

Projects (continued).

4/7/22 Data Log Well BM
0700 onsite, setup rig for well development.

0717 WL = 454.91 static
TD = 596.70

0820 Calculated XSI = Turbidity
209, 401, 1417 Spc @ 670

858 25" bailer, attempt to try better
hang up and failed ~150'

Will haul the 2 3/8" bailer to try that
next

913 Test bailer w/ 10' at 2 3/8" well
got to ~590' depth.

1015 - First 40' bail complete collected
Inhoff and parameters
field

1045^{at} 465' @ 25 gal pulled so far,
dropped ~5 gal for 25 pulled out

1115 Lynch P. onsite to grab water
samples

1155 Lynch [collects IDW] SAMPLE
1x 8260 VOC 1x Metals
1x 8011 EDB 1x pH

4/7/22 from Dan Gray Dealer

1212 Collect IMHOFF

1300 removed ~ 125 gal switching to a surge block

1320 Surge 20' screen 30 min
-1350

1350 Check IMHOFF, 2280ml sediment / (100ml total)
(photo)

1420 Continue bailing

1500 @ 150 gal bailed

1605 245 gal bailed 175 gal lot to be
160 gal 2nd to be

1631 175 + 110 gal to be = 285 gal purged
160 gal after surge block

1635 Done bailing for the day. Driller needs to return equip

Summary ~ 9.5 hrs onsite
~ 285 gal bailed

Tomorrow same thing

D. Miller

4/6/22 Dan Gray Well pm

0700 Duster, clear, chilly, safely into
Plan of day is more bailing, possibly
surging.

730 Calculate YSI + Turbidity meter

745 DTW 453.6' TOC
DTB 597.2 TOC

800 Start bailing @ bottom of hole, see
if we can clear the bottom 2' up
before it mines back in

815 Stop bailing after one to tag w/ boiler
to confirm we're on bottom.

835 Boiler was on bottom, right @ 597'

900 IMHOFF cone on 2nd bail of day
80ml sed

1015 200 gal tote 2 + 175 tote 1 = 375 total

1025 Surging hoses w/ AES.

1100 Imhoff cone = 4ml after 30 min
15ml after 1 hr

1330 lunch, tote 3 @ ~ 210 gal
No maintenance

1400 Imhoff cone collected @ 1300, 8ml sed
after 1 hr, collected another cone @ 1400

1420 Finished tote 3, total purged
375 + 225 = 600
tote 1+2 tote 3

4/8/22 Data Log well ~~DM~~
Development

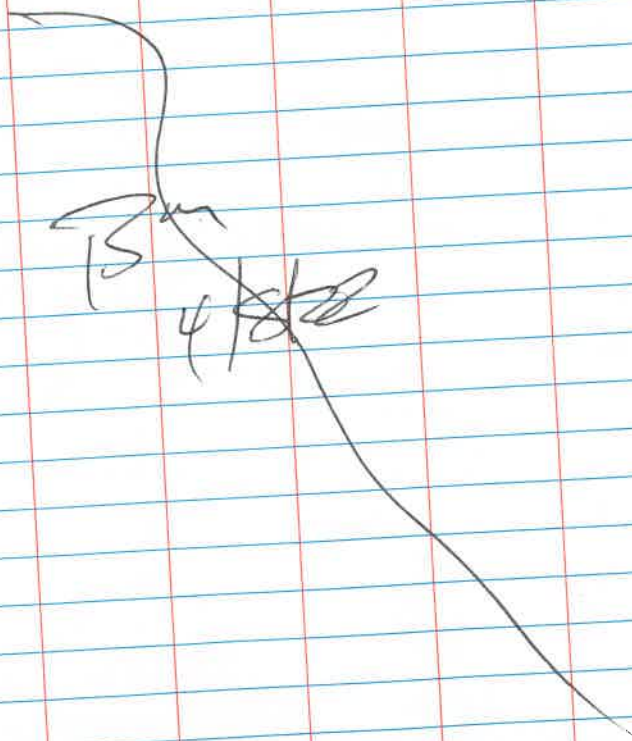
Total Gal pumped = 650 @ 1430

1530 thru 1400 CONE ~~2.5ml~~ seal after 2 hrs
750 gal pumped

1700 Done boring for day
Total braced = ~~875~~ gal 910 gal
Tote 1 = 175 g
Tote 2 = 250 g
Tote 3 = 260 g

Current tote 4 = 225 gal

Day Total = ~~590~~ gal CP
625 gal



CP

DATA GAP Well - Development

4/9/22

Saturday April 9, 2022

Weather: Clear, 40-70's, breezy

Personnel: Lynda Price & Danny Moore (cascade)

Objectives Continue developing well. Goal is to remove 500 gal/day.

0650 INTERA + cascade on-site

0715 Conduct H & S meeting; Calibrate INTERA's YSI PRO 1030 for 3pt pH and Sp Cond.
Calibrate INTERA's HACH 2100Q Turbidity Meter.

0801 WL = 453.28' bTDL
TD = 597.19' bTDL (difficult to measure)

0826 Pull up first bail. Clear water

0845 4th tote is full @ 260 gallons
Start 5th tote.

1115 Tote 5 is full. Start Tote 6

1140 Filled Imhoff cone.

1240 Imhoff cone has < 2 mL sediment.

1320 ~ 1385 gallons (total) removed.
Lynda off-site to pick up lunch

1340 Lynda on-site

1342 Stop for lunch break

1413 Start bailing again

Tote 6 is full. Start tote 7

Tote 1 = 175 gal; Tote 2 = 250 gal x 4
Totes 3-6 = ~ 260 gal each = 1300 galTOTAL Removed = 1475 gal

1513 Filled the Imhoff cone again

1610 Imhoff cone had < 1 mL sediment (if any)

1625 Tote 7 is full. Approx 260 gal

Total = 1475 gal + 260 gal = 1735 galNotes Tote ~~2~~ 3 ~~was~~ filled to 260 gal
not 250 gal so yesterday's totals
are off.Today we filled 3 totes (~260 gal each)
and topped a tote off with approx ~35 gal
Daily total = ~ 815 gallonsGrand Total = 1725 gallons

1700 Lynd + Danny off-site.

LP 4/9/22

Sunday April 10, 2022

Weather: Partly cloudy, 40's-70's, breezy
Personnel: Lynd Price, Danny Moore (casual)Objectives Continue developing ~~ABW~~ ^{LP} WLABBFMW01.
Total volume goal is 4000 gallons0650 Lynd + Danny on-site. Danny
starts setting up the rig0715 Conduct H + S meeting.
Start calibrating YSI PRO 1030
for 3pt pH & sp. conductivity.
Calibrate INTERA's HAZH 2100 Q
Turbidity meter.0747 WL = 452.99' BTDC
TD = 597.22' BTDC

0805 First Bail has been pulled up.

1017 Fill Imhoff cone (approx 1975 gal have been
removed)

1115 No sediment in Imhoff cone

Tote 8 is full → approx 270 gallons
Start tote 9.1255 Tote 9 is full → approx 260 gallons
Start tote 10.

4/10/22

Data Gap Well - Development

(UP)

1530 Tote 10 is full → approx 270 gallons
Start Tote 11 → ~ 5 gallons

Danny calls his Peralta yard + confirms they have 2 500 gal tanks. We've decided to stop + pack up so he can grab those (we've just started filling our last tote + we need more containers for tomorrow b/c AES is not able to bring any on Monday)

A pump should be arriving tomorrow + he also needs to grab a generator from the yard.

Tote 8 = ~ 270 gal

Tote 9 = ~ 260 gal

Tote 10 = ~ 270 gal

Tote 11 = ~ 5 gal

Daily total = ~ 805 gallons

Grand Total = 1725 gal + 805 gal =
2530 gal

Note The totes are graduated and I am using these estimations to calculate volume purged. (vs. using the 30 gal drum totals → Danny fills a 30 gal drum with water from his trailer then pumps it to a tote. WA readings are collected after 2 drums have been pumped)

1620 INTERA + Cascade off-site 4/10/22

4/11/22

DGW - Well Dev.

BA

0700 B. Archuleta arrive onsite.
- Danny (Cascade) onsite.

Introduced myself to Danny. He says he has paperwork to do. Might take 1/2 hour to complete.

Objective:

- Continue developing well.
- Current volume total = 2530 gal
- Target volume total = 4250 gal

Weather:

Current = 49°F, clear, no wind

Outlook = High = 75°F, Sunny, Breezy PM

0740 Danny done w/ his paper work

- Tailgate Safety + Ops meetings
- Well Development ISA
- Sign Site Acknowledgement Form

8 of 9 Totes are full.

Danny brought a water trailer with

- 500-gallons internal capacity and 500 external tank capacity.
- 1000 gallons total

0755 SW Safety onsite to observe and touch up traffic control signage as-needed.

4/11/22

DGW Well Dev.

BA

0758 Attach to bailer and hoist out of well.

0801 Tag well

- DTW = 453.05' BTOC
- TD = 597.21' BTOC

Notes:

- Currently 8 of 9 Totes onsite are full.
- Danny says AES wont be onsite until tomorrow to bring more and pick up these ones.
 - I'll call AES to confirm.
- Remaining volume to develop = ~1700
 - Should take about 2 days of bailing to complete at ~800/day.
 - Danny says a pump is on its way but we wont likely need it due to current bailing rates and pump setup time.
- Bailer is a 30', 2" Sch 80 PVC bailer with a steel lifter on top and check ball assembly intake at bottom.
 - Bailer capacity = ~6 gallons.
 - Using a 30-gallon barrel to bail into and a trash pump to transfer from barrel into tanks/totes.

0830 Calibrate YSI - 1030 @ QM +
HACH 2100Q Turbidity meter

4/11/22

DGW Well Dev.

BA

0840 Start bailing (from top). See field form.

- Call AES (Doug) - 861-1700 / 400-0843
 - Tote Pickup/delivery
- Call Rodger Rodriguez (Cascade) (928) 451-6014
 - Traffic Control (Thursday)
 - Fencing (Wednesday)
 - Porta Potty (Thursday)

1030 Tried calling AES several times and left text messages. Receptionist said Doug + all field staff are in a 8-hour HAZWOPER course all day. I let them know we are out of capacity (totes) and will need additional totes today or first thing tomorrow.

1040 Filled 9th tote. Now start filling 500-gallon tank on top of water trailer.

1150 Fill Imhoff Cone (wait ~30 min)
- Current volume removed = 2980 gallons (NO sediment after 30 min)

Note: Called Rodger (Cascade) and let him know we will likely finish bailing tomorrow evening or Wednesday morning. He'll start coordinating Demols (fence, traffic control, + porta potty).

Doug returned my call. might be able to get as more totes after 3:00 pm. If not, tomorrow morning.

4/11/22

Data Gap Well Development

BA

1500 @ 800 gallons for the day so far

Filled up the 1 Tote plus the 500 gallon tank on trailer.

Called Doug (AES). He said crew is about 1/2 hour away from arriving onsite to deliver more empty totes.

Dan will develop about 30 more gallons into barrel while waiting for AES to arrive. We won't have to develop into the trailer's built-in tank.

1525 AES arrive onsite

- Deliver 5 empty ~ ²⁷⁵500-gallon totes.
- Pickup 5 full totes.

AES in box truck. Limited by weight on how many full totes they can transport. GVWR = 10,000 lbs.

- Danny uses forklift to move + load totes.

1618

505 Porta Potty onsite to service porta potty.

Note: Driving really fast on Indiana Street.

1645

End development efforts for the day.

Daily total volume = 900g. Well total = 3430g.

Target volume = 4250 gallons.

Remaining volume = 820 gallons

Should finish tomorrow.

16700

All offsite.

4/12/22

Data Gap Well Development

BA

0715 B. Archuleta arrive onsite

Danny (Cascade) onsite filling out paperwork.

Tailgate Safety meeting + Ops meeting.

Objective:

- Continue developing well by baiting.
- Current dev volume = 3430g.
- Target " = 4250g
- Remaining " = 820 gal
- ↳ Might hit target by end of day.
- Start prepping for demoh either tomorrow or ~~wednesday~~ Thursday.

0730

Set up rig and raise mast; set up for dev. Pump off part of 500-gallon tank into 1 tote.

- Currently 3.6 totes (empty) remaining
- ↳ Should get us through day.
- ↳ AES will be onsite today w/ additional totes.

Weather: 59°F (A) and breezy; clear. Expected windy day; sunny.

0810

Tag well

- DTW = 452.9' BTOC

- TD = 597.35' BTOC *

* Hard to feel bottom. Line sticking to side of well casing.

4/12/22

Data Gap Well Development

BA

- 0815 Calibrate WQM (YSI Pro 1030) and turbidity meter (HACH 2100Q).
- 0822 Start bailing. see field form for details.
 ↳ Bail around 30-45 gallons off of the bottom of the well to start with.
 ↳ Collect Imhoff Cone sample on 2nd bailer. 1st bailer was turbid but it came out of bailer after collecting Imhoff Cone sample.
- 0949 < 0.1 mm sediment in Imhoff cone.
- 1015 Filled tote. 3 remaining empties.
- 1240 Filled a second tote.
 - Developed ~ 400 gallons so far today.
- 1308 Weather: Cloudy; Breezy 25-30 mph, light rain starting
- 1358 AES arrive onsite (2 men + Box truck)
 - Brought 3 x 275-gallon empty totes
 - Haul off 5 x 275-gallon full totes
- 1425 Call Joe and discuss with him and Danny strategy to develop well screen by bailing screened zone for 100-gallons starting now. Then we can bail to clean out water column after that and have at least 200 gallons to do so with.

4/12/22

- Data Gap Well Development

BA

- 1430 Resume development. Bailing bottom of well.
 - current total developed volume =
- 1550 @ 4080 gallons.
- 1555 Call Rodger (Cascade) and let him know what ~~our~~ progress was.
 - AES should be able to pick up all totes tomorrow afternoon.
 - Development activities should wrap up by near tomorrow.
 - Porta Potty, fencing, ^{fork lift} and traffic control will be scheduled for Thursday with traffic control ~~for~~ being last.
- 1635 Rob Sengebush arrive onsite to check on things.
- 1645 Done developing for the day. Start breaking down rig.
- Summary:
 - Bailed 710 gallons for the day
 - ↳ 110 gallons remaining until target of 4250.
 - AES hauled off 5 full totes and brought 3 empty totes.
 - will continue developing tomorrow
 - today developed 120 gallons from bottom of well.
- 1700 All offsite BA } 4/12/22

4/13/22

Data Gap Well Development

BA

0712 B. Archuleta arrive onsite.
- Danny Moore (Cascade) onsite filling out paperwork.

0715 Tailgate Safety + Ops meeting.

0730 Start towering up and prepping for development activities.

Objectives:

- Continue developing by bailing.
- Current volume = 4140 gallons.
- Target " = 4250 "
- Remaining " = 110 gallons (minimum)
- Lynda Price will be onsite around 9:00 am to resample water as part of IDW handling requirements.
- Complete development after volume and all other criteria (e.g. parameters, sediment levels) have been met.
- Start taking down site/materials.
 - Coordinate w/ Doug (AES), Rodger (Cascade), + Joe T.

0800 Calibrate YSi Pro 1030 + HACH 2100 Q.

3 pt pH: 7.09, 10.24, 4.01

Sp. Cond: 1413 $\mu\text{S}/\text{cm}$

- note: Cold conditions. Sp. Cond values may be lower today.

0807 Tag Well (Cascade's Well).

- DTW = 453.2' BTDC

- TD = 597.2' BTDC

↳ Hard to feel TD Tape sticks to well.

4/13/22

Data Gap Well Development

BA

0821 Start bailing/development.

↳ Initial bailing at bottom of well to remove any sediment if any.

↳ See field forms for details.

↳ Collected two Imhoff core samples.

