DAILY DRILLING REPORT

UTAH FORGE U.S. Department of Energy

RPT DATE: 11/25/2020
RPT NUM.: 37
RIG: Frontier Rig 16

WELL/JOB INFORMATION

WELL NAME:	FORGE 16A [78]-32	JOB:	Drilling 65° Tangent	RIG SUPERV:	Duane W, Leroy S, Paul S, Bob F
FIELD:		LEASE:		RIG PHONE:	281-854-6858
AFE #:		API #:		EMAIL:	
CONTRACTOR:	Frontier Drilling	ELEVATION:	5415.1	RKB:	
SPUD DATE:	10/30/2020	DFS:	26	DOL:	36
MD/TVD:	6360	24 HR FTG:	344	HRS DRLG:	12.5

PRESENT OPERATIONS: RIG UP SCHLUMBERGER PREPARE TO RUN LOGS

ACTIVITY PLANNED: RUN UBI LOG, PICK UP BHA # 2, DRILL 8 3/4" Curve

BOP

LAST BOP TEST:	12/14/20	LAST BOP DRILL:	11/6/20	NEXT BOP TEST:	11/14/20

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	5,113	5,112

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
19:00	8.9	41.0	10.4	10.5	1	3	4	7	20	10	1,500		0.80	2.40	40		2.50	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
19	8.75	Reed	TKC 63	A255857	3x14, 3x13	0.840	Y	5,268	5,268		1.0		0	
18	8.75	Reed Hycalog	PDC	A255857	3x14, 3x13	0.840	N	5,892	6,360	468	12.5	44,000	136	37.4

BIT NO. 16 INNER: 2 OUTER: 1 DULL: CT LOC: N SEAL: GAUGE: I OTHER: RP: TD

PUMPS

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
2	BOMCO	1600	6.000	12.000	70	2960	275		95	9.48	308	445	52.1	
3	BOMCO	1600	6.000	12.000	70	2960	400		95	9.48	308	445	52.1	

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-Reed Hycalog	8.75		1					
2	Sub-Bit Sub 4 1/2 Reg X 4 1/2 IF	6.5	3	2.82					
3	Drill Pipe-Hvy Wt	5	3.25	1380					

DESCRIPTION: Circulation BHA

LENGTH:	1,383.82	BHA WT. AIR:	72,000	BHA WT. MUD:	62,000	HRS. ON JARS:	
ROT. WT.:	225,000	P.U. WT.:	230,000	S.O. WT.:	220,000	TORQUE:	4,200

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	E/W	V. SECTION	DLS
6,181	16.98	104.30	6,174	-12.7	73.3	74.1	7.9
6,213	17.95	107.06	6,204	-15.3	82.6	83.7	4.0
6,245	18.30	105.48	6,235	-18.1	92.1	93.7	1.9
6,276	18.17	106.17	6,264	-20.8	101.5	103.4	0.8

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		2,750	10,889
Potable Water			1,000

TIME BREAKDOWN

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
06:00	18:30	12.5	Production Drilling	Drilling		PJSM, pre job safety meeting. Building curve from 6,016' to 6,360'. 45K wob, 51 rpm rotary, 558 gpm, 3,000 psi, 134 psi differential, (344'), 27.5 FHP Drilling MWD temperature 185° F, good temperature for motor fit Last survey at 6,276' MD, 6,264' TVD, 18.16° Inc., 106.22° Azi., 59.4' high, 6.9' left, 125.05' VS
18:30	20:30	2.0	Production Drilling	Cond Mud & Circ		Circulate to cool hole and tools, surface circulation temperature 164° F,
20:30	21:30	1.0	Production Drilling	Trips		Trip out of hole with BHA #18. Stop at 5,800' and circulate to cool hole and tools.
21:30	00:30	3.0	Production Drilling	Trips		Trip out of hole and Lay down directional tools.
00:30	02:30	2.0	Production Drilling	Trips		Cool down BHA, rerun Reed Hycalog TKC 63 C7 8 3/4" bit, bit sub with float , drill pipe and trip in hole to 5200'
02:30	03:30	1.0	Production Drilling	Cond Mud & Circ		Cool hole in preparation to run logs , surface circulating temperature to 120° F,
03:30	06:00	2.5	Production Drilling	Trips		Trip out of hole with cool down BHA
	TOTAL HRS	24.0				