DAILY DRILLING REPORT

RPT DATE: 12/14/2020
RPT NUM.: 56
RIG: Frontier Rig 16

WELL/JOB INFORMATION

WELL NAME:	FORGE 16A [78]-32	JOB:	Drilling 65° Tangent	RIG SUPERV:	Duane W, Leroy S
FIELD:		LEASE:		RIG PHONE:	281-854-6858
AFE #:		API #:		EMAIL:	
CONTRACTOR:	Frontier Drilling	ELEVATION:	5415.1	RKB:	
SPUD DATE:	10/30/2020	DFS:	45	DOL:	55
MD:	9692	24 HR FTG:	628	HRS DRLG:	15

PRESENT OPERATIONS: DRILLING AHEAD IN TANGENT AT 9,685' MD
ACTIVITY PLANNED: DRILL AHEAD IN TANGENT WITH BHA #39

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	40.0	11.0	11.0	1	5	10	16	15	15	1,700		2.50	4.70			3.60	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
35	8.75	Reed Hycalog	FTKC63-01	A270978	3x14, 3x13	0.840	N	9,064				40	156	
34	8.75	Reed Hycalog	PDC	A270819	3x14, 3x13	0.840	N	8,535	9,064	529	12.5	45	154	42.3

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	79	4000	325	4.19	95	9.57	308	475	130.1	
2	BOMCO	1600	6.000	12.000	79	4000	325	4.19	95					

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-Reed Hycalog FTKC63-01 PDC3x1	8.75		0.85	7	Monel Collar-6 3/4" NMDC	6.75	3.25	30.4
2	Motor-6 1/2" Motor 7/8 5.7, Fixed1.25, d	6.5	1.25	35.32	8	Monel Collar-6 3/4" NMDC	6.75	3.25	29.41
3	Sub-6 1/2 Scout String Sub with PUK sen	6.5		2.61	9	Drill Pipe-5" HWDP (15 stands)	5	3	1396.48
4	Monel Collar-6 3/4 NM Pony Collar	6.75	3.25	8.98					
5	Monel Collar-6 1/2" NM UBHO	6.5	2.75	3.13					
6	Monel Collar-6 3/4" NMDC with MWD	6.75	3.25	30.26					

DESCRIPTION: BHA 39 Tangent
LENGTH: 1,537.44 | BHA WT. AIR: 81,500 | BHA WT. MUD: 70,300 | HRS. ON JARS:
ROT. WT.: 230,000 | P.U. WT.: 380,000 | S.O. WT.: 170,000 | TORQUE: 13,000

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S COORDINATES	E/W	V. SECTION	DLS
8,859	69.41	99.11	7,694	-582.2	2,051.2	2,132.0	1.8
8,953	65.25	98.06	7,730	-595.1	2,137.0	2,218.2	4.5
9,048	66.34	98.00	7,769	-607.3	2,222.8	2,304.2	1.2
9,144	66.13	99.91	7,808	-620.9	2,309.5	2,391.6	1.8

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel		3,776	10,093
Potable Water			900

TIME BREAKDOWN

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
06:00	07:00	1.0	Production Drilling	Trips		Pick up directional drilling BHA # 39
07:00	08:30	1.5	Production Drilling	Trips		Trip in hole with BHA # 39 to 5,800'
08:30	09:30	1.0	Production Drilling	Cond Mud & Circ		Circulate for temperature
09:30	10:00	0.5	Production Drilling	Trips		Trip in hole with BHA # 39 to 7,570'
10:00	10:30	0.5	Production Drilling	Cond Mud & Circ		Circulate for temperature
10:30	12:00	1.5	Production Drilling	Trips		Trip in hole with BHA # 39 to 9,064' btm
12:00	18:00	6.0	Production Drilling	Drilling		Drill rotate and slide from 9,064' to 9,324', (260') 43.3 FPH, 45K WOB, 70 RPM, 640-650 GPM
18:00	18:30	0.5	Production Drilling	Other		Assess torque issue on top drive. Brake is not releasing.
18:30	20:00	1.5	Production Drilling	Repair Rig		Trip out of hole 5 stands Work on top drive brake Trip in hole 5 stands
20:00	03:00	7.0	Production Drilling	Drilling		Drill rotate and slide from 9,324' to 9,595', (241') 34.4 FPH, 45K WOB, 70 RPM, 640-650 GPM
03:00	04:00	1.0	Production Drilling	Repair Rig		Fix and replace grabber box dies on top drive
04:00	06:00	2.0	Production Drilling	Drilling		Drill rotate and slide from 9,595' to 9,692', (97') 48.5 FPH, 47K WOB, 70 RPM, 640-650 GPM 24 hour footage: 628', 15 hrs, 41.8 fph. Rotate: 485' (9.5 hrs). AVG ROP 51 fph. Slide: 143', (5.5 hrs). AVG ROP 26.0 fph. Repairs, connections and position tool face (3.5 hrs) SURVEY MD: 9.524' INC: 62.73° AZM: 106.61° TVD: 7,969.67' VS: 2,735.17' DLS: 1.22 1' Above and 1' Left
	TOTAL HRS	24.0				