- Initial bail = 1.0 mL sediment

- @ 40 gallons = no sediment.

0905 Lynda Price onsite to resample water.

0945 Lynda collect samples. Hand to HALL to drop off samples. Analysis will be "rushed".

~~0945~~ 1053 - 205 gallons for day. Final bailing/parameters.

1100

Development complete.

Total developed volume = 4345

Final Stable Parameters:

Temp: 17.6°C

pH = 8.19

Sp. Conductivity = 272.4 $\mu\text{S}/\text{cm}$

Clear. Slight odor.

Time = 1053

Turbidity = 38.8 NTU

4/13/22

Data Gap Well Dev. BA

1110 Danny pumping off remaining 250 gallons from trailer-mounted water tank into tote.

Current tote count onsite:

- 7 total totes
- 5 full totes
- 2 empty totes

Called Doug. (AES) to let him know.
- No answer. Left a text message.

1115 Doug called back. They will send a crew here at 1300 to haul off all the totes. Danny will be here at 1300 to load them with forklift.

1118 Called Rodger (Cascade). Let him know we are done w/ development. and that the forklift will be ready for pickup after 1300. He is going to call vendors and get confirmation on when they will pick up their equip/materials (i.e. forklift, porta potty, fence, + traffic control).

Dan continuing to break down rig and equipment.

1135 Tag Well
DTW = 456. 83' BTOC
TD = Danny could not feel. Tape was sticking to well casing.

4/13/22

Data Gap Well

BA

1153 Marked the North side of the top of casing with a blue sharpie. Reference Point.

Place a padlock on J-Plug. Padlock is from the PNM Santa Fe set. May replace with a different one later.

1245 Development Rig + water trailer with all equipment has been broken down, and ready to leave site. Currently waiting for AES to arrive.

1313 Doug w/ AES called letting me know his crew is running a little behind. Said it might be another 1/2 hour.

1318 Danny using forklift to stage totes for pickup.

1331 AES Box Truck + crew arrive onsite.

1355 AES offsite
Loaded 5 full totes and 2 empty totes.

Poured some absorbent material on some of the oil stains on road. Close Site Fence.

4/13/22

Data Gap well

BA

1356 Cascade (Danny) offsite.

Site Material Remaining

- forklift
- Porta Potty
- Fence
- Traffic control.

Will keep in contact w/ Rodger regarding vendors and pickup times/dates.

Daily Summary:

- Daily: Developed 205 gallons.
- Total volume = 4345 gallons.
- exceeded target by 145 gallons.
- Water cleaned up. Slight odor.
- Parameters stable.
- Hauled all totes offsite.
- Cascade rig, trailer, + equipment offsite.
- Work w/ Rodger over next couple of days to ensure they pick up all remaining materials (forklift, fence, porta potty, + traffic control).
- Put a temp pad lock on J-plug.

1400 B. Archuleta offsite

- call Joe T.

BA

4/13/22

CLIENT **Intera** LOCATION **ABQ, NM** DATE **1-24-22** DAY **MON**
 Job# **1007**
 Sonic - 113-22

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time	700	730	.5
		Mob / DeMob			
		Travel to Site	730	815	.75
		Pre-Shift	815	970	1.25
		Safety Mtg	830	1040	.5
		Drilling			
		Stand by	1000	1030	.5
		Abandon	1030	1100	.5
		Set up	1100	1230	1.5
		Travel back to site	1230	1240	.5
		set up panels	1200	200	1
		pick up tender strap down & get chop saw blade	200	330	1.5
		client health & safety meeting	330	430	1
		saw cut 2x2 pad, move trucks to secure site	430	520	.5
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up			
		Travel to Hotel	500	530	.5

TOTAL FT **0** TOTAL CHARGEABLE RIG HOURS **10.5**

RIG ENGINE HOURS: START STOP TOTAL **10.5**

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG	11-28853	2" Sch 40 PVC Screen (feet)	
Drill using 7" Casing	SUPPORT TRUCK		2" Sch 40 PVC Riser (feet)	
Moving from Hole to hole, Set up, tear down	CREW TRUCK		4" Sch 80 PVC Riser (feet)	
Installation of 3" Sch 80 PVC	TRAILER		4" Sch 80 PVC Screen (feet)	
Installation of 12" Flush Vault			4" Sch 40 Riser	
Traffic Controls		1	4" Sch 40 Riser	
Sound Curtains		2	Sand Pack (feet)	
Porta Pot		1	Bentonite Seal (feet)	
Forklift		1	Bentonite Cement Grout (feet)	
			12" Flush vaults	
			6" SS screens	

LABOR	CREW WITH PER DIEM	TRAVEL PAY	TOTAL HRS	OPERATOR SIGNATURE
	3			
NAME		SIGNATURE		
Kevin			10.5	
Jason			10.5	
Robert Garwin			10.5	

REMARKS



CASCADE

DRILLING | TECHNICAL SERVICES

CASCADE DRILLING DAILY WORK REPORT

7773 W Seldon Ln Peoria, AZ 85345 FAX: (623) 435-8837

CLIENT Intera DATE 1-26-22 DAY Wed
 LOCATION ABQ, NM Sonic - 113-22 Job# 1007

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time			
		load sound boards & Hopper	6:00	7:30	1.5
		Mob / DeMob			
		Travel to Site	7:30	8:00	.5
		Pre-Shift			
		Safety Mtg	8:00	8:30	.5
		Drilling	8:30	9:30	1
		Stand by			
<u>WSD</u>	<u>25'</u>	Abandon	9:30	10:30	1
		Set up	10:30	11:15	.75
<u>MW1</u>	<u>10'</u>	45' — 55'	11:15	12:00	.75
		launch	12:00	12:30	
<u>MW1</u>	<u>10'</u>	55' — 65'	12:30	1:30	2
		valve came apart cleaned up mess, went to			
		push trucking to look for part for airspring tube			
		canister	2:30	4:30	2
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up	4:30	4:45	.25
		Travel to Hotel	4:45	5:30	.75

TOTAL FT 0 TOTAL CHARGEABLE HOURS 11

RIG ENGINE HOURS: START STOP TOTAL 11

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG	2" Sch 40 PVC Screen (feet)		
Drill using 7" Casing	SUPPORT TRUCK	2" Sch 40 PVC Riser (feet)		
Moving from Hole to hole, Set up, tear down	CREW TRUCK	4" Sch 80 PVC Riser (feet)		
Installation of 3" Sch 80 PVC	TRAILER	4" Sch 80 PVC Screen (feet)		
Installation of 12" Flush Vault		4" Sch 40 Riser		
Traffic Controls		4" Sch 40 Riser		
Sound Curtains	b	Sand Pack (feet)		
Porta Pot	1	Bentonite Seal (feet)		
Forklift	1	Bentonite Cement Grout (feet)		
		12" Flush vaults		
		6" SS screens		

LABOR

CREW WITH PER DIEM 3 TRAVEL PAY

NAME	SIGNATURE	TOTAL HRS	OPERATOR SIGNATURE
Kevin		11	
Jason		10.5	
Anthony Meers		10.5	

REMARKS

Client Signature

CASCADE

DRILLING | TECHNICAL SERVICES

CASCADE DRILLING DAILY WORK REPORT

7775 W Seldon Ln Peoria, AZ 85345 FAX: (623) 435-8837

CLIENT Intera LOCATION ABQ, NM DATE 1-27-22 DAY Thurs
 SONIC - 113-22 Job# 1007

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time	6:30		
		Mob / DeMob			
		Travel to Site	6:30	7:00	.5
		Pre-Shift			
		Safety Mtg	7:00	7:30	.5
		Drilling	7:30	8:00	.5
		Stand by			
		Abandon			
		Set up	8:00	8:15	.25
<u>MW1</u>	<u>40'</u>	<u>check fluids, warm up rig</u>	<u>8:15</u>	<u>12:15</u>	<u>4</u>
		<u>65' - 105'</u>			
		<u>lunch</u>	<u>12:15</u>	<u>12:45</u>	
<u>MW1</u>	<u>40'</u>	<u>105' - 145'</u>	<u>12:45</u>	<u>4:30</u>	<u>3.75</u>
		<u>lock up, secure rig, unload poly tanks</u>	<u>4:30</u>	<u>4:45</u>	<u>.25</u>
		<u>load 8" casing on trailer from peralta shop</u>	<u>4:45</u>	<u>6:30</u>	<u>1.75</u>
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up			
		Travel to Hotel	6:30	7:00	.5
		<u>Travel to motel</u>			

TOTAL FT 80 TOTAL CHARGEABLE RIG HOURS

RIG ENGINE HOURS: START STOP TOTAL 12

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG 11-28853	2" Sch 40 PVC Screen (feet)		
Drill using 7" Casing	SUPPORT TRUCK	2" Sch 40 PVC Riser (feet)		
Moving from Hole to hole, Set up, tear down	CREW TRUCK	4" Sch 80 PVC Riser (feet)		
Installation of 3" Sch 80 PVC	TRAILER	4" Sch 80 PVC Screen (feet)		
Installation of 12" Flush Vault		4" Sch 40 Riser		
Traffic Controls		4" Sch 40 Riser		
Sound Curtains		Sand Pack (feet)		
Porta Pot		Bentonite Seal (feet)		
Forklift		Bentonite Cement Grout (feet)		
		12" Flush vaults		
		6" SS screens		

LABOR

CREW WITH PER DIEM 3 TRAVEL PAY

NAME	SIGNATURE	TOTAL HRS	OPERATOR SIGNATURE
Kevin		12	
Jason		12	
Anthony M		12	

REMARKS

CASCADE

DRILLING | TECHNICAL SERVICES

CASCADE DRILLING DAILY WORK REPORT

7773 W Seldon Ln Peoria, AZ 85345 Fax: (623) 435-8897

CLIENT **Intera** LOCATION **ABQ, NM** DATE **1-28-22** DAY **FRI**
 Sonic - 113-22 Job# **1007**

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time			
		Mob / DeMob			
		Travel to Site			
		Pre-Shift			
		Safety Mtg			
		Drilling			
		Stand by			
		Abandon			
		Set up			
MW	60	145' — 205'	7:15	3:15	8
		Secure Secure site lock up everything	3:15	3:45	.5
		Travel to Airport	3:45	4:15	.5
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up			
		Travel to Hotel			
		fly from ABQ to Dallas, TX	4:15	9:45	5.5

TOTAL FT **60** TOTAL CHARGEABLE RIG HOURS

RIG ENGINE HOURS: START STOP TOTAL

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG	11-28853	2" Sch 40 PVC Screen (feet)	
Drill using 7" Casing	SUPPORT TRUCK		2" Sch 40 PVC Riser (feet)	
Moving from Hole to hole, Set up, tear down	CREW TRUCK		4" Sch 80 PVC Riser (feet)	
Installation of 3" Sch 80 PVC	TRAILER		4" Sch 80 PVC Screen (feet)	
Installation of 12" Flush Vault			4" Sch 40 Riser	
Traffic Controls			4" Sch 40 Riser	
Sound Curtains			Sand Pack (feet)	
Porta Pot			Bentonite Seal (feet)	
Forklift			Bentonite Cement Grout (feet)	
			12" Flush vaults	
			6" SS screens	

LABOR		TRAVEL PAY	TOTAL HRS	OPERATOR SIGNATURE
CREW WITH PER DIEM	NAME	SIGNATURE	TOTAL HRS	
	Kevin		15.75	
	Jason		15.75	
	Anthony M		9.75	

REMARKS **Anthony .M on shop daily after 3:45**

CLIENT Intera DATE 1-31-22 DAY Mon
 LOCATION ABQ, NM Job# 1007
 Sonic - 113-22

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time	6:00	6:30	.5
		Mob / DeMob			
		Travel to Site	6:30	7:00	.5
		Pre-Shift			
		Safety Mtg	7:00	7:30	.5
		Drilling	7:30	8:00	.5
		Stand by			
		Abandon			
		Set up			
<u>MW</u>	<u>20</u>	clean out & drill 205' - 225'	8:00	11:45	3.75
		lunch	11:45	12:15	
		clean up Hydro from broke gauges fix grease piston gauge, get new gauges w/o # 18120	12:15	4:00	3.75
<u>MW</u>		Run down try to retrieve 225'	4:00	4:30	.75
		Move Hole-to-Hole			
		Decon/IDW	4:45	5:00	.25
		Equip Repairs			
		Site clean up			
		Travel to Hotel	5:00	5:30	.5
TOTAL FT <u>0</u>			TOTAL CHARGEABLE RIG HOURS		

RIG ENGINE HOURS: START STOP TOTAL 11

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG 11-28853	2" Sch 40 PVC Screen (feet)		
Drill using 7" Casing	SUPPORT TRUCK	2" Sch 40 PVC Riser (feet)		
Moveing from Hole to hole, Set up, tear down	CREW TRUCK	4" Sch 80 PVC Riser (feet)		
Installation of 3" Sch 80 PVC	TRAILER	4" Sch 80 PVC Screen (feet)		
Installation of 12" Flush Vault		4" Sch 40 Riser		
Traffic Controls		4" Sch 40 Riser		
Sound Curtains		Sand Pack (feet)		
Porta Pot		Bentonite Seal (feet)		
Forklift		Bentonite Cement Grout (feet)		
		12" Flush vaults		
		6" SS screens		

LABOR	CREW WITH PER DIEM	TRAVEL PAY	SIGNATURE	TOTAL HRS	OPERATOR SIGNATURE
	<u>3</u>		<i>[Signature]</i>	<u>11</u>	
NAME					
Kevin				<u>11</u>	
Jason				<u>11</u>	
<u>Anthony M</u>				<u>11</u>	

REMARKS Rig Repair 12:15 - 4:00 w/o # 18120

Client Signature _____

CLIENT Intera DATE 2-1-22 DAY Tue
 LOCATION ABQ, NM Job# 1007
 Sonic - 113-22

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time			
		Mob / DeMob			
		Travel to Site			
		Pre-Shift			
		Safety Mtg	7:00	7:30	.5
		Drilling	7:30	8:00	.5
		Stand by			
		Abandon			
		Set up			
MW1	12'	Drill case to 225' Drill 225' - 237'	8:00	12:15	4.25
		lunch	12:15	12:45	
MW1	20'	Drill 237' - 257'	12:45	4:45	4
		lock up	4:45	5:00	.25
		Travel to peralta load casing	5:00	6:30	1.5
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up			
		Travel to Hotel	6:30	7:00	.5

TOTAL FT 0 TOTAL CHARGEABLE RIG HOURS 12

RIG ENGINE HOURS: START STOP TOTAL 12

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG 11-28853	2" Sch 40 PVC Screen (feet)		
Drill using 7" Casing	32 SUPPORT TRUCK	2" Sch 40 PVC Riser (feet)		
Moveing from Hole to hole, Set up, tear down	CREW TRUCK	4" Sch 80 PVC Riser (feet)		
Installation of 3" Sch 80 PVC	TRAILER	4" Sch 80 PVC Screen (feet)		
Installation of 12" Flush Vault		4" Sch 40 Riser		
Traffic Controls		4" Sch 40 Riser		
Sound Curtains		Sand Pack (feet)		
Porta Pot		Bentonite Seal (feet)		
Forklift		Bentonite Cement Grout (feet)		
		12" Flush vaults		
		6" SS screens		

LABOR	CREW WITH PER DIEM	TRAVEL PAY	SIGNATURE	TOTAL HRS
	3		<i>[Signature]</i>	12
NAME				
Kevin				12
Jason				12
<i>Anthony m</i>				12

