

Appendix A

Permits and Approval





January 10, 2022

Diane Agnew Albuquerque Bernalillo Co. Water Utility Authority PO Box 568 Albuquerque, New Mexico 87103

RE: Approval of Work Plan/Sampling Analysis Plan for Data Gap Monitoring Well Installation (SAP 21-F2298-STB)

Dear Diane Agnew:

The revised Work Plan/Sampling Analysis Plan for the referenced project that was created by Intera were received on January 6th, 2022. The documents have been reviewed by the New Mexico Environment Department Construction Programs Bureau (NMED-CPB). The documents meet the language of the grant and the project may move forward.

Please note that the review of these plans and specifications is only for compliance with contractual requirements of the applicable funding source or sources. The technical integrity, feasibility, or cost effectiveness of the project have not been evaluated. Review of this plan does not relieve the owner or engineer of legal responsibilities for the overall integrity of the project, adequacy of the design, or compliance with all applicable regulations. The NMED is not responsible for increased costs resulting from defects in the plans, specifications, or other contract documents.

Should you have any question or comments, contact Eric Gartner at 505-670-3643 or e-mail at eric.gartner@state.nm.us

Sincerely,

Eric Gartner Project Manager

cc: Marta Ortiz (ABCWUA)



Department of Municipal Development

Construction Coordination Section

Office (505) 924-3400

Excavation and Temporary Traffic Control Permit Application
Send completed form and supporting documents to dmdccs@cabq.gov at least fourteen (14) calendar days in advance. Incomplete forms or early start dates will be rejected

ı.	Applicant Name: Joseph Tracy (INTERA) Date: 12/14/2021
2.	Applicant Phone Number: (505) 301-1134Applicant Email: jtracy@intera.com
3.	Contracting Company Name: INTERA Incorporated
4.	Work Site Address/Location Description: INTERA will make one (1) excavation in Indiana
	$\underline{Street~SE,~just~south~of~Kathryn~Avenue~SE~(northern~extent~of~the~KAFB~BFF~groundwater}$
	plume. The excavation includes an approximate 8-inch diameter excavation to install one (1)
	3-inch diameter monitoring well in the City of Albuquerque right-of-way property.
5.	Start Date: January 24, 2022 End Date: March 18, 2022
6.	Description of Work Activity/Closure: INTERA will provide oversight of a subcontracted.
	$\underline{\text{licensed well drilling company who will perform the drilling of the location detailed in item} \ 4$
	above using a truck-mounted, sonic drilling rig. It is anticipated the boring location will be 8-
	inches in diameter and completed to a depth of 605 feet below grade. After calling in a
	standard utility locate with New Mexico 811, the initial five (5) feet below grade will be
	cleared for utilities using an air knife. An end of road closure will be required for the
	duration of well drilling, installation, and development for approximately six weeks.
7.	Preferred Closure Time Frame (circle one): 6AM/7AM to 10PM, 9AM to 4PM Continuous
	Until Complete Open Excavation/Concrete Curing), Night Work (9PM to 6AM).
8.	Facility Owner: (circle one) City, Water Authority, NMGAS, PNM, Century Link, Comcast,
	Other:
	a. Barricade Company: (circle one) Advantage Barricade, Highway Supply,
	Southwest Safety, Other:
	b. Work Zone Dimension: Length(ft.): 80 Width (ft.) 20
	c. Striped Bike Lane Closure: Yes (No)
	d. Sidewalk Closure: Yes/No
	e. Multi-Use Path Closure: Yes (No
9.	Road pavement cut: Yes / No Dimension: 2 ft x 2 ft, 4-inch thick pad
10.	Sidewalk construction: Yes (No Dimension:
11.	Wheelchair ramp construction: Yes (No) Quantity:
12.	Landscape Impact in ROW?: Yes (/ No) Dimension:

13. Drive pad construction: Yes/No	Quantity:
14. Curb Cut (include approved site plan): Yes (No	Quantity:
15. Curb/Valley Gutter Construction: Yes (No)	Length (ft.):
16. Building Permit Number:	(Approval Date)
17. City Work Order Number:	(Approval <u>Date)</u>
18. City or NMDOT funded: Yes (No Projection)	ct Name: WUABFFMW01 Data Gap Well

Notes to Applicants

- 1. Issuance of this Temporary Traffic Control Permit (TTCP) is conditional on compliance with the following items, and may be revoked for any reason deemed appropriate by the City of Albuquerque. Any applicant who violates any provision of the "Street Excavation and Barricading Ordinance of the City of Albuquerque, New Mexico (6-5-2-1)" may be subject to suspension of the privilege of acquiring excavation permits for up to 365 days and a \$500 fee.
- 2. ALL excavation activities must be inspected by the Construction Coordination Section. Call 924-3416 and schedule an inspection when the site is ready for paving at least one (1) day prior to the scheduled date of pour/paving operation.
- 3. If this work/activity impacts a major road (i.e. road striping exists), a Traffic Control Plan (TCP) drawn by a licensed barricade company shall be submitted with this application. A TCP is not required for residential streets (i.e. no road striping, speed 25 MPH or less).
- 4. New curb cuts require a site plan approved by the Planning Department Transportation Development Section, (505) 924-3991, 1st floor of Plaza Del Sol.
- 5. Traffic control devices must be placed near the permitted work area(s) to give adequate warning to vehicular and pedestrian traffic all in accordance with the following:
 - a. Standards and requirements set forth in the MUTCD, latest edition.
 - Sections 19, 1200, and 2800 of the City of Albuquerque Standard Specifications for Public Work Construction.
 - c. The City of Albuquerque Traffic Code, latest edition.
 - d. The City of Albuquerque Code of Ordinance, Section 6-5-2-1.
- 6. The City of Albuquerque, Construction Coordination Section (CCS) reserves the right to have traffic control devices adjusted in the field in the interest of public safety. The traffic control plan (TCP) shall be updated and resubmitted to CCS showing any modifications the following business day. CCS shall be notified in writing, 48 hours prior to any traffic control changes made by the contractor.

- 7. A safe ADA compliant pedestrian and MUTCD compliant bike path/route shall be maintained. Pedestrian and bike path/route detours shall be shown on the TCP. If pedestrians and bicyclists are not impacted, it must be stated on the TCP.
- 8. Contractor may not create inadequate sight distance with vehicles, construction equipment, or temporary traffic control devices.
- 9. The CONTRACTOR shall notify ALL businesses, residents, and public facilities directly affected by the street and/or lane closure with a printed flyer at least two days prior to closure (per Section 1200.5.3 of the COA Standard Specifications for Public Works Construction), and must comply with all other requirements of Section 1200.5.

 REMINDER: New Mexico State Law requires excavators to contact NM ONE-CALL two (2) working days prior to excavating.

CONTACTS FOR STREET AND LANE CLOSURES

APS Transportation: 880-3989 Aviation: 244-7700

Cultural Services: 768-3556 Emergency Management: 833-7393

Fire Department 768-9300 Parks and Recreation 768-5300

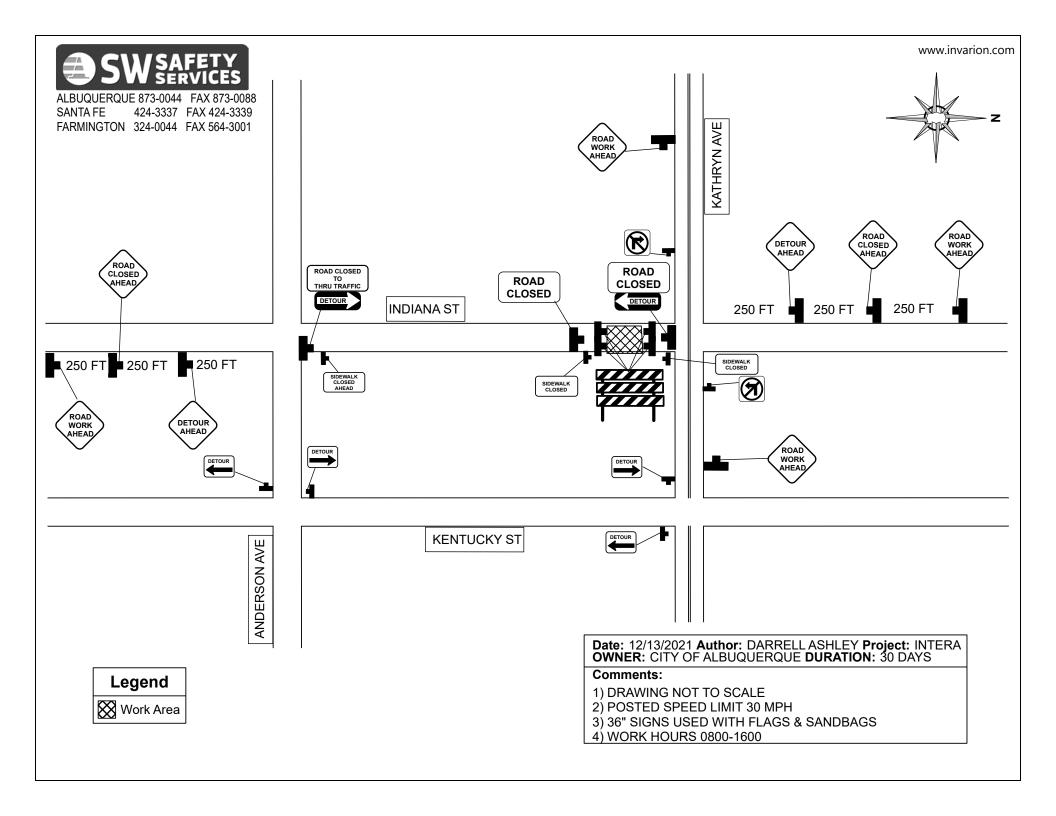
Police Department 768-2200 Solid Waste: 761-8100

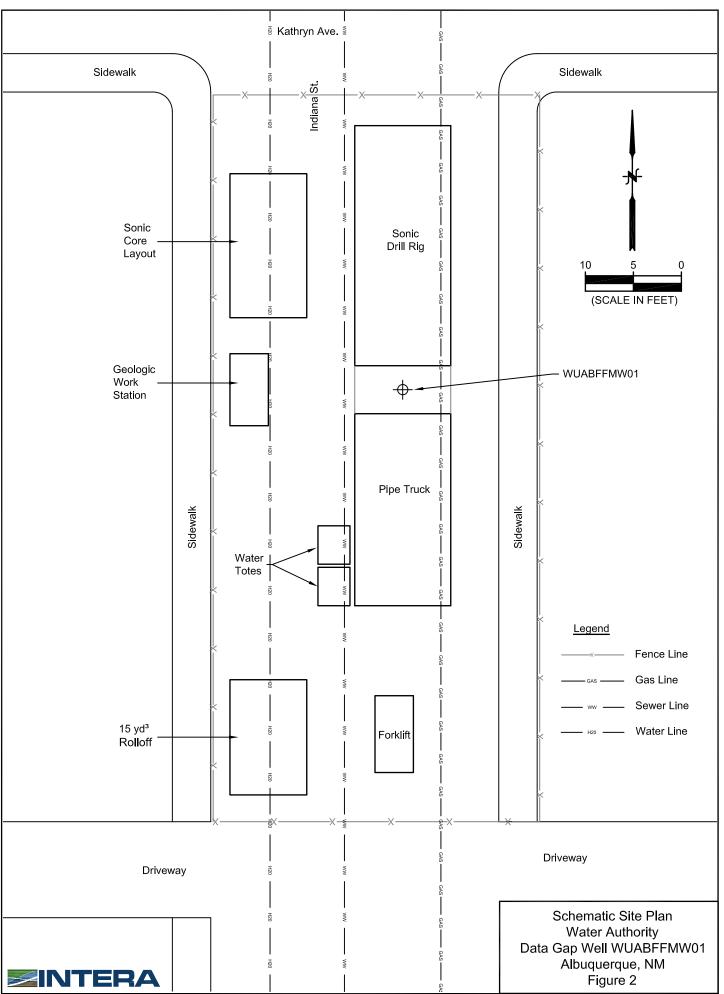
Street Lights: 857-8689 Street Signs: 857-8693

Traffic Signals: 857-8035 Transit: 724-3100

For More Information contact the Construction Coordination Section 924-3400 or visit our website at the address below:

https://www.cabq.gov/municipaldevelopment/architects-engineers-contractors/construction-services







P.O. Box 1293, 600 2nd St NW Room 800, 8th Floor, Plaza Del Sol Albuquerque, NM 87102 Tel. No: (505) 924-3400 www.cabq.gov/construction Permit Payments: payments.cabq.gov

PAYMENT TYPE 300

Permit No : **2021044421EXC**

Permit Status : Approved

12/16/2021

Excavation (FUND 300)

Address: 1 INDIANA
Application Number 059279

Activity Type Excavation (FUND 300)

Applied Date 12/15/2021 800) Issued Date 12/15/2021 Start Date 01/24/2022 End Date 03/18/2022

Applicant INTERA INC. - Joseph J. Tracy

Applicant Address 2440 Louisiana Blvd NE, 7th Floor Albuquerque NM 87110

Applicant Phone (505)246-1600

Barricading Company Southwest Safety Services Lic. (505)873-0044 dispatch@swsafetyservices.com

128 Llano Del Sur SE Albuquerque NM 87105-301

Prime Contractor INTERA INCORPORATED Lic. 87101 (505)730-7372 LDalton@intera.com

6000 UPTOWN BLVD NE SUITE 220 ALBUQUERQUE NM 87110

Location Description INDIANA From KATHRYN To ANDERSON

Job Description Install Ground Water Monitoring Well

Fee Table

Fees:	\$210.00
Payments:	\$210.00
Extend Credit:	\$0.00
Balance Due:	\$0.00
Dalance Due.	φυ.υυ

Fee Detail

Fee Name	Unit	Amount
304:425009 Residential Street Closure (\$21.00 per o	day) 8.00	\$168.00
300:425008 Excavation (\$42.00 for every 660')	1.00	\$42.00

Transaction Detail

Date	Transaction Type	Method	Amount
12/16/2021	Payment of Balance Due	CreditCard	\$210.00

Conditions

Total closure of Indiana St. on the south side of Kathryn Ave.

Contractor must coordinate with, and maintain access to, affected businesses/residents; Schools; emergency medical services; Impacted City Services listed below.

