

Terra Energy Partners

Piceance Daily Drilling Report

WELL NAME:	RG 514-7-297	AFE #:	220102	AFE \$:	1,586,444	LANDING PNT	102(ft)	REPORT#:	1	DATE:	8/22/2022
FIELD:	RYAN GULCH	SIDETRACK:	00	DAILY COST \$:	145,067	LATERAL SEC:		DFS:	0.31		
EVENT:	DRILLING	LOCATION:		CUM COST \$:	145,067	TD (MD):	830.0	LITHOLOGY:			
OBJECTIVE:	DEVELOPMENT	CTY,ST:	RIO BLANCO,COLOR ADO	DAILY MUD	0	TD (TVD):	823.6	FORMATION:			
ENGINEER:	Dustin Childers	ROT HRS:	7.5	CUM MUD	0	SPUD DATE::	8/22/2022	RIG FUEL USED:		1,025	
TODAY'S DEPTH:	830 (ft)	CUM ROT:	7.50	+/- PLAN:		RR DATE :		CUM FUEL USED:		1,025	
PREV. DEPTH:	(ft)			RIG::	Cartel/X15			SUPERVISOR:		Craig Borgstede	
PROGRESS:	830 (ft)	WEATHER:						SUPERVISOR PH. #:		601-757-1737	
PRESENT OPERATION:	0.56 DFS. No HSEs or Inspections. Drilling Surface section										
OPERATION FORECAST:	TOOH. Run casing to set depth. Pump Surface cement job. Skid to the RG 414-7-297. Spud and drill Surface section.										

CSG / WELL CONTROL			DRLG DATA				DOWNTIME:		BIT RECORD						
LAST CASING:	20.000(in)	ST WT UP	26.0	PRESS	1,500.00	LOSS TIME (hrs):	0.00	BIT #	1	RPM	0				
DEPTH:	102(ft)	ST WT DN	24.0	RATE	800.0	LOSS TIME INC:	0.00	SIZE	17-1/2 (")	HHP	106.04				
LAST BOP:		ST WT ROT	25.0	DP AV		NEAR MISSES:	0.00	TYPE	SDi616	P BIT	225.60				
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	102.0 (ft)						
CONN:								DEPTH OUT							
PUMP DATA								ROP-last 24 I	97.1						
PUMP #	MANU		LINER	STROKE	PRESSURE	GPM		CUM. FT	728.0						
1	GARDENER-DENVER			11	1,500.00	402.9		CUM. HRS	7.50						
2	GARDENER-DENVER			11	1,500.00	402.9		ROP/Cum-ent	97.1						
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
762.00	12.35	190.41	757.29	-61.96	-20.50	65.02	2.52	1	1	NO	A	X	TD	I	1-1
675.00	10.46	196.04	672.01	-45.22	-16.64	47.83	1.41								
588.00	9.23	196.12	586.29	-30.93	-12.52	32.98	2.31								
500.00	7.20	196.00	499.20	-18.84	-9.04	20.42	3.08								
413.00	5.14	212.21	412.70	-10.30	-5.46	11.28	2.48								

MUD ADDITIVES							
PRODUCT	AMOUNT	PRODUCT	AMOUNT	PRODUCT	AMOUNT	PRODUCT	AMOUNT
Third Party Trucking		NP-Lime		NP-NewZan D		NP-NewPHPA	
NP-DynaDet E		DES-SAPP Sticks		NP-Super Sweep Fil		NP-NewGel HY	
NP-NewWate 100 lb		NP-Soda Ash		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	728.00		26.00	24.00	25.0	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 6.28	MTR HRS 6.28											
JAR HRS	MWD Hrs 6.28											

OPERATIONS (00:00)												
OPERATION COMMENT			Drilled Surface section to TD.									
FROM	TO	MD from	MD to	CODE	CLASS	OPERATIONS						
14:30	15:30			01	P	Prep and skid rig over well center.						
15:30	16:30			06	P	P/U 17 1/2" BHA components F/ Surf T/102'.						
16:30	00:00	102.00	830.00	02	P	Spud and Drill 17 1/2" hole section F/102' T/830' - 728'(97'/hr) 800 gpm, 1500 psi, 40 rpm, 10k torque, 8-10k WOB. No losses						

24 HOUR SUMMARY												

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Piceance Daily Drilling Report

WELL NAME:	RG 514-7-297	AFE #:	220102	AFE \$:	1,586,444	LANDING PNT	102(ft)	REPORT#:	2	DATE:	8/23/2022
FIELD:	RYAN GULCH	SIDETRACK:	00	DAILY COST \$:	168,393	LATERAL SEC:		DFS:	1.10		
EVENT:	DRILLING	LOCATION:		CUM COST \$:	313,460	TD (MD):	1,386.0	LITHOLOGY:			
OBJECTIVE:	DEVELOPMENT	CTY,ST:	RIO BLANCO,COLOR ADO	DAILY MUD	2,050	TD (TVD):	1,365.2	FORMATION:			
ENGINEER:	Dustin Childers	ROT HRS:	6.5	CUM MUD	2,050	SPUD DATE::	8/22/2022	RIG FUEL USED:		2,114	
TODAY'S DEPTH:	1,386 (ft)	CUM ROT:	14.00	+/- PLAN:		RR DATE :		CUM FUEL USED:		3,139	
PREV. DEPTH:	830 (ft)			RIG::	Cartel/X15			SUPERVISOR:		Craig Borgstede	
PROGRESS:	556 (ft)	WEATHER:						SUPERVISOR PH. #:		601-757-1737	
PRESENT OPERATION:	1.10 DFS. No HSEs. County Inspection. Rig released										
OPERATION FORECAST:	Prep and skid to the RG 414-7-297.										

