Frac. Pit Level 11'						
			University Meter 303077 BBL, 3987 BPD,						
			Fisher Frac Pit Level 12'3", I Will Turn tap off Tomorrow						
			Fisher Meter 698012 BBL, 3694 BPD, 22 PSI						



COMPLETION REPORT

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<div><div></div><div><div>Forge</div><div>energy</div></div></div>					Well	UL 13 Keene 34-12H			
					Date	11/3/2012			
					State	Texas			
					County	Andrews			
					Field	Shafter Lake N. (San Andres)			
COMPLETION REPORT									
WELL DATA			CONTRACTOR			COMPLETION COST			
PBTD	9265		Company			AFE No.	O 12023		
TVD	4643		Rig No.			AFE Amount			
Casing	5.5" 17.00# L-80		Pusher			Daily Cost	\$505,180		
Tubing			Phone #	512-262-8732		Total Cost	\$1,630,733		
Wellhead	5.125" 10K		Fe Rep.	Jack Parrott		Report #	13		
From	To	Hours	TIME SUMMARY						
7:00	7:30	0.50	PJSM						
7:30	9:45	2.25	Pump Stage #8						
9:45	10:45	1.00	R/U Wireline and Test Lubricator to 4500 PSI and RIH W/ Plug and Perf Assy and						
			Pumpdown at 14 BPM W/ 2850 PSI, Spot CBP at 5952' and Finish Spotting Acid at 8 BPM						
			W/ 2300 PSI, Set CBP at 5952', Pressure up to 4500 PSI and Hold, P/U and Fire Gun #1 at						
			5902', P/U and Spot Gun #2 at 5790', Inject 6 BBL Acid, Fire Gun #2 at 5790', P/U and						
			Fire Gun#3 at 5692', P/U and Fire Gun #4 at 5588', POOH W/ Spent Plug and Perf Assy.						
10:45	12:45	2.00	Pump Stage #9						
12:45	14:00	1.25	R/U Wireline and Test Lubricator to 4500 PSI and RIH W/ Plug and Perf Assy and						
			Pumpdown at 14 BPM W/ 2625 PSI, Spot CBP at 5533' and Finish Spotting Acid at 8 BPM						
			W/ 2400 PSI, Set CBP at 5533', Pressure up to 4500 PSI and Hold, P/U and Fire Gun #1 at						
			5484', P/U and Spot Gun #2 at 5378', Inject 6 BBL Acid, Fire Gun #2 at 5378', P/U and						
			Fire Gun#3 at 5274', P/U and Fire Gun #4 at 5169', POOH W/ Spent Plug and Perf Assy.						
14:00	16:00	2.00	Pump Stage #10						
16:00	17:00	1.00	R/U Wireline and Test Lubricator to 4500 PSI and RIH W/ Plug and Perf Assy and						
			Pumpdown at 14 BPM W/ 2600 PSI, Spot CBP at 5106' and Finish Spotting Acid at 8 BPM						
			W/ 2425 PSI, Set CBP at 5106', Pressure up to 4500 PSI and Hold, P/U and Fire Gun #1 at						
			5063', P/U and Spot Gun #2 at 4959', Inject 6 BBL Acid, Fire Gun #2 at 4959', P/U and						
			Fire Gun#3 at 4855', P/U and Fire Gun #4 at 4756', POOH W/ Spent Plug and Perf Assy.						
17:00	19:00	2.00	Pump Stage #11						
19:15			Secure Well and Shut down for the Evening						
			Perforating Detail						
			3.125" O.D. Guns, 6 SPF, 60 Degree Phasing, 22.7 Gram Charge, .042 EHD						
			Gun#1 11 Shots, Gun #2 10 Shots, Gun #3 9 Shots, Gun #4 8 Shots						
			University Frac. Pit Level						
			Fisher Frac Pit Level 12'6" Water Is Off						
SAFETY TOPIC		PERSONNEL		MAN-HOURS		BOP TEST		WELL INFO	
		Contractor	0	Contractor	0	Size		EOT	
INCIDENTS		Third Party	33	Third Party	0	Pressure		Packer	
First Aid	0	Fe Rep.	2	Fe Rep.	0	Test Date		SICP	
MTC	0	Total	35	Total	0			SITP	
Lost Time	0								

