

Terra Energy Partners  
Piceance Daily Drilling Report

WELL NAME:	RG 311-18-297	AFE #:	220093	AFE \$:	1,586,444	LANDING PNT	102(ft)	REPORT#:	1	DATE:	8/20/2022
FIELD:	RYAN GULCH	SIDETRACK:	00	DAILY COST \$:	153,425	LATERAL SEC:		DFS:	0.48		
EVENT:	DRILLING	LOCATION:		CUM COST \$:	153,425	TD (MD):	1,091.0	LITHOLOGY:			
OBJECTIVE:	DEVELOPMENT	CTY,ST:	RIO BLANCO,COLOR ADO	DAILY MUD	3,270	TD (TVD):	1,071.8	FORMATION:			
ENGINEER:	Dustin Childers	ROT HRS:	10.5	CUM MUD	3,270	SPUD DATE::	8/20/2022	RIG FUEL USED:		1,311	
TODAY'S DEPTH:	1,091 (ft)	CUM ROT:	10.50	+/- PLAN:		RR DATE :		CUM FUEL USED:		1,311	
PREV. DEPTH:	(ft)			RIG::	Cartel/X15			SUPERVISOR:		Craig Borgstede	
PROGRESS:	1,091 (ft)	WEATHER:						SUPERVISOR PH. #:		601-757-1737	
PRESENT OPERATION:	1.48 DFS. No HSEs or Inspections. Running Surface Casing										
OPERATION FORECAST:	Drill Surface section to TD. TOO H. Run casing to set depth. Pump Surface cement job. Skid to the RG 11-18-297. 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	26.0	RATE	800.0	LOSS TIME INC:	0.00	SIZE	17-1/2 (")	HHP	101.48				
LAST BOP:		ST WT ROT	27.0	DP AV		NEAR MISSES:	0.00	TYPE	SDi616	P BIT	217.47				
LOT EMW:		TQ ON BTM	8.0	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	94.2						
PUMP #	MANU		LINER	STROKE	PRESSURE	GPM		CUM. FT	989.0						
1	GARDENER-DENVER			11	1,400.00	383.7		CUM. HRS	10.50						
2	GARDENER-DENVER			11	1,400.00	383.7		ROP/Cum-ent	94.2						
2	GARDENER-DENVER		6.000	11				WOB	6.0-10.0						
SURVEY DATA								DULL CONDITION							
MD	INCL	AZIM	TVD	N/S(-)	E/W(-)	VS	DLS	I	O	D	L	B	R	G	T
980.00	18.15	181.27	966.75	-130.15	-16.35	131.09	3.26	1	1	NO	A	X	TD	I	1-1
893.00	15.64	185.84	883.51	-104.93	-14.86	105.96	1.85								
805.00	14.02	186.46	798.45	-82.54	-12.45	83.47	2.25								
718.00	12.26	190.23	713.73	-62.98	-9.63	63.70	2.86								
631.00	10.20	183.03	628.39	-46.19	-7.58	46.81	1.75								

MUD ADDITIVES							
PRODUCT	AMOUNT	PRODUCT	AMOUNT	PRODUCT	AMOUNT	PRODUCT	AMOUNT
Third Party Trucking		NP-Lime		NP-NewZan D	20.00	NP-NewPHPA	10.00
DES-SAPP Sticks	72.00	NP-Super Sweep Fil		NP-NewGel HY	94.00	NP-NewWate 100 lb	
NP-Soda Ash	3.00	Tax	120.34				

MUD DATA																											
MUD TYPE		WATER BASED MUD		MW		8.90		VISC		40.00		ECD		PV/YP		8.0/16.0		API WL		20.0		HTHP					
GELS (5.0/13.0				SOLIDS I 3.00 ( % )				LGS ( % )				SAND 0.35 ( % )				OIL ( % )				MBT 12.0				LIME			
pH 8.90		Pm 0.13		Pf 0.02		Mf 0.48		Cl- 700		Ca+				K+				POLYMER				0.00					
CaCl2				ES				HGS ( % )				Filter Cake 1.0 (32nd" )				WTR				OIL				LCM IN			
CHECK DEPTH		331		FL TEMP89.00				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	394.06	989.00		28.00	26.00	27.0	8.0				
Polycrystalline Diamond Bit	0	1.50	PDC						17.50	0.00	7.63	
Bent Housing	1	30.00	9 5/8" Hybrid						10.25	0.00		
Shock Sub	2	10.01	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	9.27	MTR HRS	9.27									
JAR HRS		MWD Hrs	9.27									