TRAFFIC ENGINEERING (SIGNALS) - Alfred Flores 505-235-4382 ABQ RIDE (TRANSIT) - Ralph Baca 505-206-7004 or Rolando Suarez 505-205-3444 SOLID WASTE TRASH PICKUP - Herman Gallegos 505-761-8125 PARKING - 505-924-3950

Work zone SHALL have continuous construction activity. When construction activity stops, the closure SHALL be removed within one hour. If closure is to remain setup due to open excavation or concrete curing; contractor SHALL place applicable signage (e.g. CONCRETE CURING or OPEN EXCAVATION). Additionally, for continuous closures (24 Hours/Day), the contractor SHALL ensure the work zone contains continuous construction activity between 6 A.M. and 10 P.M. (7 A.M. and 10 P.M. during winter months).



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The Contractor may not violate MUTCD, COA Specifications, or Ordinance.

May not turn through traffic split/shift.

Must maintain ADA compliance at all times.

May not detour arterial traffic to a residential road.

May not place channelizing devices in travelled way without a properly designed lane closure.

May not setup multiple lane/street closures unless shown concurrently on TCP.

May not create inadequate sight-distance with vehicles and/or equipment.

May not leave open excavation unattended and/or unprotected.

Construction equipment outside of the work zone SHALL be protected by a flagman at all times.

Contractor may not store materials and/or equipment within 15 feet of a travelled lane.

Your construction activity may impact private and/or public maintained landscaping which may have non-spotted underground landscape utilities within the public right-of-way (ROW). You are obligated to notify the responsible party of your activity and potentially coordinate any unspotted underground landscape utilities. You can contact the Office of Neighborhood Coordination (ONC), at (505) 768-3334 or onc@cabq.gov, to determine the point-of-contact for a specific Home Owners Association (HOA). If the landscaping is not maintained by a HOA, you will need to contact the adjacent property owner or property management agency. Please note, public landscaping and its associated infrastructure within the public ROW is maintained by the Solid Waste Department/Clean City Division (505) 857-8060.

PERMIT PAYMENTS CAN BE MADE AT https://webepay.cabg.gov/icart/

INSPECTION REQUIRED!!!

AN EXCAVATION INSPECTION IS REQUIRED FOR THIS PERMIT PRIOR TO ASPHALT OR CONCRETE PAVING. Please email DMDinspections@cabq.gov or call 924-3416 and request an inspection. The excavation site must be prepped and ready for asphalt or concrete paving at the time of inspection. Please reference the address(s) or location description, permit number, date of inspection, AM or PM inspection, and a valid contact number.

THE SITE SHALL NOT BE PAVED UNTIL THE INSPECTOR SENDS AN APPROVAL EMAIL TO THE APPLICANT.

Contractor may not leave open excavation unattended

Construction permitted between 6AM and 10PM. Closures are continuous until construction is complete

DROP OFF REQUIRMENT FOR EXCAVATED SITES

A maximum 1.5 in. vertical drop-off between adjacent surfaces will be allowed at the centerline, or lane lines without treatment. When the drop-off is greater than 1.5 in., a fillet with a slope of 6:1 or flatter SHALL be provided or the site SHALL be completely backfilled/platted to the street pavement surface during non-working hours. The work shall be scheduled to result in sites being prepped and paved on the same day. At the discretion of the engineer, concrete barriers and shoring may be required for excavated sites which are adjacent to the travelled lanes. This applies only to street cuts and curb and gutter replacement. Excavated sites behind the curb (or edge of pavement when curb and gutter does not exist) SHALL be protected at all times to avoid harm to the public.

Inspections						
Item	Description	Permit	Date	Action	Inspector	
1	Barricading	2021044421EXC	2022-01-26 00:00:00.0	Request for Inspection	E38707	
1	Barricading	2021044421EXC	2022-02-02 00:00:00.0	Request for Inspection	E38707	
1	Barricading	2021044421EXC	2022-02-09 00:00:00.0	Request for Inspection	E38707	



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12/16/2021

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1	Barricading	2021044421EXC	2022-02-23 00:00:00.0	Request for Inspection	E38707
1	Barricading	2021044421EXC	2022-03-02 00:00:00.0	Request for Inspection	E38707
1	Barricading	2021044421EXC	2022-03-08 00:00:00.0	Request for Inspection	E38707
2	Excavation	2021044421EXC	2022-03-18 00:00:00.0	Request for Inspection	E38707



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PAYMENT TYPE 300 2021044421EXC

Permit No:

04/29/2022

Permit Status: Approved

03/24/2022

End Date

Excavation (FUND 300)

Address: 1 INDIANA **Application Number** 059279

Applied Date 12/15/2021 Issued Date 12/15/2021 Excavation (FUND 300) **Activity Type** Start Date 01/24/2022

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Applicant Address 2440 Louisiana Blvd NE, 7th Floor Albuquerque NM 87110

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6000 UPTOWN BLVD NE SUITE 220 ALBUQUERQUE NM 87110

INDIANA From KATHRYN To ANDERSON Location Description Job Description Install Ground Water Monitoring Well

Fee Table

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Payments:	\$210.00
,	
Extend Credit:	\$0.00
Balance Due:	\$840.00

Fee Detail

Fee Name	Unit	Amount
304:425009 Residential Street Closure (\$21.00 per day)	48.00	\$1,008.00
300:425008 Excavation (\$42.00 for every 660')	1.00	\$42.00

Transaction Detail

Date	Transaction Type	Method	Amount
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Permit Status : Approved

03/24/2022

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Insp	Inspections					
Item	Description	Permit	Date	Action	Inspector	
1	Barricading Out of office. Cancelled	2021044421EXC	2022-01-26 00:00:00.0	Cancelled	E29984	
1	Barricading PASSED Pending corre	2021044421EXC ective actions for the fo		Passed Barricade Inspection ation: ?Sign indicates ramp closed a	E38707 shead instead of road	



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PAYMENT TYPE 300Permit No: **2021044421EXC**

Permit Status : Approved

03/24/2022

Item	Description	Permit	Date	Action	Inspector
	closed ahead.(Image 2)	Email sent to Contra	ctor and SWS to correct	advanced warning sign.	
1	Barricading	2021044421EXC	2022-02-09 11:15:00.0	Passed Barricade Inspection	E38707
1	Barricading Total closure of Indiana	2021044421EXC St. on the south side	2022-02-16 10:05:00.0 of Kathryn Ave. Detour in	Passed Barricade Inspection place.	E38452
1	Barricading	2021044421EXC	2022-03-02 13:50:00.0	Passed Barricade Inspection	E38707
1	Barricading passed, Pending correctoresolve issue.	2021044421EXC ctive action. Missing d		Passed Barricade Inspection W corner of Kentucky and Andersor	E38707 n. Emailed contractor
2	Excavation Last day of permit - Bar	2021044421EXC ricades on site, work		Not Ready for Inspection nt on email with last day notification	E41129
2	Excavation	2021044421EXC	2022-04-29 00:00:00.0	Request for Inspection	E41129

Joseph J. Tracy

From: Valdez, Joseph A. <javaldez@cabq.gov>
Sent: Wednesday, April 6, 2022 2:27 PM

To: Joseph J. Tracy **Cc:** Lee Dalton

Subject: Excavation Inspection (2021044421EXC-PASSED)

Attachments: Green Tag.png

Dear INTERA INC,

A COA public right-of-way excavation inspection was performed at **INDIANA From KATHRYN To ANDERSON--2021044421EXC on** 4/6/2022 at 2:20 P.M.. Below are your inspection results:

- Inspected Infrastructure
 - City of Albuquerque ROW Street well cover concrete collar.
- PASSED
 - Please respond to this email with the associated haul tickets within 24 hours of paving the referenced site.
- Corrections
 - None.

This inspection was based on the submitted application, approved construction drawings, approved curb cut site plan, the City of Albuquerque Standard Specifications, and current site conditions. Please contact me if you require additional information.

IMPORTANT NOTE: The contractor is responsible for scheduling a <u>SEPERATE</u> pre-pour and post-pour inspection with the responsible Engineer of Record, Architect, or Designer.

Link to the COA Standard Drawings and Specifications: https://www.cabq.gov/planning/development-review-services/design-review-construction-forms

Thank you,



Joseph Valdez
Construction Inspector I

O 505.924.3400 M 505.3196284 F 505.924.3408 cabq.gov/dmd

Department of Municipal Development



Sidewalk, Drivepad, Curb & Gutter, Wheel Chair Ramp & Asphalt Inspection

APPROVED

File No.	_	

NEW MEXICO OFFICE OF THE STATE ENGINEER



WR-07 APPLICATION FOR PERMIT TO DRILL A WELL WITH NO WATER RIGHT

(check applicable box):



	For fees, see State Engineer v	repaire. http://www.ose.state.nm.us	
Purpose:	Pollution Control And/Or Recovery	☐ Ground So	ource Heat Pump
☐ Exploratory Well (Pump test)	Construction Site/Public Works Dewatering	Other(Desc	cribe):
Monitoring Well	☐ Mine Dewatering		
A separate permit will be required to	to apply water to beneficial use	regardless if use is consumptiv	e or nonconsumptive.
☐ Temporary Request - Requeste	d Start Date:	Requested Er	nd Date:
Plugging Plan of Operations Submi	itted? 🗌 Yes 🔳 No		
ir en			
Name: Albuquerque Bernalillo County Wate		Name: INTERA	
Albuquerque Bernalillo County Wate Contact or Agent:	er Utility Authority (ABCWUA)	INTERA Contact or Agent:	check here if Agent
Name: Albuquerque Bernalillo County Wate		INTERA	
Name: Albuquerque Bernalillo County Wate Contact or Agent: Diane Agnew Mailing Address: PO Box 568 City:		INTERA Contact or Agent: Joseph Tracy Mailing Address:	
Name: Albuquerque Bernalillo County Wate Contact or Agent: Diane Agnew Mailing Address: PO Box 568 City: Albuquerque		INTERA Contact or Agent: Joseph Tracy Mailing Address: 2440 Louisiana Boulevard NE City:	
Name: Albuquerque Bernalillo County Wate Contact or Agent: Diane Agnew Mailing Address: PO Box 568 City: Albuquerque State:	check here if Agent Zip Code:	INTERA Contact or Agent: Joseph Tracy Mailing Address: 2440 Louisiana Boulevard NE City: Albuquerque State:	E, Suite 700 Zip Code:

FOR OSE INTERNAL USE	Application for	Permit, Form WR-07	7, Rev 11/17/16	
File No.:	Trn. No.:		Receipt No.:	
Trans Description (optional):			-	
Sub-Basin:		PCW/LOG Due D	Date:	

2. WELL(S) Describe the well(s) applicable to this application.

(Lat/Long - WGS84).

☐ NM West Zone ☐ NM East Zone ☐ NM Central Zone	` ′	JTM (NAD83) (Met]Zone 12N]Zone 13N	ers) Lat/Long (WGS84) (to the nearest 1/10 th of second)	
Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name	
WUABFFMW01	-106.570909 W	35.065297 N	NA	
NOTE If we are well be extreme		ad a supplate form	n WR-08 (Attachment 1 – POD Descriptions)	
Additional well descriptions			If yes, how many	
location approved by the Water	ublic, Albuquerque cit Authority; map attach	y street just south	of the intersection of Kathryn Ave SE and Indiana St. SE, in a	
Well is on land owned by:Publ				
Well Information: NOTE: If m	ore than one (1) we	II needs to be des	cribed, provide attachment. Attached? Yes No	
Approximate depth of well (fee			Outside diameter of well casing (inches): Nominal 3" di. sch 80 PVC	
Driller Name:Cascade Drilling	-,		Driller License Number: #WD-1664	
. ADDITIONAL STATEMENTS	OR EXPLANATIONS	6		
Additional notes for Section 2 be See attached well location and v	well design schematic		n, to avoid damage to the newly installed well from heat of curing time minimum between lifts required.	
nydration, grouting will take plac				

FOR OSE INTERNAL USE

File No.:

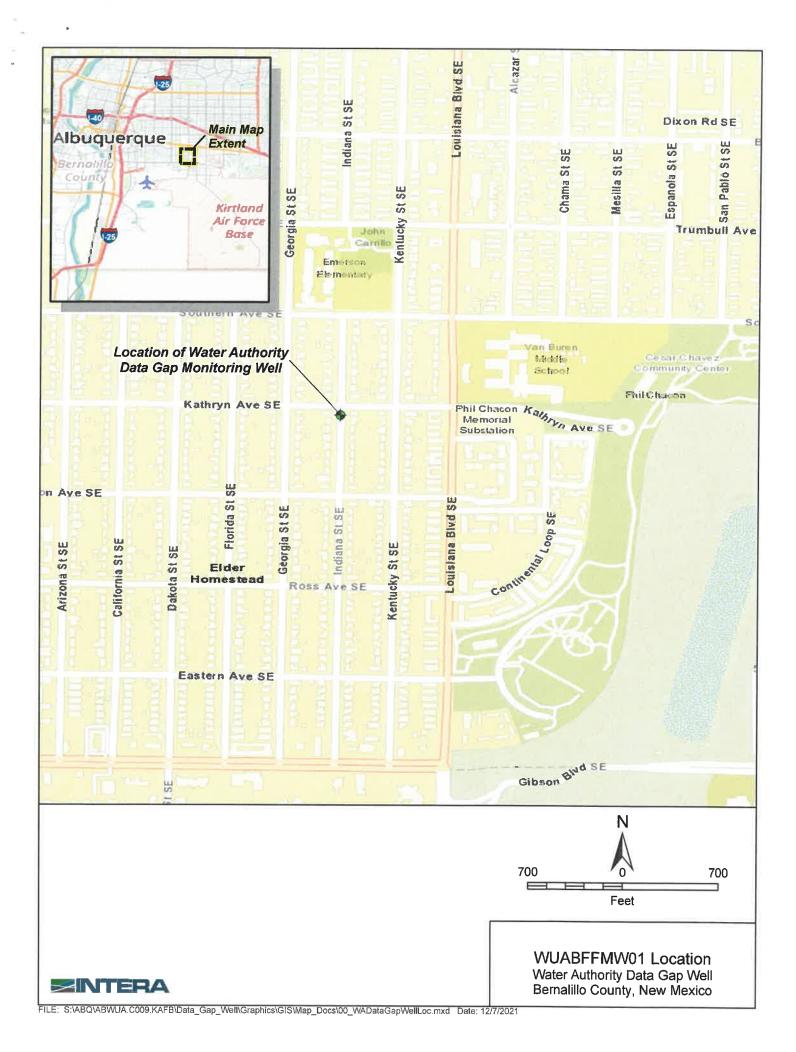
Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude

