DAILY DRILLING REPORT

UTAH FORGE U.S. Department of Energy

RPT DATE: 12/12/2020
RPT NUM.: 54
RIG: Frontier Rig 16

WELL/JOB INFORMATION

WELL NAME:	FORGE 16A [78]-32	JOB:	Drilling 65° Tangent	RIG SUPERV:	Duane W, Leroy S
FIELD:		LEASE:		RIG PHONE:	281-854-6858
AFE #:		API #:		EMAIL:	
CONTRACTOR:	Frontier Drilling	ELEVATION:	5415.1	RKB:	
SPUD DATE:	10/30/2020	DFS:	43	DOL:	53
MD:	8535	24 HR FTG:		HRS DRLG:	

PRESENT OPERATIONS: TRIP OUT OF HOLE WITH WIRE
ACTIVITY PLANNED: TRIP IN HOLE DIRECTIONAL ASSEMBLY DRILL TANGENT

BOP

LAST BOP TEST:	11/14/20	LAST BOP DRILL:	11/29/20	NEXT BOP TEST:	12/14/20

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Conductor	20.00	54	A53B	130	130
Surface	13.38	68	L-80	1,629	1,629
Intermediate	9.63	40	HCL-80	5,110	5,109

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
19:00	9.0	41.0	10.0	11.0	1	8	10	13	15	10	1,500		2.40	4.20			3.60	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
33	8.75	Reed Hycalog	PDC	A275803			N	8,535	8,535					
32	8.75	REED HYCALOG	PDC	A230682	3x14, 3x13	0.840	N	8,241	8,535	294	6.0	50	156	49.0

BIT NO. 23 INNER: 0 OUTER: 1 DULL: WC LOC: S SEAL: GAUGE: Y OTHER: DULL CUT RP: TD

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	BOMCO	1600	6.000	12.000	79	4000	325	4.19	95	9.57	308	475	130.1	
2	BOMCO	1600	6.000	12.000	79	4000	325	4.19	95					

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit	8.75		0.85					
2	Sub-BIT SUB WITH FLOAT	6.5	3	2.82					
3	Drill Pipe-15 STDS HVY WT DP	5		1384.33					

DESCRIPTION: COOL OF BHA

LENGTH:	1,388.00	BHA WT. AIR:		BHA WT. MUD:		HRS. ON JARS:	
ROT. WT.:	228,000	P.U. WT.:	245,000	S.O. WT.:	177,000	TORQUE:	

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	COORDINATES N/S	COORDINATES E/W	V. SECTION	DLS
8,381	66.19	108.41	7,508	-473.5	1,625.3	1,692.5	1.4
8,391	66.18	108.25	7,512	-476.4	1,634.0	1,701.6	1.5
8,401	66.17	108.09	7,516	-479.2	1,642.7	1,710.7	1.5
8,406	66.17	108.01	7,518	-480.7	1,647.1	1,715.4	1.4

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel			10,836
Potable Water			900

TIME BREAKDOWN

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
06:00	09:30	3.5	Production Drilling	Trips		Trip out of the hole with cool down BHA # 37
09:30	11:00	1.5	Production Drilling	Wire Line Logs		Rig up Schlumberger wire line to run UBI log
11:00	19:00	8.0	Production Drilling	Wire Line Logs		Schlumberger run UBI log
19:00	20:30	1.5	Production Drilling	Trips		Trip in hole with cool down BHA #37 to cool hole for acoustic shot
20:30	01:00	4.5	Production Drilling	Cond Mud & Circ		Circulate to cool hole for wireline acoustic shot
01:00	04:30	3.5	Production Drilling	Trips		Pump dry job, blow down Kelly hose Trip out of hole with cool down BHA #37
04:30	06:00	1.5	Production Drilling			Rig up Schlumberger to run acoustic shot Run in hole to MD 8,085', TVD 7,385.8, AZM 109.4, INC 63.7 12/12/2020, shot 1300 grains, time 5:36:25 Pull out of hole with guns
	TOTAL HRS	24.0				