REMARKS

Client Signature

CLIENT Intera LOCATION ABQ, NM DATE 2-2-22 DAY wed
 Sonic - 113-22 Job# 1007

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time			
		Mob / DeMob	6:10	6:30	.5
		Travel to Site			
		Pre-Shift	6:30	7:00	.5
		Safety Mtg			
		Drilling	7:00	7:30	.5
		Stand by			
		Abandon	7:30	8:00	.5
<u>mwl</u>	<u>10'</u>	Set up			
		drill 257' - 267'	8:30	9:45	1.75
		broke bolts on head tapped out broke end & replaced bolts	9:45	11:00	1.25
		lunch	11:00	11:30	
<u>mwl</u>		drill 267' - 295'	11:30	4:45	5.25
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up			
		Travel to Hotel	4:45	5:00	.25
		lock up site			
		Travel to motel	5:00	6:00	1
TOTAL FT	<u>0</u>	TOTAL CHARGEABLE RIG HOURS			

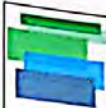
RIG ENGINE HOURS: START [] STOP [] TOTAL 11.5

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG	2" Sch 40 PVC Screen (feet)		
Drill using 7" Casing	11-28853 SUPPORT TRUCK	2" Sch 40 PVC Riser (feet)		
Moveing from Hole to hole, Set up, tear down	CREW TRUCK	4" Sch 80 PVC Riser (feet)		
Installation of 3" Sch 80 PVC	TRAILER	4" Sch 80 PVC Screen (feet)		
Installation of 12" Flush Vault		4" Sch 40 Riser		
Traffic Controls		4" Sch 40 Riser		
Sound Curtains		Sand Pack (feet)		
Porta Pot		Bentonite Seal (feet)		
Forklift		Bentonite Cement Grout (feet)		
		12" Flush vaults		
		6" SS screens		

LABOR					
CREW WITH PER DIEM	<u>3</u>	TRAVEL PAY			
NAME	SIGNATURE	TOTAL HRS			
Kevin		11.5			
Jason		11.5			
Anthony m		11.5			
			OPERATOR SIGNATURE		

REMARKS

Client Signature



CASCADe

DRILLING | TECHNICAL SERVICES

CASCADE DRILLING DAILY WORK REPORT

7773 W Seldon Ln Peoria, AZ 85345 Fax: (623) 435-8837

CLIENT Intera LOCATION ABQ, NM DATE 2-3-22 DAY Thurs
 Job# 1007
 Sonic - 113-22

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time			
		Mob / DeMob	8:00	12:30	4.5
		Travel to Site			
		Pre-Shift	12:30	1:00	.5
		Safety Mtg			
		Drilling	1:00	1:30	.5
		Stand by			
		Abandon	1:30	2:30	1
		Set up			
<u>mwl</u>	<u>22.5</u>	<u>Drill 295 - 317.5</u>	<u>2:30</u>	<u>5:00</u>	<u>2.5</u>
		<u>lock up site & equipment</u>	<u>5:00</u>	<u>5:30</u>	<u>.5</u>
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up			
		Travel to Hotel			
		<u>Travel to motel</u>			
TOTAL FT	<u>0</u>		<u>5:30</u>	<u>6:00</u>	<u>.5</u>

TOTAL CHARGEABLE RIG HOURS: 10

RIG ENGINE HOURS: START STOP TOTAL 10

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG	11-28853	2" Sch 40 PVC Screen (feet)	
Drill using 7" Casing	SUPPORT TRUCK		2" Sch 40 PVC Riser (feet)	
Moveing from Hole to hole, Set up, tear down	CREW TRUCK		4" Sch 80 PVC Riser (feet)	
Installation of 3" Sch 80 PVC	TRAILER		4" Sch 80 PVC Screen (feet)	
Installation of 12" Flush Vault			4" Sch 40 Riser	
Traffic Controls			4" Sch 40 Riser	
Sound Curtains			Sand Pack (feet)	
Porta Pot			Bentonite Seal (feet)	
Forklift			Bentonite Cement Grout (feet)	
			12" Flush vaults	
			6" SS screens	

LABOR	CREW WITH PER DIEM	TRAVEL PAY	SIGNATURE	TOTAL HRS
Kevin				10
Jason				10
Anthony M				10

OPERATOR SIGNATURE _____

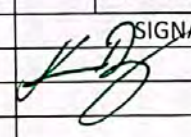
REMARKS _____

Client Signature _____

CLIENT Intera DATE 2-4-22 DAY FR
 LOCATION ABQ, NM Job# 1007
 Sonic - 113-22

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time			
		Mob / DeMob			
		Travel to Site			
		Pre-Shift			
		Safety Mtg			
		Drilling			
		Stand by			
		Abandon			
		Set up			
<u>MW1</u>	<u>22.5</u>	<u>warm up trucks</u>	<u>600</u>	<u>630</u>	<u>.5</u>
		<u>Travel to site</u>	<u>630</u>	<u>700</u>	<u>.5</u>
		<u>Tailgate</u>	<u>700</u>	<u>730</u>	<u>.5</u>
			<u>730</u>	<u>815</u>	<u>.75</u>
		<u>Fuel Rig & warm up equip</u>			
		<u>317.5' - 340'</u>	<u>815</u>	<u>910</u>	<u>7.75</u>
		<u>lock up site</u>	<u>910</u>	<u>915</u>	<u>.25</u>
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up			
		Travel to Hotel			
		<u>Travel from ABQ -> Dallas TX</u>	<u>415</u>	<u>1000</u>	<u>5.75</u>
TOTAL FT	<u>0</u>	TOTAL CHARGEABLE RIG HOURS			
RIG ENGINE HOURS:		START		STOP	
					TOTAL <u>16</u>

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG	11-28853	2" Sch 40 PVC Screen (feet)	
Drill using 7" Casing	SUPPORT TRUCK		2" Sch 40 PVC Riser (feet)	
Moveing from Hole to hole, Set up, tear down	CREW TRUCK		4" Sch 80 PVC Riser (feet)	
Installation of 3" Sch 80 PVC	TRAILER		4" Sch 80 PVC Screen (feet)	
Installation of 12" Flush Vault			4" Sch 40 Riser	
Traffic Controls			4" Sch 40 Riser	
Sound Curtains			Sand Pack (feet)	
Porta Pot			Bentonite Seal (feet)	
Forklift			Bentonite Cement Grout (feet)	
			12" Flush vaults	
			6" SS screens	

LABOR	SIGNATURE	TOTAL HRS	OPERATOR SIGNATURE
CREW WITH PER DIEM			
NAME			
Kevin		<u>16</u>	
Jason		<u>16</u>	
<u>Anthony m</u>		<u>7</u>	

REMARKS

Client Signature

CLIENT: Intera DATE: 2-7-22 DAY: Mon
 LOCATION: ABQ, NM Job#: 1007
 Sonic - 113-22

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time	6:00	7:00	1
		Mob / DeMob			
		Travel to Site	7:00	7:30	.5
		Pre-Shift			
		Safety Mtg	7:30	8:00	.5
		Drilling			
		Stand by	8:00	8:45	.75
		Abandon			
		Set up			
<u>mw</u>	<u>17'</u>	<u>Drill</u>	<u>8:45</u>	<u>12:45</u>	<u>4</u>
			<u>12:45</u>	<u>1:15</u>	
<u>mw</u>	<u>15'</u>	<u>Drill</u>	<u>1:15</u>	<u>4:45</u>	<u>3.5</u>
		<u>lock up, secure site</u>	<u>4:45</u>	<u>5:15</u>	<u>.5</u>
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up			
		Travel to Hotel	<u>9:15</u>	<u>10:15</u>	<u>1</u>
TOTAL FT	<u>32</u>	TOTAL CHARGEABLE RIG HOURS			<u>11.75</u>

RIG ENGINE HOURS: START: STOP: TOTAL: 11.75

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG	11-28853	2" Sch 40 PVC Screen (feet)	
Drill using 7" Casing	SUPPORT TRUCK		2" Sch 40 PVC Riser (feet)	
Moveing from Hole to hole, Set up, tear down	CREW TRUCK		4" Sch 80 PVC Riser (feet)	
Installation of 3" Sch 80 PVC	TRAILER		4" Sch 80 PVC Screen (feet)	
Installation of 12" Flush Vault			4" Sch 40 Riser	
Traffic Controls			4" Sch 40 Riser	
Sound Curtains			Sand Pack (feet)	
Porta Pot			Bentonite Seal (feet)	
Forklift			Bentonite Cement Grout (feet)	
			12" Flush vaults	
			6" SS screens	

LABOR	NAME	SIGNATURE	TOTAL HRS	OPERATOR SIGNATURE
CREW WITH PER DIEM	<u>3</u>			
	Kevin	<i>[Signature]</i>	<u>11.75</u>	
	Jason	<i>[Signature]</i>	<u>11.75</u>	
	<u>Anthony m</u>	<i>[Signature]</i>	<u>2.5</u>	

REMARKS: Anthony m 3:45 - 6:15

Client Signature: _____

CLIENT Intera DATE 2-8-22 DAY Tue
LOCATION ABQ, NM Job# 1007
Sonic - 113-22

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time	615	630	.25
		Mob / DeMob			
		Travel to Site	630	700	.5
		Pre-Shift			
		Safety Mtg	700	730	.5
		Drilling			
		Stand by			
		Abandon	730	830	1
		Set up			
<u>mw1</u>	<u>25.5</u>	<u>Drill</u> 372' — 397.5'	<u>630</u>	<u>1200</u>	<u>3.5</u>
		<u>lunch</u>	<u>1200</u>	<u>1230</u>	
<u>mw1</u>	<u>20</u>	<u>Drill</u> 397.5' — 417.5'	<u>1230</u>	<u>500</u>	<u>4.5</u>
		<u>lock up, secure site</u>	<u>500</u>	<u>545</u>	<u>.75</u>
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up			
		Travel to Hotel	<u>545</u>	<u>800</u>	<u>2.25</u>
TOTAL FT <u>455.5</u>		TOTAL CHARGEABLE RIG HOURS		TOTAL <u>13.25</u>	

BILLABLE ITEMS		EQUIPMENT		MATERIALS USED		
				DESCRIPTION	SIZE	FEET
Mob/Demob		DRILL RIG	11-28853	2" Sch 40 PVC Screen (feet)		
Drill using 7" Casing	45.5	SUPPORT TRUCK		2" Sch 40 PVC Riser (feet)		
Moving from Hole to hole, Set up, tear down		CREW TRUCK		4" Sch 80 PVC Riser (feet)		
Installation of 3" Sch 80 PVC		TRAILER		4" Sch 80 PVC Screen (feet)		
Installation of 12" Flush Vault				4" Sch 40 Riser		
Traffic Controls				4" Sch 40 Riser		
Sound Curtains				Sand Pack (feet)		
Porta Pot				Bentonite Seal (feet)		
Forklift				Bentonite Cement Grout (feet)		
				12" Flush vaults		
				6" SS screens		

LABOR

CREW WITH PER DIEM	<u>3</u>	TRAVEL PAY	
NAME	SIGNATURE	TOTAL HRS	
Kevin	<i>[Signature]</i>	13.25	
Jason		13.25	OPERATOR SIGNATURE
Anthony M		13.25	

REMARKS

SISA
PRE-SHIFT
PROX 811
COMPLETIONS
TRIP ESR
PROCEDURES
MAPS



CASCADe

DRILLING | TECHNICAL SERVICES

CASCADE DRILLING DAILY WORK REPORT

7773 W Seldon Ln Peoria, AZ 85345 Fax: (623) 435-8837

CLIENT Intera DATE 2-9-22 DAY Wed
 LOCATION ABQ, NM Job# 1007
Sonic - 113-22

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time	600	615	.25
		Mob / DeMob			
		Travel to Site	615	645	.5
		Pre-Shift			
		Safety Mtg	645	715	.5
		Drilling			
		Stand by	715	800	.75
		Abandon			
		Set up			
<u>MW1</u>	<u>12.5</u>	<u>Drill</u>	<u>800</u>	<u>1200</u>	<u>4</u>
		<u>417.5' — 430'</u>	<u>1200</u>	<u>1230</u>	
<u>MW1</u>	<u>15'</u>	<u>Drill</u>	<u>1230</u>	<u>520</u>	<u>4.5</u>
		<u>430' — 445'</u>			
		<u>lock up & secure site</u>	<u>500</u>	<u>515</u>	<u>.25</u>
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up			
		Travel to Hotel	<u>515</u>	<u>700</u>	<u>1.75</u>
		<u>load truck at peralta, fuel up, travel to motel</u>			
TOTAL FT	<u>2150</u>	TOTAL CHARGEABLE RIG HOURS			

RIG ENGINE HOURS: START [] STOP [] TOTAL 12.5

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG	11-28853	2" Sch 40 PVC Screen (feet)	
Drill using 7" Casing	SUPPORT TRUCK		2" Sch 40 PVC Riser (feet)	
Moveing from Hole to hole, Set up, tear down	CREW TRUCK		4" Sch 80 PVC Riser (feet)	
Installation of 3" Sch 80 PVC	TRAILER		4" Sch 80 PVC Screen (feet)	
Installation of 12" Flush Vault			4" Sch 40 Riser	
Traffic Controls			4" Sch 40 Riser	
Sound Curtains			Sand Pack (feet)	
Porta Pot			Bentonite Seal (feet)	
Forklift			Bentonite Cement Grout (feet)	
			12" Flush vaults	
			6" SS screens	

LABOR	CREW WITH PER DIEM	TRAVEL PAY	NAME	SIGNATURE	TOTAL HRS	OPERATOR SIGNATURE
	<u>3</u>		Kevin		<u>12.5</u>	
			Jason		<u>12.5</u>	
			<u>Anthony m</u>		<u>12.5</u>	

REMARKS []

Client Signature []



CASCADE DRILLING DAILY WORK REPORT

7773 W Seldon Ln Peoria, AZ 85345 FAX: (623) 435-8837

CLIENT: Intera DATE: 2-18-22 DAY: Thurs
 LOCATION: ABQ, NM Job#: 1007
 Sonic - 113-22

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time	6:00	6:45	.75
		Mob / DeMob			
		Travel to Site	6:45	7:15	.5
		Pre-Shift			
		Safety Mtg	7:15	7:45	.5
		Drilling			
		Stand by	7:45	8:30	.75
		Abandon			
		Set up			
MW1	22'	Drill 445' — 467'	8:30	11:30	3
		lunch	11:30	12:00	
MW1	10'	Drill 467' — 477'	12:00	4:45	4.75
		secure site, lock up equip	4:45	5:00	.25
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up			
		Travel to Hotel	5:00	5:30	.5
TOTAL FT: <u>32'</u>			TOTAL CHARGEABLE RIG HOURS		

RIG ENGINE HOURS: START: _____ STOP: _____ TOTAL: 11

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG 11-28853	2" Sch 40 PVC Screen (feet)		
Drill using 7" Casing	32'	SUPPORT TRUCK	2" Sch 40 PVC Riser (feet)	
Moveing from Hole to hole, Set up, tear down	CREW TRUCK	4" Sch 80 PVC Riser (feet)		
Installation of 3" Sch 80 PVC	TRAILER	4" Sch 80 PVC Screen (feet)		
Installation of 12" Flush Vault		4" Sch 40 Riser		
Traffic Controls		4" Sch 40 Riser		
Sound Curtains		Sand Pack (feet)		
Porta Pot		Bentonite Seal (feet)		
Forklift		Bentonite Cement Grout (feet)		
		12" Flush vaults		
		6" SS screens		

LABOR	NAME	SIGNATURE	TOTAL HRS
CREW WITH PER DIEM	<u>3</u>	TRAVEL PAY	
	Kevin		11
	Jason		11
	Anthony M		11

