

Terra Energy Partners																																					
Piceance Daily Drilling Report																																					
WELL NAME:	RG 412-7-297		AFE #:	220098		AFE \$:	1,586,444		LANDING PNT	102(ft)		REPORT#:	1		DATE:	8/29/2022																					
FIELD:	RYAN GULCH		SIDETRACK:	00		DAILY COST \$:	166,678		LATERAL SEC:			DFS:	0.60																								
EVENT:	DRILLING		LOCATION:			CUM COST \$:	166,678		TD (MD):	956.0		LITHOLOGY:																									
OBJECTIVE:	DEVELOPMENT		CTY,ST:	RIO BLANCO,COLOR ADO		DAILY MUD	2,779		TD (TVD):	947.3		FORMATION:																									
ENGINEER:	Dustin Childers		ROT HRS:	10.0		CUM MUD	2,779		SPUD DATE::	8/29/2022		RIG FUEL USED:		1,477																							
TODAY'S DEPTH:		956 (ft)		CUM ROT:		10.00		+/- PLAN:				RR DATE :				CUM FUEL USED:		1,477																			
PREV. DEPTH:		(ft)						RIG::		Cartel/X15				SUPERVISOR:		Craig Borgstede																					
PROGRESS:		956 (ft)		WEATHER:										SUPERVISOR PH. #:		601-757-1737																					
PRESENT OPERATION:		0.85 DFS. No HSEs or Inspections. TOO.H.																																			
OPERATION FORECAST:		Run Surface casing to set depth. Pump Surface cement job. Perform casing test. Cut casing. Release rig.																																			
CSG / WELL CONTROL			DRLG DATA				DOWNTIME:				BIT RECORD																										
LAST CASING:		20.000(in)		ST WT UP		18.0		PRESS		1,000.00		LOSS TIME (hrs):		0.00		BIT #		2		RPM		0															
DEPTH:		102(ft)		ST WT DN		16.0		RATE		800.0		LOSS TIME INC:		0.00		SIZE		17-1/2 (")		HHP		108.38															
LAST BOP:				ST WT ROT		17.0		DP AV				NEAR MISSES:		0.00		TYPE		SDI616		P BIT		230.56															
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		698.0 (ft)																			
CONN:																DEPTH OUT																					
PUMP DATA																																					
PUMP #		MANU			LINER			STROKE			PRESSURE			GPM			ROP-last 24 I		103.2																		
1		GARDENER-DENVER						11			1,300.00			402.9			CUM. FT		258.0																		
2		GARDENER-DENVER						11			1,300.00			402.9			CUM. HRS		2.50																		
2		GARDENER-DENVER			6.000			11									ROP/Cum-ent		103.2																		
SURVEY DATA																																					
MD		INCL		AZIM		TVD		N/S(-)		E/W(-)		VS		DLS		I		O		D		L		B		R		G		T							
847.00		11.87		346.68		840.71		82.09		-16.57		83.55		0.31		3		1		ER		N		X		TD		I		3-1							
760.00		11.60		346.77		755.53		64.87		-12.51		65.86		1.76																							
673.00		10.15		344.13		670.10		48.98		-8.41		49.46		1.40																							
585.00		8.92		344.66		583.31		34.94		-4.48		34.88		2.59																							
498.00		6.70		347.50		497.12		23.48		-1.60		23.06		2.10																							
MUD ADDITIVES																																					
PRODUCT		AMOUNT			PRODUCT			AMOUNT			PRODUCT			AMOUNT			PRODUCT			AMOUNT																	
Third Party Trucking					NP-Lime			4.00			NP-NewZan D			13.00			NP-DynaDet E			1.00																	
NP-NewPHPA		2.00			NP-Sodium Bicarboi						NP-Walnut Shell M			3.00			DES-SAPP Sticks																				
NP-Super Sweep Fil					NP-SAPP						NP-NewGel HY			123.00			NP-NewWate 100 lb																				
NP-Soda Ash					NP-Gypsum						Tax			87.66			Engineering (Drive-E			1.00																	
MUD DATA																																					
MUD TYPE		WATER BASED MUD			MW			9.30			VISC			32.00			ECD			PV/YP			4.0/6.0			API WL			48.0			HTHP					
GELS (2.0/3.0					SOLIDS ( 7.00 (%) )			LGS			6.69 (%) )			SAND			1.50 (%) )			OIL			(%) )			MBT			20.0			LIME					
pH 8.00		Pm 0.05			Pf			0.05			Mf			0.25			Cl-			1300			Ca+						K+			POLYMER			0.00		
CaCl2					ES						HGS			0.24 (%) )			Filter Cake 4.0 (32nd" )			WTR						OIL						LCM IN					
CHECK DEPTH		300			FL TEMP			80.00			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															
		2		392.09		258.00				22.00		20.00		21.0		10.0																					
Polycrystalline Diamond Bit		0		1.50		PDC												17.50		0.00		7.63															
Bent Housing		1		30.82		9 5/8" Hybrid												10.25		0.00																	
Shock Sub		2		9.34		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		5.43		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		2.50		MTR HRS		2.50																															
JAR HRS				MWD Hrs		2.50																															
OPERATIONS (00:00)																																					
OPERATION COMMENT				Skidded over well center. Skidded and spudded in. Drilled Surface section to TD. Pumped cleanup cycle.																																	
