DAILY DRILLING REPORT

RPT DATE: 10/31/2020
RPT NUM.: 12
RIG: Frontier Rig 16

WELL/JOB INFORMATION

WELL NAME:	FORGE 16A [78]-32	JOB:	Drilling 65° Tangent	RIG SUPERV:	Leroy Swearingen , Bob Frank, 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:	1	DOL:	11
MD/TVD:	1629	24 HR FTG:	1629	HRS DRLG:	17.5

PRESENT OPERATIONS: Short trip: Trip out of the hole

ACTIVITY PLANNED: Trip back to bottom, Circulate, Trip out of hole, RU Casers, Run 13 3/8" Casing , Cement,

BOP

LAST BOP TEST: LAST BOP DRILL: NEXT BOP TEST:

CASING

CASING TYPE	OD	WEIGHT	GRADE	MD	TVD
Surface	13.38	68	L-80	1,600	1,600
Conductor	20.00	54	A53B	130	130

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)	PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
2:00	8.9	55.0	10.0													

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
1	17.50	NOV	PDC	A275580	8x15	1.726	N	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	80	1245	335		95					
2	BOMCO	1600	6.000	12.000	80	1245	335		95					

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-17 1/2" PDC	17.5		2	7	Monel Collar-NMDC	8.25	3.14	29.52
2	Steerable Assembly-Vertical Scout	14		21.11	8	Sub-Hang OFF SUB	8.5	3.25	5.89
3	X-Over-Pin X Pin	9.5	3	2.15	9	Drill Collar-8" Drill Collar	8	2.88	366.49
4	Motor-TDI Motor 7/8 5.9 Stg, 0.155 RPG	9.63		41.08	10	X-Over-6 5/8" REG X 4 1/2" IF	8	2.75	2.8
5	Shock Sub-NOV Shock Sub	8.38	2.75	13.52	11	Drill Pipe-HVY WT DP	5	3	276.35
6	Stabilizer-Spiral Stabilizer	17.3	2.88	7.96					

DESCRIPTION: Surface BHA

LENGTH: 768.87 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		421	14,771
Potable Water			13,200

TIME BREAKDOWN

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
06:00	06:30	0.5	Surface Drilling	Other		Safety meeting with Frontier Superintendent, Rig Manager, Driller , six rig crew members , Scout down hole and solids control Topic working around over head equipment, Proper Personal Protection working with chemicals and trip hazards
06:30	07:00	0.5	Surface Drilling	Other		Crew change new crew prepare to start drilling
07:00	08:30	1.5	Surface Drilling	Drilling		Establish circulation, Start Drilling Spud Well @ 7:15 am Drilling 17 1/2" hole from 103' to 182' Circulate, Install MWD
08:30	12:00	3.5	Surface Drilling	Drilling		Drilling 17 1/2" hole from 182' to 455' , Mud Weight 8.6, Viscosity 52, Survey at 349', AZM 287.22, INC 0.22
12:00	14:00	2.0	Surface Drilling	Other		Nabors service tech arrived on location and work on Rig Watch
14:00	16:30	2.5	Surface Drilling	Drilling		Drilling 17 1/2" hole from 455' to 862' , Mud Weight 8.7, Viscosity 55, Survey at 665', AZM 197.92, INC 0.40
16:30	17:30	1.0	Surface Drilling	Rig Service		Replace grabber dies on top drive, Service Rig
17:30	18:00	0.5	Surface Drilling	Drilling		Drilling 17 1/2" hole from 862' to 941' , Mud Weight 8.7, Viscosity 55, Survey at 851' , AZM 187.02, INC 0.88
18:00	22:00	4.0	Surface Drilling	Drilling		Pre Tour Safety Meeting , Contact State Engineer giving notice of Surface casing run . Drill 17 1/2" hole 941' to 1,241', Mud weight 8.7, VIS 60, Survey at 1137', AMZ 177, Inc 1.80
22:00	23:00	1.0	Surface Drilling	Other		When to unscrew the drill pipe to make a connection the top drive could not break out the connection used the break out tongs, to disconnect the top drive.
23:00	04:30	5.5	Surface Drilling	Drilling		Drill 17 1/2" hole 1,241' to 1,629' Mud weight 8.7, VIS 70, Survey at 1,523' AMZ 124, Inc 0.66
04:30	05:30	1.0	Surface Drilling	Cond Mud & Circ		Circulate two bottoms up hole clean, prepare to trip out of hole
05:30	06:00	0.5	Surface Drilling	Trips		Short trip: Start pulling out of the hole with drill pipe
	TOTAL HRS	24.0				