REMARKS: water sample 12:00 — 1:00, 3:30 — 4:15 (1.75) HRS

Client Signature: _____

CLIENT Intera LOCATION ABQ, NM DATE 2-11-22 DAY FRI
 Job# 1007

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time	6:15	7:45	.25
		Mob / DeMob			
		Travel to Site	6:30	7:00	.5
		Pre-Shift			
		Safety Mtg	7:00	7:30	.5
		Drilling			
		Stand by	7:30	8:15	.75
		Abandon			
		Set up			
MW1	10'	Drill 477' — 487'	8:15	10:00	1.75
		Water sample	10:00	10:00	2
		lunch	12:00	12:30	
		Water sample	12:30	1:00	.5
MW1	13'	Drill 487' — 500'	1:00	4:00	3
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up			
		Travel to Hotel	4:00	10:00	6
TOTAL FT	0	TOTAL CHARGEABLE RIG HOURS			15.25

RIG ENGINE HOURS: START [] STOP [] TOTAL 15.25

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG 11-28853	2" Sch 40 PVC Screen (feet)		
Drill using 7" Casing	23' SUPPORT TRUCK	2" Sch 40 PVC Riser (feet)		
Moveing from Hole to hole, Set up, tear down	CREW TRUCK	4" Sch 80 PVC Riser (feet)		
Installation of 3" Sch 80 PVC	TRAILER	4" Sch 80 PVC Screen (feet)		
Installation of 12" Flush Vault		4" Sch 40 Riser		
Traffic Controls		4" Sch 40 Riser		
Sound Curtains		Sand Pack (feet)		
Porta Pot		Bentonite Seal (feet)		
Forklift		Bentonite Cement Grout (feet)		
		12" Flush vaults		
		6" SS screens		

LABOR	NAME	SIGNATURE	TOTAL HRS
CREW WITH PER DIEM			
	Kevin		15.25
	Jason		15.25
	Anthony M		17.25

OPERATOR SIGNATURE

REMARKS: Anthony M off @ 12:00 AM
 2.5 HRS water sample

Client Signature

CLIENT: Intera LOCATION: ABQ, NM DATE: 2-14-22 DAY: Mon
 Job#: 1007
 Sonic - 113-22

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time			
		Mob / DeMob			
		Travel to Site			
		Pre-Shift			
		Safety Mtg			
		Drilling			
		Stand by			
		Abandon			
		Set up			
		<i>load casing in peralta</i>	5:30	6:45	1.25
		<i>Travel to site</i>	6:45	7:15	.5
		<i>Tailgate</i>	7:15	7:45	.5
		<i>warm up equip</i>	7:45	8:15	.5
<i>mw</i>	<i>7"</i>	<i>Drill</i>			
		<i>505' - 507'</i>	8:15	12:30	4.25
		<i>lunch</i>	12:30	1:00	
		<i>Drill</i>			
		<i>Try to clear out casing, Flowing sand up to 472' up in casing</i>	1:00	5:45	4.75
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up			
		Travel to Hotel			
		<i>lock up & secure site</i>	5:45	6:00	.25
		<i>travel to motel</i>	6:00	6:30	.5
TOTAL FT	0				

RIG ENGINE HOURS: START: STOP: TOTAL CHARGEABLE RIG HOURS: TOTAL: 12.5

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		TOTAL
		DESCRIPTION	SIZE	
Mob/Demob				
Drill using 7" Casing	DRILL RIG 11-28853	2" Sch 40 PVC Screen (feet)		
	SUPPORT TRUCK	2" Sch 40 PVC Riser (feet)		
Moveing from Hole to hole, Set up, tear down		4" Sch 80 PVC Riser (feet)		
Installation of 3" Sch 80 PVC	CREW TRUCK	4" Sch 80 PVC Screen (feet)		
Installation of 12" Flush Vault	TRAILER	4" Sch 40 Riser		
Traffic Controls		4" Sch 40 Riser		
Sound Curtains		Sand Pack (feet)		
Porta Pot		Bentonite Seal (feet)		
Forklift		Bentonite Cement Grout (feet)		
		12" Flush vaults		
		6" SS screens		

LABOR: CREW WITH PER DIEM: 2 TRAVEL PAY: 11

NAME: Kevin SIGNATURE: *[Signature]* TOTAL HRS: 12.5

NAME: Jason SIGNATURE: *[Signature]* TOTAL HRS: 12.5

NAME: Dalton L SIGNATURE: *[Signature]* TOTAL HRS: 11

OPERATOR SIGNATURE: _____

REMARKS: Dalton L 7-6:30

CLIENT Intera DATE 2-15-22 DAY Tue
 LOCATION ABQ, NM Sonic - 113-22 Job# 1007

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time			
		Mob / DeMob			
		Travel to Site			
		Pre-Shift			
		Safety Mtg			
		Drilling			
		Stand by			
		Abandon			
		Set up			
<u>mwl</u>	<u>10'</u>	<u>Drill</u>			
		<u>pull casing clear out sands, Drill -505-517'</u>	<u>6:20</u>	<u>6:45</u>	<u>.25</u>
		<u>water sample</u>	<u>7:45</u>	<u>8:15</u>	<u>.5</u>
<u>mwl</u>	<u>16'</u>	<u>Drill</u>			
		<u>517' - 527'</u>	<u>1:30</u>	<u>3:30</u>	<u>2</u>
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up			
		Travel to Hotel			
		<u>lock up secure site</u>	<u>5:15</u>	<u>5:30</u>	<u>.25</u>
		<u>Travel to motel</u>	<u>5:30</u>	<u>6:00</u>	<u>.5</u>
TOTAL FT	<u>20'</u>				
TOTAL CHARGEABLE RIG HOURS					

RIG ENGINE HOURS: START STOP TOTAL 12

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG 11-28853	2" Sch 40 PVC Screen (feet)		
Drill using 7" Casing	SUPPORT TRUCK	2" Sch 40 PVC Riser (feet)		
Moveing from Hole to hole, Set up, tear down	CREW TRUCK	4" Sch 80 PVC Riser (feet)		
Installation of 3" Sch 80 PVC	TRAILER	4" Sch 80 PVC Screen (feet)		
Installation of 12" Flush Vault		4" Sch 40 Riser		
Traffic Controls		4" Sch 40 Riser		
Sound Curtains		Sand Pack (feet)		
Porta Pot		Bentonite Seal (feet)		
Forklift		Bentonite Cement Grout (feet)		
		12" Flush vaults		
		6" SS screens		

LABOR	CREW WITH PER DIEM	TRAVEL PAY	TOTAL HRS	OPERATOR SIGNATURE
	<u>2</u>			
NAME	SIGNATURE		TOTAL HRS	
Kevin			<u>12</u>	
Jason			<u>12</u>	
<u>Dalton L</u>			<u>11.25</u>	

REMARKS water sample 1:30 - 3:30

Client Signature _____

CLIENT Intera LOCATION ABQ, NM DATE 2-16-22 DAY Wed
 Sonic - 113-22 Job# 1007

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time			
		Mob / DeMob			
		Travel to Site			
		Pre-Shift			
		Safety Mtg			
		Drilling			
		Stand by			
		Abandon			
		Set up			
		<i>warm up truck</i>	6:00	6:15	.25
		<i>Travel to site</i>	6:15	6:45	.5
		<i>Tailgate meeting</i>	6:45	7:15	.5
		<i>warm up equipment</i>	7:15	7:45	.5
		<i>get Broken cable repaired</i>	7:45	9:15	1.5
<i>Wed</i>	<i>10'</i>	<i>Drill</i>			
		<i>527' - 537'</i>	9:15	11:30	2.25
		<i>lunch</i>	11:30	12:00	
<i>Wed</i>	<i>10'</i>	<i>Drill</i>			
		<i>537' - 547' , free up casing & clear out</i>	12:00	5:00	5
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up			
		Travel to Hotel			
		<i>lock up, secure site</i>	5:00	5:15	.25
		<i>Fuel up, Travel to motel</i>	5:15	6:30	1.25
TOTAL FT	0	TOTAL CHARGEABLE RIG HOURS			

RIG ENGINE HOURS: START [] STOP [] TOTAL 12

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG 11-28853	2" Sch 40 PVC Screen (feet)		
Drill using 7" Casing	SUPPORT TRUCK	2" Sch 40 PVC Riser (feet)		
Moving from Hole to hole, Set up, tear down	CREW TRUCK	4" Sch 80 PVC Riser (feet)		
Installation of 3" Sch 80 PVC	TRAILER	4" Sch 80 PVC Screen (feet)		
Installation of 12" Flush Vault		4" Sch 40 Riser		
Traffic Controls		4" Sch 40 Riser		
Sound Curtains		Sand Pack (feet)		
Porta Pot		Bentonite Seal (feet)		
Forklift		Bentonite Cement Grout (feet)		
		12" Flush vaults		
		6" SS screens		

LABOR

CREW WITH PER DIEM 2 TRAVEL PAY

NAME	SIGNATURE	TOTAL HRS
Kevin	<i>[Signature]</i>	12
Jason	<i>[Signature]</i>	12
<i>Dalhorr L</i>		11.25

OPERATOR SIGNATURE

REMARKS

Client Signature



CASCADE DRILLING DAILY WORK REPORT

7773 W Seldon Ln Peoria, AZ 85345 Fax: (623) 435-0037

CLIENT: Intera DATE: 2-18-22 DAY: Thurs
 LOCATION: ABQ, NM Job#: 1007
 Sonic - 113-22

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time	6:00	6:15	.25
		Mob / DeMob			
		Travel to Site	6:15	6:45	.5
		Pre-Shift			
		Safety Mtg	6:45	7:15	.5
		Drilling			
		Stand by	7:15	8:00	.75
		Abandon			
		Set up			
<u>mw1</u>		clean out casing 547'	8:00	9:00	1
		Water sample	9:00	1:00	2.5
		lunch	11:30	12:00	
		water sample	12:00	1:45	1.75
<u>mw1</u>	<u>10'</u>	Drill 547' - 557'	1:45	2:45	1
		Move Hole-to-Hole	2:45	5:15	2.5
		Decon/IDW			
		Equip Repairs	5:15	6:15	1
		Site clean up			
		Travel to Hotel	6:15	7:00	.75
TOTAL FT	<u>0</u>	TOTAL CHARGEABLE RIG HOURS			<u>12.5</u>

RIG ENGINE HOURS: START STOP TOTAL 12.5

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/DeMob	DRILL RIG 11-28853	2" Sch 40 PVC Screen (feet)		
Drill using 7" Casing	SUPPORT TRUCK	2" Sch 40 PVC Riser (feet)		
Moveing from Hole to hole, Set up, tear down	CREW TRUCK	4" Sch 80 PVC Riser (feet)		
Installation of 3" Sch 80 PVC	TRAILER	4" Sch 80 PVC Screen (feet)		
Installation of 12" Flush Vault		4" Sch 40 Riser		
Traffic Controls		4" Sch 40 Riser		
Sound Curtains		Sand Pack (feet)		
Porta Pot		Bentonite Seal (feet)		
Forklift		Bentonite Cement Grout (feet)		
		12" Flush vaults		
		6" SS screens		

LABOR	CREW WITH PER DIEM	TRAVEL PAY	TOTAL HRS	OPERATOR SIGNATURE
	<u>3</u>			
NAME	SIGNATURE		TOTAL HRS	
Kevin			12.5	
Jason			12.5	
Dalton L			12	

REMARKS

Client Signature



CASCADE DRILLING DAILY WORK REPORT

7773 W Seldon Ln Peoria, AZ 85345 FAX: (623) 435-8837

CLIENT Intera DATE 2-18-22 DAY FRI
 LOCATION ABQ, NM Job# 1007
 Sonic - 113-22

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time	6:00	6:15	.25
		Mob / DeMob			
		Travel to Site	6:15	6:45	.5
		Pre-Shift			
		Safety Mtg	6:45	7:15	.5
		Drilling			
		Stand by	7:15	7:45	.5
		Abandon			
		Set up	7:45	8:45	1
<u>new</u>	<u>20'</u>	<u>Drill</u>	<u>8:45</u>	<u>11:30</u>	<u>2.75</u>
		<u>557' - 577'</u>	<u>11:30</u>	<u>12:00</u>	
		<u>lunch</u>	<u>12:00</u>	<u>12:30</u>	<u>3</u>
		<u>Run casing & clean out run</u>	<u>12:30</u>	<u>4:15</u>	<u>1.75</u>
		<u>Run push ahead sampler</u>			
		Move Hole-to-Hole	4:15	5:30	1.25
		Decon/IDW			
		Equip Repairs			
		Site clean up	5:30	6:00	.5
		Travel to Hotel	6:00	6:30	.5
		<u>pull casing back 25'</u>			
		<u>secure site, lock up</u>			
		<u>Travel to motel</u>			
TOTAL FT	0	TOTAL CHARGEABLE RIG HOURS			

RIG ENGINE HOURS: START STOP TOTAL 12

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED	
		DESCRIPTION	SIZE FEET
Mob/Demob	DRILL RIG 11-28853	2" Sch 40 PVC Screen (feet)	
Drill using 7" Casing	20' SUPPORT TRUCK	2" Sch 40 PVC Riser (feet)	
Moving from Hole to hole, Set up, tear down	CREW TRUCK	4" Sch 80 PVC Riser (feet)	
Installation of 3" Sch 80 PVC	TRAILER	4" Sch 80 PVC Screen (feet)	
Installation of 12" Flush Vault		4" Sch 40 Riser	
Traffic Controls		4" Sch 40 Riser	
Sound Curtains		Sand Pack (feet)	
Porta Pot		Bentonite Seal (feet)	
Forklift		Bentonite Cement Grout (feet)	
		12" Flush vaults	
		6" SS screens	

LABOR	CREW WITH PER DIEM	TRAVEL PAY	TOTAL HRS	SIGNATURE
	<u>3</u>			
NAME				
Kevin			<u>12</u>	
Jason			<u>12</u>	
Daton L			<u>11.5</u>	

REMARKS

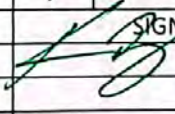

CLIENT Intera LOCATION ABQ, NM DATE 2-21-22 DAY MON
Sonic - 113-22 Job# 1007

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time			
		Mob / DeMob			
		Travel to Site			
		Pre-Shift			
		Safety Mtg			
		Drilling			
		Stand by			
		Abandon			
		Set up			
<u>mwl</u>		<u>work casing trying to get down</u>	<u>745</u>	<u>230</u>	<u>6.75</u>
<u>mwl</u>		<u>Drill 577' - 580' ☺</u>	<u>230</u>	<u>315</u>	<u>.75</u>
		<u>Try to get casing down won't go past 568'</u>	<u>235</u>	<u>500</u>	<u>1.75</u>
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up			
		Travel to Hotel			
TOTAL FT	<u>0</u>	TOTAL CHARGEABLE RIG HOURS	<u>500</u>	<u>530</u>	<u>1</u>

RIG ENGINE HOURS: START [] STOP [] TOTAL 12.5

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG 11-28853	2" Sch 40 PVC Screen (feet)		
Drill using 7" Casing	SUPPORT TRUCK	2" Sch 40 PVC Riser (feet)		
Moveing from Hole to hole, Set up, tear down	CREW TRUCK	4" Sch 80 PVC Riser (feet)		
Installation of 3" Sch 80 PVC	TRAILER	4" Sch 80 PVC Screen (feet)		
Installation of 12" Flush Vault		4" Sch 40 Riser		
Traffic Controls		4" Sch 40 Riser		
Sound Curtains		Sand Pack (feet)		
Porta Pot		Bentonite Seal (feet)		
Forklift		Bentonite Cement Grout (feet)		
		12" Flush vaults		
		6" SS screens		

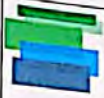
LABOR

CREW WITH PER DIEM	<u>3</u>	TRAVEL PAY	
NAME	SIGNATURE	TOTAL HRS	
Kevin		<u>12.5</u>	
Jason		<u>12.5</u>	
<u>Dalton L</u>		<u>12</u>	

OPERATOR SIGNATURE []

REMARKS

Client Signature []