OPERATIONS (00:00)												
OPERATION COMMENT			Skidded over well center. P/U BHA. Spudded in.									
FROM	TO	MD from	MD to	CODE	CLASS	OPERATIONS						
11:00	11:30			01	P	Prep and Skid over well center.						
11:30	12:30			06	P	P/U 17 1/2" BHA components.						
12:30	14:00	102.00	208.00	02	P	Spud and Drill 17 1/2" hole section F/102' T/208' - 106'(71'/hr) 800 gpm, 800 psi, 30 rpm, 6-8k torque, 6k WOB. No losses						
14:00	14:30			20	T	TOOH F/208' T/ Surf due to MWD operation issue.						
14:30	15:00			20	T	Reprogram MWD tools due to a corrupt file detected in the program. TIH F/Surf T/208'.						
15:00	00:00	208.00	1,091.00	02	P	Drill 17 1/2" hole section F/208' T/1091' - 883'(98'/hr) 800 gpm, 1400 psi, 30 rpm, 8k torque, 6-10k WOB. No losses						

24 HOUR SUMMARY												
Current Position: Above/Below Plan: 2.82' Above Right/Left Plan: 4.59' Left												

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Piceance Daily Drilling Report

WELL NAME:	RG 311-18-297	AFE #:	220093	AFE \$:	1,586,444	LANDING PNT	102(ft)	REPORT#:	2	DATE:	8/21/2022
FIELD:	RYAN GULCH	SIDETRACK:	00	DAILY COST \$:	154,839	LATERAL SEC:		DFS:	1.00		
EVENT:	DRILLING	LOCATION:		CUM COST \$:	308,264	TD (MD):	1,384.0	LITHOLOGY:			
OBJECTIVE:	DEVELOPMENT	CTY,ST:	RIO BLANCO,COLOR ADO	DAILY MUD	3,178	TD (TVD):	1,349.9	FORMATION:			
ENGINEER:	Dustin Childers	ROT HRS:	3.0	CUM MUD	6,448	SPUD DATE::	8/20/2022	RIG FUEL USED:		2,423	
TODAY'S DEPTH:	1,384 (ft)	CUM ROT:	13.50	+/- PLAN:		RR DATE :		CUM FUEL USED:		3,734	
PREV. DEPTH:	1,091 (ft)			RIG::	Cartel/X15			SUPERVISOR:		Craig Borgstede	
PROGRESS:	293 (ft)	WEATHER:						SUPERVISOR PH. #:		601-757-1737	
PRESENT OPERATION:	1.0 DFS. No HSEs or Inspections. Rig released										
OPERATION FORECAST:	Run casing to set depth. Pump Surface cement job. Skid to the RG 11-18-297. Spud and drill Surface section.										

CSG / WELL CONTROL		DRLG DATA				DOWNTIME:		BIT RECORD							
LAST CASING:	20.000(in)	ST WT UP	31.0	PRESS	1,500.00	LOSS TIME (hrs):	0.00	BIT #	1	RPM	0				
DEPTH:	102(ft)	ST WT DN	28.0	RATE	800.0	LOSS TIME INC:	0.00	SIZE	17-1/2 (")	HHP	90.60				
LAST BOP:		ST WT ROT	29.0	DP AV		NEAR MISSES:	0.00	TYPE	SDi616	P BIT	202.38				
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	1,091.0 (ft)						
CONN:								DEPTH OUT	1,384						
PUMP DATA								ROP-last 24 I				97.7			
PUMP #	MANU		LINER		STROKE	PRESSURE	GPM	CUM. FT	1,282.0						
1	GARDENER-DENVER				11	1,500.00	383.7	CUM. HRS	13.50						
2	GARDENER-DENVER				11	1,500.00	383.7	ROP/Cum-ent	97.7						
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
1,285.00	18.59	187.86	1,256.02	-226.32	-25.78	227.54	0.83	1	1	NO	A	X	TD	I	1-1
1,242.00	18.46	186.81	1,215.25	-212.77	-24.03	213.88	0.74								
1,154.00	17.84	187.42	1,131.63	-185.57	-20.64	186.49	1.98								
1,067.00	19.29	184.52	1,049.15	-158.03	-17.79	158.84	1.78								
980.00	18.15	181.27	966.75	-130.15	-16.35	131.09	3.26								

