

Terra Energy Partners
Piceance Daily Drilling Report

WELL NAME:	RG 511-18-297	AFE #:	220100	AFE \$:	1,586,444	LANDING PNT	102(ft)	REPORT#:	1	DATE:	8/17/2022
FIELD:	RYAN GULCH	SIDETRACK:	00	DAILY COST \$:	142,211	LATERAL SEC:		DFS:	0.13		
EVENT:	DRILLING	LOCATION:		CUM COST \$:	142,211	TD (MD):	263.0	LITHOLOGY:			
OBJECTIVE:	DEVELOPMENT	CTY,ST:	RIO BLANCO,COLORADO	DAILY MUD	0	TD (TVD):	263.0	FORMATION:			
ENGINEER:	Dustin Childers	ROT HRS:	2.5	CUM MUD	0	SPUD DATE::	8/17/2022	RIG FUEL USED:		206	
TODAY'S DEPTH:	263 (ft)	CUM ROT:	2.50	+/- PLAN:		RR DATE :		CUM FUEL USED:		206	
PREV. DEPTH:	(ft)			RIG::	Cartel/X15			SUPERVISOR:		Craig Borgstede	
PROGRESS:	263 (ft)	WEATHER:						SUPERVISOR PH. #:		601-757-1737	
PRESENT OPERATION:	0.38 DFS. No HSEs. COGCC Inspection.Drilling Surface section.										
OPERATION FORECAST:	Drill Surface section to TD. TOO.H. Run casing to set depth. Pump Surface cement job. Release rig.										

CSG / WELL CONTROL		DRLG DATA				DOWNTIME:		BIT RECORD			
LAST CASING:	20.000(in)	ST WT UP	25.0	PRESS	1,000.00	LOSS TIME (hrs):	0.00	BIT #	1	RPM	0
DEPTH:	102(ft)	ST WT DN	25.0	RATE	383.7	LOSS TIME INC:	0.00	SIZE	17-1/2 (")	HHP	90.60
LAST BOP:		ST WT ROT	25.0	DP AV		NEAR MISSES:	0.00	TYPE	CF616	P BIT	202.38
LOT EMW:		TQ ON BTM	6.0	DC AV		24 HR RIG DOWN:	0.00	JETS	9-15		
WEIGHT LB/FT:		TQ OFF BTM	6.0			CUM RIG DOWN	0.00	DEPTH IN	102.0 (ft)		
CONN:								DEPTH OUT			
PUMP DATA								ROP-last 24 I	64.4		
PUMP #	MANU	LINER		STROKE		PRESSURE	GPM	CUM. FT	161.0		
1	GARDENER-DENVER			11		800.00	383.7	CUM. HRS	2.50		
2	GARDENER-DENVER			11		800.00	383.7	ROP/Cum-ent	64.4		
2	GARDENER-DENVER	6.000		11				WOB	6.0-6.0		
SURVEY DATA								DULL CONDITION			
MD	INCL	AZIM	TVD	N/S(-)	E/W(-)	VS	DLS	I	O	D	L B R G T
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	1	NO	A X TD I 1-1

MUD ADDITIVES							
PRODUCT	AMOUNT	PRODUCT	AMOUNT	PRODUCT	AMOUNT	PRODUCT	AMOUNT
Third Party Trucking		NP-Lime		NP-NewZan D		NP-NewPHPA	
NP-Super Sweep Fil		NP-NewGel HY		NP-NewWate 100 lb		Tax	

MUD DATA							
MUD TYPE	MW	VISC	ECD	PV/YP	/	API WL	HTHP
GELS (/	SOLIDS (%)	LGS (%)	SAND (%)	OIL (%)	MBT	LIME	
pH	Pm	Pf	Mf	CI-	Ca+	K+	POLYMER 0.00
CaCl2	ES	HGS (%)	Filter Cake (32nd")	WTR	OIL	LCM IN	
CHECK DEPTH	FL TEMP	HOLE VOL	0.00	PIT VOL	CLOM (ppm)	DISEL	LCM OUT