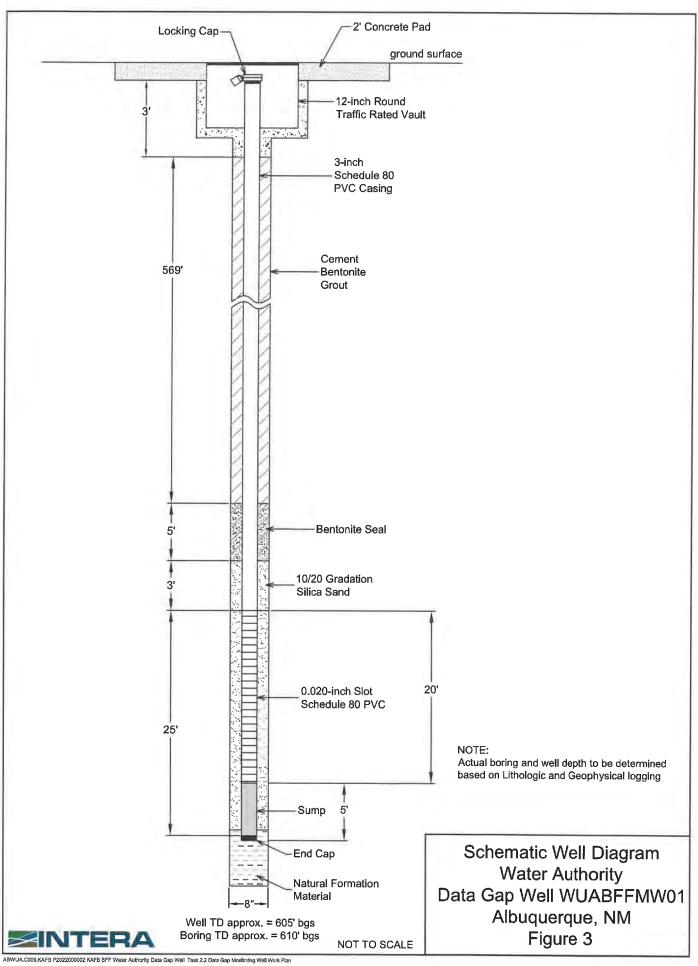
District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

Application for Permit, Form WR-07

Trn No.:

Exploratory:	Pollution Control and/or Recovery:	Construction	Mine De-Watering:
☐ Include a	☐ Include a plan for pollution	De-Watering:	☐ Include a plan for pollution
description of	control/recovery, that includes the	☐ Include a description of the	control/recovery, that includes the following
any proposed	following:	proposed dewatering	☐ A description of the need for mine
pump test, if	A description of the need for the	operation,	dewatering.
applicable.	pollution control or recovery operation.	The estimated duration of	The estimated maximum period of tim
	The estimated maximum period of time for completion of the operation.	the operation,	for completion of the operation.
	☐ The annual diversion amount.	The maximum amount of water to be diverted.	The source(s) of the water to be diver
	☐ The annual consumptive use	A description of the need	The geohydrologic characteristics of the
	amount.	for the dewatering operation,	aquifer(s).
	☐ The maximum amount of water to be	e and,	The maximum amount of water to be diverted per annum.
	diverted and injected for the duration of		☐The maximum amount of water to be
	the operation.	diverted water will be disposed	diverted for the duration of the operation.
	☐ The method and place of discharge.	of.	The quality of the water.
Monitoring:	☐ The method of measurement of	Ground Source Heat Pump:	The method of measurement of water
Include the	water produced and discharged.	☐ Include a description of the	diverted.
eason for the	The source of water to be injected.	geothermal heat exchange	☐The recharge of water to the aquifer.
monitoring	☐ The method of measurement of	project,	☐Description of the estimated area of
well, and,	water injected.	☐ The number of boreholes	hydrologic effect of the project.
■ The	The characteristics of the aquifer.	for the completed project and	☐ The method and place of discharge.
luration	☐ The method of determining the	required depths.	☐An estimation of the effects on surface
of the planned	resulting annual consumptive use of	☐ The time frame for	water rights and underground water rights
nonitoring.	water and depletion from any related	constructing the geothermal	from the mine dewatering project.
	stream system. Proof of any permit required from the	heat exchange project, and,	☐A description of the methods employed
	New Mexico Environment Department.		estimate effects on surface water rights ar
	An access agreement if the	☐ Preliminary surveys, design data, and additional	underground water rights.
	applicant is not the owner of the land on	information shall be included to	Information on existing wells, rivers, springs, and wetlands within the area of
	which the pollution plume control or	provide all essential facts	hydrologic effect.
	recovery well is to be located.	relating to the request.	nyarologic effect.
affirm that the fo	regoing statements are true to the best of	Print Name(s) f (my, our) knowledge and belief. Applicant Signature	
	ACTION	OF THE STATE ENGINEER	
		This application is:	
	☐ approved	_ · · · · _	denied
provided it is n	ot exercised to the detriment of any others	s having existing rights, and is not co	ontrary to the conservation of water in New
Mexico nor det	rimental to the public welfare and further	subject to the attached conditions of	approval.
Vitness my han	d and seal this day of		for the State Engineer,
		, State Engineer	
y:			
Signature		Print	
itle:			
Print			
	F00 0	SE INTERNAL USE	Application for Description
	FOR O	SE INTERNAL USE	Application for Permit, Form WR-0





OFFICE OF THE STATE ENGINEER/INTERSTATE STREAM COMMISSION – ALBUQUERQUE OFFICE

OFFICIAL RECEIPT NUMBER: 1 - 62807	DATE: December 10,20	22 FILE NO.:
TOTAL: S RECEIVED	1 Voicints	DOLLARS CHECK NO.: 3380 CASH:
PAYOR: ABCWUA+ Intera	ADDRESS: 2440 Louissan	a Bludetty: Alb. STATE: NI
ZIP: 87110 RECEIVED BY: INSTRUCTIONS: Indicate the number of actions to the left of the l	t of the appropriate type of filing. Complete the receipt information	on. Original to payor; pink copy to Program Support/ASD; and yellow co
A. Ground Water Filing Fees 1. Change of Ownership of Water Right \$ 2.00 2. Application to Appropriate or Supplement Domestic 72-12-1 Well \$ 125.00 3. Application to Repair or Deepen 72-12-1 Well \$ 75.00 4. Application for Replacement 72-12-1 Well \$ 75.00 5. Application to Change Purpose of Use 72-12-1 Well \$ 75.00 6. Application for Stock Well \$ 5.00	2. Declaration of Water Right \$ 3. Amended Declaration \$ 4. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Surface Water \$2 5. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Surface Water \$2 6. Application to Change Point of Diversion \$1	C. Well Driller Fees
7. Application to Appropriate Irrigation, Municipal, or Commercial Use \$ 25.00 8. Declaration of Water Right \$ 1.00 9. Application for Supplemental Non 72-12-1 Well \$ 25.00 10. Application to Change Place or Purpose of Use Non 72-12-1 Well \$ 25.00 11. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Ground Water \$ 50.00 12. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Ground Water \$ 50.00 13. Application to Change Point of Diversion of Non 72-12-1 Well \$ 25.00 14. Application to Repair or Deepen Non 72-12-1 Well \$ 5.00	7. Application to Change Place and/or Purpose of Use \$1 8. Application to Appropriate \$ 9. Notice of Intent to Appropriate \$ 10. Application for Extension of Time \$ 11. Supplemental Well to a Surface Right \$1 12. Return Flow Credit \$1 13. Proof of Completion of Works \$ 14. Proof of Application of Water to Beneficial Use \$ 15. Water Development Plan \$1 16. Declaration of Livestock Water Impoundment \$ 17. Application for Livestock Water Impoundment \$	100.00 25.00 25.00 50.00 100.00 F. Other \$
15. Application for Test, Expl. Observ. Well \$ 5.00 16. Application for Extension of Time \$ 25.00 17. Proof of Application to Beneficial Use \$ 25.00 18. Notice of Intent to Appropriate \$ 25.00 18.		
	All ICCS die Holl Icidildabie	1



STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

DISTRICT I

John R. D'Antonio Jr, P.E. STATE ENGINEER

5550 San Antonio Drive, NE Albuquerque, NM 87109-4127 (505) 383-4000

December 21, 2021

File No.:

RG-A0195

Permittee:

Albuquerque Bernalillo County Water Utility Authority (ABCWUA)

c/o Diane Agnew

PO Box 568 Albuquerque, NM 87103

Agent:

INTERA

c/o Joseph Tracy

2440 Louisiana Boulevard NE, Suite 700

Albuquerque, NM 87110

Greetings:

Enclosed is your accepted permit for monitoring wells RG-A0195-POD1, which has been approved in accordance with the attached Conditions of Approval.

Sincerely,

Ian Hewitt

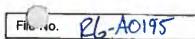
Water Resource Professional

IH:ih

Enclosure as stated

Cc: WRAB

AC1-42807



NEW MEXICO OFFICE OF THE STATE ENGINEER



WR-07 APPLICATION FOR PERMIT TO DRILL A WELL WITH NO WATER RIGHT

(check applicable box):

	For feed see State Engineers	unhalta, kun it		010
	For fees, see State Engineer v	vebsite. http://www.ose.state	.nm.us/	
Purpose:	Pollution Control And/Or Recovery	☐ Gro	und Source Heat Pump	三
Exploratory Well (Pump test)	Construction Site/Public Works Dewatering	c 🔲 Oth	er(Describe):	墨二: 17
Monitoring Well	Mine Dewatering			
A separate permit will be required	to apply water to beneficial use	regardless if use is cons	umptive or nonconsumptive.	
☐ Temporary Request - Request	ed Start Date:	Reque	sted End Date:	
Plugging Plan of Operations Subm	nitted? Yes No			
	·			
APPLICANT(S)				
Name:		Name:		_
Ibuquerque Bernalillo County Wat	er Utility Authority (ABCWUA)	INTERA		
Contact or Agent:	check here if Agent	Contact or Agent:	check here if A	gent 🔳
Diane Agnew		Joseph Tracy		
Mailing Address: O Box 568		Mailing Address: 2440 Louisiana Bouley	ard NF. Suite 700	
City:		City:	are real outs 100	
lbuquerque		Albuquerque		
	Zip Code:	State:	Zip Code:	
ew Mexico	87103	New Mexico	87110	
⁵ hone: 505-289-3008 Phone (Work):	☐ Home ☐ Cell	Phone: 505-246-1600 Phone (Work):	☐ Home ☐ Ce	H
		E-mail (optional):		
E-mail (optional):		L-man (opuonar).		

Sub-Basin:

PCW/LOG Due Date:

2. WELL(\$) Describe the well(s) applicable to this application.

☐ NM State Plane (NAD83) ☐ NM West Zone ☐ NM East Zone ☐ NM Central Zone		JTM (NAD83) (Met]Zone 12N]Zone 13N	ers) Lat/Long (WGS84) (to the nearest 1/10 th of second)
Well Number (If known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
WUABFFMW01	-106.570909 W	35.065297 N	NA S
			ATE ELGINEET S. OFT.
			- 5E
NOTE: if more well location Additional well descriptions			n WR-08 (Attachment 1 – POD Descriptions) If yes, how many
Other description relating well	l to common landmark public, Albuquerque cit	s, streets, or other: y street just south	
Well is on land owned by:Pub	lic		
Well Information: NOTE: If n If yes, how many	nore than one (1) wel	li needs to be des	cribed, provide attachment. Attached? Yes No
Approximate depth of well (fee	•	 	Outside diameter of well casing (inches): Nominal 3" di. sch 80 PVC
Driller Name: Cascade Drilling	<u> </u>		Oriller License Number: #WD-1664
. ADDITIONAL STATEMENTS	OR EXPLANATIONS	3	
	well design schematic		n, to avoid damage to the newly installed well from heat of curing time minimum between lifts required.
EDB groundwater contaminatio plume. Data from this well will be	ell is needed at the KA in plume. This well will be used by the Water A	AFB BFF project site be drilled and cons Authority and share	e to address an outstanding data gap in the characterization of the structed to sample for EDB at depth in the northern extent of the d with the NMED and Air Force to inform their site conceptual monitoring well will be monitored through the completion of

FOR OSE INTERNAL USE	Application for Permit, Form VVR-U/
File No.:	Tm No.:
	Page 2 of 3

4. SPECIFIC RED	QUIREMENTS: The applicant must include at the information has been included and/or	the following, as applicable to eac attached to this application:	ch well type. Please check the appropriate
Exploratory: Include a description of any proposed pump test, if applicable. Monitoring: Include the reason for the monitoring well, and, The duration of the planned monitoring.	Pollution Control and/or Recovery: Include a plan for pollution control/recovery, that includes the following: A description of the need for the pollution control or recovery operation. The estimated maximum period of time for completion of the operation. The annual diversion amount. The annual consumptive use amount. The maximum amount of water to be diverted and injected for the duration of the operation. The method and place of discharge. The method of measurement of water produced and discharged. The source of water to be injected. The method of measurement of water injected. The method of determining the resulting annual consumptive use of water and depletion from any related stream system. Proof of any permit required from the New Mexico Environment Department. An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	Construction De-Watering:	Mine De-Watering: Include a plan for pollution control/recovery, that includes the following A description of the need for mine dewatering. The estimated maximum period of time for completion of the operation. The source(s) of the water to be diverted the second control of the apulfer(s). The maximum amount of water to be diverted per annum. The maximum amount of water to be diverted for the duration of the operation. The quality of the water. The method of measurement of water diverted. The recharge of water to the aquifer. Description of the estimated area of hydrologic effect of the project. The method and place of discharge. An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. A description of the methods employed to estimate effects on surface water rights and underground water rights. Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
I, We (name of a		int Name(s)	
affirm that the fo	regoing statements are true to the best of (
Applicant Signat	M AMEN	Applicant Signature	S
Approant orginal	V	OF THE STATE ENGINEER	ATE E
provided it is no Mexico nor det	rimental to the public wellare and further su	having existing rights, and is not co	denied Ontrary to the conservation of water in New
Witness my hand	CA 39 177 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		for the State Engineer,
E. S.	JOHN R. D'ANTONIO STATE ENGINEER	, JR. PE. State Engineer	्रांच
	81	Sec.	1. 91
By: Signature	V. 3. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	Print	Henitt
Title:	URPIL		
	EOD OC	EINTEDNAL 1907	Application for Popular To Application
	File No.:	E INTERNAL USE	Application for Permit, Form WR-07

Page 3 of 3

NEW MEXICO OFFICE OF THE STATE ENGINEER PERMIT TO DRILL A MONITORING WELL CONDITIONS OF APPROVAL

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the following conditions of approval:

Permittee: Albuquerque Bernalillo County Water Utility Authority (ABCWUA)

c/o Diane Agnew PO Box 568

Albuquerque, NM 87103

Permit Number: RG-A0195

Application File Date: December 10, 2021

Source: Groundwater

Wells: One (1) monitoring well under permit no. RG-A0195 on land owned

by the City of Albuquerque located in the City of Albuquerque,

Bernalillo County described as:

POD #	Well ID	Casing Inner Diameter (Inches)	Total Depth (Feet)	Longitude (WGS84)	Latitude (WGS84)
1	WUABF FMW01	3	605	-106.570909	35.065297

Purpose of Use: Groundwater sampling as part of KAFB BFF Project Site.

