DAILY DRILLING REPORT

RPT DATE: 11/01/2020
RPT NUM.: 13
RIG: Frontier Rig 16

WELL/JOB INFORMATION

WELL NAME:	FORGE 16A [78]-32	JOB:	Drilling 65° Tangent	RIG SUPERV:	Leroy Swearingen , Bob Frank, 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:	2	DOL:	12
MD/TVD:	1629	24 HR FTG:		HRS DRLG:	

PRESENT OPERATIONS: Remove Cement Head, Prepare cut off conductor

ACTIVITY PLANNED: Cut off conductor and surface casing, weld on surface casing head, NU BOP Test BOPE

BOP

LAST BOP TEST: LAST BOP DRILL: NEXT BOP TEST:

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

MUD

TIME	MW	FV	WL	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
15:00	8.8	57.0	17.0	7.5	2	14	25	334	9	17	700		0.30	0.10	20	2.00		

DRILL BITS

NO.	SIZE	MANUFACTURER	TYPE	SER NO.	JETS	TFA	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
1	17.50	NOV	PDC	A275580	8x15	1.726	N	0	1,629	1,629	9.0	25	80	181.0

BIT NO.: INNER: OUTER: DULL: LOC: SEAL: GAUGE: OTHER: RP:

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	80	1245	335		95					
2	BOMCO	1600	6.000	12.000	80	1245	335		95					

BHA

#	COMPONENT	OD	ID	LENGTH	#	COMPONENT	OD	ID	LENGTH
1	Drill Bit-17 1/2" PDC	17.5		2	7	Monel Collar-NMDC	8.25	3.14	29.52
2	Steerable Assembly-Vertical Scout	14		21.11	8	Sub-Hang OFF SUB	8.5	3.25	5.89
3	X-Over-Pin X Pin	9.5	3	2.15	9	Drill Collar-8" Drill Collar	8	2.88	366.49
4	Motor-TDI Motor 7/8 5.9 Stg, 0.155 RPG	9.63		41.08	10	X-Over-6 5/8" REG X 4 1/2" IF	8	2.75	2.8
5	Shock Sub-NOV Shock Sub	8.38	2.75	13.52	11	Drill Pipe-HVY WT DP	5	3	276.35
6	Stabilizer-Spiral Stabilizer	17.3	2.88	7.96					

DESCRIPTION: Surface BHA

LENGTH:	768.87	BHA WT. AIR:		BHA WT. MUD:		HRS. ON JARS:	
ROT. WT.:		P.U. WT.:		S.O. WT.:		TORQUE:	

SURVEY DATA

MD	INCLINATION	AZIMUTH	TVD	COORDINATES N/S	COORDINATES E/W	V. SECTION	DLS
1,325	1.58	166.01	1,325	-14.4	-2.0	1.8	0.4
1,420	1.10	155.91	1,420	-16.5	-1.3	3.0	0.6
1,514	0.75	126.20	1,514	-17.7	-0.5	4.1	0.6
1,523	0.66	124.35	1,523	-17.8	-0.4	4.2	1.0

CONSUMABLES

CONSUMABLE	DAILY RECEIVED (gal)	DAILY USED (gal)	DAILY ON HAND (gal)
Fuel			14,771
Potable Water			13,200

TIME BREAKDOWN

FROM	TO	HRS	PHASE	CODE	NPT	OPERATIONS
06:00	13:30	7.5	Surface Drilling	Trips		Trip in the hole with directional BHA and drill pipe tag bottom at 1.629' no fill, bottom hole clean circulate one bottoms up small amount of cutting recovered good clean well bore Trip out of the hole stand in derrick drill pipe and drill collars Lay down VRSS BHA
13:30	14:30	1.0	Surface Casing	Other		Held Safety Meeting with eight Wyoming Casing personnel, Nine Frontier personnel, DSM Rig up Wyoming Casing equipment
14:30	18:00	3.5	Surface Casing	Run Csg & Cement		Surface Casing 13 3/8" X 68 ppf, L80, BTC threads, Run as follows Float Shoe, 1 joint of casing (shoe track), Float Collar 41 joints or 13 3/8" casing, (total of 42 joints of casing) bottom of float shoe 1,629', (bottom of well 1,629') 14 centralizer, 1 cement basket
18:00	19:30	1.5	Surface Casing	Cond Mud & Circ		Establish circulation, circulate well, while circulating rig down casing run equipment Rig up cement equipment to rig floor
19:30	20:00	0.5	Surface Casing	Other		Safety Meeting , Lay down CRT tool, Safety Meeting Rig up cement head, establish circulation,
20:00	22:00	2.0	Surface Casing	Run Csg & Cement		RU Cementers, troubleshoot computer recording problems,
22:00	01:00	3.0	Surface Casing	Run Csg & Cement		Safety Meeting, Test pump and lines to 3000 psi, cement with 30 bbls fresh water ahead, 50 bbls of 10.5 ppg sepiolite pacer, 13 bbls Sodium SIlicate, 5 bbls fresh water, Drop bottom plug, follow with 410 bbls of 12.92 ppg, RC Thermalite-HT Cement at 5 BPM. Drop top plug, Displace with 237 bbls fresh water, Over displace 3 bbls. , floats held. 212 bbls cement to surface. Check annulus cement at surface , recheck 30 minutes later cement at surface and stagnant, Good returns through out job. No losses, Flush out conductor riser, RD Cementers
01:00	06:00	5.0	Surface Casing	Other		Wait on cement to cure, Center casing in bushing, Rig down flow line, Clean Cellar
	TOTAL HRS	24.0				