FROM	TO	MD from	MD to	CODE	CLASS	OPERATIONS																															
08:00	08:30			01	P	Prep and skid over well center.																															
08:30	09:30			06	P	P/U 17 1/2" BHA Components F/ Surf T/102'.																															
09:30	17:00	102.00	698.00	02	P	Spud and Drill 17 1/2" hole section F/102' T/698' - 596'(79'/hr) 800 gpm, 1000 psi, 35 rpm, 8-10k torque, 6-10k WOB. No losses. Note: Observed leak at saver sub connection. Decision was made to change out saver sub.																															
17:00	18:00			08	T	C/O saver sub. Well static.																															
18:00	19:30			06	U	Observed abnormal standpipe pressure. Decision was made to TOO.H. TOO.H F/698' T/ Surf. Well taking proper hole fill.																															
19:30	20:00			06	U	C/O mud motor and shock sub. Well static. Observed that 2 bit jets were plugged.																															
20:00	21:30			06	U	TIH F/ Surf T/698'. Well giving proper displacement.																															
21:30	00:00	698.00	956.00	02	P	Drill 17 1/2" hole section F/698' T/956' - 258'(103'/hr) 800 gpm, 1300 psi, 35 rpm, 8-10k torque, 8-10k WOB. No losses.																															
24 HOUR SUMMARY																																					
Current Position: Above/Below Plan: 2.89' Below Right/Left Plan: 5.81' Right																																					

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Piceance Daily Drilling Report																															
WELL NAME:	RG 412-7-297		AFE #:	220098		AFE \$:	1,586,444		LANDING PNT	102(ft)		REPORT#:	2		DATE:	8/30/2022															
FIELD:	RYAN GULCH		SIDETRACK:	00		DAILY COST \$:	163,653		LATERAL SEC:			DFS:	1.25																		
EVENT:	DRILLING		LOCATION:			CUM COST \$:	330,331		TD (MD):	1,490.0		LITHOLOGY:																			
OBJECTIVE:	DEVELOPMENT		CTY,ST:	RIO BLANCO,COLORADO		DAILY MUD	1,273		TD (TVD):	1,469.1		FORMATION:																			
ENGINEER:	Dustin Childers		ROT HRS:	5.5		CUM MUD	4,053		SPUD DATE::	8/29/2022		RIG FUEL USED:		1,393																	
TODAY'S DEPTH:		1,490 (ft)		CUM ROT:		15.50		+/- PLAN:				RR DATE :				CUM FUEL USED:		2,870													
PREV. DEPTH:		956 (ft)						RIG::		Cartel/X15		SUPERVISOR:		Craig Borgstede																	
PROGRESS:		534 (ft)		WEATHER:								SUPERVISOR PH. #:		601-757-1737																	
PRESENT OPERATION:		1.25 DFS. No HSEs or Inspections. Rig released																													
OPERATION FORECAST:		Prep and skid to the RG 312-7-297. Spud and drill Surface section.																													