Place of Use: N/A

Amount of Water: N/A

- 1. No water shall be appropriated and beneficially used under this permit.
- 2. Wells RG-A0195-POD1 shall be drilled and constructed by a driller licensed in the State of New Mexico in accordance with 19.27.4 NMAC.
- 3. The Permittee is responsible for obtaining an access agreement.
- 4. Completed and properly executed Well Records on the form provided by the State Engineer shall be filed within 30 days after the wells are drilled.
- 5. Wells RG-A0195-POD1 shall be plugged upon completion of the permitted use, and a plugging report shall be filed with the State Engineer within 30 days after the wells are plugged.

Page 1 of 2

File No: RG-A0195

NEW MEXICO OFFICE OF THE STATE ENGINEER PERMIT TO DRILL A MONITORING WELL CONDITIONS OF APPROVAL

- 6. Wells RG-A0195-POD1 must be completed within one year of the approval date of this permit.
- 7. Pursuant to Section 72-8-1 NMSA, the permittee shall allow the state engineer and his representatives entry upon private property for the performance of their respective duties, including access to the wells for inspection and water level measurements.
- 8. The State Engineer retains jurisdiction over this permit.

Witness my hand and seal this 21st day of December, 2021

John D'Antonio Jr., PE State Engineer

By:

Ian Hewitt

Water Resource Professional

District 1

Page 2 of 2

File No: RG-A0195

ATTACHMENT A-PROJECT DESCRIPTION & DELIVERY PLAN

NEW MEXICO ENVIRONMENT DEPARTMENT CONSTRUCTION PROGRAMS BUREAU

	Albuquerque Bernalillo County Wat	er Utility Author			
	SAP 21-F2298-STB ALB-BERN CO WUA MONITOR WELL CONSTRUCT				
Project Name:	ALB-BERN CO WUA MUNITUR WELL	CONSTRUCT			
Project Description:					
to plan, design, construct	and test a groundwater m	onitoring well at Kirtland All	r Force Base		
	ne questions below. If needed, pleas nt A before returning the Grant Agr		er with		
Capital outlay grant funds will	The estimated cost for each is:	The project schedule for each is			
be used to pay for	1	(started by MM/YYYY,			
(check all that apply):		completed by MM/YYYY):			
A. ENGINEERING SERVICES	A	A			
121 PLANNING	#42,125.00	09/2021 11/2021			
E DESIGN	\$ 9.111.00	09/2021, 12/2021			
☐ BIDDING &	N/A	N/A			
CONSTRUCTION PHASE	:				
SERVICES					
☑ B. CONSTRUCTION	B \$310,150.80	B 11/2021, 01/2022			
S C. EQUIPMENT PURCHASE	c \$36,107.16	C 11/2021, 01/2022			
D. OTHER Well fost, Final	D # 63, 501. 50	D 12/2021, 03/2022			
Report					
Will engineering services for the	entire project exceed \$60,000 (Y/N)	7 4			
Has an engineer been hired (Y/N)	? Y Please circle the procuren	nent method: (FP), CES or direct hire	e less than \$60k.		
Have any engineering studies, pla and provide cost estimates (Y/N)	nning documents, or inspection rep. ? If yes, please provide copies	ports been completed that define the sto NMED.	e project need		
Are there other funds for the pro	ject (Y/N)? N If yes, what funds	will be used?			
	Eric Ca	Digitally signed by Eric Gartner Cartner Date: 2021.10.12 15:27:51			
x M) x Elic Ga	-06'00'			
Official Representative/Date		Nanager Approval/Date			

Reminder: The Grantee must obligate 5% of the total grant funds within 6 months of the bond sale if funds come from severance tax bonds (STB) toward an NMED-approved contract for engineering/construction/equipment/other project expense.

NMED ATTACHMENT B – NMENV TECHNICAL REQUIREMENTS TO STATE OF NEW MEXICO CAPITAL APPROPRIATION FUND AGREEMENT

ARTICLE 1 REVIEW

Upon execution of the agreement, the Grantee will follow the procedures listed below unless waived in writing by the New Mexico Environment Department (NMED) (payment may be withheld if any of these procedures are not followed by the Grantee).

- A. The Grantee must submit a detailed project description to NMED Construction Programs Bureau prior to committing to expenditures from these funds. The detailed description will be provided on the Attachment A form. The Grantee must submit copies to NMED of all executed contracts entered into by the Grantee prior to this agreement, that are related to the project, for review and, if appropriate, approval.
- B. If these grant funds are to be used for engineering and/or other professional services, the hiring process for engineering services and/or other professional services must be performed in compliance with the New Mexico Procurement Code [Sections 13-1-21 et seq. NMSA 1978]. If, for any one circumstance, engineering fees will exceed \$60,000, excluding gross receipt taxes, the Grantee is also required to contact the Professional Technical Advisory Board (PTAB) for assistance in the preparation of the RFP package. (PTAB: phone (505) 888-6161 and e-mail ptab@acecnm.org.)
- C. If these grant funds are to be used for engineering and/or other professional services, the Grantee must submit a copy of any engineering agreement and/or other professional services contract, or a letter certifying that the Grantee's staff will be used for design, to NMED for review prior to executing the agreement/contract or using Grantee's staff. The required engineering agreement format is the "Publicly Funded Project" form prepared bv **NMED** and posted on the website at www.nmenv.state.nm.us/cpb/cpbtop.html.
- D. A preliminary engineering report (PER) or study by a registered New Mexico Professional Engineer may be required. The Grantee must submit the final PER and/or study to NMED for review and approval before preparation of plans and specifications. The purpose of the PER and/or study is to analyze and choose the most technically feasible and cost effective solution for the project. The PER must follow USDA RUS Bulletin 1780-2.
- E. Grantee agrees not to start the preparation of plans and specifications until NMED approval of the PER, study, or waiver of the report requirement has been received.
- F. If the grant funds are to be used for engineering design or for construction, the Grantee must submit all plans, specifications, and any addenda for this project (prepared by a registered New Mexico Professional Engineer) to NMED for review and approval **before** the project is advertised for construction bids.
- G. The Grantee must submit all work related to easements, rights-of-ways, other property rights, and financing provisions associated with the project to NMED for review **prior to** advertising for construction. A site certificate certifying that all necessary easements and/or property upon or through which the project is being constructed have been obtained must be submitted prior to the advertisement

for bid of the project. The Site Certificate must be signed by an attorney, engineer, surveyor, or title abstractor.

- H. The Grantee must submit the recommendation of award, certified bid tabulation, a copy of bid bond for the selected contractor and evidence of full project financing to NMED for review and approval **prior to** awarding the contract. Grantee shall not award the contract until NMED has concurred in writing with the award. Competitive bidding, in accordance with applicable state laws (including local wage determinations as provided for in Section 13-4-11 NMSA 1978), will be used for awarding construction contracts. Contracts will be awarded to the responsive, responsible bidder who submits the lowest acceptable bid, or as provided for by State Law.
- I. Following NMED approval of the proposed award, the Grantee will submit the notice of the award and the minutes of the meeting in which the award was made, the notice of a pre-construction conference, a copy of the executed construction contract documents (including payment and performance bonds), and the notice to contractor to proceed to NMED for review. The selected contractor will be required to post a performance and payment bond in accordance with requirements of Section 13-4-18 NMSA 1978.
- J. The selected contractor will submit a construction schedule to the Grantee and NMED if requested at the pre-construction conference with a copy to NMED. The Grantee will submit all modifications to plans and contract by change orders to the NMED project manager promptly for review and approval **prior to** implementation of such modification or change. The decision by NMED will be rendered promptly in writing to the Grantee. In cases necessitating immediate action, a verbal decision will be rendered by NMED and followed by a written confirmation to the Grantee.
- K. The Grantee will provide a full-time construction inspector during construction of the project unless NMED determines that part time inspection is adequate for the project. This must be requested and approved by NMED prior to the start of construction. The Grantee will be required to submit the inspector's résumé to NMED for review and approval. All daily inspection reports shall be made available to the NMED Project Manager upon request.
- L. All daily inspection reports shall be made available to the NMED Project Manager upon request.
- M. Notwithstanding the inspections performed by the Grantee and its engineer, NMED will have the right to examine all installations comprising the project, including materials delivered and stored on-site for use on the project. Such examinations will not be considered an inspection for compliance with contract plans, but will be a general NMED review as described in Article 2 below.
- N. If applicable, the Grantee (or the system owner) will employ qualified utility operators and will comply with all provisions of the New Mexico Utility Operators Certification Act, Section 61-33-1 et seq. NMSA 1978.
- O. NMED will reimburse the grantee its actual costs when NMED determines, in its sole discretion, that expenditures were appropriate under the terms of the Agreement and that the expenditures were properly documented.

ARTICLE 2 NMED OVERSIGHT

NMED inspection, review and approval are only for purposes of compliance with applicable state grant requirements, procedures, statutes and regulations. NMED approval will not be interpreted as any warranty or

guarantee of any kind. Approval of plans and design of the project means only that plans are in compliance with applicable state grant requirements, procedures and regulations. NMED will bring to the Grantee's attention, any obvious defects in the project's design, materials or workmanship, but all such defects and their correction will be the responsibility of the Grantee and its contractors and consultants. Any questions raised by NMED during its inspections and reviews shall be resolved exclusively by the Grantee. The Grantee and its contractors and consultants will remain responsible for the completion and success of the project. Approval does not relieve the owner or engineer of legal responsibilities for the overall integrity of the project, adequacy of the design, safety, or compliance with all applicable regulations.

ARTICLE 3 CLOSEOUT

- A. The project will not be considered complete until the work as defined in this agreement has been fully performed, and finally and unconditionally accepted by the Grantee and NMED.
- B. If the grant funds are to be used for preparation of a PER, a study, or plans and specifications, final payment will be made after approval by NMED of the PER, study, or plans and specifications. Payments do not constitute approval of any of these documents.
- C. If the grant funds are to be used for purchase of equipment, final payment will be made after approval by NMED of receipt of equipment title and appraisal reports for used equipment.
- D. If the grant funds are to be used for construction, final payment will be made after the final inspection has been conducted by NMED and the following items, unless waived by NMED, have been provided to NMED, and have been reviewed and approved by NMED:
 - i. Operation and maintenance manuals or a letter from the owner certifying receipt and acceptance of the operation and maintenance manuals;
 - ii. A final reimbursement request including the final certified construction pay request prepared by the Grantee's project engineer and approved by the Grantee;
 - iii. A certificate of substantial completion including punch list items;
 - iv. A letter certifying project acceptance by the Grantee and the Grantee's project engineer stating that work has been satisfactorily completed and the construction contractor has fulfilled all of the obligations required under the contract documents with the Grantee, or if payment and materials performance bonds are "called", an acceptance close-out settlement to the Grantee and contractors will be submitted to NMED for final review and approval;
 - v. Certification letter by the Grantee that the Labor Standards Contract Provisions have been met;
 - vi. Record drawings prepared by the Grantee's project engineer or a letter from the owner certifying receipt and acceptance of the record drawings;
 - vii. Complete and legally effective releases or waivers (satisfactory to the Grantee) of all liens arising out of the contract documents and the labor services performed and the materials and equipment furnished there under. In lieu thereof and as approved by the Grantee, contractor(s) may furnish receipts or releases in full; an affidavit of contractor that the releases and receipts include labor, services, materials, and equipment for which a lien could be filed and that all payrolls, material and

equipment bills, and other indebtedness connected with the work for which the Grantee or its property might in any way be responsible, have been paid or otherwise satisfied;

- viii. A written consent of the surety, if any, to final payment; and
- ix. Grantee's ledger sheets including all payments made by the Grantee may be requested with the final reimbursement request and before the final reimbursement request can be processed by NMED.

With the exception of easements (See Article 1.G above), when real property is acquired by the Grantee, either through purchase or donation as a part of this project and within the project period, the Grantee will submit documentation of the acquisition to NMED, including a legal description of the property, the date the property will be acquired, evidence of clear title, and an appraisal report prepared by a <u>qualified</u> appraiser who was selected through applicable procurement procedures. These documents must be reviewed and approved by NMED <u>prior to</u> the acquisition of any real property. After real property acquisition, the Grantee will make available to NMED all documents of title pertaining to the acquired property and all easements or rights-of-way necessary for the completion of work under this grant agreement.

