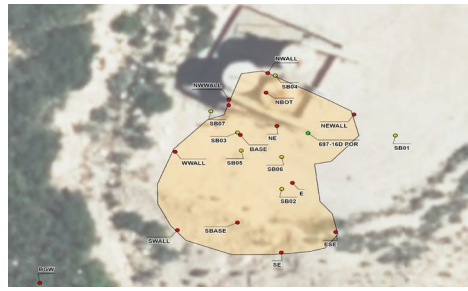




Laramie Energy
1700 Lincoln Street
Denver, CO 80203

697-16D

SB01



Date Started : 3/9/2022
Detector : MiniRae PID
Hole Diameter : 4"
Drilling Method : Solid Stem Auger
Sampling Method : Split Spoon
Drilling Company : CO Drilling and Sampling
Latitude : 39.5164851
Longitude : -108.2232399
Project Number : 022-017
Logged By : R. Johnson

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture (%)	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Blow Count
0			0-5: Rocky Drilling							
5	GC		5-7: Brown clayey and sandy gravel.	30	40	M	1.1	N	18	6,7,18
10	GC		10-12: Brown clayey and sandy gravel into cobble at base.	70	50	M	2.2	N	16	8,8,9
15	GC		15-17: Brown clayey gravel.	60	30	M	1.6	N	18	5,5,5,5
20	CL		20-22: 10" gravelly clay into 10" clayey gravel. Moist.	60	40	M	3.3	N	20	6,8,14
25	GC		25-27: Brown sandy and gravelly clay. Moist. No odor.	60	40	M	6.2	N	24	5,6,7
			TD at 27'							



Laramie Energy
1700 Lincoln Street
Denver, CO 80203

697-16D

SB02



Date Started : 3/9/2022
 Detector : MiniRae PID
 Hole Diameter : 4"
 Drilling Method : Solid Stem Auger
 Sampling Method : Split Spoon
 Drilling Company : CO Drilling and Sampling
 Latitude : 39.5164851
 Longitude : -108.2232399
 Project Number : 022-017
 Logged By : R. Johnson

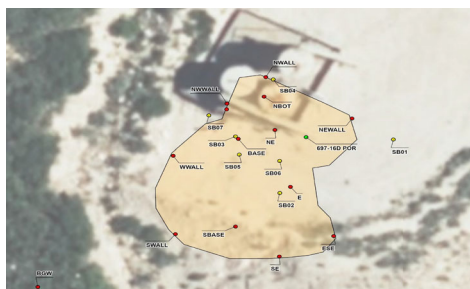
Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture (%)	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Blow Count
0										
5	CL		5-7: Brown gravelly clay.	70	70	M	0.7	N	18	4,4,5
10	CL		10-12: Brown gravelly clay. Moist.	70	70	M	4.8	N	10	4,4,19
15	CL		15-17: Brown gravelly clay. Very moist.	70	70	M	1.6	N	20	3,3,4
20	CL		20-22: Brown gravelly clay. Very Moist. Soft. Very soft drilling.	70	70	M	2.9	N	10	3,3,1,1
25	GC		25-27: Brown sandy and clayey gravel. Shale pieces. Very slightly moist.	40	30	M	2.3	N	16	9,7,6,5
			TD at 27'							



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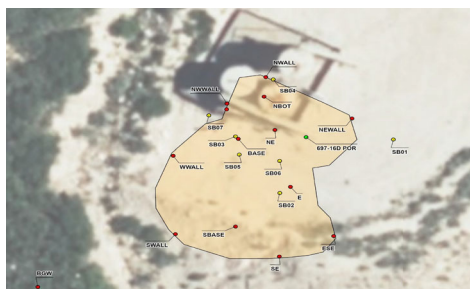
697-16D

SB03








Date Started : 3/9/2022
Detector : MiniRae PID
Hole Diameter : 4"
Drilling Method : Solid Stem Auger
Sampling Method : Split Spoon
Drilling Company : CO Drilling and Sampling
Latitude : 39.5164898
Longitude : -108.2234313
Project Number : 022-017
Logged By : R. Johnson

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture (%)	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Blow Count
0										
5	CL		5-7: Brown gravelly and sandy clay. Possible hydrocarbon odor.	70	50	M	84.5	N	12	3,3,5
10	CL		10-12: Brown clayey gravel. Possible slight odor. Moist.	80	50	M	28.7	N	16	3,3,3
15	CL		15-17: Brown gravelly and sandy clay. Moist with dry patches.	60	60	M	108	N	16	3,3,4,6
20	CL		20-22: Brown to tan clayey gravel. Slight odor, possible stain.	70	50	M	155	Y	20	4,5,7,7
25	GC		25-27: Brown to tan gravelly clay. No odor.	70	70	M	45.5	N	16	6,3,3,11
			TD at 27'							