COMMENTS

MUD GAS DATA			
CONNECTION MAX	0.00	TRIP MAX	0.00
BACKGROUND MAX	0.00		

CURRENT BHA											
DESCRIPTION	NUMBER	LENGTH	DRILL ROT	DRILL SLIDE	P/U	S/O	ROT	TORQUE	OD	ID	TOP CON SIZE
	1	393.45	161.00		25.00	25.00	25.0	6.0			
Polycrystalline Diamond Bit	0	1.50	PDC						17.50	0.00	7.63
Bent Housing	1	30.67	Hybrid Mud Motor						10.25	0.00	6.63
Shock Sub	2	8.73	Shock Sub						7.88	2.81	6.63
Non-Mag Pony Collar	3	12.18	NMPC						7.63	3.25	6.63
Non-Mag Drill Collar	4	26.50	NMDC						7.31	3.25	6.63
Gap Sub	5	5.59	Gap Sub						7.88	3.25	6.63
Cross Over	6	2.47	XO						8.00	3.25	4.25
Drill Collar	7	29.15	DC						6.50	2.25	4.25
Heavy Weight Drill Pipe	8	276.66	HWDP						4.50	2.75	4.25
BHA HRS	2.00	MTR HRS	2.00								
JAR HRS		MWD Hrs	2.00								

OPERATIONS (00:00)											
OPERATION COMMENT		Prep and skidded over well center. Spudded in.									
FROM	TO	MD from	MD to	CODE	CLASS	OPERATIONS					
19:00	20:00			01	P	Prep and skid rig over well center.					
20:00	21:00			06	P	P/U 17 1/2" BHA components. Scribe mud motor. Note: Powered up MWD tool offline.					
21:00	22:00	102.00	145.00	02	P	Spud and Drill 17 1/2" hole section F/102' T/145' - 43'(22'/hr) 800 gpm, 800 psi,0 rpm, 6k torque, 6k WOB. No losses					
22:00	22:30			05	U	Trouble shoot and repair elevators. Well static.					
22:30	00:00	145.00	263.00	02	P	Drill 17 1/2" hole section F/145' T/263' - 118'(79'/hr) 800 gpm, 1000 psi, 30 rpm, 7k torque, 6k WOB. No losses					

24 HOUR SUMMARY											
MD	INC	AZI	TVD	N+/-	E+/-	V.S.	DLS				
717	12.00	187.77		712.70	-61.35	-3.58	61.30	2.15			
SURVEY POSITION RELATIVE TO PLAN: .77' Below & 4.39' Left											