NMED Attachment C

NMED Contact Information Sheet

Project Number SAP 21-F2298-STB

Grantee Albuquerque Bernalillo County Water Utility Author

Project Manager: David Bishop

Project Manager Address: 121 Tijeras Ave NE, Ste 1000

Albuquerque, NM 87102

Phone: 505-469-3274

Email: david.bishop@state.nm.us

Project Administration: Bertha Aragon

Project Admin Address: 1190 St. Francis Drive S-2072

Santa Fe, NM 87502

Phone: 505-670-3615

Email: bertha.aragon@state.nm.us

For General Assistance, please call 505-827-2806 and ask for "Special Appropriations" or email:

NMENV-cpbsap@state.nm.us

Rev. May 2018

NEW MEXICO ENVIRONMENT DEPARTMENT CONSTRUCTION PROGRAMS BUREAU

	NME		APPROPRIA			UEST		
A. NAME OF ENTITY					C. DISBURSEME	NT REQUEST NU	IMBER	
B. PROJECT NUMBER					D, GRANT AMOU	INT		
	PREVIOUS EXPENDITURES		CURRENT EXPENDITURES		CUMULATIVE		FUNDS REMAINING	
	NMED PROGRAM	OTHER FUNDS	NMED PROGRAM	OTHER FUNDS	NMED PROGRAM	OTHER FUNDS	NMED PROGRAM	OTHER FUNDS
Engineer Fees							S -	s -
Other Professional							S -	s -
Service Fees	1						S ÷	s -
Inspection Fees							s -	s -
Property Acquisition							s -	s -
Construction Cost							s -	s -
Planning Cost							s -	s -
Equipment							s -	s -
Other Costs (specify)							s -	s -
Contingencies							s -	\$ -
TOTAL		s .	s -	\$ -	s =	s -	S =	s -
Article IX.A. (iii). By checking this bo vendors associated with this request payment will be sent within 10 days	t. Upon receipt of pa	syment from NMED,	certification of				you are certifying request have been	
Certification: Under penalty of law Loan/Grant Agreement; that all of th Article IX, Sec. 14 of the New Mexico	ne above expenses a	re properly documen	ited, and are actual in					

Signature of Authorized Official:	Typed or Printed Name:	Phone:	Date:
x			

NMED Attachment E

New Mexico Environment Department (NMED)

Capital Appropriations Certification Document

Article IX. A. (ii) and (iii)

Project SAP 21-F2298-STB

Grantee Albuquerque Bernalillo County Water Utility Author

Payment Re	quest No	

I certify that payment to all vendors on the above referenced payment request were paid no more than five (5) days after receiving reimbursement from NMED.

Official Representative, Signed Name, Printed Name, Date

[+Bracketed Material+] - New [-Bracketed Material-] - Deletion

26

ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY

BILL	NO. <u>R-21-18</u>
1	RESOLUTION
2	APPROVING AND AUTHORIZING A NEW MEXICO ENVIRONMENT DEPARTMENT
3	APPROPRIATION FOR THE MONITOR WELL CONSTRUCTION PROJECT
4	WHEREAS, the Albuquerque Bernalillo County Water Utility Authority ("Water
5	Authority") shall enter into a Grant Agreement with the State of New Mexico
6	Environment Department; and
7	WHEREAS, the Agreement is identified as SAP 21-F2298-STB Grant Agreement.
8	BE IT RESOLVED BY THE WATER AUTHORITY:
9	Section 1. The Executive Director or his successor is authorized to sign the
10	agreement for this project and act as a single point of contact concerning all matters
11	related to the Grant Agreement.
12	Section 2. The Executive Director or his successor is the OFFICIAL
13	REPRESENTATIVE who is authorized to sign reimbursement requests and any and all
14	other documents requiring a signature for submittal to the New Mexico Environment
15	Department.
16	Section 3. New Mexico Environment Department funds in the amount of
17	\$770,000, are hereby appropriated to Fund 29, JL Key 9426 WUA Kirtland Air Force
18	Base ground water monitoring well construction.
19	
20	
21	
22	
23	
24	
25	

1	PASSED AND ADOPTED THIS <u>22nd</u> DAY OF <u>September</u> , 2021
2	BY A VOTE OF: 5 FOR 0 AGAINST.
3	
4	
5	Yes: Benson, Davis, Jones, Pyskoty and Quezada
6	No:
7	Excused: Peña and Nair
8	
9	
10	
11	2/11/11/1
12	The Milal legt
13	Steven Michael Quezada, Chair
14	
15 16	
16 17	
18	ATTEST:
19	
20	hun
21	Mark S. Sanchez, Executive Director
22	
23	
24	
25	
26	
27	
28	
29	
30	

Name of Grantee: Albuquerque Bernalillo Co WUA Project Number: SAP 21-F2298-STB

Current Authorized Signatures (submit with Signature Resolution; update when necessary)

Authorized to Sign Grant Agreement				
Name	Mark S. Sanchez			
Title	Executive Director			
Signature	m			
Address	P.O. Box 568			
	Allouguerque, NM 87103			
Email	m Sanchez @abcwua.org			
Phone	505-289-3101			
Autho	rized Officer/Official Representative; To sign Disbursement Requests and All Other Documents			
Name	Mark S. Sanchez			
Title	Executive Director			
Signature	m			
Address	P.O. Box. 568			
	Albuquerque, NM 87103 Msanchez@abcwua.org			
Email	msantheza abcwua.org			
Phone	505-289-3101			
Ag	Agent or Employee that will make Monthly CPMS Updates			
Name	Andrea Chandler / Marta Ortiz			
Title	Principal Accounted / Capital Improvement Manager Signature Not Required			
Signature	Signature Not Required			
Address	P.O. Box 568			
	Albuquerque, NM 87103			
Email	achandler@abcwue.org /mortiz@abcwue.org			
Phone	505-289-3028 /505-289-300-7			



Cantant Information

CITY OF ALBUQUERQUE ENVIRONMENTAL HEALTH DEPARTMENT

Epidemiology Section
One Civic Plaza NW, 3rd Floor, Room 3023, Albuquerque, NM 87103

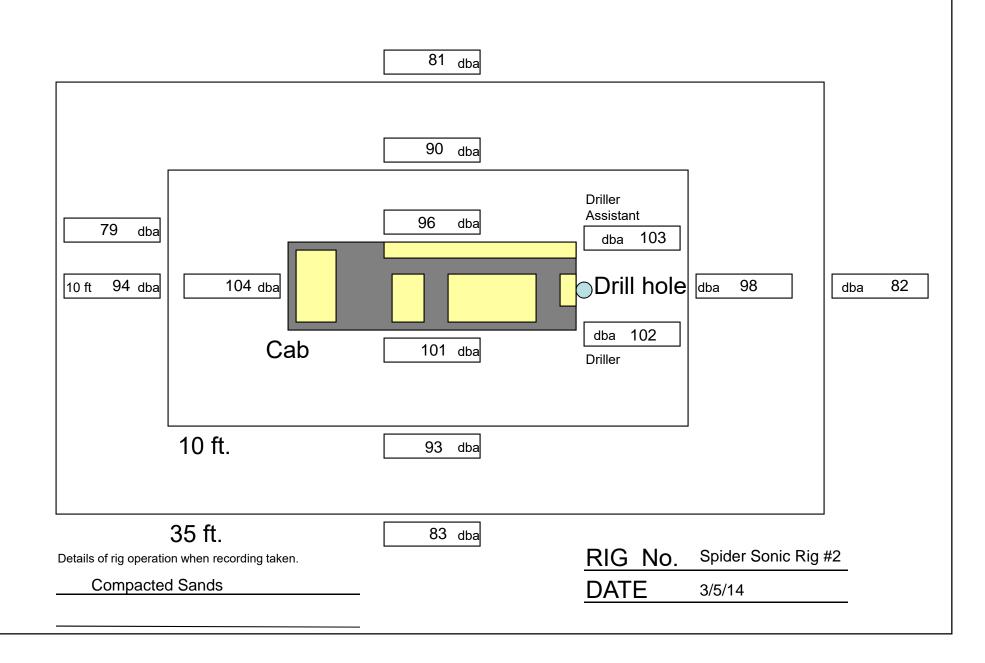
(505) 768–2738

Construction Noise Permit Permit Number

The responsible party shall be liable for the accuracy of the document and compliance with all applicable rules in Title Chapter 9: Health, Safety and Sanitation, Article 9: Noise Control of the City of Albuquerque – New Mexico Code of Ordinances.

Contact Information				
Company Name: <u>INTERA on behalf of the Albuquerque Bernali</u>	llo County Wa	ter Utility Auth	ority (ABCV	VUA)
Name of Person In-Charge: <u>Joseph Tracy</u>				
Work Site Location: Within Indiana Street SE south of Kathryn	Avenue SE			
Address Contact Phone Number: (505) 246-1600 ext. 1219	Zip	Borough	Block	Lot
Approximate Distance to Noise-Sensitive Property (as defined	in §9-9-5) <u>Ap</u>	proximately 40) feet west_	feet.
Construction Work is Taking Place from:	01/	<u>/24/2022</u> _To Year	03 Month	3/18/2022 Year
Work Days and Hours (as defined in §9-9-5 (C)) 7 AM to 5	PM			
Construction Activities and Equipment				
Please describe the types of activities which will occur at the cons	truction site an	d the equipmen	nt that may be	used
for such. For example, jack hammering will take place on NE con		a the equipmen	it tildt lildy be	useu
NTERA, on behalf of the Albuquerque Bernalillo County Water Auth	ority (ABCWU	JA) will be insta	alling a monit	oring well
rithin Indiana Street SE, just south of Kathryn Avenue SE. Equipmen				
apport trucks. Rig noise estimated DBA levels are included in the atta		ide a some um	ing rig, lorkii	ii, and
apport trucks. Alg noise estimated DBA levels are included in the atta	iched figure.			
<u>Mitigation Measures</u>				
Devel 1 - 2' - 4'				
Describe mitigation measures (as set forth in §9-9-5 (C2)):				
ound panels will be erected around the drilling rig and general constr	uction area to n	nitigate noise to	nearby reside	maaa
ound panels that will be placed are STC-25 rated (ASTM E-413) and		migate noise to	near by reside	nces.
ound panels that will be placed are \$10-23 fated (ASTM E-413) and	12-leet tall.			
I of the				
Name of Person In-Charge				
realite of reison in-Charge		Company		
hereby certify that the information contained in this form is true an	d accurate.			
			//	
Applicant Signature:		Date: /2	117/21	
			8	
EHD Signature:		Date:		
		7. V		

SOUND LEVEL RECORDINGS





Contact Information

CITY OF ALBUQUERQUE ENVIRONMENTAL HEALTH DEPARTMENT

Epidemiology Section
One Civic Plaza NW, 3rd Floor, Room 3023, Albuquerque, NM 87103

(505) 768-2738

Construction Noise Permit PERMIT NUMBER 21 -10

The responsible party shall be liable for the accuracy of the document and compliance with all applicable rules in Title Chapter 9: Health, Safety and Sanitation, Article 9: Noise Control of the City of Albuquerque – New Mexico Code of Ordinances.

Company Name: INTERA on behalf of the Albuquerque	e Bernalillo County	Water Utility Aut	hority (ABCW	/UA)
Name of Person In-Charge: Joseph Tracy				
Work Site Location: Within Indiana Street SE south of	Kathryn Avenue S	E		
Address Contact Phone Number: (505) 246-1600 ext. 1219	Zip	Borough	Block	Lot
	FOX TWO SERVICES			
Approximate Distance to Noise-Sensitive Property (as	defined in §9-9-5)	Approximately 4	0 feet west	feet
Construction Work is Taking Place from:		01/24/2022 To	03/	/18/2022
The second secon	Month	Year	Month	Year
Work Days and Hours (as defined in §9-9-5 (C)) 7	AM to 5 PM			
Construction Activities and Equipment				
Please describe the types of activities which will occur at	the construction sit	e and the equinmen	nt that may be	head
for such. For example, jack hammering will take place or			nt mat may be	useu
NTERA, on behalf of the Albuquerque Bernalillo County Wa				
within Indiana Street SE, just south of Kathryn Avenue SE. Ed			ing rig, forklif	t, and
support trucks. Rig noise estimated DBA levels are included in	n the attached figure	9,		
Mitigation Measures				
Describe mitigation measures (as set forth in §9-9-5 (C2))	le le			
ound panels will be erected around the drilling rig and genera			nearby residen	ices.
ound panels that will be placed are STC-25 rated (ASTM E-4	113) and 12-feet tall			
Iof	the			
Name of Person In-Charge		Company		
hereby certify that the information contained in this form is	s true and accurate.			
Applicant Signature:	3	Dota: 43	1/2/2	
Applicant Signature:		Date: 12	14/21	
EHD Signature: 11/1/1/		Date: 12	15/51/	
101001 41				

 From:
 eticket@nm811.org

 To:
 Austin Hanson

Subject: NM811 Ticket Confirmation: 22JA180705

Date: Tuesday, January 18, 2022 11:55:10 AM

NM811 LOCATE REQUEST

TICKET NUMBER: 22JA180705 Update of:

Ticket Type: Standard Locate For Code: AUTOEMAIL

Creation Date: 01/18/22 11:54 Seq Num: 1

Excavator Information

Company:	INTERA	Main Contact Phone:	(484) 264-3095
Company.	INTERN	Main Contact I none.	(404) 204-3073
Address:	6000 UPTOWN BLVD NE	Secondary Phone:	
City, St, Zip:	ALBUQUERQUE, NM 87110	Main Contact Email:	AHANSON@INTERA.COM
Company Phone:	(505) 246-1600	Alternate Contact:	JOSEPH TRACY
Company Fax:		Alternate Contact Phone:	(505) 246-1600
Main Contact:	AUSTIN HANSON	Alternate Contact Email:	JTRACY@INTERA.COM

Work Information

	***	I K IIII II III ation	
State:	NM	Work To Begin:	01/20/22 AT 12:00
County:	BERNALILLO	Expire Date:	02/10/22 AT 12:00
Place:	ALBUQUERQUE		
Address:	800 INDIANA ST SE		
Intersection:	KATHRYN AVE SE		
Work Type:	Bore-Auger - Holes	Working For:	ABQ WATER AUTHORITY
Pre-marked:	Yes	Mechanical Boring:	No
Contact Prior to Locating:	No	Contact After Locating:	No

Driving Directions

Spotting Instructions

FROM THE INTER, SPOT ALONG INDIANA RD GOING S TO N EDGE OF DRIVEWAY.

Remarks

MONITORING WELL // HAZARDS: NONE // ACCESS: OPEN // ANIMALS: NONE

TRSQ: [W8T10NR03ES25NE] [W8T10NR03ES25SE]

Utilities Notified:

<u>Code</u>	<u>Name</u>	Manually Added
ABQWA	ALBUQUERQUE/BERNALILLO COUNTY WUA	False
NMGAQ	NEW MEXICO GAS COMPANY - ALBUQUERQUE	False
PNMAB	PNM ELECTRIC - ALBUQUERQUE	False
QLNN	CENTURYLINK LOCAL NETWORK CENTRAL	False

To: Sharwin Steinmetz

Secondary Lat:

Contact Prior to Locating:

Work Type:

Pre-marked:

Subject: NM811 Ticket Confirmation: 22JA180638 Date: Tuesday, January 18, 2022 10:51:37 AM

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If in doubt, contact the Help Desk..

