UTAH FORGE U.S. Department of Energy

DAILY DRILLING REPORT

RPT DATE: 11/14/2020
RPT NUM.: 26
RIG: Frontier Rig 16

WELL/JOB INFORMATION

WELL NAME: FORGE 16A [78]-32
JOB: Drilling 65° Tangent
RIG SUPERV: Duane Winkler, Leroy Swearingen, Virgi
FIELD:
LEASE:
RIG PHONE: 281-854-6858
AFE #:
API #:
EMAIL:
CONTRACTOR: Frontier Drilling
ELEVATION: 5415.1
RKB:
SPUD DATE: 10/30/2020
DFS: 15
DOL: 25
MD/TVD: 5113
24 HR FTG:
HRS DRLG:
PRESENT OPERATIONS: TEST BOPE AND CASING.
ACTIVITY PLANNED: TEST BOPE. PICK UP BHA, DRILL SHOE TRACK AND 10' OF NEW FORMATION. PERFORM FIT. TOOH FOR LOGS.

BOP

LAST BOP TEST: 11/14/20 | LAST BOP DRILL: 11/6/20 | 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
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
12:00	9.0	54.0	8.4	10.8	1	9	16	27	17	22	800		0.20	0.90	80		2.70	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
7	12.25	SLB SMITH RR	Z713S	JD4755	4x20, 2x18, 1x16	1.940	Y	5,113	5,113				0	
6	12.25	SLB Smith	Z713S	JP4755	4x20, 2x18, 1x16	1.920	N	4,964	5,113	149	14.5	48	124	10.3

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
2	BOMCO	1600	6.000	12.000	95	2800	400		95	9.26	138.6	445	52.1	
3	BOMCO	1600	6.000	12.000	95	2800	400		95	9.26	138.6	445	52.1	

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-RR Bit	12.25		2					
2	Sub-BIT SUB WITH FLOAT & CROWS FOOT	8	2.25	3.23					
3	Drill Collar-1 STD 8" DC	8	2.88	92					
4	X-Over-6 5/8 REG PIN X 4 1/2" IF BOX	8	2.75	2.8					
5	Drill Pipe-3 STD HVY WT DP	5	3	276.35					
6	Drill Pipe-5" DP 19.5#	5	4.28	1252.62					

DESCRIPTION: BHA 7 Gyro BHA
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	E/W	V. SECTION	DLS
4,637	1.45	334.41	4,636	-2.3	10.4	10.7	1.2
4,732	1.23	267.79	4,731	-1.3	8.9	8.9	1.6
4,826	1.14	219.54	4,825	-2.0	7.3	7.6	1.0
4,920	1.27	159.42	4,919	-3.7	7.1	7.8	1.3

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		2,086	17,099
Potable Water			3,200

TIME BREAKDOWN

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
06:00	11:30	5.5	Intermediate Casing	Other		Pre-tour safety meeting with FORGE representatives and Frontier Drilling personnel. Weld on 11" X 5K wellhead as per recommended procedure. Pressure test wellhead.
11:30	16:00	4.5	Intermediate Casing	Nipple Up B.O.P.		Nipple up BOP stack. Make up choke and kill lines to choke manifold. Change out blind rams.
16:00	18:00	2.0	Intermediate Casing	Other		Install turnbuckles on BOP stack. Rig down casing bails and elevators. Remove from floor. Rig up drill pipe elevators. Clean floor.
18:00	22:30	4.5	Intermediate Casing	Other		Pre-tour safety meeting with FORGE representatives and Frontier Drilling personnel. Remove flare line and flare stack. Set pipe racks for catwalk. Lay out 21 - 6 1/2" drill collars, OD, ID and strap.
22:30	00:30	2.0	Intermediate Casing	Other		Pick up 6 stands (18) 6 1/2" drill collars and stand in derrick.
00:30	04:30	4.0	Intermediate Casing	Other		Repair cable on catwalk. Tie up service loop on top drive due to high winds. Bring wear bushing, test plug and joint of drill pipe to floor for BOPE testing. Clean up rig floor and substructure.
04:30	06:00	1.5	Intermediate Casing	Test B.O.P.		A-1 Testers on location. Rig up and begin testing BOPE and casing. Currently at 5,113' MD (intermediate casing shoe depth). Last survey at 4,920' MD, 4,919' TVD, 1.27° inc., 159.42° azi., 7.77' VS.
	TOTAL HRS	**24.0**				