

Terra Energy Partners
Piceance Daily Drilling Report

WELL NAME:	RG 314-7-297	AFE #:	220096	AFE \$:	1,586,444	LANDING PNT	102(ft)	REPORT#:	1	DATE:	8/24/2022
FIELD:	RYAN GULCH	SIDETRACK:	00	DAILY COST \$:	146,042	LATERAL SEC:		DFS:	0.15		
EVENT:	DRILLING	LOCATION:		CUM COST \$:	146,042	TD (MD):	458.0	LITHOLOGY:			
OBJECTIVE:	DEVELOPMENT	CTY,ST:	RIO BLANCO,COLOR ADO	DAILY MUD	0	TD (TVD):	457.2	FORMATION:			
ENGINEER:	Dustin Childers	ROT HRS:	3.5	CUM MUD	0	SPUD DATE::	8/24/2022	RIG FUEL USED:		878	
TODAY'S DEPTH:	458 (ft)	CUM ROT:	3.50	+/- PLAN:		RR DATE :		CUM FUEL USED:		878	
PREV. DEPTH:	(ft)			RIG::	Cartel/X15			SUPERVISOR:		Craig Borgstede	
PROGRESS:	458 (ft)	WEATHER:						SUPERVISOR PH. #:		601-757-1737	
PRESENT OPERATION:	0.40 No HSEs or Inspections. Drilling Surface Section										
OPERATION FORECAST:	Drill Surface section to TD.TOOH. Run casing to set depth. Pump Surface cement job. Skid to the RG 313-7-297. Spud and drill Surface section.										

CSG / WELL CONTROL				DRLG DATA				DOWNTIME:				BIT RECORD																					
LAST CASING:		20.000(in)		ST WT UP		25.0		PRESS		1,250.00		LOSS TIME (hrs):		0.00		BIT #		1		RPM		0											
DEPTH:		102(ft)		ST WT DN		23.0		RATE		800.0		LOSS TIME INC:		0.00		SIZE		17-1/2 (")		HHP		107.21											
LAST BOP:				ST WT ROT		24.0		DP AV				NEAR MISSES:		0.00		TYPE		SDi616		P BIT		228.08											
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		102.0 (ft)															
CONN:																DEPTH OUT																	
PUMP DATA																																	
PUMP #		MANU				LINER		STROKE				PRESSURE				GPM																	
1		GARDENER-DENVER								11		1,250.00				402.9																	
2		GARDENER-DENVER								11		1,250.00				402.9																	
2		GARDENER-DENVER				6.000				11																							
SURVEY DATA																																	
MD		INCL		AZIM		TVD		N/S(-)		E/W(-)		VS		DLS				I		O		D		L		B		R		G		T	
326.00		4.13		207.81		325.81		-7.25		-4.46		8.43		1.87				1		2		CT		G		X		TD		I		1-2	
234.00		2.42		210.98		233.96		-2.65		-1.92		3.20		1.93																			
142.00		0.66		223.02		142.00		-0.60		-0.56		0.77		0.46																			
0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00																			

MUD ADDITIVES							
PRODUCT	AMOUNT	PRODUCT	AMOUNT	PRODUCT	AMOUNT	PRODUCT	AMOUNT
Third Party Trucking		NP-Lime		NP-NewZan D		NP-NewPHPA	
NP-Sodium Bicarboid		NP-DynaDet E		DES-SAPP Sticks		NP-Super Sweep Fil	
NP-NewGel HY		NP-NewWate 100 lb		NP-Soda Ash		NP-Gypsum	
Tax							

MUD DATA								
MUD TYPE		MW	VISC		ECD	PV/YP /	API WL	HTHP
GELS (/		SOLIDS (%)	LGS (%)		SAND (%)	OIL (%)	MBT	LIME
pH	Pm	Pf	Mf	Cl-	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	394.38	356.00		25.00	23.00	24.0	10.0				
Polycrystalline Diamond Bit	0	1.50	PDC						17.50	0.00	7.63	
Bent Housing	1	30.94	9 5/8" Hybrid						10.25	0.00		
Shock Sub	2	9.39	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	3.10	MTR HRS	3.10									
JAR HRS		MWD Hrs	3.10									