CSG / WELL CONTROL			DRLG DATA				DOWNTIME:				BIT RECORD																				
LAST CASING:		20.000(in)		ST WT UP		32.0		PRESS		1,500.00		LOSS TIME (hrs):		0.00		BIT #		2		RPM		0									
DEPTH:		102(ft)		ST WT DN		30.0		RATE		402.9		LOSS TIME INC:		0.00		SIZE		17-1/2 (")		HHP		108.38									
LAST BOP:				ST WT ROT		31.0		DP AV				NEAR MISSES:		0.00		TYPE		SDI616		P BIT		230.56									
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		956.0 (ft)													
CONN:																DEPTH OUT															
PUMP DATA																															
PUMP #		MANU			LINER		STROKE		PRESSURE		GPM		ROP-last 24 I		97.1																
1		GARDENER-DENVER					11		1,500.00		402.9		CUM. FT		792.0																
2		GARDENER-DENVER					11		1,500.00		402.9		CUM. HRS		8.00																
2		GARDENER-DENVER			6.000		11						ROP/Cum-ent		97.1																
SURVEY DATA																															
MD		INCL		AZIM		TVD		N/S(-)		E/W(-)		VS		DLS		I		O		D		L		B		R		G		T	
1,414.00		11.60		342.99		1,394.69		197.35		-52.43		204.19		0.90		3		1		ER		N		X		TD		I		3-1	
1,414.00		11.60		342.99		1,394.69		197.35		-52.43		204.19		0.90																	
1,283.00		12.57		339.74		1,266.59		171.38		-43.64		176.82		0.20																	
1,283.00		12.57		339.74		1,266.59		171.38		-43.64		176.82		0.20																	
1,196.00		12.61		340.53		1,181.69		153.54		-37.20		157.91		0.49																	
MUD ADDITIVES																															
PRODUCT		AMOUNT		PRODUCT		AMOUNT		PRODUCT		AMOUNT		PRODUCT		AMOUNT																	
Third Party Trucking				NP-Lime				NP-NewZan D		9.00		NP-DynaDet E																			
NP-NewPHPA		1.00		NP-Sodium Bicarboi				NP-Walnut Shell M		2.00		DES-SAPP Sticks																			
NP-Super Sweep Fil				NP-SAPP				NP-NewGel HY		54.00		NP-NewWate 100 lb																			
NP-Soda Ash				NP-Gypsum				Tax		48.98		Engineering (Drive-E																			
MUD DATA																															
MUD TYPE		WATER BASED MUD		MW		9.30		VISC		32.00		ECD		PV/YP		4.0/6.0		API WL		48.0		HTHP									
GELS (2.0/3.0				SOLIDS ( 7.00 (%) )		LGS		6.69 (%) )		SAND		1.50 (%) )		OIL		(%) )		MBT		20.0		LIME									
pH 8.00		Pm 0.05		Pf 0.05		Mf 0.25		Cl- 1300		Ca+		K+		POLYMER		0.00															
CaCl2				ES		HGS		0.24 (%) )		Filter Cake 4.0 (32nd" )		WTR		OIL		LCM IN															
CHECK DEPTH		300		FL TEMP80.00		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									
		2		392.09		534.00				32.00		30.00		31.0		12.0															
BHA HRS		8.15		MTR HRS		8.15																									
JAR HRS				MWD Hrs		8.15																									
OPERATIONS (00:00)																															
OPERATION COMMENT				Ran Surface casing to set depth. Pumped Surface cement job. Performed casing test. Cut casing.																											
FROM	TO	MD from	MD to	CODE	CLASS	OPERATIONS																									
00:00	05:30	956.00	1,490.00	02	P	Drill 17 1/2" hole section F/956' T/1490' - 534'(97"/hr) 800 gpm, 1500 psi, 35 rpm, 9-12k torque, 10k WOB. No losses.																									
05:30	06:30			05	P	Pump cleanup cycle. Well static.																									
06:30	07:30			06	P	TOOH F/1490' T/118'. Well taking proper hole fill.																									
07:30	08:30			06	P	TOOH with 17 1/2' BHA F/118' T/ Surf. Well taking proper hole fill.																									
08:30	09:00			12	P	R/U casing equipment. Well static.																									
09:00	12:00			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, 35 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 36 JOINTS OF SURFACE CASING. SHOE DEPTH AT 1,490.00'. FLOAT COLLAR DEPTH AT 1469.46'. RUN CENTRALIZERS ON THE FIRST THREE JOINTS, THEN 1 CENTRALIZER EVERY FORTH JOINT THEREAFTER FOR A TOTAL OF 10 CENTRALIZERS. BOTTOM CENTRALIZER AT 1,482.00' AND TOP CENTRALIZER AT 205.55'. CEMENT BASKET AT 79.22'. CASING SET DEPTH 1,490.00'.																									
12:00	12:30			12	P	R/U cementing equipment. Well static.																									
12:30	14:30			12	P	CEMENT SURFACE CASING: TESTED LINES TO 3000 PSI, PUMPED 20 BBLS FRESHWATER SPACER, PUMPED PRIMARY 225.7 BBLS (542 SKS) OF VARICEM AT 12.3 PPG, 2.34 YLD, 13.42 GAL/SK LEAD CEMENT W/ 20% EXCESS. DROPPED PLUG, DISPLACED WITH 230 BBLS OF FRESHWATER W/ 414 PSI LIFT AT 2 BPM. BUMPED PLUG TO 1120 PSI. FLOATS HELD. HAD FULL RETURNS THROUGHOUT JOB, 8 BBLS OF CEMENT BACK TO SURFACE.																									
14:30	15:00			21	P	Perform casing test 1100 psi (1500 psi downhole equivalent).																									
15:00	15:30			12	P	R/D cementing equipment. Cut casing 1" below ground level.																									
15:30	15:30			28	P	Release rig.																									
24 HOUR SUMMARY																															
Current Position: Above/Below Plan: 17.11' Above Right/Left Plan: 1.81' Right																															