MUD ADDITIVES							
PRODUCT	AMOUNT	PRODUCT	AMOUNT	PRODUCT	AMOUNT	PRODUCT	AMOUNT
Third Party Trucking		NP-Lime	2.00	NP-NewZan D	22.00	NP-NewPHPA	9.00
DES-SAPP Sticks	72.00	NP-Super Sweep Fil	1.00	NP-NewGel HY	48.00	NP-NewWate 100 lb	
NP-Soda Ash	4.00	Tax	122.23				

MUD DATA													
MUD TYPE	WATER BASED MUD	MW	9.60	VISC	40.00	ECD	PV/YP	9.0/17.0	API WL	24.0	HTHP		
GELS (6.0/15.0		SOLIDS I	8.00 (%)	LGS	6.46 (%)	SAND	1.00 (%)	OIL	(%)	MBT	22.5	LIME	
pH	9.10	Pm	0.30	Pf	0.08	Mf	0.69	Cl-	700	Ca+		POLYMER	0.00
CaCl2		ES		HGS	1.50 (%)	Filter Cake	1.0 (32nd")	WTR		OIL		LCM IN	
CHECK DEPTH	1,380	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	394.06	293.00		31.00	28.00	29.0	10.0			
Polycrystalline Diamond Bit	0	1.50	PDC						17.50	0.00	7.63
Bent Housing	1	30.00	9 5/8" Hybrid						10.25	0.00	
Shock Sub	2	10.01	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 0.00MTR HRS 0.00

JAR HRSMWD Hrs 0.00

OPERATIONS (00:00)											
OPERATION COMMENT		Drilled Surface section to TD.									
FROM	TO	MD from	MD to	CODE	CLASS	OPERATIONS					
00:00	03:00	1,091.00	1,384.00	02	P	Drill 17 1/2" hole section F/1091' T/1384' - 293'(98'/hr) 800 gpm, 1500 psi, 30 rpm, 10-12k torque, 10k WOB. No losses					
03:00	03:30			05	P	Pump 3-sweep cleanup cycle. Well static					
03:30	04:30			06	P	TOOH F/1384' T/118'. Well taking proper hole fill.					
04:30	05:30			06	P	TOOH with BHA F/118' T/ Surf. Well taking proper hole fill.					
05:30	06:00			12	P	R/U casing equipment. Well static.					
06:00	08:30			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 1,374.00'. FLOAT COLLAR DEPTH AT 1332.69'. RUN CENTRALIZERS ON THE FIRST THREE JOINTS, THEN 1 CENTRALIZER EVERY FORTH JOINT THEREAFTER FOR A TOTAL OF 10 CENTRALIZERS. BOTTOM CENTRALIZER AT 1,353.00' AND TOP CENTRALIZER AT 110.45'. CEMENT BASKET AT 110.45'. CASING SET DEPTH 1,374.00'.					
08:30	09:00			05	P	Circulate with casing at set depth. Well static.					
09:00	09:30			12	P	R/U cementing equipment. Well static.					
09:30	11:30			12	P	CEMENT SURFACE CASING: TESTED LINES TO 3000 PSI, PUMPED 20 BBLs FRESHWATER SPACER, PUMPED PRIMARY 245.3 BBLs (589 SKS) OF VARICEM AT 12.3 PPG, 2.34 YLD, 13.42 GAL/SK LEAD CEMENT W/ 40% EXCESS. DROPPED PLUG, DISPLACED WITH 205 BBLs OF FRESHWATER W/ 437 PSI LIFT AT 4 BPM. BUMPED PLUG TO 942 PSI. FLOATS HELD. HAD FULL RETURNS THROUGHOUT JOB, 106 BBLs OF CEMENT BACK TO SURFACE.					
11:30	12:00			21	P	Perform casing test to 1100 psi (1500 psi downhole equivalent).					
12:00	12:30			12	P	R/D cementing equipment. L/D Landing joint.					
12:30	12:30			28	P	Release rig.					

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24 HOUR SUMMARY

Current Position:  
Above/Below Plan: .08' Below  
Right/Left Plan: 10.6' Left