CASCADe

DRILLING | TECHNICAL SERVICES

CASCADE DRILLING DAILY WORK REPORT

7773 W Seldon Ln Peoria, AZ 85345 FAX: (623) 435-8837

CLIENT: **Intera** LOCATION: **ABQ, NM** DATE: **2-22-22** DAY: **Tue**
 Job#: **1007** Sonic - 113-22

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time			
		Mob / DeMob			
		Travel to Site			
		Pre-Shift			
		Safety Mtg			
		Drilling			
		Stand by			
		Abandon			
		Set up			
MW1		multiple clean out runs trying to find where or if we have a broken piece of casing or if the shoe is destroyed	745	500	9.25
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up			
		Travel to Hotel			
TOTAL FT	0				
TOTAL CHARGEABLE RIG HOURS			520	515	1.25
TOTAL CHARGEABLE RIG HOURS			515	615	1

RIG ENGINE HOURS: START: _____ STOP: _____ TOTAL: **12.25**

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG 11-28853	2" Sch 40 PVC Screen (feet)		
Drill using 7" Casing	SUPPORT TRUCK	2" Sch 40 PVC Riser (feet)		
Moveing from Hole to hole, Set up, tear down	CREW TRUCK	4" Sch 80 PVC Riser (feet)		
Installation of 3" Sch 80 PVC	TRAILER	4" Sch 80 PVC Screen (feet)		
Installation of 12" Flush Vault		4" Sch 40 Riser		
Traffic Controls		4" Sch 40 Riser		
Sound Curtains		Sand Pack (feet)		
Porta Pot		Bentonite Seal (feet)		
Forklift		Bentonite Cement Grout (feet)		
		12" Flush vaults		
		6" SS screens		

LABOR	NAME	SIGNATURE	TOTAL HRS	OPERATOR SIGNATURE
CREW WITH PER DIEM	3			
	Kevin		12.25	
	Jason		12.25	
	Dalton		11.75	

REMARKS

Client Signature

CLIENT Intera DATE 2-23-22 DAY wed
 LOCATION ABQ, NM Job# 1007
 Sonic - 113-22

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time	6:00	6:45	.25
		Mob / DeMob			
		Travel to Site	6:15	6:45	.5
		Pre-Shift			
		Safety Mtg	6:45	7:15	.5
		Drilling			
		Stand by	7:15	7:45	.5
		Abandon			
		Set up			
		Try to free up casing, Replace Broken hose in control panel, winterize equipment	7:45	8:45	1.0
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up	8:45	9:00	.25
		Travel to Hotel	9:00	9:30	.5
TOTAL FT	0	TOTAL CHARGEABLE RIG HOURS			12.5

RIG ENGINE HOURS: START [] STOP [] TOTAL 12.5

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG 11-28853	2" Sch 40 PVC Screen (feet)		
Drill using 7" Casing	SUPPORT TRUCK	2" Sch 40 PVC Riser (feet)		
Moveing from Hole to hole, Set up, tear down	CREW TRUCK	4" Sch 80 PVC Riser (feet)		
Installation of 3" Sch 80 PVC	TRAILER	4" Sch 80 PVC Screen (feet)		
Installation of 12" Flush Vault		4" Sch 40 Riser		
Traffic Controls		4" Sch 40 Riser		
Sound Curtains		Sand Pack (feet)		
Porta Pot		Bentonite Seal (feet)		
Forklift		Bentonite Cement Grout (feet)		
		12" Flush vaults		
		6" SS screens		

LABOR	NAME	SIGNATURE	TOTAL HRS	OPERATOR SIGNATURE
CREW WITH PER DIEM	3	TRAVEL PAY		
	Kevin		12.5	
	Jason		12.5	
	Dalton L		12	

REMARKS

Client Signature

CLIENT: Intera
 LOCATION: ABQ, NM
 DATE: 2-24-22
 DAY: Thurs
 Sonic - 113-22
 Job# 1007

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time			
		Mob / DeMob			
		Travel to Site			
		Pre-Shift			
		Safety Mtg			
		Drilling			
		Stand by			
		Abandon			
		Set up			
		try getting casing to move up	745	900	1.25
		Broke pin on tower, get basket lift new pin made wait for welder w/o 18302	900	445	7.75
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up	445	500	.25
		Travel to Hotel	500	530	.5
TOTAL FT	0	TOTAL CHARGEABLE RIG HOURS			

RIG ENGINE HOURS: START STOP TOTAL 11.5

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG 11-28853	2" Sch 40 PVC Screen (feet)		
Drill using 7" Casing	SUPPORT TRUCK	2" Sch 40 PVC Riser (feet)		
Moveing from Hole to hole, Set up, tear down	CREW TRUCK	4" Sch 80 PVC Riser (feet)		
Installation of 3" Sch 80 PVC	TRAILER	4" Sch 80 PVC Screen (feet)		
Installation of 12" Flush Vault		4" Sch 40 Riser		
Traffic Controls		4" Sch 40 Riser		
Sound Curtains		Sand Pack (feet)		
Porta Pot		Bentonite Seal (feet)		
Forklift		Bentonite Cement Grout (feet)		
		12" Flush vaults		
		6" SS screens		

LABOR

CREW WITH PER DIEM	3	TRAVEL PAY	
NAME	SIGNATURE	TOTAL HRS	
Kevin		11.5	
Jason		11.5	
Dalton L		11	

OPERATOR SIGNATURE

REMARKS

Client Signature

CLIENT **Intera** LOCATION **ABQ, NM** DATE **2-25-22** DAY **FRI**
 Job# **1007**
 Sonic - 113-22

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time			
		Mob / DeMob	6:00	6:25	.25
		Travel to Site	6:25	6:45	.5
		Pre-Shift			
		Safety Mtg	6:45	7:15	.5
		Drilling			
		Stand by	7:15	9:00	1.75
		Abandon			
		Set up			
		get Rig welders back together put pin back in tower for head cylinder w/o 18302	9:00	2:45	5.75
		Take basket lift back to united w/o 18302	2:45	3:45	1
		Move Hole-to-Hole	3:45	4:30	.75
		Decon/IDW			
		Equip Repairs			
		Site clean up			
		Travel to Hotel	4:30	9:30	5
TOTAL FT	0	TOTAL CHARGEABLE RIG HOURS			15.5

RIG ENGINE HOURS: START [] STOP [] TOTAL **15.5**

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/DEMOb	DRILL RIG 11-28853	2" Sch 40 PVC Screen (feet)		
Drill using 7" Casing	SUPPORT TRUCK	2" Sch 40 PVC Riser (feet)		
Moveing from Hole to hole, Set up, tear down	CREW TRUCK	4" Sch 80 PVC Riser (feet)		
Installation of 3" Sch 80 PVC	TRAILER	4" Sch 80 PVC Screen (feet)		
Installation of 12" Flush Vault		4" Sch 40 Riser		
Traffic Controls		4" Sch 40 Riser		
Sound Curtains		Sand Pack (feet)		
Porta Pot		Bentonite Seal (feet)		
Forklift		Bentonite Cement Grout (feet)		
		12" Flush vaults		
		6" SS screens		

LABOR	CREW WITH PER DIEM	TRAVEL PAY	SIGNATURE	TOTAL HRS
Kevin			<i>[Signature]</i>	15.5
Jason				15.5
Duffin L				10

OPERATOR SIGNATURE _____

REMARKS **w/o 18302**

Client Signature _____

CLIENT: **Intera** LOCATION: **ABQ, NM** DATE: **2-28-22** DAY: **Mon**
 Job#: **1007** Sonic - 113-22

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time			
		Mob / DeMob	6:00	6:15	.25
		Travel to Site			
		Pre-Shift	6:15	6:45	.5
		Safety Mtg			
		Drilling	6:45	7:15	.5
		Stand by			
		Abandon	7:15	7:00	1.75
		Set up			
		Trip in 6" casing to 580'	9:00	12:15	3.25
		lunch	12:15	12:45	
		clear out casing	12:45	2:00	1.25
		water sample	2:00	4:15	2.25
mw1	12'	Drill 580' - 597'	4:15	5:15	1
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up			
		Travel to Hotel	5:15	5:45	.5
TOTAL FT	0	lock up, secure site get fuel, Travel to motel	5:45	6:30	.75
TOTAL CHARGEABLE RIG HOURS					12

RIG ENGINE HOURS: START: STOP: TOTAL: 12

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG 11-28853	2" Sch 40 PVC Screen (feet)		
Drill using 7" Casing	SUPPORT TRUCK	2" Sch 40 PVC Riser (feet)		
Moving from Hole to hole, Set up, tear down	CREW TRUCK	4" Sch 80 PVC Riser (feet)		
Installation of 3" Sch 80 PVC	TRAILER	4" Sch 80 PVC Screen (feet)		
Installation of 12" Flush Vault		4" Sch 40 Riser		
Traffic Controls		4" Sch 40 Riser		
Sound Curtains		Sand Pack (feet)		
Porta Pot		Bentonite Seal (feet)		
Forklift		Bentonite Cement Grout (feet)		
		12" Flush vaults		
		6" SS screens		

LABOR	CREW WITH PER DIEM	TRAVEL PAY	TOTAL HRS	OPERATOR SIGNATURE
	3			
NAME		SIGNATURE	TOTAL HRS	
Kevin			12	
Jason			12	
Dafton L			11.5	

REMARKS

Client Signature



CASCADe

DRILLING | TECHNICAL SERVICES

CASCADE DRILLING DAILY WORK REPORT

7775 W Seldon Ln Peoria, AZ 85345 Fax: (623) 435-6637

CLIENT	Intera	DATE	3-1-22	DAY	Tue
LOCATION	ABQ, NM		Sonic - 113-22	Job#	1007

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time	6:00	6:45	.75
		Mob / DeMob			
		Travel to Site	6:15	6:45	.5
		Pre-Shift			
		Safety Mtg	6:45	7:15	.5
		Drilling			
		Stand by	7:15	8:00	.75
		Abandon			
		Set up			
Mul	3'	brill	8:00	8:45	1.75
		Clear casing to 597' Drill 597' - 600'			
		water sample @ 600'	7:45	12:15	2.5
		lunch	12:15	12:45	
Mul	10'	Drill	12:45	5:15	4.5
		600' - 610' run and clear casing 610'			
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up	5:15	5:30	.25
		Travel to Hotel	5:30	6:00	.5

TOTAL FT	0	TOTAL CHARGEABLE RIG HOURS	11.5
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RIG ENGINE HOURS:		START	STOP	TOTAL
				11.5

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG	11-28853	2" Sch 40 PVC Screen (feet)	
Drill using 7" Casing	SUPPORT TRUCK		2" Sch 40 PVC Riser (feet)	
Moving from Hole to hole, Set up, tear down	CREW TRUCK		4" Sch 80 PVC Riser (feet)	
Installation of 3" Sch 80 PVC	TRAILER		4" Sch 80 PVC Screen (feet)	
Installation of 12" Flush Vault			4" Sch 40 Riser	
Traffic Controls			4" Sch 40 Riser	
Sound Curtains			Sand Pack (feet)	
Porta Pot			Bentonite Seal (feet)	
Forklift			Bentonite Cement Grout (feet)	
			12" Flush vaults	
			6" SS screens	

LABOR				
CREW WITH PER DIEM	3	TRAVEL PAY		
NAME		SIGNATURE	TOTAL HRS	
Kevin			11.5	
Jason			11.5	
			11	

REMARKS

Operator Signature



CASCADe

DRILLING | TECHNICAL SERVICES

CASCADe DRILLING DAILY WORK REPORT

7775 W Seidon Ln Peoria, AZ 85345 Fax: (623) 435-8837

CLIENT **Intera** LOCATION **ABQ, NM** DATE **3-2-22** DAY **WED**
 Job# **1007**
 Sonic - 113-22

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time			
		Mob / DeMob			
		Travel to Site	6:15	6:45	.5
		Pre-Shift			
		Safety Mtg	6:45	7:15	.5
		Drilling			
		Stand by	7:15	7:45	.5
		Abandon			
		Set up			
		clean out run to 609'	7:45	9:30	1.75
		geologic log by Jet west	9:30	3:15	5.75
		lock up site	3:15	3:30	.25
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up			
		Travel to Hotel	3:30	5:00	1.5

TOTAL FT **0** TOTAL CHARGEABLE RIG HOURS **11**

RIG ENGINE HOURS: START STOP TOTAL **11**

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG 11-28853	2" Sch 40 PVC Screen (feet)		
Drill using 7" Casing	SUPPORT TRUCK	2" Sch 40 PVC Riser (feet)		
Moving from Hole to hole, Set up, tear down	CREW TRUCK	4" Sch 80 PVC Riser (feet)		
Installation of 3" Sch 80 PVC	TRAILER	4" Sch 80 PVC Screen (feet)		
Installation of 12" Flush Vault		4" Sch 40 Riser		
Traffic Controls		4" Sch 40 Riser		
Sound Curtains		Sand Pack (feet)		
Porta Pot		Bentonite Seal (feet)		
Forklift		Bentonite Cement Grout (feet)		
		12" Flush vaults		
		6" SS screens		

LABOR

CREW WITH PER DIEM **3** TRAVEL PAY

NAME	SIGNATURE	TOTAL HRS	OPERATOR SIGNATURE
Kevin	<i>[Signature]</i>	11	
Jason		11	
Damon		10.5	

REMARKS

Client Signature



CASCADE

DRILLING | TECHNICAL SERVICES

CASCADE DRILLING DAILY WORK REPORT

7773 W Seldon Ln Peoria, AZ 85345 FAX: (623) 438-8837

CLIENT **Intera** DATE **3-3-22** DAY **Thur**
 LOCATION **ABQ, NM** Job# **1007**
 Sonic - 113-22

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time			
		Mob / DeMob			
		Travel to Site			
		Pre-Shift			
		Safety Mtg			
		Drilling			
		Stand by			
		Abandon			
		Set up			
		Backfill to 595' pull 6" casing	7:15	12:30	4.75
		lunch	12:30	1:00	
		pull 6" casing and load trailer	1:00	5:15	5.25
		lock up secure load	5:15	5:45	.5
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up			
		Travel to hotel	5:45	6:15	.5
		Travel to motel	6:15	6:45	.5

TOTAL FT **0** TOTAL CHARGEABLE RIG HOURS **12.25**

RIG ENGINE HOURS: START STOP TOTAL **12.25**

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG	2" Sch 40 PVC Screen (feet)		
Drill using 7" Casing	SUPPORT TRUCK	2" Sch 40 PVC Riser (feet)		
Moving from Hole to hole, Set up, tear down	CREW TRUCK	4" Sch 80 PVC Riser (feet)		
Installation of 3" Sch 80 PVC	TRAILER	4" Sch 80 PVC Screen (feet)		
Installation of 12" Flush Vault		4" Sch 40 Riser		
Traffic Controls		4" Sch 40 Riser		
Sound Curtains		Sand Pack (feet)		
Porta Pot		Bentonite Seal (feet)		
Forklift		Bentonite Cement Grout (feet)		
		12" Flush vaults		
		6" SS screens		

LABOR

CREW WITH PER DIEM **3** TRAVEL PAY

NAME	SIGNATURE	TOTAL HRS
Kevin	<i>[Signature]</i>	12.25
Jason	<i>[Signature]</i>	12.25
Dutton L	<i>[Signature]</i>	11.75

OPERATOR SIGNATURE

REMARKS

Client Signature

CLIENT Intera DATE 3-8-22 DAY Tue
 LOCATION ABQ, NM Job# 1007
 Sonic - 113-22

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time	6:00	6:45	.25
		Mob / DeMob			
		Travel to Site	6:15	6:45	.5
		Pre-Shift			
		Safety Mtg	6:45	7:15	.5
		Drilling			
		Stand by	7:15	9:00	1.75
		Abandon			
		Set up			
		pull up 8" casing mix mud start washing down, set up mud tub	9:00	5:45	8.75
		Move Hole-to-Hole			
		Decon/IDW			
		Equip Repairs			
		Site clean up	5:45	6:00	.25
		Travel to Hotel	6:00	6:30	.5