Date Started	: 3/9/2022
Detector	: MiniRae PID
Hole Diameter	: 4"
Drilling Method	: Solid Stem Auger
Sampling Method	: Split Spoon
Drilling Company	: CO Drilling and Sampling
Latitude	: 39.5165539
Longitude	: -108.2233858
Project Number	: 022-017
Logged By	: R. Johnson

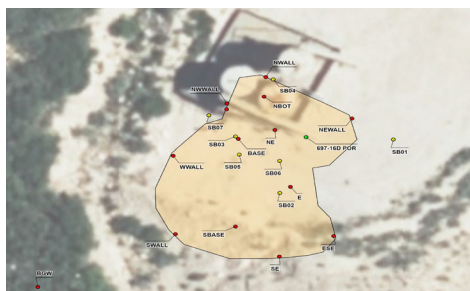
Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture (%)	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Blow Count
0										
5	GC		5-7: Brown clayey gravel. Moist. No odor.	70	50	M	5.2	N	20	2,2,2,2
10	GC		10-12: Brown clayey gravel. Moist. No odor.	60	30	M	5.7	N	22	2,3,4,3
15	CL		15-17: Brown gravelly clay. No odor.	60	60	M	5.6	N	20	3,3,4,5
20	GC		20-22: Brown and black gravelly clay. No odor.	60	70	M	24.9	N	18	7,8,10
25	CL		25-27: Brown to tan gravelly clay. No odor.	60	70	M	17.5	N	20	5,4,6,7
TD at 27'										



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Denver, CO 80203

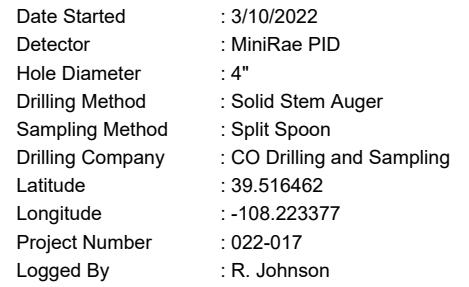
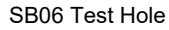
697-16D

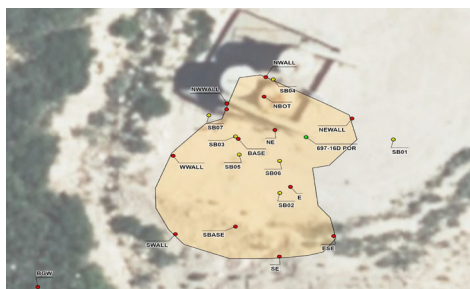
SB05








Date Started : 3/10/2022
 Detector : MiniRae PID
 Hole Diameter : 4"
 Drilling Method : Solid Stem Auger
 Sampling Method : Split Spoon
 Drilling Company : CO Drilling and Sampling
 Latitude : 39.516469
 Longitude : -108.223426
 Project Number : 022-017
 Logged By : R. Johnson

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture (%)	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Blow Count
0										
5	CL		5-7: Gravelly and sandy clay. Moist. Hydrocarbon odor.	50	60	M	2269	N	20	3,2,2
10	GC		10-12: Clayey gravel. Very Moist. Hydrocarbon odor.	70	40	M	434	N	12	5,6,7
15	GC		15-17: Clayey gravel. Moist. Slight odor.	70	40	M	319	N	12	5,7,7
20	GC		20-22: Clayey gravel. Moist. No odor.	60	40	M	73	N	14	5,6,5,4
25	GC		25.5-27.5: Clayey gravel. Moist.	50	40	M	67	N	14	7,31,10,13
			TD at 27.5'							

[illegible]



Date Started	: 3/10/2022
Detector	: MiniRae PID
Hole Diameter	: 4"
Drilling Method	: Solid Stem Auger
Sampling Method	: Split Spoon
Drilling Company	: CO Drilling and Sampling
Latitude	: 39.516514
Longitude	: -108.223463
Project Number	: 022-017
Logged By	: R. Johnson

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	Moisture (%)	Fines (%)	Structure	PID (ppm)	Staining	Recovery (in)	Blow Count
0										
5	CL		5-7: Gravelly clay, moist. Possible slight odor.	60	70	M	9.7	N	16	7,6,3,3
10	GC		10-12: Grey gravel with clay. Very rocky sample.	30	20	M	20.9	N	16	10,9,12,7
15	GC		15-17: Clayey gravel. Moist. No odor.	50	50	M	25.2	N	20	6,5,9,7
20	CL		20-22: Brown gravelly and sandy clay. No odor.	40	60	M	25.7	N	20	9,9,9,8
25	GC		25-27: Clayey gravel. No odor. Stratified.	40	40	S	17.3	N	18	6,5,8,5
TD at 27'										