DAILY DRILLING REPORT

RPT DATE: 12/15/2020
RPT NUM.: 57
RIG: Frontier Rig 16

WELL/JOB INFORMATION

WELL NAME:	FORGE 16A [78]-32	JOB:	Drilling 65° Tangent	RIG SUPERV:	Duane W, Leroy 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:	46	DOL:	56
MD:	9748	24 HR FTG:	56	HRS DRLG:	2.5

PRESENT OPERATIONS: REAMING AT 8,083'

ACTIVITY PLANNED: REAM TO TD 9,748', TRIP OUT OF HOLE, LAY DOWN REAMING BHA, RIG UP BOP TESTERS, TEST BOP

BOP

LAST BOP TEST:	11/14/20	LAST BOP DRILL:	11/29/20	NEXT BOP TEST:	12/14/20

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
17:00	9.0	41.0	11.0	11.0	1	5	11	14	18	9	1,700		2.50	4.80			3.60	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
36	8.75	REED	PDC	A275803			Y	9,748	9,748			4		
35	8.75	Reed Hycalog	FTKC63-01	A270978	3x14, 3x13	0.840	N	9,064	9,748	684	17.5	47	156	39.1

BIT NO. 34 INNER: 2 OUTER: 7 DULL: WT LOC: S SEAL: GAUGE: 1 OTHER: RP: ROP

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	73	2200	315	5.25	95	9.57	308	475	130.1	
2	BOMCO	1600	6.000	12.000	79	2200	315	5.25	95	9.57	308	475	130.1	

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-Bit	8.75		0.85	7	Drill Collar-DRILL COLLAR	6.5	3.25	30
2	Reamer-Near bit reamer w/ float	8.63	3.5	6.82	8	Drill Pipe-9 Joints HWDP	5	3	279.2
3	Drill Collar-Drill collar	6.5	3.25	30	9	Reamer-String Mill	7.88	2.75	7.18
4	Reamer-Reamer	8.5	2.25	6.44	10	Drill Pipe-33 Joints HWDP	5	3	1023.7
5	Drill Collar-DRILL COLLAR	6.5	3.25	30	11	Jar-Drilling jar	6.5	2.88	30.57
6	Reamer-REAMER	8.5	2.25	6.53	12	Drill Pipe-3 Joints HWDP	5	3	93.1

DESCRIPTION: Reamer Run BHA 40

LENGTH: 1,544.39 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	E/W	V. SECTION	DLS
9,333	64.64	103.67	7,885	-659.0	2,477.9	2,564.1	2.1
9,429	63.62	105.78	7,927	-680.9	2,561.5	2,650.4	2.2
9,524	62.73	106.61	7,970	-704.6	2,642.9	2,735.2	1.2
9,618	62.36	105.28	8,013	-727.5	2,723.1	2,818.6	1.3

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		1,997	8,096
Potable Water			900

TIME BREAKDOWN

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
06:00	08:30	2.5	Production Drilling	Drilling		Drill rotate and slide from 9,692' to 9,748', (56') 22.4 FPH, 47K WOB, 70 RPM, 640-650 GPM Rotate: 36' (1 hrs). AVG ROP 36 fph. Slide: 20', (1 hrs). AVG ROP 20 fph. Repairs, connections and position tool face (0.5 hrs) SURVEY MD: 9,618' INC: 62.36° AZM: 105.28° TVD: 8,013.01' VS: 2,818.57' DLS: 1.32 3.4' Below and 1.7' Left
08:30	09:30	1.0	Production Drilling	Cond Mud & Circ		Circulate for temperature, Build dry pill, pump dry job jnm
09:30	13:00	3.5	Production Drilling	Trips		Trip out of hole with BHA #39.
13:00	14:30	1.5	Production Drilling	Dir Work		Lay down BHA # 39
14:30	17:30	3.0	Production Drilling	Trips		PU Reamer BHA #40 with TKC713 PDC bit Trip in the hole to 1500'
17:30	19:00	1.5	Production Drilling	Cut off Drill Line		Cut and slip the drill line
19:00	20:00	1.0	Production Drilling	Trips		Trip in hole to 5,250'
20:00	21:00	1.0	Production Drilling	Cond Mud & Circ		Circulate and condition for temperature
21:00	22:00	1.0	Production Drilling	Trips		Trip in hole to 7,225'
22:00	06:00	8.0	Production Drilling	Reaming		Ream from 7,225' to 8.083' Ream at 60 - 70 RPM, 600 GPM, RATE 100 - 200 FPH.
	TOTAL HRS	24.0				