TOTAL FT 0 TOTAL CHARGEABLE RIG HOURS 12.5

RIG ENGINE HOURS: START STOP TOTAL 12.5

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	FEET
Mob/Demob	DRILL RIG 11-28853	2" Sch 40 PVC Screen (feet)		
Drill using 7" Casing	SUPPORT TRUCK	2" Sch 40 PVC Riser (feet)		
Moving from Hole to hole, Set up, tear down	CREW TRUCK	4" Sch 80 PVC Riser (feet)		
Installation of 3" Sch 80 PVC	TRAILER	4" Sch 80 PVC Screen (feet)		
Installation of 12" Flush Vault		4" Sch 40 Riser		
Traffic Controls		4" Sch 40 Riser		
Sound Curtains		Sand Pack (feet)		
Porta Pot		Bentonite Seal (feet)		
Forklift		Bentonite Cement Grout (feet)		
		12" Flush vaults		
		6" SS screens		

LABOR		SIGNATURE	TOTAL HRS	OPERATOR SIGNATURE
CREW WITH PER DIEM	TRAVEL PAY			
<u>3</u>			<u>12.5</u>	
NAME			<u>12.5</u>	
Kevin			<u>12</u>	
Jason				
Dalton L				

REMARKS

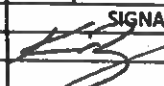
Client Signature

CLIENT **Intera** DATE **3-9-22** DAY **Wed**
 JOB LOCATION **801 Indiana Street** Sonic - 113-22 Job# **1007**

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time			
		Travel to Site	6:00	6:15	.25
		Mob / DeMob	6:15	6:45	.5
		Safety Mtg	6:45	7:15	.5
		Pre-Shift	7:15	7:45	.5
		Drilling			
		which carry to 390' pull back 20' back box make	7:45	2:15	4.0
		Equip Repairs	2:15	5:45	3.5
		Travel to Hotel	5:45	6:00	.25
			6:00	6:30	.5

TOTAL FT	TOTAL CHARGEABLE RIG HOURS			TOTAL	12.5
RIG ENGINE HOURS:	START	STOP			

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	QTY
Mob/Demob	DRILL RIG			
Fencing	Support Truck			
Sound Curtains	Crew Truck			
Porta Pot				
Forklift				
Drums				
Feet of drilling 8" x 6"				
Feet of Drilling 7" x 6"				
Well Installation (feet)				
Vault (each)				

LABOR		TOTAL HRS
CREW WITH PER DIEM	3	
TRAVEL PAY		
NAME	SIGNATURE	TOTAL HRS
Kevin		12.5
Jason		12.5
Dalton		12

REMARKS
w/o 18454

CLIENT SIGNATURE _____ OPERATOR SIGNATURE _____



CASCADE

CASCADE DRILLING DAILY WORK REPORT

7773 W. Seldon Lane Peoria, AZ 85345 Fax: (623) 455-883

CLIENT		Intera		DATE	3-17-22		DAY	Thurs	
JOB LOCATION		801 Indiana Street		Sonic - 113-22		Job#	1007		
HOLE #	Footage	DESCRIPTION OF WORK				HOURS		TOTAL HOURS	
						START	STOP		
		AM Shop Time				6am	6:15	.25	
		Travel to Site	Warm up truck			6:15	6:45	.5	
		Mob / DeMob	Travel to site						
		Safety Mtg	Talgate meeting			6:45	7:15	.5	
		Pre-Shift							
		Drilling							
		W/O 18302	get in boom lift & remove broken spacer prep work area for welders			7:15	10:00	2.75	
		W/O 18302	have welders re-attach Bushing			10:00	12:45	2.75	
		W/O 18302	put pin back into cylinder			12:45	2:00	1.25	
			Run casing down to 420' pull back to 400'			2:00	6:00	4	
		Equip Repairs							
		Travel to Hotel	lock up, secure site			6:00	6:30	.5	
			Travel to motel			6:30	7:00	.5	
TOTAL FT		TOTAL CHARGEABLE RIG HOURS							

RIG ENGINE HOURS:	START	STOP	TOTAL	13
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BILLABLE ITEMS		EQUIPMENT		MATERIALS USED		
				DESCRIPTION	SIZE	QTY
Mob/Demob		DRILL RIG	28853			
Fencing		Support Truck				
Sound Curtains		Crew Truck				
Porta Pot						
Forklift						
Drums						
Feet of drilling 8" x 6"						
Feet of Drilling 7" x 6"						
Well Installation (feet)						
Vault (each)						
LABOR						
CREW WITH PER DIEM	3	TRAVEL PAY				
NAME	SIGNATURE		TOTAL HRS			
Kevin			13			
Jason			8.5			
Dalton			13			

REMARKS: Jason left for Airport @ 2:30



CLIENT **Intera** DATE **3-21-22** DAY **no**
 JOB LOCATION **801 Indiana Street** Job# **1007**
Sonic - 113-22

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time			
		Travel to Site	7:00	7:15	.15
		Mob / DeMob	7:15	7:35	.20
		Safety Mtg			
		Pre-Shift			
		Drilling			
		Trip out 8" → Trip out & change 7" shoe Run 7" down to 587', clean out run	7:45	8:45	1.00
		Equip Repairs	5:45	6:10	.25
		Travel to Hotel	6:00	6:30	.30
		Tail gate	7:45	8:15	.30
		lock up, secure site			
		Travel to hotel			

TOTAL FT _____ TOTAL CHARGEABLE RIG HOURS **11.5**

RIG ENGINE HOURS: START _____ STOP _____ TOTAL **11.5**

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	QTY
Mob/Demob	DRILL RIG			
Fencing	Support Truck			
Sound Curtains	Crew Truck			
Porta Pot				
Forklift				
Drums				
Feet of drilling 8"x 6"				
Feet of Drilling 7" x 6"				
Well Installation (feet)				
Vault (each)				

LABOR			
NAME	SIGNATURE	TOTAL HRS	
Kevin	<i>[Signature]</i>	11.5	
Jason		11.5	
Dalton		11.5	

REMARKS _____



CLIENT Intera DATE 3-28-22 DAY Wed
 JOB LOCATION 801 Indiana Street Sonic - 113-22 Job# 1007

HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time	6:00	6:35	.35
		Travel to Site	6:45	6:45	.5
		Mob / DeMob			
		Safety Mtg	6:45	7:15	.5
		Pre-Shift	7:15	7:45	.5
		Drilling			
		try to clean out to low'	7:45	12:00	4.25
		lunch	12:00	12:30	
		Try to get cleaned out to low'	12:30	5:45	5.25
		Equip Repairs	5:45	6:00	.25
		Travel to Hotel	6:00	6:30	.5

TOTAL FT _____ TOTAL CHARGEABLE RIG HOURS _____
 RIG ENGINE HOURS: START _____ STOP _____ TOTAL 12

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	QT
Mob/Demob	DRILL RIG			
Fencing	Support Truck			
Sound Curtains	Crew Truck			
Porta Pot				
Forklift				
Drums				
Feet of drilling 8" x 6"				
Feet of Drilling 7" x 6"				
Well Installation (feet)				
Vault (each)				

LABOR			
CREW WITH PER DIEM	TRAVEL PAY	SIGNATURE	TOTAL HRS
3		<i>[Signature]</i>	12
			12
			12

REMARKS _____



CASCADRE

DRILLING & TECHNICAL SERVICES

CASCADE DRILLING DAILY WORK REPORT

7773 W. Seldon Lane Peoria, AZ 85345 Fax: (623) 455-883

CLIENT		DATE		DAY	
Intera		3-23-22		Wed	
JOB LOCATION		Job#		TOTAL HOURS	
801 Indiana Street		1007		Sonic - 113-22	
HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
			START	STOP	
		AM Shop Time	6:45	6:15	.25
		Travel to Site	6:15	6:30	.5
		Mob / DeMob			
		Safety Mtg	6:45	7:15	.5
		Pre-Shift			
		Drilling			
		pull 7" casing & load greg's trailer	7:15	10:30	3.25
		switch out 7" for 8" casing	10:30	12:00	2.5
		Trip to 8" and fish out casing	1:00	6:00	5
		look up secure site	6:00	6:30	.5
		Equip Repairs			
		Travel to Hotel	6:30	7:00	.5
TOTAL FT			TOTAL CHARGEABLE RIG HOURS		
			TOTAL 13		

RIG ENGINE HOURS:		START	STOP	MATERIALS USED		
BILLABLE ITEMS		EQUIPMENT		DESCRIPTION	SIZE	QTY
Mob/DeMob			DRILL RIG			
Fencing			Support Truck			
Sound Curtains			Crew Truck			
Porta Pot						
Forklift						
Drums						
Feet of drilling 8"x 6"						
Feet of Drilling 7" x 6"						
Well Installation (feet)						
Vault (each)						
LABOR						
CREW WITH PER DIEM	3	TRAVEL PAY				
NAME		SIGNATURE	TOTAL HRS			
Kevin			13			
Jason			13			
Dalton			13			

REMARKS



CASCADE DRILLING DAILY WORK REPORT
 7773 W. Seldon Lane Peoria, AZ 85345 Fax: (623) 455-8837

CLIENT		Intera	DATE	3-24	DAY	Thurs
JOB LOCATION		801 Indiana Street	Sonic - 113-22	Job#	1007	
HOLE #	Footage	DESCRIPTION OF WORK	HOURS		TOTAL HOURS	
			START	STOP		
		AM Shop Time				
		Travel to Site	7:00	7:15	.25	
		Mob / DeMob	7:15	8:00	.75	
		Safety Mtg	8:20	8:30	.5	
		Pre-Shift				
		Drilling				
		cut out top from Bad casing	8:30	9:30	1	
		Trip 8" back in hole	9:30	11:00	1.5	
		clean out mud mixer, change out plastic unload trailer, move bean pump	11:00	5:45	4.75	
		lock up, secure site	5:45	6:00	.25	
		Travel to petatta shop, unload truck load truck	6:00	7:00	1	
		Equip Repairs				
		Travel to Hotel	7:00	7:45	.75	
TOTAL FT			TOTAL CHARGEABLE RIG HOURS			

RIG ENGINE HOURS:	START	STOP	TOTAL	12.75
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BILLABLE ITEMS	EQUIPMENT	MATERIALS USED		
		DESCRIPTION	SIZE	QTY
Mob/Demob	DRILL RIG			
Fencing	Support Truck			
Sound Curtains	Crew Truck			
Porta Pot				
Forklift				
Drums				
Feet of drilling 8"x 6"				
Feet of Drilling 7" x 6"				
Well Installation (feet)				
Vault (each)				

LABOR			
NAME	SIGNATURE	TOTAL HRS	
CREW WITH PER DIEM	3	TRAVEL PAY	
Kevin		12.75	
Jason		12.75	
Dalton		11.5	

REMARKS

CLIENT SIGNATURE _____ OPERATOR SIGNATURE _____



CLIENT	Intera	DATE	3-25-22	DAY	FRI
JOB LOCATION	801 Indiana Street		Sonic - 113-22	Job#	1007

HOLE #	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
		START	STOP	
	Travel to Site			
	Safety Mtg			
	Pre-Shift			
	8" casing stuck at 445'			
	Start washing 9" casing over			
	LUNCH	12:00	12:30	
	9" 0 - 110'			
	Pump Leaking to Bad.			
	mate brought pump from Peralta but it was too big.			
	Travel to Hotel	6:30	7:00	
		TOTAL CHARGEABLE RIG HOURS		

RIG ENGINE HOURS:	START	STOP	TOTAL	11.5
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BILLABLE ITEMS		EQUIPMENT		MATERIALS USED	
				DESCRIPTION	QTY
Mob/Demob		DRILL RIG			
Fencing		SUPPORT TRUCK			
Sound Curtains		CREW TRUCK			
Porta Pot		Trailer			
Forklift					
Drums					
Feet of drilling 8" x 6"					
Feet of drilling 7" x 6"					
Well Installation					
Vault					
LABOR					
CREW WITH PER DIEM	TRAVEL PAY				
NAME	SIGNATURE	TOTAL HRS			
Kevin	Ron Cain				
Jason					
Dalton					

REMARKS	
CLIENT SIGNATURE	OPERATOR SIGNATURE

CLIENT **Intera** DATE **3/28/22** DAY **Mon**
 JOB LOCATION **801 Indiana Street** Sonic - 113-22 Job# **1007**

HOLE #	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
		START	STOP	
	Travel to Site			
	Safety Mtg			
	Pre-Shift			
	<i>TRAVEL to site</i>	<i>7:00</i>	<i>7:30</i>	<i>.5</i>
	<i>TRAILGATE MEETING</i>	<i>7:30</i>	<i>8:00</i>	<i>.5</i>
	<i>break over Rebuilt pump and get bigger hose for Kelly Line.</i>			
	<i>LUNCH</i>	<i>12:00</i>	<i>12:30</i>	<i>.5</i>
	<i>9" 110' - 250'</i>			
	Travel to Hotel			
		<i>5:00</i>	<i>5:30</i>	<i>.5</i>

TOTAL CHARGEABLE RIG HOURS

RIG ENGINE HOURS: START STOP TOTAL **10**

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED	
		DESCRIPTION	QTY
Mob/Demob	DRILL RIG		
Fencing	SUPPORT TRUCK		
Sound Curtains	CREW TRUCK		
Porta Pot	Trailer		
Forklift			
Drums			
Feet of drilling 8" x 6"			
Feet of drilling 7" x 6"			
Well Installation			
Vault			

LABOR

CREW WITH PER DIEM	TRAVEL PAY	SIGNATURE	TOTAL HRS
Kevin		<i>Ron Cam</i>	
Jason			
Dalton			

REMARKS

CLIENT SIGNATURE OPERATOR SIGNATURE

CLIENT **Intera** DATE **3/30/22** DAY **WED**
 JOB LOCATION **801 Indiana Street** Sonic - 113-22 Job# **1007**

HOLE #	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
		START	STOP	
	Travel to Site	7:00	7:30	.5
	Safety Mtg			
	Pre-Shift	7:30	8:00	.5
	WASH 9" casing 330' - 365'			
	Lunch	12:00	12:30	.5
	STOP & Rebuilt Pump - (Replace seals)			
	WASH 9" 365' - 385'			
	Travel to Hotel	6:00	6:30	.5
TOTAL CHARGEABLE RIG HOURS				

RIG ENGINE HOURS:	START	STOP	TOTAL
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BILLABLE ITEMS		EQUIPMENT		MATERIALS USED	
				DESCRIPTION	QTY
Mob/Demob		DRILL RIG			
Fencing		SUPPORT TRUCK			
Sound Curtains		CREW TRUCK			
Porta Pot		Trailer			
Forklift					
Drums					
Feet of drilling 8" x 6"					
Feet of drilling 7" x 6"					
Well Installation					
Vault					
LABOR					
CREW WITH PER DIEM		TRAVEL PAY			
NAME	SIGNATURE		TOTAL HRS		
Kevin	<i>Ron Cain</i>				
Jason	<i>Jesus Pacheco</i>				
Dalton					

REMARKS

CLIENT SIGNATURE _____ OPERATOR SIGNATURE _____

CLIENT **Intera** DATE **3/31/22** DAY **THURS**
 JOB LOCATION **801 Indiana Street** Sonic - 113-22 Job# **1007**

HOLE #	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
		START	STOP	
	Travel to Site			
	Safety Mtg	7:00	7:30	.5
	Pre-Shift	7:30	8:00	.5
	Start w/ 9" casing at 385'			
	Lunch	12:00	12:30	.5
	Wash down to 425' BGS.			
	Travel to Hotel	6:00	6:30	.5

