DAILY DRILLING REPORT

RPT DATE: 12/19/2020
RPT NUM.: 61
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:	50	DOL:	60
MD:	10955	24 HR FTG:	465	HRS DRLG:	10

PRESENT OPERATIONS: TRIP OUT OF HOLE WITH BHA #42
ACTIVITY PLANNED: LAY DOWN DIRECTIONAL TOOLS , TIH GYRO BHA #43

BOP

LAST BOP TEST:	12/16/20	LAST BOP DRILL:	12/16/20	NEXT BOP TEST:	1/15/21

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	40.0	11.0	11.0	1	4	9	13	14	9	1,400		2.10	3.80	40		3.70	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
38	8.75	Reed	PDC	A271437	3x14, 3x13	0.840	N	10,490	10,955	465	12.0		183	38.8
37	8.75	REED	PDC	A271436	3x14, 3x13	0.840	N	9,748	10,490	742	17.0	40	182	43.6

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					95					
2	BOMCO	1600	6.000	12.000	79	4250	315	5.25	95	9.46	308	475	130.1	

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-Reed Hycalog PDC, 3x13-3x14's	8.75		0.85	7	Monel Collar-6 3/4" NMDC with crowsfoo	6.75	3.25	28.73
2	Motor-6 1/2" Motor 7/8 5.7, Fixed 1.25, 8	6.75	1.25	34.02	8	Monel Collar-6 3/4" NMDC	6.63	3.25	30.46
3	Sensor-6 1/2" Scout Sub-PUK Sensor	6.5	3.25	2.61	9	Drill Pipe-5" HWDP (3 stands)	5	3	279.3
4	Monel Collar-6 3/4" NM Pony Collar	6.75	3.25	8.98	10	Drill Pipe-5" Drill Pipe (23 stands)	5	3.25	2185.39
5	MWD Tool-6 1/2" NM UBHO	6.5	2.81	3.13	11	Jar-6 1/2" Vibe Scout	6.5	2.88	27.72
6	Monel Collar-6 3/4" NMDC with MWD	6.63	3.25	28.77	12	Drill Pipe-5" Drill Pipe (13 stands)	5	3.25	1226.43

DESCRIPTION: TANGENT BHA # 42

LENGTH:	4,973.57	BHA WT. AIR:	84,800	BHA WT. MUD:	72,000	HRS. ON JARS:	
ROT. WT.:	214,000	P.U. WT.:	470	S.O. WT.:	140	TORQUE:	14,000

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S (COORDINATES)	E/W (COORDINATES)	V. SECTION	DLS
10,316	63.32	108.30	8,310	-904.3	3,329.4	3,450.0	1.0
10,411	64.68	105.97	8,351	-929.4	3,411.0	3,535.3	2.6
10,505	64.86	105.02	8,392	-952.1	3,492.9	3,620.3	0.9
10,604	68.46	103.44	8,431	-974.4	3,581.0	3,711.2	3.9

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel	7,456	3,863	10,763
Potable Water			900

TIME BREAKDOWN

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
06:00	07:30	1.5	Production Drilling	Trips		Trip in hole with Directional BHA #42 to 5,256' to 7,625' Circulate for temperature
07:30	08:00	0.5	Production Drilling	Trips		Trip in hole from 7,625' to 8,011' Circulate for temperature
08:00	08:30	0.5	Production Drilling	Trips		Trip in hole from 8,011' to 9,047' Circulate for temperature
08:30	09:00	0.5	Production Drilling	Trips		Trip in hole from 9,047' to 10,293'
09:00	10:00	1.0	Production Drilling	Trips		Pre cautionary wash to bottom from 10,293' to 10,490'
10:00	16:00	6.0	Production Drilling	Drilling		Drill rotate and slide from 10,490' to 10,730', (240') 40 FPH, 40K WOB, 55 - 70 RPM, 645 GPM
16:00	20:00	4.0	Production Drilling	Cond Mud & Circ		Circulate and pump sweeps to clean and cool hole
20:00	00:00	4.0	Production Drilling	Drilling		Drill rotate and slide from 10,730' to 10,955', (225') 56.3 FPH, 40K WOB, 55 - 70 RPM, 645 GPM Rotate for day : 385' (6.2hrs). AVG ROP 62.1 FPH. Slide for day: 80', (2.7 hrs). AVG ROP 29.6 FPH. Repairs, connections and position tool face (1.1 hrs) Confirmed location to lease boundry SURVEY MD: 10886' INC: 68.60° AZM: 101.44° TVD: 8533.66' VS: 3973.25' DLS: 0.67 20' Above and 4' Left
00:00	01:30	1.5	Production Drilling	Cond Mud & Circ		Circulate and pump sweeps, Build dry pill, pump dry pill
01:30	06:00	4.5	Production Drilling	Trips		Trip out of hole with BHA # 42

TOTAL HRS 24.0