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WELL NAME:	RG 511-18-297	AFE #:	220100	AFE \$:	1,586,444	LANDING PNT	102(ft)	REPORT#:	2	DATE:	8/18/2022										
FIELD:	RYAN GULCH	SIDETRACK:	00	DAILY COST \$:	168,745	LATERAL SEC:		DFS:	1.10												
EVENT:	DRILLING	LOCATION:		CUM COST \$:	310,956	TD (MD):	1,368.0	LITHOLOGY:													
OBJECTIVE:	DEVELOPMENT	CTY,ST:	RIO BLANCO,COLOR ADO	DAILY MUD	3,426	TD (TVD):	1,327.7	FORMATION:													
ENGINEER:	Dustin Childers	ROT HRS:	13.0	CUM MUD	3,426	SPUD DATE::	8/17/2022	RIG FUEL USED:		3,458											
TODAY'S DEPTH:	1,368 (ft)	CUM ROT:	15.50	+/- PLAN:		RR DATE :		CUM FUEL USED:		3,664											
PREV. DEPTH:	263 (ft)			RIG::	Cartel/X15			SUPERVISOR:		Craig Borgstede											
PROGRESS:	1,105 (ft)	WEATHER:						SUPERVISOR PH. #:		601-757-1737											
PRESENT OPERATION:	1.11 DFS. No HSEs or Inspections. Rig released at 2330 hrs.																				
OPERATION FORECAST:	Skid to the RG 411-18-297. Spud and drill Surface section.																				
CSG / WELL CONTROL		DRLG DATA				DOWNTIME:		BIT RECORD													
LAST CASING:	20.000(in)	ST WT UP	28.0	PRESS	1,400.00	LOSS TIME (hrs):	0.00	BIT #	1	RPM	0										
DEPTH:	102(ft)	ST WT DN	25.0	RATE	800.0	LOSS TIME INC:	0.00	SIZE	17-1/2 (")	HHP	95.63										
LAST BOP:		ST WT ROT	26.0	DP AV		NEAR MISSES:	0.00	TYPE	CF616	P BIT	213.62										
LOT EMW:		TQ ON BTM	10.0	DC AV		24 HR RIG DOWN:	0.00	JETS	9-15												
WEIGHT LB/FT:		TQ OFF BTM	8.0			CUM RIG DOWN	0.00	DEPTH IN	263.0 (ft)												
CONN:								DEPTH OUT	1,368												
PUMP DATA								ROP-last 24 I				85.0									
PUMP #	MANU		LINER		STROKE	PRESSURE	GPM	CUM. FT	1,266.0												
1	GARDENER-DENVER				11	1,400.00	383.7	CUM. HRS	15.50												
2	GARDENER-DENVER				11	1,400.00	383.7	ROP/Cum-ent	85.0												
2	GARDENER-DENVER		6.000		11			WOB	8.0-10.0												
SURVEY DATA								DULL CONDITION													
MD	INCL	AZIM	TVD	N/S(-)	E/W(-)	VS	DLS	I	O	D	L	B	R	G	T						
1,300.00	23.25	185.14	1,265.26	-243.73	-21.79	244.50	1.59	1	1	NO	A	X	TD	I	1-1						
1,241.00	22.32	185.49	1,210.87	-220.98	-19.68	221.67	2.49														
1,154.00	20.17	184.70	1,129.79	-189.58	-16.87	190.17	0.66														
1,066.00	19.69	185.66	1,047.06	-159.71	-14.16	160.20	0.99														
979.00	18.85	185.05	964.93	-131.12	-11.48	131.51	2.06														
MUD ADDITIVES																					
PRODUCT		AMOUNT		PRODUCT		AMOUNT		PRODUCT		AMOUNT		PRODUCT		AMOUNT							
Third Party Trucking		1,449.00		NP-Lime		1.00		NP-NewZan D		7.00		NP-NewPHPA		12.00							
NP-Super Sweep Fil				NP-NewGel HY		80.00		NP-NewWate 100 lb				Tax		76.02							
DES-SAPP Sticks		72.00																			
MUD DATA																					
MUD TYPE		WATER BASED MUD		MW		9.50		VISC		39.00		ECD		PV/YP 10.0/16.0							
API WL		13.6		HTHP																	
GELS (5.0/8.0		SOLIDS (7.00 (%))		LGS 5.23 (%))		SAND 1.50 (%))		OIL (%))		MBT 25.0		LIME									
pH 9.20		Pm 0.26		Pf 0.05		Mf 0.64		Cl- 600		Ca+		K+		POLYMER 0.00							
CaCl2		ES		HGS 1.74 (%))		Filter Cake 1.0 (32nd")		WTR		OIL		LCM IN									
CHECK DEPTH 1,368		FL TEMP		HOLE VOL 0.00		PIT VOL		CLOM (ppm)		DISEL		LCM OUT									
COMMENTS																					
MUD GAS DATA																					
CONNECTION MAX				0.00				TRIP MAX				0.00									
BACKGROUND MAX												0.00									
CURRENT BHA																					
DESCRIPTION		NUMBER		LENGTH		DRILL ROT		DRILL SLIDE		P/U		S/O		ROT							
TORQUE		OD		ID		TOP CON SIZE															
		1		393.45		1,105.00				28.00		25.00		26.0							
10.0																					