TOTAL CHARGEABLE RIG HOURS

RIG ENGINE HOURS:	START	STOP	TOTAL
			11

BILLABLE ITEMS		EQUIPMENT		MATERIALS USED	
				DESCRIPTION	QTY
Mob/Demob		DRILL RIG			
Fencing		SUPPORT TRUCK			
Sound Curtains		CREW TRUCK			
Porta Pot		Trailer			
Forklift					
Drums					
Feet of drilling 8" x 6"					
Feet of drilling 7" x 6"					
Well Installation					
Vault					

LABOR			
CREW WITH PER DIEM	TRAVEL PAY	SIGNATURE	TOTAL HRS
Kevin			
Jason			
Dalton			

REMARKS

CLIENT SIGNATURE _____ OPERATOR SIGNATURE _____

CLIENT **Intera** DATE **4/1/22** DAY **FR**
 JOB LOCATION **801 Indiana Street** Sonic - 113-22 Job# **1007**

HOLE #	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
		START	STOP	
	Travel to Site			
	Safety Mtg	7:00	7:30	.5
	Pre-Shift	7:30	8:00	.5
	Finished washing 9" over 8" 425' - 445'			
	TRIPPED out 9" casing TRIPPED out 8" casing			
		12:00	12:30	.5
	Ran in 7" casing 0-565' and started clean out.			
	7" - 565' - 575'			
	Travel to Hotel	6:00	6:30	.5

TOTAL CHARGEABLE RIG HOURS

RIG ENGINE HOURS:	START	STOP	TOTAL	11
--------------------------	-------	------	-------	-----------

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED	
		DESCRIPTION	QTY
Mob/Demob	DRILL RIG		
Fencing	SUPPORT TRUCK		
Sound Curtains	CREW TRUCK		
Porta Pot	Trailer		
Forklift			
Drums			
Feet of drilling 8" x 6"			
Feet of drilling 7" x 6"			
Well Installation			
Vault			

LABOR

CREW WITH PER DIEM	TRAVEL PAY	TOTAL HRS
NAME	SIGNATURE	TOTAL HRS
Kevin		
Jason		
Dalton		

REMARKS

CLIENT SIGNATURE

OPERATOR SIGNATURE



CLIENT	Intera	DATE	4/2/22	DAY	SAT
JOB LOCATION	801 Indiana Street		Sonic - 113-22	Job#	1007

HOLE #	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
		START	STOP	
	Travel to Site			
	Safety Mtg	7:00	7:30	.5
	Pre-Shift	7:30	8:00	.5
	drill & clean out borehole 575-605'			
	Lunch	12:00	12:30	.5
	TRIP OUT of Borehole			
	Break down Rods & put away			
	Run in well 0-605 w/ 5' slump			
	Send from 605' - 465'			
	pull casing from 605' up to 465'			
	Travel to Hotel	11:00	11:30	

TOTAL CHARGEABLE RIG HOURS				TOTAL	16
RIG ENGINE HOURS:	START	STOP			

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED	
		DESCRIPTION	QTY
Mob/Demob	DRILL RIG		
Fencing	SUPPORT TRUCK	3x10 Screen	30'
Sound Curtains	CREW TRUCK	3x10 Riser	575'
Porta Pot	Trailer	SAND	
Forklift			
Drums			
Feet of drilling 8" x 6"			
Feet of drilling 7" x 6"			
Well Installation			
Vault			

LABOR			
CREW WITH PER DIEM	TRAVEL PAY	SIGNATURE	TOTAL HRS
NAME			
Kevin		<i>Ron Can</i>	
Jason			
Dalton			

REMARKS

CLIENT SIGNATURE _____ OPERATOR SIGNATURE _____

CLIENT **Intera** DATE **4/8/22** DAY **THU**
 JOB LOCATION **801 Indiana Street** Sonic - 113-22 Job# **1007**

HOLE #	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
		START	STOP	
	Travel to Site			
	Safety Mtg	7:00	7:30	
	Pre-Shift	7:30	8:00	
	7:45 ADD Bent. Seal 565' - 555'			
	Set up for grout mix & pump			
	12 batches of Cement/Bent. Grout. Estimate 280' of grout 225' AGS			
	4 batch	12:40	12:30	.5
	Clean up site HAULING of casing			
	Travel to Hotel	5:00	5:30	

TOTAL CHARGEABLE RIG HOURS

RIG ENGINE HOURS:	START	STOP	TOTAL
--------------------------	-------	------	-------

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED	
		DESCRIPTION	QTY
Mob/Demob	DRILL RIG	HOLE PROGS	4
Fencing	SUPPORT TRUCK		
Sound Curtains	CREW TRUCK	Cement	96
Porta Pot	Trailer	Gel	16
Forklift			
Drums			
Feet of drilling 8" x 6"			
Feet of drilling 7" x 6"			
Well Installation			
Vault			
LABOR			
CREW WITH PER DIEM	TRAVEL PAY		
NAME	SIGNATURE	TOTAL HRS	
Kevin			
Jason			
Dalton			

REMARKS

CLIENT SIGNATURE _____ OPERATOR SIGNATURE _____

CLIENT **Intera** DATE **4/4/22** DAY **Mgn.**
 JOB LOCATION **801 Indiana Street** Sonic - 113-22 Job# **1007**

HOLE #	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
		START	STOP	
	Travel to Site			
	Safety Mtg			.5
	Pre-Shift			.5
	<i>Load 8" & 9" off street. Tank</i>			
	<i>Rig down mud shaker & wash over pumps</i>			
	<i>Install fence pipe and pump</i>			
	<i>12 batches of Cement But. Grout</i>			
	<i>pull 7" casing out</i>			
	Travel to Hotel			

TOTAL CHARGEABLE RIG HOURS

RIG ENGINE HOURS:	START	STOP	TOTAL
--------------------------	-------	------	-------

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED	
		DESCRIPTION	QTY
Mob/Demob	DRILL RIG		
Fencing	SUPPORT TRUCK	<i>Cement</i>	<i>96</i>
Sound Curtains	CREW TRUCK	<i>gel</i>	<i>16</i>
Porta Pot	Trailer		
Forklift			
Drums			
Feet of drilling 8" x 6"			
Feet of drilling 7" x 6"			
Well Installation			
Vault			

LABOR

CREW WITH PER DIEM	TRAVEL PAY	TOTAL HRS
NAME	SIGNATURE	TOTAL HRS
Kevin		
Jason		
Dalton		

REMARKS

CLIENT SIGNATURE _____ OPERATOR SIGNATURE _____

CLIENT **Intera** DATE **4/5/22** DAY **TUES**
 JOB LOCATION **801 Indiana Street** Sonic - 113-22 Job# **1007**

HOLE #	DESCRIPTION OF WORK	HOURS		TOTAL HOURS
		START	STOP	
	Travel to Site			
	Safety Mtg	7:00	7:30	
	Pre-Shift	7:30	8:00	
	10 batches of Grout in morning			
	Rig down sound panels			
	afternoon top off with grout			
	Travel to Hotel			

TOTAL CHARGEABLE RIG HOURS

RIG ENGINE HOURS:	START	STOP	TOTAL
--------------------------	-------	------	-------

BILLABLE ITEMS	EQUIPMENT	MATERIALS USED	
		DESCRIPTION	QTY
Mob/Demob	DRILL RIG		
Fencing	SUPPORT TRUCK		
Sound Curtains	CREW TRUCK		
Porta Pot	Trailer		
Forklift			
Drums			
Feet of drilling 8" x 6"			
Feet of drilling 7" x 6"			
Well Installation			
Vault			

LABOR

CREW WITH PER DIEM	TRAVEL PAY	TOTAL HRS
NAME	SIGNATURE	TOTAL HRS
Kevin		
Jason		
Dalton		

REMARKS

CLIENT SIGNATURE _____ OPERATOR SIGNATURE _____

Field Notes

Groundwater Sampling May 2022

WAM

PDB Deployment

4/27/22

Wednesday April 27, 2022

Weather: Partly sunny, 50's - 60's

Personnel: Lynda Price, Andrew Murphy

Objectives

Collect WL, Deploy PDB + Dual Membrane Samplers.

0845 INTERA on-site.

Conduct H+S meeting. Review JRTs

0857

WL = 453.03' BTCL

TD = ~597.10' BTCL (soft btwn hard to feel)

0908 - Kelsey & Shelby w/ WVA on site, conduct H+S mtg & review plan for the day

1004 - Begin lowering the 4 Dual Membrane and 1 PDB bags down hole. They were filled w/ Lab grade DI water provided by Eon. All sampling equip was provided by Eon Products base in Georgia. The samplers are set in the screened interval and will stay down-hole for a minimum of 3 weeks.

1100 Site cleaned up and well is locked. INTERA + WVA off-site.

up 4/27/22

5/24/22

PDB Sampling

LP/BA

Tuesday May 24, 2022

Weather: Partly cloudy, 60's, slight breeze

Personnel: Lynda Price + Brian Archuleta

0835 INTERA on-site.

Objectives Pull the 4 Dual Membrane & 1 PDB samplers up and collect samples for:

- Total + Dissolved metals
- Anions = Bromide, chloride, sulfate, nitrate/nitrite
- Alkalinity
- VOCs
- EDB
- SVOCs

0845 Tracy Vaught (AFCEC), Joseph Glover^(AE), + Ryan from (Kirkland AFB) on-site.
Conduct H-S meeting

0905 Calibrate YSI Pro Plus (INTERA's) for 3pt pH, Sp. Cond, ORP

1000 Collect Sample / Field Parameters

Temp	DO	Sp. Cond µS/cm	pH	ORP	Comment
17.8°C	1.81 mg/L	327.2	7.64	86.2 mV	wk odor.

Samples:

INTERA: 5 VOAs (3 HCl, 2 Sol Thir),
1 amber, 1 HNO₃ Plastic, 1 H₂SO₄ Plastic,
1 Plastic, + 1 unfiltered plastic.

5/24/22

PDB Sampling

Samples (contd):

EA: 4 out of 5 VOAs.
(Used as split).

Note: @ 915 Ryan offsite
@ 1010 Tracy offsite.

Joseph's cell number = 970-901-3475

Sample Note:

- INTERA collected all 5 INTERA VOA samples from PDB bag per EON's instructions.

- Collected 1 of 4 VOAs for EA from PDB bag and the other 3 VOAs from Dual Membrane bags. Did not have enough volume to fill EA's 5th VOA. Joseph mentioned that they normally collect VOCs from Dual Membrane bags.

1045 Kelsey (Water Authority) arrive onsite.

1055 Kelsey offsite

1100 SITE is cleaned up, well is locked. INTERA off-site. INTERA dropping samples off at HALL + they will send to Eurofins in Sacramento

UP 5/24/22

5/25/22

Bennett Pump Sampling

UP/BA

Wednesday May 25, 2022

Personnel: Lynda Price, Brian Archwiler

Weather: Clear, 40's - 70's, slight breeze

Objectives Set up the Bennett Pump
and start purging.

0650 Lynda on-site.

0715 Brian on-site

0720 Kelsey Bicknell (WUA) on-site.

0730 Conduct H + Safety Meeting / Calibrate YSI
Pro Plus

0845 After several attempts to tag
Depth to Water using the
500' low Profile WLM, we
decided to go get the 5000' reel
from the office. The low profile
reel keeps sticking to the side of
the well casing due to condensation,
friction, and light weight of probe.

0835 Lynda P. to office.

0855 Lynda back onsite w/ the geotech
2000' WL meter.

0857 WL = 452.89' BTDC

0908 Start lowering pump. (Bennet Pump)
- Electric take up reel w/ forward, off,
and reverse). One speed (slow). Not
adjustable.

Note: WL at $\sim 452.89'$ and
depth counter was reading $435'$.

Set pump @ approx $482'$ bgs.

0925 Set WLM in well.

0930 Start air compressor

Generator kept "over loading" while
air compressor was trying to recycle
under a load.

Spent time trying to troubleshoot
and identify the issue.

1015 L.P. + B.A. to INTERA's offsite
storage to get larger generator.

- Coleman 5500 W

Arrive back onsite and try larger
generator.

Note: Kelsey + Tracy waited onsite
w/ truck + GW trailer while we
were gone.

- Coleman 5500 W generator also
tripping when A.C. tries to start/recycle
under load. Fan/motor tries to start
up before eventually tripping circuit
breaker on generator.

5/25/72

Bennett Pump Sampling

BA/LP

- 1045 B. Archuleta call tech support at ROLAIR systems (Air Compressor MFR).
- David w/ Rolair suggested that generators aren't recommended but that if they are to be used, they can handle the "Start-up" amperage equivalent to 3x - 4x the run-time amperage.
- Air Compressor specs:
- Amps (running) = 18 A
= $120V \times 18A = 2160$ watts.
- Start up = 3x to 5x
= 6,480 watts to 10,800 watts.

1115 Brian + Lynda to Frank's to pick up 7200 w Yamaha generator.

1205 ~~Try to~~ Arrive back onsite.
Try larger Yamaha 7200 w generator.

Generator seems to be able to handle A.C. Start-up draw.

1217 Start purging and dial pumping rate to "Low-Flow" parameters.
- ~ 500 mL/min
- ~ 0.13 gal/min.

See field form for details.

1225 Tracy + Kelsey off site

5/25/22

Bennett Pump Sampling

Lynda P. offsite.

e). Brian continue to operate pump and control flow rate.

they
age
time

Note: Taking samples w/ Q parameters approx. every 30 minutes initially.

1750 L. Pryce on-site.

1800 B Archuleta offsite
will return around 8:00 pm.

Hs.

w/hs.

[Notes] Compressor/Pump Settings:

- ① Compressor Pressure Reading to Pump = ~104 P.
- ② Pump Pressure Gauge Reading = ~101 PSI
- ③ Flow rate meter is opened just slightly to allow ~0.13 gal/min out.

2000 B Archuleta back on-site.

2015 Collect one last reading before shutting down for the night.

Approx 65 gallons have been purged.

The 3 casing volume removal goal = 164.3 gal

2100 INTERIA off-site, Site is locked up.

LP 5/25/22

5/26/22

Bennett Pump Sampling

AP/BA

Thursday May 26, 2022

Weather: Sunny, 40's - 80's, breezy

Personnel: Lynda Price, Brian Archuleta

Objectives

Continue purging the well. The
 3CV target is ~ 164.3 gallons.
 Low flow rate target is less than
 500 ml/min or 0.13 gal/min

0700 Lynda & Brian on-site.

0710 Conduct H+S meeting.
 Calibrate YSI Pro (INTERA's) for
 3 pt pH, Sp. Cond, + ORP.

0750 Traci Vaughn (AFCEC) on-site.

0800 High Mesa Surveying on-site. They
 are collecting way points in the area
 first to calibrate to, then will survey
 the ground surface + TDC of the MW.

We have started lowering the pump down
 the hole. The pump is set at
 approx 482' bTDC (middle of screen).

0813 WL = 452.98' (with pump deployed)

0820 Start compressor.

0822 Water is at surface.

0830 Flow Rate is at ~ 0.13 gal/min, total vol
 purged is approx 70 gal

0849 Brian off-site for a bio break + to fill gas cans for the generator.

0915 Brian on-site

0925 L. Price offsite

0955 Tracy Vaught offsite.

1235 Tracy Vaught ~~offsite~~ on-site.

1305 L. Price off-site to relieve Brian for a bio-break and pick up more gas

1315 Brian off-site

1410 Brian on-site

1415 Tracy + Lynda offsite

B.A. continue purging.

