DAILY DRILLING REPORT

UTAH FORGE U.S. Department of Energy

RPT DATE: 12/31/2020
RPT NUM.: 73
RIG: Frontier Rig 16

WELL/JOB INFORMATION

WELL NAME:	FORGE 16A [78]-32	JOB:	Drilling 65° Tangent	RIG SUPERV:	Leroy S, , Paul S, Bob F, Duane W
FIELD:		LEASE:		RIG PHONE:	281-854-6858
AFE #:		API #:		EMAIL:	
CONTRACTOR:	Frontier Drilling	ELEVATION:	5415.1	RKB:	
SPUD DATE:	10/30/2020	DFS:	62	DOL:	72
MD:	10987	24 HR FTG:		HRS DRLG:	

PRESENT OPERATIONS: RUNNING 7" LINER
ACTIVITY PLANNED: RUN LINER, PICK UP HANGER, TRIP IN HOLE , COOL WELL, SET HANGER, CEMENT WELL

BOP

LAST BOP TEST:	12/16/20	LAST BOP DRILL:	12/16/20	NEXT BOP TEST:	1/15/21

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
17:00	8.9	40.0	11.0	10.0	1	8	10	11	15	10	1,400		1.51	3.60	40		2.70	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
48	8.75	Schlumberger	PDC Logging				N	10,987	10,987					
47	8.75	Ulterra	CF613 PDC	45992	3x14, 3x13	0.840	Y	10,987	10,987		8.0			

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					95					
2	BOMCO	1600	6.000	12.000	75	2660	325	5.4	95	9.64	308	475	130.1	

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-Schlumberger Logging	8.75		1.5					
2	Sub-Bit Sub with Float	6.5	3.13	5.2					

DESCRIPTION: Logging BHA # 53
LENGTH: 6.70 BHA WT. AIR: BHA WT. MUD: HRS. ON JARS:
ROT. WT.: P.U. WT.: S.O. WT.: TORQUE:

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES E/W	V. SECTION	DLS
10,316	63.32	108.30	8,310	-904.3	3,329.4	3,450.0	1.0
10,411	64.68	105.97	8,351	-929.4	3,411.0	3,535.3	2.6
10,505	64.86	105.02	8,392	-952.1	3,492.9	3,620.3	0.9
10,604	68.46	103.44	8,431	-974.4	3,581.0	3,711.2	3.9

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel	7,483	4,180	11,491
Potable Water			2,800

TIME BREAKDOWN

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
06:00	07:00	1.0	Production Drilling	Trips		Wash from 10,637' to 10,760' Tag top of sand at 10,760' Wash out sand to 10,787' (casing point)
07:00	09:00	2.0	Production Drilling	Cond Mud & Circ		Pump 50 viscosity, 40 bbl sweep to clean excess sand out of hole. Circulate out.
09:00	10:00	1.0	Production Drilling	Cond Mud & Circ		Pump 250 bbl pill with 5% ProOne Lube. Spot in tangent with 190 bbl mud.
10:00	12:30	2.5	Production Drilling	Trips		Trip out of hole laying down 5" drill pipe from 10,787' to 7,300'.
12:30	13:00	0.5	Production Drilling	Cond Mud & Circ		Circulate 60 viscosity, 40 bbl sweep to clean sand from curve. Circulate out of hole.
13:00	20:30	7.5	Production Drilling	Trips		Trip out of hole laying down 5" drill pipe from 7,300' to Surface
20:30	21:00	0.5	Production Drilling	Trips		Pull wear bushing, break off puller from drill pipe
21:00	23:00	2.0	Production Drilling	Run Csg & Cement		Rig up casing equipment, change out bales and add bale extensions Install Casing Running, rig up power tongs
23:00	06:00	7.0	Production Drilling	Run Csg & Cement		Make up shoe track, test floats by pumping through, run 96 jts of 7", 38#, T95, JFE Lion Threads to 4,400'
	TOTAL HRS	24.0				