CSG / WELL CONTROL			DRLG DATA				DOWNTIME:		BIT RECORD						
LAST CASING:	20.000(in)	ST WT UP	28.0	PRESS	1,600.00	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	104.88				
LAST BOP:		ST WT ROT	27.0	DP AV		NEAR MISSES:	0.00	TYPE	SDi616	P BIT	223.12				
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	830.0 (ft)						
CONN:								DEPTH OUT	1,386						
PUMP DATA								ROP-last 24 I	85.5						
PUMP #	MANU		LINER	STROKE	PRESSURE	GPM		CUM. FT	1,284.0						
1	GARDENER-DENVER			11	1,600.00	402.9		CUM. HRS	14.00						
2	GARDENER-DENVER			11	1,600.00	402.9		ROP/Cum-ent	85.5						
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
1,286.00	13.32	195.51	1,267.86	-177.72	-42.10	182.64	2.21	1	1	NO	A	X	TD	I	1-1
1,198.00	12.70	187.33	1,182.11	-158.36	-38.16	162.89	0.31								
1,111.00	12.43	187.42	1,097.19	-139.59	-35.73	144.06	1.74								
1,024.00	13.40	192.61	1,012.39	-120.46	-32.32	124.67	0.22								
936.00	13.58	192.34	926.82	-100.42	-27.88	104.14	0.81								

MUD ADDITIVES											
PRODUCT		AMOUNT		PRODUCT		AMOUNT		PRODUCT		AMOUNT	
Third Party Trucking		475.00		NP-Lime				NP-NewZan D		5.00	
NP-DynaDet E				NP-Sodium Bicarboi		3.00		DES-SAPP Sticks			
NP-NewGel HY		81.00		NP-NewWate 100 lb				NP-Soda Ash		2.00	
NP-Gypsum		60.00								Tax	
MUD DATA											
MUD TYPE		WATER BASED MUD		MW 9.20		VISC 36.00		ECD		PV/YP 6.0/12.0	
										API WL 24.0	
										HTHP	
GELS (4.0/5.0				SOLIDS (6.50 (%)				LGS 6.48 (%)			
pH 9.10				Pm 0.13				Pf 0.02			
								Mf 0.52			
CaCl2				ES				HGS 0.00 (%)			
CHECK DEPTH				1,386				FL TEMP			
								HOLE VOL			
								PIT VOL			
								CLOM (ppm)			
								DISEL			
								LCM IN			
								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	556.00		28.00	25.00	27.0	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	13.18	MTR HRS	13.18								
JAR HRS		MWD Hrs	13.18								

OPERATIONS (00:00)											
OPERATION COMMENT			TOOH. Run casing to set depth. Pump Surface cement job.								
FROM	TO	MD from	MD to	CODE	CLASS	OPERATIONS					
00:00	06:30	830.00	1,386.00	02	P	Drill 17 1/2" hole section F/830' T/1386' - 556'(86'/hr) 800 gpm, 1600 psi, 40 rpm, 12k torque, 10k WOB. No losses					
06:30	07:30			05	P	Pump 3-sweep cleanup cycle. Well static.					
07:30	08:30			06	P	TOOH F/1386' T/118'. Well taking proper hole fill.					
08:30	09:30			06	P	TOOH with 17 1/2' BHA F/118' T/ Surf. Well taking proper hole fill.					
09:30	10:00			12	P	R/U casing equipment. Well static.					
10:00	11:00			12	P	RUN 13 3/8" 54.5# J-55 BTC SURFACE CASING F/ Surf T/750'. Well giving proper displacement.					
11:00	12:00			21	T	Troubleshoot and swap out casing power pack.					
12:00	15:30			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, 32 JOINTS OF 13 3/8" 54.5# J-55 BTC TO BE CUT OFF AT GROUND LEVEL FOR A TOTAL OF 33 JOINTS OF SURFACE CASING. SHOE DEPTH AT 1,386.00'. FLOAT COLLAR DEPTH AT 1340.40'. RUN CENTRALIZERS ON THE FIRST THREE JOINTS, THEN 1 CENTRALIZER EVERY FORTH JOINT THEREAFTER FOR A TOTAL OF 10 CENTRALIZERS. BOTTOM CENTRALIZER AT 1,365.00' AND TOP CENTRALIZER AT 118.32'. CEMENT BASKET AT 118.32'. CASING SET DEPTH 1,386.00'.					
15:30	16:00			12	P	R/U cementing equipment. Well static.					
16:00	18:00			12	P	CEMENT SURFACE CASING: TESTED LINES TO 3985 PSI, PUMPED 20 BBLs FRESHWATER SPACER, PUMPED PRIMARY 230.7 BBLs (554 SKS) OF VARICEM AT 12.3 PPG, 2.34 YLD, 13.42 GAL/SK LEAD CEMENT W/ 30% EXCESS. DROPPED PLUG, DISPLACED WITH 206 BBLs OF FRESHWATER W/ 375 PSI LIFT AT 2 BPM. BUMPED PLUG TO 940 PSI. FLOATS HELD. HAD FULL RETURNS THROUGHOUT JOB, 88 BBLs OF CEMENT BACK TO SURFACE.					
18:00	18:30			21	P	Attempt to perform casing test 1100 psi (1500 psi downhole equivalent). Note: Unable to perform casing test due to leak on pump truck.					
18:30	19:00			12	P	R/D cementing equipment. Cut casing 1" below ground level.					
19:00	19:00			28	P	Release rig.					

24 HOUR SUMMARY