OPERATIONS (00:00)												
OPERATION COMMENT			Prepped and skidded over well center. Spudded in.									
FROM	TO	MD from	MD to	CODE	CLASS	OPERATIONS						
19:00	19:30			01	P	Prep and skid over well center.						
19:30	20:30			06	P	P/U 17 1/2" BHA Components F/ Surf T/102'.						
20:30	00:00	102.00	458.00	02	P	Spud and Drill 17 1/2" hole section F/102' T/458' - 298'(102'/hr) 800 gpm, 1250 psi, 40 rpm, 8-10k torque, 10k WOB. No losses						

24 HOUR SUMMARY												
MD	INC	AZI	TVD	N+/S-	E+/W-	V.S.	DLS					
936	11.69	206.76		929.62	-83.51	-40.23	92.63	1.58				
Projection to Bit:												
MD	INC	AZI	TVD	N+/S-	E+/W-	V.S.	DLS					
SURVEY POSITION RELATIVE TO PLAN: 17.62' Above & 3.35' Right												

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WELL NAME:	RG 314-7-297	AFE #:	220096	AFE \$:	1,586,444	LANDING PNT	102(ft)	REPORT#:	2	DATE:	8/25/2022
FIELD:	RYAN GULCH	SIDETRACK:	00	DAILY COST \$:	164,406	LATERAL SEC:		DFS:	0.92		
EVENT:	DRILLING	LOCATION:		CUM COST \$:	310,447	TD (MD):	1,402.0	LITHOLOGY:			
OBJECTIVE:	DEVELOPMENT	CTY,ST:	RIO BLANCO,COLOR ADO	DAILY MUD	1,644	TD (TVD):	1,385.0	FORMATION:			
ENGINEER:	Dustin Childers	ROT HRS:	9.0	CUM MUD	1,644	SPUD DATE::	8/24/2022	RIG FUEL USED:		2,855	
TODAY'S DEPTH:	1,402 (ft)	CUM ROT:	12.50	+/- PLAN:		RR DATE :		CUM FUEL USED:		3,733	
PREV. DEPTH:	458 (ft)			RIG::	Cartel/X15			SUPERVISOR:		Craig Borgstede	
PROGRESS:	944 (ft)	WEATHER:						SUPERVISOR PH. #:		601-757-1737	
PRESENT OPERATION:	0.92 DFS. No HSEs or Inspections. Rig released.										
OPERATION FORECAST:	Prep and skid to the RG 313-7-297. Spud and drill Surface section.										

CSG / WELL CONTROL		DRLG DATA				DOWNTIME:		BIT RECORD			
LAST CASING:	20.000(in)	ST WT UP	31.0	PRESS	1,600.00	LOSS TIME (hrs):	0.00	BIT #	1	RPM	0
DEPTH:	102(ft)	ST WT DN	28.0	RATE	0.0	LOSS TIME INC:	0.00	SIZE	17-1/2 (")	HHP	104.90
LAST BOP:		ST WT ROT	30.0	DP AV		NEAR MISSES:	0.00	TYPE	SDi616	P BIT	224.80
LOT EMW:		TQ ON BTM	12.0	DC AV		24 HR RIG DOWN:	0.00	JETS	9-15		
WEIGHT LB/FT:		TQ OFF BTM	10.0			CUM RIG DOWN	0.00	DEPTH IN	458.0 (ft)		
CONN:								DEPTH OUT	1,402		
PUMP DATA								ROP-last 24 I	104.9		
PUMP #	MANU	LINER	STROKE	PRESSURE	GPM			CUM. FT	1,300.0		
1	GARDENER-DENVER		11	1,600.00	402.9			CUM. HRS	12.50		
2	GARDENER-DENVER		11	1,600.00	402.9			ROP/Cum-ent	104.9		
2	GARDENER-DENVER	6.000	11					WOB	10.0-10.0		
SURVEY DATA								DULL CONDITION			
MD	INCL	AZIM	TVD	N/S(-)	E/W(-)	VS	DLS	I	O	D	L B R G T
1,329.00	11.95	201.05	1,313.60	-160.12	-73.45	176.14	0.64	1	2	CT	G X TD I 1-2
1,198.00	12.61	198.58	1,185.60	-133.91	-64.03	148.35	1.35				
1,111.00	12.52	203.95	1,100.68	-116.29	-57.17	129.46	1.35				
1,024.00	12.26	209.31	1,015.70	-99.62	-48.82	110.83	0.88				
936.00	11.69	206.76	929.62	-83.51	-40.23	92.63	1.59				

