DAILY DRILLING REPORT

RPT DATE: 11/27/2020
RPT NUM.: 39
RIG: Frontier Rig 16

WELL/JOB INFORMATION

WELL NAME: FORGE 16A [78]-32	JOB: Drilling 65° Tangent	RIG SUPERV: Leroy S, Paul S, Bob F
FIELD:	LEASE:	RIG PHONE: 281-854-6858
AFE #:	API #:	EMAIL:
CONTRACTOR: Frontier Drilling	ELEVATION: 5415.1	RKB:
SPUD DATE: 10/30/2020	DFS: 28	DOL: 38
MD/TVD: 6724	24 HR FTG: 217	HRS DRLG: 8

PRESENT OPERATIONS: Drilling Curve

ACTIVITY PLANNED: Drill Curve.

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
13:00	9.0	44.0	10.0	10.5	1	3	3	5	22	14	1,500		0.70	2.60	40		3.50	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
22	8.75	Reed	PDC		3x13, 4x12	0.830	N	6,526	6,724	198	7.0	45	135	28.3
21		Reed	SKC6 - 01	A232400	3x14, 3x13	0.840	N	6,360	6,526	166	6.5	35	125	25.5

BIT NO. 16 INNER: 2 OUTER: 1 DULL: CT LOC: N SEAL: GAUGE: I OTHER: RP: TD

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	70	3250	275		95	9.65	308	475	130.1	
3	BOMCO	1600	6.000	12.000	70	3250	275		95	9.65	308	475	130.1	

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-Reed Hycalog	8.75		1	7	Monel Collar-6 3/4" NMDC (2 joints)	6.75	3.25	60.66
2	Motor-6 1/2" Scout 7/8 5.7, Fixed 1.50, 8	6.5	1.25	33.01	8	Drill Collar-6 1/2" DC's (2 stands)	6.5	3	183.22
3	Sub-6 1/2 Scout String Sub with PUK sens	6.5	3.25	2.34	9	Drill Pipe-5" HWDP (15 stands)	5	3.25	1384.33
4	Monel Collar-6 3/4 NM Pony Collar	6.75	3.25	9.22					
5	Monel Collar-6 1/2" NM UBHO	6.5	2.75	3.08					
6	Monel Collar-6 3/4" NMDC with MWD	6.75	3.25	30.35					

DESCRIPTION: Curve Assembly 3 BHA 22

LENGTH: 1,707.21	BHA WT. AIR: 72,000	BHA WT. MUD: 62,000	HRS. ON JARS:
ROT. WT.: 225,000	P.U. WT.: 250,000	S.O. WT.: 190,000	TORQUE: 3,200

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES E/W	V. SECTION	DLS
6,529	23.68	115.79	6,503	-52.5	179.6	187.1	2.8
6,561	26.11	116.87	6,532	-58.5	191.7	200.3	7.7
6,592	28.28	116.36	6,559	-64.8	204.4	214.2	7.0
6,624	29.36	116.09	6,587	-71.7	218.2	229.3	3.4

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		4,802	12,087
Potable Water			1,000

TIME BREAKDOWN

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
06:00	06:30	0.5	Production Drilling	Other		PJSM, pre job safety meeting. Work tight hole at 6,526'.
06:30	07:30	1.0	Production Drilling	Cond Mud & Circ		Circulate for temperature and mix dry pill
07:30	09:30	2.0	Production Drilling	Trips		Pump dry pill Trip out of hole to 5,500' Establish Pick Up, Slack Off, Torque parameters Trip back to bottom at 6.507'.
09:30	10:30	1.0	Production Drilling	Drilling		Drill rotate from 6,507' to 6,526'. 30K - 40K wob, 58 rpm, 558 gpm. (19') 19 FPH Due to high torque decision to pull out of hole Last survey @ 6,434' MD, 20.02° Inc, 113.34° Azi, 6,484' TVD, 179.4' VS, 4.64° DLS
10:30	12:00	1.5	Production Drilling	Cond Mud & Circ		Circulate for temperature and mix dry pill
12:00	18:00	6.0	Production Drilling	Trips		Trip out of hole with BHA # 21, Hole drag from 6,050' to 5,901' no issues
18:00	18:30	0.5	Production Drilling	Other		Lay down BHA # 21 and bit
18:30	19:30	1.0	Production Drilling	Trips		Pick up BHA # 22
19:30	21:00	1.5	Production Drilling	Trips		Trip in hole to 5,119'
21:00	22:00	1.0	Production Drilling	Cond Mud & Circ		Circulate hole to cool directional tools at 5,119'.
22:00	23:00	1.0	Production Drilling	Trips		Trip in Hole from 5,119' to 6,526'
23:00	06:00	7.0	Production Drilling	Drilling		Drill rotate and slide from 6,526' - 6,724'. 198 ft @ 28.23 FPH, 35K - 50K wob, 50 rpm, 558 gpm. Last Survey - MD: 6624' INC: 29.36° AZM: 116.09° TVD: 6587.19' VS: 229.31' DLS: 3.4
TOTAL HRS		24.0				