DAILY DRILLING REPORT

RPT DATE: 12/10/2020
RPT NUM.: 52
RIG: Frontier Rig 16

WELL/JOB INFORMATION

WELL NAME: FORGE 16A [78]-32
FIELD:
AFE #:
CONTRACTOR: Frontier Drilling
SPUD DATE: 10/30/2020
MD: 8535
JOB: Drilling 65° Tangent
LEASE:
API #:
ELEVATION: 5415.1
DFS: 41
24 HR FTG: 144
RIG SUPERV: Bob F, Duane W, Leroy S
RIG PHONE: 281-854-6858
EMAIL:
RKB:
DOL: 51
HRS DRLG: 2.5

PRESENT OPERATIONS: TRIP IN HOLE WITH PACKER ASSEMBLY
ACTIVITY PLANNED: CONTINUE TRIP IN HOLE. SET BOTTOM PACKER , PERFORM XLOT. TRIP OUT OF HOLE.

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
14:00	9.0	40.0	11.0	11.0	1	8	14	22	12	16	1,500		1.80	3.70			3.60	

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
32	8.75	REED HYCALOG	PDC	A230682	3x14, 3x13	0.840	N	8,241	8,535	294	6.0	50	156	49.0
31	8.75	Reed	PDC	A276122	3x13, 4x12	0.830	N	8,024	8,241	217	6.0	45	135	36.2

BIT NO. 23 INNER: 0 OUTER: 1 DULL: WC LOC: S SEAL: GAUGE: Y OTHER: DULL CUT RP: TD

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	Sub-Bullnose Guide Shoe	5.17		1.55	7	Sub-PACKER	7.25	4.75	3.25
2	X-Over-4.5" CASING PUP	4.5	4	2.4	8	X-Over-COLLAR	6.38	5	0.77
3	X-Over-Collar	5	4.5	0.74	9	Sub-PACKER	7.25	4.75	3.25
4	X-Over-LANDING COLLAR	5.28	1.06	0.8	10	X-Over-COLLAR	6.38	5	0.78
5	X-Over-5 1/2" BTC x 4 1/2" BTC	6.3	3.5	0.9	11	X-Over-5 1/2 BTC X 4 1/2 IF	6.5	2.75	1.18
6	Sub-TOE SUB	6.3	4.66	2.12	12	Sub-HANDLING SUB	6.63	2.75	7.65

DESCRIPTION: Packer BHA 3
LENGTH: 1,441.31 | BHA WT. AIR: 82,000 | BHA WT. MUD: 65,600 | HRS. ON JARS:
ROT. WT.: 210,000 | P.U. WT.: 330,000 | S.O. WT.: 160,000 | TORQUE: 9,500

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
8,181	65.02	110.34	7,426	-403.8	1,456.6		1,511.4	2.5
8,276	66.06	108.75	7,466	-432.7	1,538.1		1,597.6	1.9
8,371	66.15	106.68	7,504	-459.1	1,620.8		1,684.4	2.0
8,466	65.60	108.41	7,543	-485.3	1,703.5		1,771.0	1.8

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel			14,633
Potable Water			900

TIME BREAKDOWN

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
06:00	07:30	1.5	Production Drilling	Trips		PJSM, pre job safety meeting with Frontier and DSM. Continue tripping out of hole looking for washed pipe.
07:30	08:30	1.0	Production Drilling	Dir Work		Check BHA and bit.
08:30	10:30	2.0	Production Drilling	Trips		Trip in hole with BHA #35 to 5,120'
10:30	11:00	0.5	Production Drilling	Cond Mud & Circ		Circulate to lower temperature.
11:00	13:00	2.0	Production Drilling	Trips		Trip in hole. Check MWD temperature at 7,220'. Continue tripping in hole to 8,345'. Pre cautionary wash to bottom at 8,391'.
13:00	15:30	2.5	Production Drilling	Drilling		Drill rotate from 8,391' to 8,535', (144') 57.6 FPH, WOB 50K, 70 RPM, 620-645 GPM SURVEY MD: 8,466' INC: 65.6° AZM: 108.41° TVD: 7,571.44' VS: 1,771' DLS: 1.76 16' Low and 28' Right
15:30	16:00	0.5	Production Drilling	Cond Mud & Circ		Circulate for temperature
16:00	20:30	4.5	Production Drilling	Trips		Drop gyro survey, pump dry job and trip out of hole.
20:30	22:00	1.5	Production Drilling	Dir Work		Lay down gyro survey tool and BHA.
22:00	22:30	0.5	Production Drilling	Trips		Trip in hole with heavy weight drill pipe.
22:30	23:30	1.0	Production Drilling	Cut off Drill Line		Slip and cut drilling line.
23:30	01:00	1.5	Production Drilling	Trips		Lay down heavy weight drill pipe
01:00	04:30	3.5	Production Drilling	Trips		Strap and pick up 45 joints of new heavy weight drill pipe. Stand in derrick.
04:30	06:00	1.5	Production Drilling	Trips		Make up packer assembly BHA # 36 and trip in hole.
	TOTAL HRS	24.0				