NM811 LOCATE REQUEST

TICKET NUMBER: 22JA180638 Update of:

Ticket Type: Standard Locate For Code: AUTOEMAIL

01/18/22 10:51 Creation Date: Seq Num:

Excavator Information

Company:	CASCADE DRILLING	Main Contact Phone:	(623) 935-0124
Address:	7773 W Seldon Lane	Secondary Phone:	
City, St, Zip:	Peoria, , AZ 85935	Main Contact Email:	ssteinmetz@cascade-env.com
Company Phone:	(619) 647-5485	Alternate Contact:	
Company Fax:		Alternate Contact Phon	ne:
Main Contact:	SHARWIN STEINMETZ	Alternate Contact Ema	il:
	Wor	k Information	
State:	NM	Work To Begin:	01/20/22 AT 11:00
County:	BERNALILLO	Expire Date:	02/10/22 AT 11:00
Place:	ALBUQUERQUE		
Address:	801 INDIANA ST SE		
Intersection:	KATHRYN AVE SE		
Latitude:	35.064534	Longitude:	-106.571043

Driving Directions

Secondary Long:

Mechanical Boring:

Contact After Locating:

Working For:

-106.570882

Intera

No

No

From the corner of Southeast intersection of Georgia Ave and Kathryn Ave go east 300 feet to Indiana Ave and Kathryn Ave Begin locating.

Spotting Instructions

From the North west intersection of Kathryn ave and Indiana st, locate south 300FT south on Indiana Street both sides of the road to include side walk.

Remarks

Location in the middle of the road of Indiana street SE

35.065465

Yes

No

Bore-Auger - Soil Sample

TRSQ: [W8T10NR03ES25NE] [W8T10NR03ES25SE]

Utilities Notified:

Code	<u>Name</u>	Manually Added
ABQWA	ALBUQUERQUE/BERNALILLO COUNTY WUA	False
NMGAQ	NEW MEXICO GAS COMPANY - ALBUQUERQUE	False
QLNN	CENTURYLINK LOCAL NETWORK CENTRAL	False



Appendix B

Field Notes



Field Notes Drilling

1-24-22 Monday clear cold 20 11-2-21 800 Indiana St, 1980 1 30°F 0630 TO ste 1315 See Gity property to east, for lay down yard. 6650 on site (20 min) 0700 Forhlift delivery 1. 97H-5519 See Rental Contact, give he Cascade 14 hern Renfals 702 647-8100 071; Toe Trucy on Seta discuss all. 0820 (ascade on sete wi Ditch witch ad drill vig 0820 Cascade on Ente, Talk with horse owner. "Lote Ha" AES here w/ 2 totas. 10yd3 17'x3' 0330 Road is blocked and Signed, Pull drill rig over hole lo ca from. 0850 Set up dech ad measure for taruter to total length.

22 PM8 1-24.22 Monday 1.24.26 Monday 0900 King + deck + trailer -Call Sharwin for fonce update. fit to driveway , yes. 0940 (all wi Joe). Itold for commentur wi Fening formmer AM. 250 (LOR fening) WH il Sound before daylighty. Confused, need sound panels OKN Jenny - has called 4 Firms Cascade Safety Tailgate My Pertopotty v w, fencywas supposed to be here 1 Cold by 0900 today. Vlifty Fallig in hole 1027 Call Lynda Price small space for safety update Moving equipment Call her when crew refung v heavy profection pina points with sound pavels Team lift 811 Permit No. - Austin has. 1030 Port-o-Let here. "505" 505 859-5767 - (all for 8 - (all for # 22JA180705 1000 Cascade to go get Sound panels from foralta. will return and set panels Combination for portolet. before day lighty . Ok. Serviced 7 days. V Daylight - cut 2' x 2' as phalf. 1100 Kelsy Buknel on site confin wi soe T.

26 Rmg 1.24.22 Monday 1-24-22 Monday 1515 Call w/ Austin not needed forly 1330 Crew to Peralta to get support truck and new asphalt saw blade. Ok. end of the day . Ok. 1430 Rollott her. AES 1530 Fire fructs at Louiseana and Kathryn. 16.5 × 3 × 5 = 660 ft3 x 1x d3 Crew in other truck behind $= 24 4d^3$ 27 ft³ 1547 Other Crew back both Support truck, Backing in. 1436 Linns the rolloff with plastic. 1554 Safety Mtg. - Lynda Price
Rein H15 Plan
Emergency: 800 Indiana St.

Phone cell phones 911 - Emegany.
F1538 Aid Kil Forklift width 6.5 wide 17,5 long, including for hs. 1507 Lynda pry for safety my Secure the panels Vehile emission - confid spare.

28 72Mg 1-24-22 Monday 1-24-22 Nonday 1620 Covid test Rits to Cascade Crew. 1700 Summary 1-24-22 a Obtan Forhalf · Mobilize dulli egot to site 1622 Ready to cut asphalt. , 06 tain 24 yd3 rollott 1632 cutting asphalt. Break out the asphalt Square, 106 tan Portolet · Cut 2 x Z as phalt · Set up nouse 'a Safety My with sledgehammer and degging har. Tombrion 1-25-22 Complete dayingat ops 1651 Cutting complete. Still need to Great out more Obtain force Set up over hole in the morning. Begin duly? More tender truck next 1710 pms all JoeT. to rig over hole. Rus call on Joe T.
Tomolow, Rms call kelsy
before drilly. more tops next to rig.
Lock Portolet.
Rollott is strapped shut.
Forklift is secure. 1730 KMS off site. 1700 Cascade off site pmb 30 pmg 1-25.22 Tursday Clear Cold 2250F RMY Tunday 1-25-22 0630 To site 0645 on sate 0715 Cascade here 0720 Safety Mtz - INTERA 0730 Sufety Mtg - Carcade Prep for Safety Mtg. "Could get the box truck" KR Rigeryebush INTERA Cascade is missing a helper today. May have another later today. Discus weather, expect storm tought KR-(-) Covid, JM-did not test, forgot Kevin Rogers. Duller Careade 0740 Call wy Jue T. Jusone Moore - Cascade He cannot come out here this AM. Anthomy Meers RMS to check on Fence. Equipment Moving a head here. Forklift - rental Witch Witch Vac for daylights House 809 Indiana St-dog = "Buster Douglas" Drill Rig - Sonie - Cascall Rolloff - lines, 20 yd 3 Bx16 Obvo RMS set up tablet for core logging. Objectives. · Complete Il tele for day higher crew breaking out the cosphalt. i Prep to drell e Set up now panels Begin dally Walk around egupment, all Ok,

32 RM2 1-25-22 Tuesday 175-22 Tursday 0335 asphalt broken out 0956 Rms Call Sharwin ready to daylight. left message, Use Ditch Witch Vac request update on tence to Start daylightie. and and security. 1000 Text Sharwin, ask ilong water jet and Vacuum to make the day Eight hote. for update Status on fence and security. See photos - Fugi Camera 1024 jext buch from to 6 ft. No Visible utilities Sharwin, Expect ferree within the pour. Secunty still tomo mow) = Put as phalt chanks into RMS text for to Joe! rolloff, Then will begin to Note, Street is 30 ft wide, Set up the noise curtains 30 30 30 30 Minimum 30' on the east side of road. tenery Cas (ade will need to go to Peralta to get the hopper and more sound curtain plates, Kevin needs a fitta for 1040 Carcade back, the ditch witch to clean out the tank into the rolloff, so has to go get the part at

34 Rmg 1-25-22 Tuesday 1-25-22 Tuesday 1043 NOW Clean out the 1/215 Ferre complete. 17 × 10 panels detch witch into the Cascale signed Poll off, Valley Fencin off sets 1956 Fencing is here. Ditch Witch cleaned out, Valley Fence 505 377-1155 1227 Now cleaning the Ditch Witch hoses, Must clean before Returning 1100 Juson back to Detch Witch. 115) Still Setting up the fence. 1240 Call WI Jue T Doing an excellent job. a hatchet ... I swing in Encourage Cascade to (now.) Start deillig to day, it 1154 Jason back with part to clean out Ditch with tanks would help a lot. yes. 1247 Slidy panel to other side so slanked to p faces inward 1140 Call w, Austin re toward source of sound. doily schedule. 1 11/2 Sound -1130 Call by Lynda Price to oring comes for drivings and fence corners. 1257 Pick up another panel - Forklift 1200 Cascade crew trying to clean out the Difeh Witch tank 1309 Set panel = 12 min 1328 set panel = 29 min

1-25-22 Tuesday 1-25.22 Tuesday Panels 8'wide × 9'+2 x 1300 Test Tablet and nobile hot spot Sync, Tablet # 00977 Viscus as Reven pusto go to yard for more KMS Phone - Mobile HS. on Tablet - Tablet Visibility - on (? a few = 400 lbs each. 1310 Call Austin re hot spot. will need to test Forhlift will call me back - ok access wy rolloft on south side. Cell Phone Password! find under Enter & Mobile His. If bu 3280 Sync V Bringin the tender truck then Tower up the rig to check allymmet over the hole. Text to Austin to confirm Note-gas line is 6' from 1407 The east curb.
Install carligs at edge of 1330 4 panels set (2 new ones) ready to position the rig. Roll but the plustic, boits 1400 - Called Lynda, ready under vig and tender truck . brig conso and caution tape for diveways. 1415 Move Tendertruck onto site.

39 38 RM8 1-25.22 Tuesday Tuesday 1-25-22 1420 Lynda Price on Site See Duly I sepection form 14531 × 6" × 10 Shoe on ho 10 14561 × 6" × 10 14/32 Call from Kelsey Bick nell-1500" Spud In" Elive her Status update. Circ band to 2+ 17' - 15 Sub to bothom tible. 17 She will come to site in the moining to observe, Ok. 1438 Text update to Jue T. +10' = 27, Hen add Count Pipe re Kelsey. Safety walk a tound 8" × 10' × 16" = 160' Prosonie 50k (?) 6" 2 x 5', 2 x 2,5 sayle 2 x 10' bond. 3,5" x 10 x 30 = 300 Plat form - eyescon fact. Sufety rails Slide on the West side "Shoe" 8:5" x 4" 1520 Call Wy Austin Plan to Sync and Summarite. 5.5' KB Pack up geology station

1-25-22 Tuesday Time Joint/con Based Hole Depth.
544 1640 Close up sence. Lynda Price off site. Hole Depth. 25' 1645 Ruscade fake Ditch Witch for rental yard. 1-26-22 0930 Cleanoutrum for & lough into hopper. 1646 photo summy, text 1022 Coreup 25 - 351 35-45 1040 Core up 45-55 1157 Cire up Sync the tablet log V success 35-65 1350 Core mys 1-27-22 up 65-75 1649 RMS 29 site. 75-85 0953 (or up) (50) 85-95 1,035 core up (42) 1137 (ore up (1:02) 95 105 1315 (or up) (49) 105-115 115-125 1450 core up (46) 125-135 (70) V135-145 (80) 1615 Con up V 1-28-22 145-155 10824 con up 20925 (ore up (:01) 155-165 3/125 Loc up 165-175 4/227 (one in (:02) See P. Eg continue.

Light Snow 43 1-25-22 Tuesday 1-26-22 Wednesday 0630 To site! Strong Wind Summary 1-25,22 0650 on sile Text to Relsey Bushnell , 1+ 5 Mdg 0615 call w drutter, will , complete daylighting be late due to load, sound . Set nois control panels punch this AM. Too wordy , Set up over hole to do last night. · Complete Lener installation 0100 RMs wath around inspect · rig safety in spection , Begin Coring 25 Job Silo, Sound Panels 5 tart 0 Drill Rig Total 25 0730 Call W/ Jue 1. Tomorrow 1-26-22 drium schedule and personnel. . Set 2 more sound Secunty . - Rms (all sharming panels on west side 0752 Update text for diller, , obtain smaller forhlyt will be here about 0000, oh, , Continue coring 12ms text Sharwin re The Security,

4426.22 Wednesday 1-26.22 Wednesday 0912 now place hopper Open the site. under the deck . Will need to access from the end, not The side so will need to move 0815 Cascade Safety Mtg the tender truck to dump the propper, Not ideal but will work! Tight work area Can't acces from west side because Spotter pinch points of a "pump" attailed under the deck. Anthony Meers - new for cascade 09 LO Crew placing 4x 4x 8' INTERA Safety Mtg posts under side of plantie to Create bern under the rigg 0820 Kelsey Buchnel here as specified in work Plan, Water Huthority 0830 Setting up. The sound for the dive ways. V panel on west side of rig It are one up already. Stude it South and add one more for 17dd 8" (Sy to 20', two total. This covers the noisemaking part of the rig ad Claves access to the hopper Continucore. 1030 Kelvey Buchnell ottsite beneath the dech. 1040 Cored 25-35, 35-45, 0911 - Parel # 2 west in Stop to put up another sound place. Now moving panel intoplace.

