UTAH FORGE U.S. Department of Energy

DAILY DRILLING REPORT

RPT DATE: 01/01/2021
RPT NUM.: 74
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:	63	DOL:	73
MD:	10987	24 HR FTG:		HRS DRLG:	

PRESENT OPERATIONS: RIGGING UP WYOMING CASING

ACTIVITY PLANNED: BREAK OFF HANGER ASSEMBLY AND CHECK FOR SETTING BALL. CONTINUE RUNNING CASING TO 10,787'.

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
Production					

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
4:30	9.0	40.0	11.0	10.0	1	8	10	13	18	7	1,400		1.50	3.60			3.60	

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	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

(N/S and E/W under COORDINATES)

CONSUMABLES

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

TIME BREAKDOWN

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
06:00	07:30	1.5	Production Casing	Run Csg & Cement		Run 126 joints of 7' x 38 ppf, T95 JFELION casing To depth of 5,936'. Rotate casing 10 rpm, torque 6K
07:30	08:30	1.0	Production Casing	Run Csg & Cement		Rig down CRT and casing equipment Pick Up/Slack Off 220K
08:30	09:30	1.0	Production Casing	Run Csg & Cement		Pick up hanger and run in hole Remove casing tongs off rig floor Make up crossover on top drive
09:30	15:30	6.0	Production Casing	Run Csg & Cement		Trip in hole with liner on 5" drill pipe from 5,936' to 9,018' Down weight 220K. Pump through floats. Install rotating head Run liner on drill pipe, picking up and drifting pipe from 9,018' to 10, 770'
15:30	20:00	4.5	Production Casing	Cond Mud & Circ		Circulate to cool hole for cementing
20:00	22:00	2.0	Production Casing	Run Csg & Cement		Break connection and drop ball to set hanger slips Pump down, seat ball and pressure up. Slips did not set hydraulically. Worked pipe to set slips at various positions. Attempted to mechanically set slip. Would not set.
22:00	04:00	6.0	Production Casing	Trips		Trip out of hole with liner to hanger, laying down 5" drill pipe
04:00	05:00	1.0	Production Casing	Cut off Drill Line		Cut and slip drilling line
05:00	06:00	1.0	Production Casing	Run Csg & Cement		Rig up Wyoming Casing
	TOTAL HRS	24.0				