MUD ADDITIVES							
PRODUCT	AMOUNT	PRODUCT	AMOUNT	PRODUCT	AMOUNT	PRODUCT	AMOUNT
Third Party Trucking		NP-Lime		NP-NewZan D	10.00	NP-NewPHPA	
NP-Sodium Bicarb		NP-DynaDet E		DES-SAPP Sticks		NP-Super Sweep Fil	
NP-SAPP	1.00	NP-NewGel HY	22.00	NP-NewWate 100 lb		NP-Soda Ash	
NP-Gypsum	10.00	Tax	43.99	Engineering (Drive-E	1.00		
MUD DATA							
MUD TYPE	WATER BASED MUD	MW	9.40	VISC	28.00	ECD	PV/YP 3.0/1.0
GELS (1.0/2.0		SOLIDS (8.00 (%)		LGS 7.61 (%)		SAND 1.25 (%)	OIL (%)
pH 8.50	Pm 0.05	Pf 0.05		Mf 0.20	Cl- 400	Ca+	K+
CaCl2		ES		HGS 0.37 (%)		Filter Cake 4.0 (32nd")	WTR
CHECK DEPTH	1,402	FL TEMP	85.00	HOLE VOL	0.00	PIT VOL	CLOM (ppm)
							DISEL
							LCM IN
							LCM OUT

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	394.38	944.00		31.00	28.00	30.0	12.0			
Polycrystalline Diamond Bit	0	1.50	PDC						17.50	0.00	7.63
Bent Housing	1	30.94	9 5/8" Hybrid						10.25	0.00	
Shock Sub	2	9.39	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	12.58	MTR HRS	12.58								
JAR HRS		MWD Hrs	12.58								

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	09:00	458.00	1,402.00	02	P	Drill 17 1/2" hole section F/458' T/1402' - 944"(105'/hr) 800 gpm, 1600 psi, 40 rpm, 12k torque, 10k WOB. No losses					
09:00	10:30			05	P	Pump 3-sweep cleanup cycle. Well static.					
10:30	11:30			06	P	TOOH F/1402' T/118'. Well taking proper hole fill.					
11:30	12:00			06	P	TOOH with 17 1/2' BHA F/118' T/ Surf. Well taking proper hole fill.					
12:00	12:30			12	P	R/U casing equipment. Well static.					
12:30	15:00			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, 33 JOINTS OF 13 3/8" 54.5# J-55 BTC WITH THE LAST JOINT TO BE CUT OFF AT GROUND LEVEL FOR A TOTAL OF 34 JOINTS OF SURFACE CASING. SHOE DEPTH AT 1,402.00'. FLOAT COLLAR DEPTH AT 1356.70'. RUN CENTRALIZERS ON THE FIRST THREE JOINTS, THEN 1 CENTRALIZER EVERY FORTH JOINT THEREAFTER FOR A TOTAL OF 11 CENTRALIZERS. BOTTOM CENTRALIZER AT 1,381.00' AND TOP CENTRALIZER AT 121.95'. CEMENT BASKET AT 79.80'. CASING SET DEPTH 1,402.00'.					
15:00	15:30			12	P	R/U cementing equipment. Well static.					
15:30	17:30			12	P	CEMENT SURFACE CASING: TESTED LINES TO 3000 PSI, PUMPED 20 BBLs FRESHWATER SPACER, PUMPED PRIMARY 231.6 BBLs (556 SKS) OF VARICEM AT 12.3 PPG, 2.34 YLD, 13.42 GAL/SK LEAD CEMENT W/ 30% EXCESS. DROPPED PLUG, DISPLACED WITH 207 BBLs OF FRESHWATER W/ 360 PSI LIFT AT 2 BPM. BUMPED PLUG TO 900 PSI. FLOATS HELD. HAD FULL RETURNS THROUGHOUT JOB, 81 BBLs OF CEMENT BACK TO SURFACE.					
17:30	18:00			21	P	Perform casing test 1100 psi (1500 psi downhole equivalent).					
18:00	18:30			12	P	R/D cementing equipment. Cut casing 1" below ground level.					
18:30	18:30			28	P	Release rig.					

24 HOUR SUMMARY

Current Position:
Above/Below Plan: 56.33' Above
Right/Left Plan: 3.05' Right