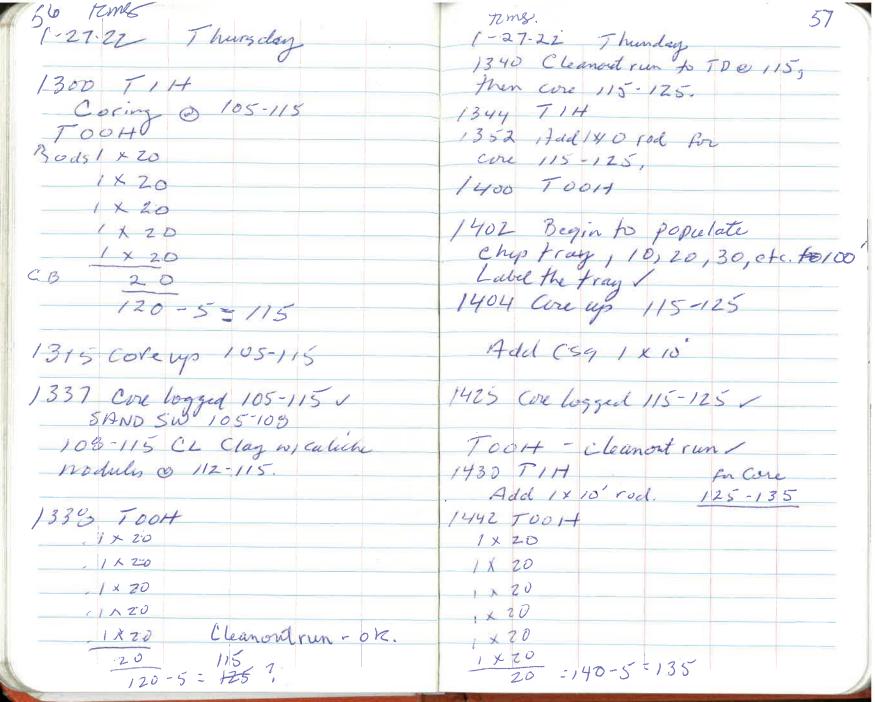
1-26-22 Wednesday 1-26-22 Wednesday 1100 Csg@ 17' = 2 × 10 - 3 = 17/ 1200 Core 45-55. log / Crew takes / unch Core to 45'. RMS continue to log on tablet Rms take lunch. in "Phog". Note cobble to 1240 Crew back. resume dully 6" dua 0 38' 1120 (sq 10 / 4 30-3 1308 Kesume Cori & 55-65' -No - was another cleanout 1129 Trip bock into hole, Csy now flush wy ground run, dump into hopper. Surface 30 (59 0 30' b95. 1326 Fluid tore burt - Set screwonplug 1/33 driving Sample 45-55. hydraula fluid. No injury: extra sound barrier is a big Use absorbant pada to Comprovement, but, I should get some shooting hearing 190 That was a "cleanout run" Clean up. Dulla was weary eye protection -This back into hole "TIH" no injury. Wiping up on deck and control panel 1339 Add 10' rod. 1145 Coring 45-55 Vibrating down, not turning Resume coring, 1150 Sample up -1330 Hustin here, 1350 Cure up 35-65 pulling rods, place in Vertual rach rods 20 + 20 = 401 Core hand 20 ft = 60 = 50

48-26-22 Wednesday Wednesday 1-2622 1430 Cascade to get part -Summary 1-26-22 Hi Safety Mtg Call we Careale - try another store, . Set gand 12 +3 on Get Kitty Litter for Spill control. west side 1435 Jul Truy on Site. 1 Continue Donin core · Hydradu Ceak through 1500 Tue offsite Valor on control panel · Spul control with ketty 1550 Hustin Offsite Liter on east side, 1615 Cuscade bach. End 65 Spread Ketty letter on Degin 23 Spill area on east side Total 40 Discus fluid on plants inside neighbors yard, Tomorrow 1-27.22 Butter up Mesite, Secre tools. · Continue Coring Core banelis in the Coring. 1637 Cascade offsite. 2ms do summany, text Sync log to cloud. Success / 1655 Rms off site pros

51 Rmg Clear 601-27-22 Thursday Cold 1-27-22 Thursday 0803 More the fender fruck. 0635 To site og dump the hopper. dump from the east side Council ksk - Crew will of the solloff. 0821 Tender trucke back take them now, OK. into yard, up to drill rig, Jason Moore is NoT Vocanoted Will resume cosing on 65 bgs. Jee covid test vesults - (-) ok Trip out of Hole TOOH Kevin photoed and emailed them to me. OK. Rods 1 x 10 0730 Talk up fostal lady -Angela-, dog y molly. (B 1 x 20 Cleanout run - to hopper Neighbor is James 70 - Stunys: 65 to to Hom of hole addiction problems, 0750 Start fender trush. Weed Cleaning out slough From below Carry - Csq @ -5545(?) to move it out to use fork left to dump the hopper. 16 sts csq to stat 0758 Start dull rig - 11 jts css on fruch. Kern says that the 5 Uts on ground = 50 (-35tk)=45 Security Companies do not want open hole = 13 ok to come to this location if not armed. That is why Sharwin s having a hard time Finding security.

52 Ring 127-22 Thunday 1-27-22 Thurday 0856 TIH, add 10 red. 0953 Careup 75.05 Tooly graded said w, clay SP-SC Core 65 75 TO04 1007 TIH For 85-95 / X Z O Had 1 x 10' rod, -/ X 20 Was a clean out run, _ 1 x 20 Stough into the hoppier. CB / X 20 80-Stk5 75V 1030 TOOH 0903 core up. 65-75 V 1 x 20 0415 Had (sq 10' = @ 57' 0940 Core 65-75 logged. CB 1 X 20 loyers of Clay and Sand, 100-5:951 CL & SP 1-2" thuk, precion Clay, Styf, dense, HCL No reaction, Caliche rodules @ 65-67, tubular, Your water over the end of the like burrows", 12" dia, up to 2" long. Core barrel so the sample bugs clost melt, 0950 TOOH Con 75-85 1035 con up 85-95 1050 Dunging the hopper. 1102 Add csq x 1x 10' = 67? 1×10 1 × 10 1 X 20 ('ore 35-95 logged. 1 x 20 76 1 × 2.0 80 $\frac{20}{90} - 5 = 85^{\circ}$

1-27-22 Thunday 1-27-22 Thursday Cast a Austin - Comments call by JT Are we on Schedule, & Cap Lean Clay cotil talk tomorow re depth, Comments Section descens Carcade mgmf, No pewds, commas Covid fest yes. Coboler Searity Water? Veydown yard. 1120 TIH 1230 Call back to Sharwn 1124 Cory 95-105 discus potential Schedule impact, MSDS - Sert Chatta. - grant? 1135 TOOH Duhe Cety. - maybe. 1137 Curup 95-105 1146 add (asm) 1×10' Core logged 95-105 3P-5C Chatter 0 105 as coring 1240 Dufferen Clean up 1159 TOOH the east side of the rig for 1 X Z O Kitt3 liter, by dranki fluid. / / ZO Tures progress is kenn. 1 X 20 New to get for 7" csq from Phone call -Texas in its way want to be mid 200 s bayend of tomornow. on



58 12mg 1.27.22 Thurday 1-27.22 Thurday T0017 for core 135-145 1450 Core up 125-1351 1 X 20 1500 Add CS9 1 X 10' /x20 1509 Core logged / 125-135 / x 20 Difficulty threading the casing. 1 N ZO Oklik threads heep trying 130 120 Work fighten, Disconnect 140-5=135 Cleanout! and lay down. Was not Csq, was an &" core barrel , 200 1554 TIH threads are different . So, were Prih up Esq 15 059, 1 × 10' mot 16. Core Call w, Austin Est 80 forward enal Could woulds to Lyndon. end MSDS to LP 12 csg x 10 = 120 D= 15, OK. Csg to open hole = 15, TOOH 1521 More tander truck to dump the hopper, 11 20 Cored 70 ft today, (so fur). 1 × 20 Sce p. 44. 1220 stopper dump, 120 1537 TIH 130 1547 100H 10m to truping 150 - 5 = 145 core, start to trop out,

60 rm 1-27-22 Thursday 1-27-22 Thunday Summary 1-27-22, Talk w/ Kevin o HES Mtg wants to least early tomarrow e Cored 65-145 I said No will meet get End 145 Start - 65 early to jet early start, Oh 1636 Core logged 135-145 · Loaded additional 8" (55 onto trailer at yerd 80 ft today (after hours) for use tomorrow. 1645 Close up sile. Tomorrow 1-28-22 · Seine hole with Cs3 and core barrel in hole Load additional &"CSq · Close rolloff. onto Tender Truck · Continue Coring 1655 Carade off site to Peralta to load 8"csg for of 7" csq early next formanow. 1700 12m Summanze. I Photo and text to Austr Week, V Sync PLog - Success 1707 RMS of sile forms

Pthy Cloudy 67-28-22 Friday 1-28-22 Friday 0730 Still warming up-Driller adding fluid to 0600 To site 0620 on site 0620 Dillers Coscade on site Start drill rig to warmup. Pipe transperis on hold. 0630H & SM+9 Cascade & TINTERIA to Tender Truck. 0758 TOOH TIH . Pull truck out 1 X Z O . use spoter 1X ZU XZU , watch for pedestrians 1 X ZO 1 X 200 · Pay a Hention / Friday 1 X 20 1 X 2U 1 X 20 Work at the speed of Sufety 1 X ZV / X 20 1 x 20 0700 Move tender truck 1 × 10 1 20 Out of site to street to load 8" casay from traile. 130 20 20 -5=155 Core fun 150-5=145 Cleanout See pipe on + railer. 0812 ready to are 145-155 15 x 8" x 10' but Some are 8" core (3?). 0320 TOOH with core. 0713 Still warming up the trude and the fork lift!

1-28-22 Friday 64 28-22 Friday 0920 Toot with core 145755. 0916 TOOH 0925 Core up 155-165 See p. 41 for list of core Add Csq 8" x 10' x 1 = 150 0824 Cre up. This is the last out of csg on 46 Add CSJ 8" x 10' x 1, The tendent such, so now will 0841 core logged 145-155. + ranger the other (59 from the 0849 ow cleanout run. frailer on to the truck. Also 7'00H for cleanout will dump the hopper 7 x 20 = 140 1 x 20 = 20 160 - 5 = 155 cleanout / Logiore as SW, well guided 0353 Cleanout into hopper V SAND with gravel, Cravel was what casused the Chatter 0904 Coring 155-165 and slow corry, or Very strong chatter @ a 155 - probamother Calche layer, -NO - Not calian 0947 Observe pyse transfer. 1025 Pype is looded .V Vi biatiz and turning best Dump the hopper. very slowly, 1030 Replace backunder the deck. Slow penetration. more fruch back to the ~ 1551-160 Calille or cobbles, then - tester, softer, then rig and resume coring. Note: 12 ×10'Csg. chatta & 1/60. on truck. In how! 150 Slow to cut 10'. 8915 Still cutting 155-165, new 120 270'

66 1-28-22 Friday 1-25-22 Friday 1037 TIH 1200 TIH to core 175-195 1210 Coving 0 175-195 1050 Jue I, here Strong Chatter e 175-180 Will Consider, Sunty of trois. 1215 Took -No, ream, 1059 Cleanout Completer 5+111 chatter, 6 1/80 1217 Toolt 1 x 10 10 1114 Coriz. 100H 8 x 20 160 1115 STOffsete. 1 × 20 20 8 x 20 = 160 1 X 20 = +50 20 1227 Cire up 175-105 180 = 175/ 1249 Core logged. SP !SW 41 grand. TIIt for clean up. 1/32 Itald (59 1x10) 1254 call home S. 150 + 10 = 160 (-5th) "AOP" (pt Logan 1148 Cleaning out to 175 Core logged 165-175 V Gil Chavet-owner Sf and SW + CL, in hourly reports 5 layers. TOOH 8x20 = 160 Constituios a patrol 1 × 20 - 20 RM3 Call Jue T.V 131) (ull Sharwm, text Sharwin N Cleanout to = 175 V

68 1.28.22 Friday from p. 41

From p. 41 1320 Cory 185-195 Very stow cornig. Chaten @ 190 + 175-185 1227 185-1983 1332 TOOH (9x20)+(1x20)-5 1342 Con up =195 (5) 1345 (1:03) (6) 1511 193 - 205 will puch up 193.195 on next run. I'm got very had at 193. Duller will run carry & x 10 1-31-22 205-215 1411 Cleanout run, 185-193. 0900 1134 -No Core 215-225 Empty 1422 Update call to Jet West. u geophymal logging. 2-1-22 Tuesday 1039 215-225 v (missig 220-225) - fellowt Talked w, Mike, he good let Mich Know. 1429 TOOH for Cleanout. 215-220 SW w gravel Assume 220+225=AsAbove 1430 Clean out. to 193. N 1434 TIH to core Change Sample intered to end on [7] Add 10' = 210 (-5)=205 1444 Begin Cory 193-205 90 to p. 97 Very Stow, Chatter @ 193 Now Slow, Steady ~ zoo - +

10 1-28-22 Friday 1-28-22 Friday 1600 Cascade off sete 1450 (all w) Austin. RMS continue to log has for sample bother. grab 2 x 40ml VOA Closeup site, pack up geo gear, Lock cable, lock outhouse, 1500 TOOH W/ Core. 1511 Core up RIMS log core - Note: duller added water so bottom core wet. Cascade Secure the site, place forhlipt within the fence. Core band is in casing Casing Shick up to about 5' so hole is seeme, 1530 Call W/ Sharwon: Schooly is for! I Tornght Patrool 9, 12, 3 Sat Tomorrow 3 hm Sark Stat Night Patrol Sun Patrol Sin N+ Patrol Monday - will Change to only mts and weekends Sharwin will revise contract.

