DAILY DRILLING REPORT

UTAH FORGE U.S. Department of Energy

RPT DATE: 11/04/2020
RPT NUM.: 16
RIG: Frontier Rig 16

WELL/JOB INFORMATION

WELL NAME:	FORGE 16A [78]-32	JOB:	Drilling 65° Tangent	RIG SUPERV:	Leroy Swearingen , Bob Frank
FIELD:		LEASE:		RIG PHONE:	281-854-6858
AFE #:		API #:		EMAIL:	
CONTRACTOR:	Frontier Drilling	ELEVATION:	5415.1	RKB:	
SPUD DATE:	10/30/2020	DFS:	5	DOL:	15
MD/TVD:	1629	24 HR FTG:		HRS DRLG:	3

PRESENT OPERATIONS: Change BHA to drill float equipment

ACTIVITY PLANNED: Drill shoe track , Trip out of hole, Pick up Rotary Steerable BHA

BOP

LAST BOP TEST:	12/2/20	LAST BOP DRILL:		NEXT BOP TEST:	11/3/20

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

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
17:00	8.7	30.0	20.0	7.5	2	5	10	14	4	4	700		0.10	0.20	20			

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
2	9.63	NOV	PDC	A275580	6x16	0.902	N	0						
1	17.50	NOV	PDC	A275580	8x15	1.726	N	0	1,629	1,629	9.0	25	80	181.0

BIT NO. INNER: OUTER: DULL: LOC: SEAL: GAUGE: OTHER: RP:

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	70	1100	325		95					
2	BOMCO	1600	6.000	12.000	70	1100	335		95					

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-PDC Bit	12.25		2	7	Monel Collar	8.25	3.25	29.52
2	Steerable Assembly-VERTICAL SCOUT	9.63		22.79	8	Sub-HANG OFF SUB	8.25	3.25	5.09
3	X-Over-PIN TO PIN	8.06	2.75	2.19	9	Drill Collar-4 STDS DC	8	2.88	366.49
4	Motor-7/8, 5.9 STG, 0.155 RPG ,STRAIGHT	9.63		41.11	10	X-Over-6 5/8 REG PIN X 4 1/2 IF BOX	8	2.75	2.8
5	Shock Sub-SHOCK SUB	8.38	2.75	13.52	11	Drill Pipe-5" hvy wt dp	5	3	276.35
6	Stabilizer	8.06	2.75	4.97	12	Drill Pipe-5" DP	5	4.28	862.17

DESCRIPTION: Intermediate 1

LENGTH: 1,629.00 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
1,325	1.58	166.01	1,325	-14.4	-2.0	1.8	0.4
1,420	1.10	155.91	1,420	-16.5	-1.3	3.0	0.6
1,514	0.75	126.20	1,514	-17.7	-0.5	4.1	0.6
1,523	0.66	124.35	1,523	-17.8	-0.4	4.2	1.0

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		929	11,296
Potable Water			13,200

TIME BREAKDOWN

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
06:00	09:00	3.0	Intermediate Drilling	Other		PJSM (pre job safety meeting) with FORGE DSM's and Frontier Drilling. Move and sort drill pipe for drilling operations General housekeeping pick up tools and empty trash containers
09:00	16:00	7.0	Intermediate Casing	Test B.O.P.		Rig up A-1 Testing and begin BOPE testing at 09:00. Test blinds to 250 psi low, 5,000 psi high. Test pipe rams to 250 psi low, 5,000 psi high. Test choke manifold, choke lines and all valves to 250 psi low, 5,000 psi high. Test mud lines back to pumps to 80% of liner rating of 3,600 psi. Test casing to 1,500 psi. All tests were good. Meet with Jim Goddard, Division of Water Rights, State of Utah at 10:00. Tour rig and pad, Witness BOPE testing in progress Review required information by state including casing report, cement report and BOPE charts and reports.
16:00	17:00	1.0	Intermediate Casing	Test B.O.P.		Nabors installing a K Box Light (Control Center for Nabors Rig Watch), Install wear bushing. Perform function test on accumulator as per procedures.
17:00	18:00	1.0	Intermediate Casing	Cut off Drill Line		Safety Meeting Slip and Cut Drill Line Set top drive in shipping position, chain off blocks to derrick. Prepare to slip and cut drilling line. Nabors continue to work on K Box Light.
18:00	23:00	5.0	Intermediate Casing	Dir Work		PJSM (pre job safety meeting) with FORGE DSM's and Frontier Drilling. Pick up Intermediate Directional Tools BHA # 2, with 12 1/4" PDC bit
23:00	00:30	1.5	Intermediate Casing	Trips		Trip in Hole with VRRS , tag cement
00:30	03:30	3.0	Intermediate Casing	Drilling		Drill cement and Float Collar, stop drilling , prepare to pull out of hole
03:30	06:00	2.5	Intermediate Casing	Trips		Trip out of hole ,(TOOH) VRSS, bit no issues Conclusion probable rubber inference Plan Forward trip in hole with mill tooth bit drill up float equipment
	TOTAL HRS	24.0				