- Low Flow

- Current purge volume = ~110-115 gal (Total)

1600 Current purge volume = ~125 gallons out of 164.3 gallons total required.

1700 Tracy return to site

Current purge volume = ~32 out of 164 gallons. offsite @ 1715

Remaining purge time @ 500 mL/min or 0.13 gal/min $\approx 32 / 0.13 \approx 4.1$ hours

5/26/22

Bennett Pump Sampling

BA

1900 Current purge volume =
145 gallons out of 164.3 gallons

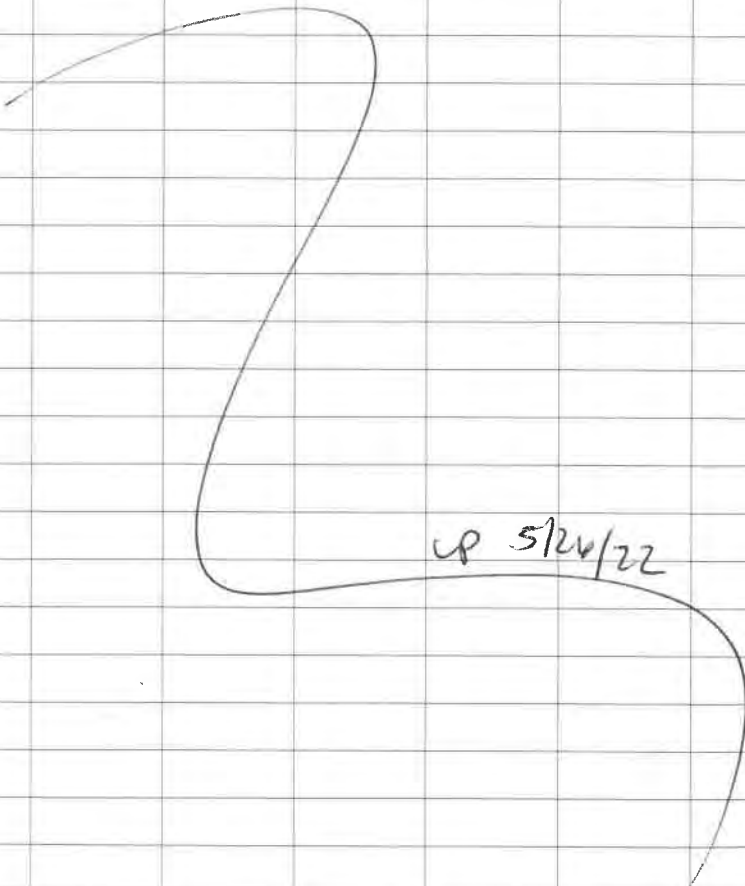
Remaining volume = ~~19.7~~ 19.3 gallons.

1915 Lynda Price on-site

1930 Jim Joseph (INTERA) on-site to
help load the generator into the
back of a vehicle.

190 INTERA off-site

Approx 149 gallons have been purged.



UP 5/26/22

Friday May 27, 2022

Weather: Clear, 60's-90's, breezy

Personnel: Lynde Price, Brian Archuleta

Objectives Finish purging, confirm WQ parameters have stabilized, collect a sample.

0645 Lynde on-site.

0705 Brian on-site.

0715 Traci Vaughn on-site.

Conduct H+S meeting

Brian starts calibrating the YSI for
3 pt pH, Sp. Cond., ORP.

0759 Pump is deployed

WL = 452.99' BTDC

0803 Compressor on. Dial in to ~ 500 mL/min

0809 First reading

or ~ 0.13 g

- initially ~~is~~ slightly cloudy.

0812 Tracy offsite

0820 L. Price offsite. Will return to help collect samples

0855 Kali Branson (Water Authority) arrive onsite.

0912 Kelsey (Water Authority) onsite.

0918 Joseph (EA) onsite

↳ will collect sample splits.

27/22

Bennett Pump Sampling

BA

025 Rick K. (w/ Corp of Engineers)
arrive onsite.

000 L. Pryce return to site to assist
w/ GWS.

000 Final Stable Parameters.

Time	Temp °C	pH	Sp Cond µS/cm	Turb. NTU	Comments:	Purge Volume gallons
000	23.0	7.85	307.0	0.72	Clear. Very wk odor	165

DTW = 453.03' BTOC

005 Prepare to collect samples.

015 Sampled
- Collected INTERA samples

- Collected EA (SPLIT) samples

015 Rick K offsite

032 Sampling Completed

1038 Traci, Kelsey, + Kali offsite.

1040 Prepare to decom pump, tubing, + reel.

1050 Joseph (EA) offsite
- Shipping his split samples
to Europhins.

5/27/22

Bennett Pump Sampling

1110 Finished reeling up pump.
 Start Decon. (3 rinse cycles)
 1st ^{rinse} batch = Liquinox/water
 2nd ^{rinse} batch = Tap water
 3rd rinse = DI water

1125 L. Price offsite.
 Transport samples to HALL labs.

1200 Decon Complete. Attempt to
 Purge Water Line w/ air.

note: Tool kit does not have
 proper sized Allen Key to
 remove bottom intake. We
 will have to purge w/ air
 later.

Start Packing up equipment.

1220 L. ^{Price} ~~Price~~ back onsite. Return from Lab.

1238 J. Tracy on site to help load
 of Yamaha 7200 w generator.

1251 Everyone offsite
 - Return generator to Franks, equip
 to INTERA office, trailer to Lynda's
 for storage, and tote w/ purge water
 to AES in Belen.

BA } 5/27/22

Field Notes

Slug Testing

6/10/22 Pre Slug Test 8/1/22

0930 onsite, H & S meeting, weather hot

0945 Prep for Slug Test. Task will be

Pneumatic slug tests @ various pressures.
Take WL, install transducer & manifold,
allow pressure to stabilize, then release
& wait for WL to get back to static
or within 90%

1015 DTW 452.75

1100 DTW 452.75

Water Authority onsite

1103 Connect pneumatic slug to well

1115 Transducer & manifold installed
Reading = 24.45

1130 begin pressurizing

1135 Pressure to 5"

1145 Pressurize to 15" WL still @ 24.30

1148 13" 24.28

1150 12" 24.27

1455 Pumped to 50" 24.27

1200 Released pressure - got bounce curve

Recovered almost instantaneously within 20s

6/10/22 Slug test

1210 Start test 1 50" on dial
~2.5' bounce on last test.
250 msec recording time.

1216 @ 50 in water

1218 Released pressure, ~24' bounce
recovered within ~10 sec

1226 Runing test 2 50 in, 250 msec

1235 Opened valve @ 50 in water

1242 Start pump test 3 50" 250 msec

1252 Opened valve

1257 stopped test

1258 Stated test #4, 60" 250 msec

1306 Opened

1309 Stopped test

1315 Start test #5 60" 250 msec

1324 Stopped test, Water Authority
personnel off-site,

1330 Reel up transducer & remove manifold.
Clean up site.

1350 M. Ritter & B. Maghan offsite. Return equipment
to INTERA office / MRM

Field Notes

Data Logger Installation

10/22

Installing Pressure Transducer

BP/MF

Friday July 8, 2022

Weather: Sunny, clear, 80's-90's, breezy

Personnel: Lynda Price, Mike Farinacci

Objectives

Install pressure transducer at ~ 582' BTOC.

1230 Mike + Lynda on-site. Conduct H+S meeting

1300 WL = 453.81' BTOC ; logger lowered to approx 582' BTOC.

Test started

Test Name: WUA BBFMW01 - 070822

Length: 1 hr interval

Log type = Linear

Pressure = psi

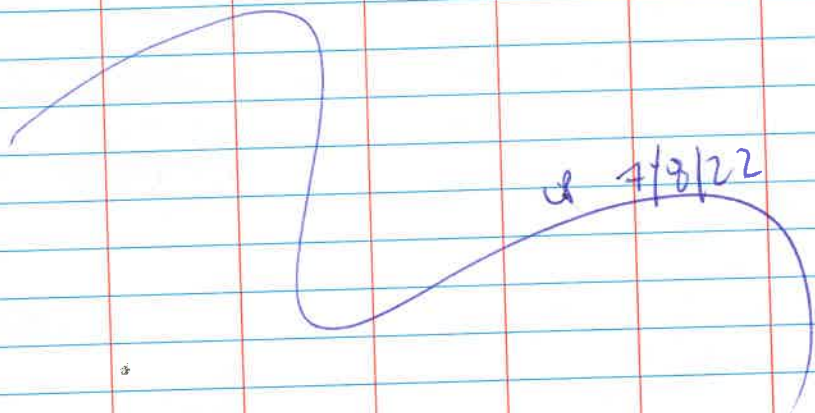
Temp = °C

DTW = ft

Level Reference = 453.81

Specific Gravity = Fresh water (0.999)

1345 INTERA off-site. Well closed + cover on.



Field Notes

Groundwater Sampling August 2022

8/9/22

PDB Deployment

AM/JC

1040 - A. Murphy & J. Carroll on site
↳ 78°F/Sunny

Objectives - Download & remove transducer, fill & deploy 5 PDB bags @ same depths as 4/27/22.

1049 - TGSN complete, begin opening well & staging eqp

1053 - Well opened to download transducer data

1101 - Connected to transducer via bluetooth & stopped data collection. Data file saved & emailed for back up. Begin polling transducer

1110 - Cetan Christensen (ABC WYA) on site, review TGSN

1125 - DTW = 455.21' btac, begin attaching ^{fill} filling samplers w/ lab grade DI & attaching to bottles.

1212 - 5 samplers filled & deployed down well, begin break down/pack up. Cetan offsite

1225 - Well locked & closed, notify J. Tracy & head offsite

Summary - Download transducer data & pull transducer. Fill, attach, & deploy 5 samplers down well for 2 week diffusion period.

AM/JC

Monday August 29, 2022

Weather: Sunny, clear, 60's - 80's

Personnel: Brian Archuleta, Lynda Price

Objectives Pull PDBs + collect sample.
will split w/ Airforce. Deploy
Bennett Pump + begin sampling [Ⓟ]
pursing.

900 Meet Brian at site. Begin setting
up, calibrating YSI 1030 (INTERA'S)
for 3rd pH, Sp Cond. Calibrate Turb. meter
* Fill out tail gate form $\frac{1}{2}$; have meeting, review
JRTS

930 Tracy from Airforce on-site.

000 Eddy $\frac{1}{2}$, Dylan from EA on-site

025 Begin sampling for: VOCs, SVOCs, Anions (Br, Cl,
SO₄, NO₂), Nitrate/Nitrite,
Alkalinity, Total Metals (As,
Pb, Ca, Mg, K, Na), Dissolved
Metals (Fe, Mn), EDB

ID = WAABFI-MW01

Sample time = 1025

052 WL = 455. 63' BTDC

DM $\frac{1}{2}$ PDB bags were set at 574'
to 588' BTDC in the screened
interval (572' - 592' BTDC)

The top 4 were DMs and the bottom
was the PDB.

WQ Parameters:

1054	pH	Sp. Cond $\mu\text{S/cm}$	Temp $^{\circ}\text{C}$
	7.61	358.9	30.4

1120 EA off-site. All samples are on ice + labeled. Begin lowering Bennett Pump to ~582' BTOC. Pump is set in middle of screen @ ~582'

1140 Turbidity meter needs batteries so Brian off-site to buy more + use restroom
Tracie Vaughn (Airforce) off-site.

1215 Brian onsite

1228 Compressor on

1231 Water at surface, start dialing in ~500 ml/min or ~0.13 gal/min

See field form for details.

- WQ Parameters
- Pump rates

1248 L. Price offsite

B Archuleta continue Pumping.

1800

Collect last parameter for the day. Suspend pumping Running Total = 50 gallons.
--

1805 B. Mayhew onsite to help with pump pulling

1840 INTERA offsite

8/30/22

GW Sampling

BA

- 0730 B. Mayhew onsite.
B. Archuleta fuel up generator.
- 0750 B. Archuleta onsite.
- 0800 Set up GWS trailer/equip.
Lower Bennett Pump down well.
- 0810 DTW = 455.95' B70C.
Calibrate YSI Pro 1030
- pH 7.01, 4.00, 10.01
- Sp Cond = 1413 $\mu\text{S}/\text{cm}$
- 0820 Start Pumping.
Current Volume = 50 gallons
Target Volume \approx 160 gallons
See field forms for details.
- 0828 B. Mayhew offsite.
Will be on standby for support.
- 1230 B. Myler onsite, BA offsite
- 1310 B. Archuleta return to Site.
- 1415 Tracy (Airforce) onsite for a couple
of minutes to observe progress.
- 1500 ~~A~~ Weather: Raining.

8/30/22

GW Sampling

BA

~~060715~~

1705 Finish pumping/purging for the day. Total running volume = 120 gallons out of 161.

B. Mayhew onsite.

Pull up pump + secure site.

1730 INTELA offsite.

BA

8/30/22

8/31/22

GW Sampling

BA

0715 B. Archuleta fuel up truck + generator.

0730 B. Archuleta + B. Mayhew onsite.

Set up over well + lower pump.

Calibrate YSI Pro 1030 + Turbidity meter.

- PH = 7.02, 4.00, 10.02.

- Sp Cond = 1413 $\mu\text{S}/\text{cm}$

Objectives:

- finish purging. Currently at 120 gallons out of 161 (target).
- Collect GW samples + Rinseate sample.

0750 Start pump. See field form for details.

0815 B. Mayhew offsite

0905 EA stop by site briefly while handing out flyers for an upcoming sampling event.

1025 Tracy (Air Force) onsite.

Note: Current purge volume

- Running Total = 140 gallons

- 21 gallons remaining.

1032 Tracy offsite.

8/31/22

GW Sampling

B2

1125 Cetan Christiansen (Water Authority) arrive onsite to observe process.

Note: may not come today as she is feeling sick.

1235 Cetan (ABQWA) offsite.

1245 B. Mayhew arrive onsite.

Generator stop running. Difficult to start. This is the 2nd time in ~30 minutes. It shut off moments 3 times yesterday afternoon.

Observed the CO sensor flashing. May need to ventilate it better or override the sensor. It is mounted outside on a trailer.

1250 Got the generator to restart

1254 Generator stopped running again.

1300 Restarted generator. Can only restart when CO indicator stops blinking.

1320 Generator stopped.

1329 Restart generator.

Current purge volume
~~2 to 2.5~~ gallons 164

Ready to sample. waiting for EA + K

8/31/22

GW Sampling

BA
BM.

1335 Tracie (KAFB) onsite.

1345 EA onsite (Dylan Schmeckel; Tyana Wachman)
- will collect duplicate samples.

1400 Collect Sample
- Full Suite
- WUABFE-AW-01

1430 Eric Klingel (Corp of Engineers)
- Observing.

1442 EA offsite
Begin pulling up pump.

1505 Begin Decon
- 1st Decon (w/ Liquinox)
- 2nd Decon (Rinse)
- 3rd Decon (DI)

1600 Collect Rinseate Sample
- ID = EQP-01
- 3 VOA (HCL), 2 VOA (

* Tracie + Eric offsite
Cetan return to site

8/31/22

GW Sampling

BA

Blow out Bennet Pump. / Pack Samples

1605 B. Mayhew to HALL labs.

He will have the overnight the sample to Eurofins per work plan.

1620 B. Archuleta + Cetan (ABQ WA) offsite.

- will drop off sampling trailer at Lynda's and Purge Water (total) at AES.

BA

8/31/22

1/7/22

Data Gap Well

BA

Transducer Deployment

AH

Alison

H.

145 B. Archuleta + A. Hafner onsite.

Objective: Redeploy transducer in
- Data Gap Well.

Weather: 85°F, Sunny, Hot, light
breeze.

200 Tailgate Safety Meeting
SSHASP review.

218 Gauge DTW.

30 ~~456.01~~ 456.01 ft BTOC = DTW

Logging Configuration:

- DTW = 456.01 BTOC

- Linear

- temp. = °C Fresh water.

- pressure = psi

- ~~distance~~ ^{level} length = ft.

Set start time 2pm (1400)

- Confirmed w/ Insitu Tech Support.

310 Transducer deployment complete

320 INTERA offsite.