DAILY DRILLING REPORT

RPT DATE: 11/12/2020
RPT NUM.: 24
RIG: Frontier Rig 16

WELL/JOB INFORMATION

WELL NAME:	FORGE 16A [78]-32	JOB:	Drilling 65° Tangent	RIG SUPERV:	Bob Frank, Duane Winkler, Virgil Welch
FIELD:		LEASE:		RIG PHONE:	281-854-6858
AFE #:		API #:		EMAIL:	
CONTRACTOR:	Frontier Drilling	ELEVATION:	5415.1	RKB:	
SPUD DATE:	10/30/2020	DFS:	13	DOL:	23
MD/TVD:	5113	24 HR FTG:	71	HRS DRLG:	

PRESENT OPERATIONS: Circulating, rig down casing running equipment

ACTIVITY PLANNED: Circulate, RU cementers, Cement well, Drain stack, wash out BOP. Rig down flow line in preparation of installing well head.

BOP

LAST BOP TEST:	11/23/20	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
16:00	8.9	55.0	8.4	11.0	1	11	20	30	18	26	800		0.30	0.90	80		2.00	

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	COORDINATES 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		17,273	20,109
Potable Water		10,000	3,200

TIME BREAKDOWN

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
06:00	10:30	4.5	Intermediate Drilling	Other	Equipment Failure	Frontier complete the installation of pump #2 module
10:30	14:00	3.5	Intermediate Drilling	Trips		Trip in hole to bottom 5,113', no issue or fill Circulate two bottom up Mud Weight 8.9, viscosity 55
14:00	15:00	1.0	Intermediate Drilling	Other		Pick up off bottom, unscrew top drive Pick up gyro tool, set clocks, drop Gyro
15:00	20:00	5.0	Intermediate Drilling	Trips		While trip out of hole measure angle and azimuth Lay out survey tools, break out bit, lay Down Collars
20:00	20:30	0.5	Intermediate Casing	Run Csg & Cement		Clean floor prior to running casing
20:30	21:30	1.0	Intermediate Casing	Run Csg & Cement		PJSM, pre job safety meeting, Wyoming Casing , DSM and Frontier Driller, Welder. Pick up casing running tools to rig floor RU Casing Running tools: Bale extensions, elevators, spider, tongs bring up casing centralizer's, and float equipment
21:30	06:00	8.5	Intermediate Casing	Run Csg & Cement		Weld float shoe to casing , baker lock and tack weld each shoe track joint and float collar. Run 4 joints of 9 5/8" 40#, HCL-80, BTC casing. pump through floats Run total of 118 jts 9 5/8", 40#, HCL-80, BTC casing to 5,113.' fill casing while running in hole Two joints of casing off bottom establish circulation Precautionary wash the last 2 jts of casing to bottom. Tag bottom at 5,113' Circulate at 5 bpm, SPP 310 psi, no issues
	TOTAL HRS	24.0				