DAILY DRILLING REPORT

RPT DATE: 11/28/2020
RPT NUM.: 40
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, 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: 29
DOL: 39
MD/TVD: 6945
24 HR FTG: 221
HRS DRLG: 13.5
PRESENT OPERATIONS: TRIP OUT OF HOLE BHA 22
ACTIVITY PLANNED: PICK BHA 23, TRIP IN HOLE DRILL CURE

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	5,110	5,109

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
19:00	9.0	51.0	8.2	10.5	1	5	15	27	18	24	1,500		0.80	2.60	40		3.40	

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	6,945	419	20.5	45		20.4
21		Reed	SKC6 - 01	A232400	3x14, 3x13	0.840	N	6,360	6,526	166	5.5	35	125	30.2

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	3380	275		95	9.79	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.: 240,000
P.U. WT.: 270,000
S.O. WT.: 180,000
TORQUE: 3,200

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S (COORDINATES)	E/W (COORDINATES)	V. SECTION	DLS
6,782	39.18	105.03	6,717	-104.4	301.5	318.2	8.6
6,814	40.16	102.64	6,742	-109.2	321.3	338.6	5.7
6,846	42.26	101.42	6,766	-113.6	341.9	359.7	7.0
6,877	44.76	100.76	6,788	-117.7	362.9	381.0	8.2

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		2,973	9,114
Potable Water			1,000

TIME BREAKDOWN

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
06:00	17:30	11.5	Production Drilling	Drilling		PJSM, pre job safety meeting. Drill rotate, slide from 6,724' to 6,913'. (189') 16.4 FPH WOB 40K-60K , 50 rpm, 558 gpm.
17:30	18:00	0.5	Production Drilling	Lubricate Rig		Rig Service
18:00	20:00	2.0	Production Drilling	Drilling		Drill rotate, slide from 6,913' to 6,945'. (32') 16.0 FPH, WOB 40-60, 50 rpm, 558 gpm. Last Survey MD: 6877' INC: 44.76° AZM: 100.76° TVD: 6788.27' VS: 380.97' DLS: 8.2 20' High and 17' Right
20:00	21:30	1.5	Production Drilling	Cond Mud & Circ		Circulate for temperature while building dry pill, Pump dry pill
21:30	23:00	1.5	Production Drilling	Trips		Trip out of hole to 5,235'
23:00	02:30	3.5	Production Drilling	Cond Mud & Circ		Circulate for temperature while building dry pill, Pump dry pill
02:30	04:00	1.5	Production Drilling	Trips		Trip out of hole to 2,957'
04:00	04:30	0.5	Production Drilling	Cond Mud & Circ		Circulate for temperature while building dry pill, Pump dry pill
04:30	06:00	1.5	Production Drilling	Trips		Trip out of hole
	TOTAL HRS	24.0				