RPT DATE: 11/22/2020
RPT NUM.: 34
RIG: Frontier Rig 16

DAILY DRILLING REPORT

WELL/JOB INFORMATION

WELL NAME: FORGE 16A [78]-32	JOB: Drilling 65° Tangent	RIG SUPERV: Duane Winkler, Leroy Swearingen, Paul
FIELD:	LEASE:	RIG PHONE: 281-854-6858
AFE #:	API #:	EMAIL:
CONTRACTOR: Frontier Drilling	ELEVATION: 5415.1	RKB:
SPUD DATE: 10/30/2020	DFS: 23	DOL: 33
MD/TVD: 5855	24 HR FTG: 62	HRS DRLG: 10

PRESENT OPERATIONS: CORING

ACTIVITY PLANNED: CORING. TRIP OUT OF HOLE WITH CORE ASSEMBLY

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
23:00	8.9	41.0	3.6	10.0	1	4	5	10	23	7	1,200		1.10	0.60			3.60	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
14	8.75	NOV	PDC	A271699	6x14	0.900	N	5,505	5,846	341	41.5	30	93	8.2
13	8.75	Smith	PDC	JV2705	4x12, 4x11	0.910	Y	5,501	5,501					

BIT NO. 14 INNER: 8 OUTER: 2 DULL: CR LOC: C SEAL: 1 GAUGE: 1 OTHER: DBR RP: Low ROP

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-9 blade core bit	8.75	4	1.3					
2	Slick Joint-Core Barrel	7	5.75	96.98					
3	Jar-Jars	6.5	2.88	9.86					
4	Drill Collar-Drill Collars	6.5		644.15					
5	Drill Pipe-HWDP	5		276.35					

DESCRIPTION: Third Core Run

LENGTH: 1,028.64	BHA WT. AIR: 179,000	BHA WT. MUD: 118,000	HRS. ON JARS:
ROT. WT.: 165,000	P.U. WT.: 180,000	S.O. WT.: 165,000	TORQUE: 4,500

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S COORDINATES	E/W	V. SECTION	DLS
5,480	0.79	6.67	5,479	-4.2	11.2	11.9	0.8
5,574	0.70	145.54	5,573	-4.0	11.6	12.2	1.5
5,669	1.71	119.26	5,668	-5.2	13.2	14.1	1.2
5,764	1.89	109.68	5,763	-6.4	15.9	17.0	0.4

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		2,443	9,204
Potable Water			1,000

TIME BREAKDOWN

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
06:00	16:00	10.0	Production Drilling	Drilling		PJSM, pre job safety meeting Drill ahead from 5,793' to 5,846' with BHA #14 , (53') @ 5.3 FPH Take survey check shot at 5,800'. 1.89° Inc Made connection at 5,846'. After connection ROP dropped to 1.6 fph. Decided to trip out of hole to core. 30K WOB, 35 rpm rotary, 145 psi differential, SPP 2,770 psi, 602 gpm, 3,900 - 4,100 torque
16:00	19:00	3.0	Production Drilling	Trips		Build dry job and TOOH for slow P-rate with BHA #14. Inspect hard banding, HWDP and drill collars while tripping out no issues Last survey at 5764', 1.89° Inc. 109.68° Azi MW 8.8, viscosity 42
19:00	20:30	1.5	Production Drilling	Trips		Lay down BHA # 14, VRSS Mud motor bearing loose No other issues
20:30	22:00	1.5	Production Drilling	Other		Pick up BHA # 15, with nine blade core bit
22:00	00:30	2.5	Production Drilling	Trips		Trip in hole with BHA # 15 (Core Assembly) tag bottom no fill
00:30	01:30	1.0	Production Drilling	Cond Mud & Circ		Circulate off bottom
01:30	06:00	4.5	Production Drilling	Coring		Cut core from 5,846' to 5,855'
	TOTAL HRS	24.0				