Polycrystalline Diamond Bit		0		1.50		PDC						17.50		0.00							
7.63																					
Bent Housing		1		30.67		Hybrid Mud Motor						10.25		0.00							
6.63																					
Shock Sub		2		8.73		Shock Sub						7.88		2.81							
6.63																					
Non-Mag Pony Collar		3		12.18		NMPC						7.63		3.25							
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Non-Mag Drill Collar		4		26.50		NMDC						7.31		3.25							
6.63																					
Gap Sub		5		5.59		Gap Sub						7.88		3.25							
6.63																					
Cross Over		6		2.47		XO						8.00		3.25							
4.25																					
Drill Collar		7		29.15		DC						6.50		2.25							
4.25																					
Heavy Weight Drill Pipe		8		276.66		HWDP						4.50		2.75							
4.25																					
BHA HRS		14.58		MTR HRS		14.58															
JAR HRS				MWD Hrs		14.58															
OPERATIONS (00:00)																					
OPERATION COMMENT				Drilled Surface section to TD. TOO H. Ran casing to set depth. Pumped Surface cement job.																	
FROM						TO						MD from				MD to					
CODE						CLASS						OPERATIONS									
00:00						13:00						263.00				1,368.00					
02						P						Drill 17 1/2" hole section F/263' T/1368' - 1105'(85/hr) 800 gpm, 1400 psi, 30 rpm, 10k torque, 10k WOB. No losses									
13:00						14:00															
05						P						Pump 3-sweep cleanup cycle. Well static.									
14:00						15:00															
06						P						TOOH F/1368' T/100'. Well taking proper hole fill.									
15:00						16:00															
06						P						TOOH with BHA F/100' T/ Surf. Well taking proper hole fill									
16:00						16:30															
12						P						R/U casing equipment. Well static.									
16:30						19:00															
12						P						RUN 13 3/8" 54.5# J-55 BTC SURFACE CASING F/ Surf T/1040'.									
19:00						19:30															
05						T						Troubleshoot and repair Casing Hydraulic unit.									
19:30						20:00															
12						P						RUN 13 3/8" 54.5# J-55 BTC SURFACE CASING AS FOLLOWS: MADE UP 1 FLOAT SHOE, 1 JOINT OF 54.5# BTC AS SHOE JOINT AND 1 FLOAT COLLAR, 31 JOINTS OF 13 3/8" 54.5# J-55 BTC, WITH 1 LANDING JOINT AND A CASING MANDREL WITH PUP TO BE LANDED ON CONDUCTOR RING ADAPTER AT GROUND LEVEL FOR A TOTAL OF 32 JOINTS OF SURFACE CASING AND 1 PUP JOINT. SHOE DEPTH AT 1,358.00'. FLOAT COLLAR DEPTH AT 1308.77'. RUN CENTRALIZERS ON THE FIRST THREE JOINTS, THEN 1 CENTRALIZER EVERY FORTH JOINT THEREAFTER FOR A TOTAL OF 10 CENTRALIZERS. BOTTOM CENTRALIZER AT 1,337.00' AND TOP CENTRALIZER AT 106.79'. CEMENT BASKET AT 106.79'. CASING SET DEPTH 1,358.00'.									
20:00						20:30															
05						P						Circulate a bottoms up with casing at set depth.									
20:30						21:00															
12						P						R/U cement equipment. Well static.									
21:00						23:00															
12						P						CEMENT SURFACE CASING: TESTED LINES TO 3700 PSI, PUMPED 20 BBLs FRESHWATER SPACER, PUMPED PRIMARY 242.4 BBLs (582 SKS) OF VARICEM AT 12.3 PPG, 2.34 YLD, 13.42 GAL/SK LEAD CEMENT W/ 40% EXCESS. DROPPED PLUG, DISPLACED WITH 202 BBLs OF FRESHWATER W/ 483 PSI LIFT AT 4 BPM. BUMPED PLUG TO 1040 PSI. FLOATS HELD. HAD FULL RETURNS THROUGHOUT JOB, 100 BBLs OF CEMENT BACK TO SURFACE.									
23:00						23:30															
12						P						R/D Cement equipment. L/D landing joint.									
23:30						23:30															
28						P						Release rig.									

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24 HOUR SUMMARY

Current Position:
Above/Below Plan: 4.95' Above
Right/Left Plan: 9.95' Left