2 1-28-22 Friday 1-28-22 Friday Summary 1-28-22 Photo notes Sumary . H 95 Mtg . Transfer 12 its of Sync PLog-8" csq from trailer to Tender Truck · Core and log "Connession is unanthoused. End 205 your passod may have changed Start 145 Try logging out ad Total 60' · Secure site for weckens · Hole is Secure Austin Login · Foskeritt inside fence UN A Hanson PW d_a3?J , Fence is bolted closed . A OP Security is indiscore Scheduled for patrol Through the Weekend Out look - emal Noxt Week Att will reset My password & PLOG Monday 1-31-22 " I senglowood · Continue Coring · See email UN Rob Sengebush PW Ug) aa D 1640 and logging 1638 Success PMS of site

74 Rm8 Clear · RMy Monday 75 1-31-22 Monday 1-31-22 30°F 26°F Core @ 205 0610 To site 0630 on site Carcade is short one helper until later today. Prep for Safety Mtg 2 Winter Storm comy (ater in The Week, so get prepared See AOD Secunty Says tach to Supervior Says all went well on the patrols with warm clothes. 0730 Begin work. Objective over the weekend. Core Data Crap Well 0645 Walk around site , Replace traction fleg. Looks like thre was wand over the Personnel weckend. Kevin Rogers Jason Moore Cascade Unlock Carbles on Fence, Open fence, unlock Carcade Portolet. Rob Sengabush INTERN 0705 Cascade on rule. Cascade V 111-92 - grupment Drill Rig Some INSEPTIT. I Ender Truck Mack Forhlift Utility trules - Por extra casing

76 1-31-22 Monday 1-31-22 Monday 1006 TIH 0744 Warmey up the 1014 on botton 8 min Tryp. drill rig and fender touch. Note: Course gravel = will continu cory @ 205'. Coane (3) 3/4 Fine < 34" More forklyf v No Medium 1 Note - INTERA Should 1015 Chatter and grind -cleanout to 215, ? put be charged for only one helper. (2 helpe here ot 0825 Layout more plantie See lithlog for KAFB 106206 (in 2012), waln co 475 bgs forcorease adjust angle of Core seeds and tuble. Set up geostation. Today as ~ 200' - 200 Alssume 60'/day 275 to water 4 x 60 = 240 + 1 x 30 = 270 0826 TIH. 0534 Clean out run. ~ 4.5 days = Friday mid-day, 6 900 Core by, to 213 assuming continuous work days -"Load Csg 205-215. Note, expect snow on Wednesday and Thurday, could . Dump the hopper. 1030 Toot 0954 More Tender back toring, "diapors", heave in place. Cleanout run. 1040 TIH for core, 215-225

18 1-31-22 · Rmg Monday Monday 1-31-22 1151 Anthony Meers back 1 × 10 - 10 on site (from airport). 10x 20 200 1152 Cutty core (again), 1 x 20 20 230 - 5 = ZZ5 Prope to keep it in the 1054 Corin. 215-225, Core barrel during the trip out. Corang Slowly - Slow penetrator 1155 Major Chatter @ 220. Pene Fraty Slowly and slow rotation. 1158 Stop sig - Something is up 11, Chatter @ 218-220+ 11/3 Core cut. = 19 min TOOK phone break driller Oscillation gauge on punel is full of hydraula fluid - so a 1118 Koodrunner Sighting. 1131 Driller says helper I me or membrane tuiled, will 1134 Core up 215 225 need to fix the line and get a replacement gauge, Look Core barrel is EMPTY for sauze on Tender truck but turnest of not on this truck, was very kard ren, Chatter (gravel?) o ~2/8, ad expects of to be on the Box Truck had pack below that. That is undergon repairs Core catcher: Druler 1209 Cascade of site. has another type of bet that 1218 Call Joe T. might hold he Sample better. discus full live - lost core -1141 Change to other Shoel but dies box truck w/ Joe-7 1 H to catch sample 215-225 Should talk with Sharwing 1236 END call

80 1-31-22 Monday)=31-22 Morday un 81 1251 Cascade back, 1316 Drules will call around to try to tand the correct 1311 Rms Collect bulk gange to replace on panel, Samples from Core in 2 40 lock No, shill onsite, making Plusti bags. Every 10' 0-200. 1328 Driller well cap the Note Cithology Charge for I'm and keep drilly, yes, VF sand and lean clay to Spart Sw, very wore, no clay W/ Some grand a Note, The loose Sand has no ItCL reaction; 1333 Line Cappel Resume drilling - ready to Tooth with Whera; the surd/sult/chan has of the core borrel 1134. Seep. 78. Strong HeL narton, Could be the Alluna / SF groups Contact approx [160] 695, 1336 - Forklift to mor water toke from east side of site. 1324 From "Tech Memo" Nov 19,2021 of the Sanata Fc Groups Ancestral Ristrande axial fluxal Sediments Predmont Slope deposits up to 200' Thick, undelan by Scina Ladwins

82 75mg 1-31-22 Monday w 2 83 1-31.22 Monday 1348 See log for well 206 project up date and to reach out on hantucky St, one block east. Contact from fredmont Slope deposits to Sierra Ladrones Fm of he santafe Group is 1433 Note: per the Tech Mino, at 160 -170, Note, no The Diedmint - Slope deposits Come recovery 160-170'. Also, are considered part of the Change from 542 (above) to Siena Ludrones Fmg of the SFG. 10 YR (below) from Pedmost Stope to In Suna Ladronco FM (SLF). 1441 Cascade back. (45 min) HCL reaction is not noted in the from Auto Parts store I haw logs, but in MWOI, the to drill ing. Predmo & Stope deposits of Sard, self, Eldy are have strong HCL reaction, Whereas fre Diena 1455 Anthon to 5 fore for piston part. Ludiones Fm of the SF group has Non Weak reaction. typually no reaction. 1542 Careade back with part. U-1345 1353 DM/2 is Stoppedagame for one guyes Duller at truck making grave presine gange Need > 2400 psi for another Call, 1356 Driller has to get growse for poston DAPA. greens preme - per for preme.

841-37-22 Monday 1-31-22 Monday 1544 greanto fitting 1 Summary 1-31-22 Keplans prennigange, 1555 Start rig See of the " H\$ 5 Mtg " Core 205-215 gauge holds pressur, · Lug 205-215 End 215 Vibratiz down very slowly. Start 205 Trying to catch the core the fell out this morning 215-225, Mechanical 155 ues Chatter & 2218. flud leak 1608 +1x10' continue Vibrating barely turning. · Grease piston gauge 1619 (-) 12/0' to hold pressure 12400 psi 1631 See core barrel · Cut coic 2/5-225 but no recovery. Change to auger showbit, Hope for sample ... but Still no recovery. 1 x 10 10 , Collect bag samples 10 × 20 200 every 10 ft from core Csg 0197 Tomorrow 2-1-22. Continu Coring No Core retained. · continu wagging Duan all m driller. Options for tomorrow. Addwater, love casino

2-1-22 Tuesday ~ 330 87 36 RMS 1-31-22 Monday Storm later 1705 Cascade off Site 0605 to site RMS: Vi Sumary Vict to Alt Vi Sync PLOG - Success prep It &S Todo oResume coring 1721 Site is secure. 1 Call @ 0300 , log core in plug on tablet RMS off site. 0640 Walk around Site, 1728 AOP Scienty "James"
on Site 6-6
pm Am
Sce photo. All is well, Vunlock cables on fence and outhouse. 0650 Call From Drester will be a liffly late. Says he will try the flapper but to retain the sample, per adone from another drille with experience here, 0710 Safety Mtg TNIERA Cascoder Keise Cold weather Coming - get hard and foot warmers.

BB RMG Tuesday 2-1-22 · Tuesday 2-1-22 on core barrel.) Add csg 1 × 10' 0719 Now turklift out Of yard, Dulle will intall the new gauges on Control panel Call WI JOET, JUECT. · no core recovery 215-225 See Flupper Out - photos, a flapper bit 1 1 1 9" , use water? · Sample gap (as an 206) · axial & hural \$160 with loose sand grail Jue 9 - Flapper bit Consens for recovery. Adding water. Coheser, 0740 Rig warmy up. More impt in the sal Zone, Talk wi driller, gauges imtalled. No water unless for other meturds dort work. (2m5 call @ 0800.) Hulli manager to core next wal, Drilly full manager may Yes, very Supported of fist, Come to site next week. Some is supmond to get good 0750 refuely complete. 10835 en cal 2 v

902-1-22 Tuesday Tursday 2-1-22 0940 TOOH 0835 Cong 215-225 This may be a cleanout run that was fell out yes kidey, to Collect the material in hole using the flapper bit: count by intally fre cases. 0844 Tooth (20) We will see, Evenas a cleanout, 0848 Stop The trup Continue Toots. it will be a good test of the flapper bit, 0900 Cure band up -10 ds 10 x 20 200 Eureb 1 x 20 dunp to hopper. Cleanup 220-55th = 215 From 203-213, 0910 push CS 1 X10 0954 (creband was full, [197 -> 207] (seep. 84) dumped to hopper, were Cleanent (sq going down Ok, 5thup 2 2 0916 T 1 tt 0 926 (10 min) begin " cutty " core to 215, but, was very hard on hery, according to the driller. He wants to go back to the open shoe but, Out not vibe to brig it up. with the flappa bit. Vibration and Chatter, I his will be fre loosemakent moring clown slowly. from 215-225 that fell out very story with only 50hm Vibration, no retation yesterday. It it does not work, from back to the flapper Some chatter, bit. 12 ms suggest try Happa, 0940 cure down (14 min) but KR wants Logo back both bit.

2-1-22 Tuisday 2-1-22 Junday 0957 TIH 1025 TOOH Hope Sample 1004 Rms call Sharwin Still in the cor barrely 10 Box Frech - Chif can ded withit. Rotate back down heavy chatter. Vile down 1027 bump up without side -16 Securty contract Study rotate, free, ad Cost to Just PM TOOH hoping for sample. 10 Drilly manager to Site vert week, Cliff Hillman phone is off and her mailly is full! 1039 Con up.,, No core Collect in 5, lover 5' of core fell back into 1 × 10' rod for 215-225 Duller add C59 1×10 1020 Cutty core - Slowly, 207+ 10 = 217 (?), 225 will clear out hole to 225215 Chatker, Slow Potation Using the open Shoe bit, with a clean out very get back to new formation at A lot of Chatter @ 225, 1023 Kelly down ~ 225 and try to cut a new cure. pull up - try to pull up 725-235, OK, without vio, but wont TLMS log cire as 215-225 come up. - Now up. Noid Slight Vibe and Note! CS9 0 227 bump up,

94 RM4 Rmg Turday 2-1-22 Tuesday 5-1-55 "State Investigator"
Depty Workforce Solutions 1137 Cleanout to 225. major chatter, add intropin 1156 TOOH 1207 Core barrel up (11min) Ashiz about prevaly dump to hopper. wager. Used flapper bit to Clean Referred him to Joe Tracy.
Theatened to shot
down the job. out to 225. full Core Canel. Note, was already loose material, but still was able to obtain 10 of Text JoeT u Janed Sunpa. Dunp to hopper. Bryant. Cascade take Timeh, Will resume @ 225 with Augu bit! 1126 TIH for cleanout to 225. Try augen bit Kevin Called Sharum Chech pipe on Landa Truck; Csf 4x10'x 3" re the 5 tate Investigator Rods 10 x 10' x 3" and prevailing wages. left meriage her mailbord Csq drive to 227 created loose material to cleanout.

96 Rms Tuesday 97 2.1.22 Tuesday 1400 Log core 225-237. 1255 Call W/ Austin V Note Contact with Sand/gravel 131 Ready to Core to sandy clay @ 227. 225-235, Basal gravel with clarts to 2", Vilhating lown slowly, heavy buselt, very dense, tr. olivine. Chatter @ 230235. 227 0000 1330 (15 min) lyty SW wi gravel avoid vitore coming up, Contact buch down, lifting up CL Silty Clay 1333 Note: Adjust Samply interal to "75", i.e. 225 - 237. UnTle thinks hale is Staying 1428 Coring 237-247 - Nochatter, open better, (with caring 227), 1334 TOOH core barrel. moderate cha Ha @ 245. 247. Back in Sand and gravel? Pull up eary. 1345 Lore up - Sample: Yes! TOOH 1×10' 1353 Full core-yes. Add CS\$ 1×10 = 237 1440 Relsig Buknel on site 1446 Core up. - No, to hopper. 1410 TIH For next sample (?) or deeded to make it a clean out run. Sample staged in the hole. Cleanant from adding csq. Will trys with flapper to rewer I cocin with driller. Go for sample and use bottom 10', 237-2147. 237-247. Disend slough above.

12mg RM3798 99 99 Tundan 2-1-22 Tuesday From P.69 Time Therday Internal CS9 1345 225-2371 - 1 1527 (1:48) 237-2471 2371 1500 Cary 237-247 using flapper but to revover 237-247 That tell out on the last run. $1/ \times 10 = 10$ $1/ \times 20 = 220$ Heavy Chatter @ 240+ 1 × 20 20 1509 JOOH 250-5=245(247) 1519 Core up (10 min 7527 cut 2-1-22 * 247-257 Log Core. 237-247 1835 17 dd Csg 1x10' 1540 237-247 hogged Still atorney Vibing 2-2-22 Wednesday 0845 core up 247-257 (10') casing to 247, 1543 Carry down, 5th n 3. Cliff 1350 core up 257-270 / (131) Note: 2×10 (sq remain on Cliff/430 Core my 270-279 (91) (40m) Cht 1540 con up 279-235 (6') Tender truck. det 1638 weig 285.296 (11) 1551 Kelsey Buchnel off sile. 2-3-22, Thursday 1540 (one up 296-305 (9') from & Course from adding casing. 1645 (areign 305-318312 (71) 2-4-22 Friday 0910 core up 312-317 1/29 core up 317-325 (5') (8') 90 to page 121

98/00 Junday 2-1-22 Tuesday 10/99 Summary 2-1-22 1607 TOOH 1617 Contine TOOM. 1623 TIH? yes, e H & S m f3 , Core and log (log 30 ft) already dumped to the hopper for clean out . Trip back End 257 Start 215 in for sample (247-257.) 1633 Coring @ 247 Total 42 , Hosted Kelsey Buknell prajor Chatte @ 247, 1 See gravel in bottom of previous core). . Pick up more &" csq Chatter of n 2 52. at Peralta yard (after hours) 16 38 Still cooring, Reaming a bit Tomorrow 2-2-22 1643 helly Down - pullup, Try out. · Continu coring, goal 300' 1650 End forday. Samplin Core Jonos Core Vand, · boad cs g . . . obtain additional pull Same 247-257, rods and 7" (59 to · pub up esq to AM. tonget telescope hole after 300. for tomorrow. 4 more + 2 . Expect possible weather delay = 6 = 310 total. . rods and 7" tomomos af tenson. 1700 Cascade of sito. RMS Vo Setue Etto V. Surary Ve Text Je Sync - Survey

100 rmg 2-1-22 Tuesday 2-2-22 Wednesday 1730 Call wy Sharwin 0830 Temperature at site = 32° F. · Jophis covered. Carcade try out of hole (TOOIT) with con 247-257, 1741 72MS Off side Cut yesterday. Expect 12 x 20 240 32°F 2-2-22 Wednesday 1 x 20 20 Snow 260-5=255 wind (257) 0605 To site 0845 Core up 247-251 0625 On site Walkarund-V Add Csg 1x10' 0700 Cascade on site 0908 Log complete! 0705 Sufetymta Lay out on table previous 30 · Snow & (cy, cold, wind. of samples for context. · Shish roads commity. · take break to warm in truck 0915 Call w/ Joe T-, get warm gear tought all line item, 0723 Start rig and fender Truch. 0725 Ful the dry rig · Workforse Solutions 0730 RMS to store to get JT will document salt for the dech of the funda WIN Call 0827 Back to site with salt for frush down

102 RM8 2-2-22 Wednesday 103 1005 gettig windfor, 5 nowing 30° Wednesday, 2-2-22 0920 driller will cut Tripping in for sample 257-267. Sumple without separate 1014 Coringrow Clean out run, X ft of 1030 28°, wind , 20 mph. Slough, will not be collected. Tripout paux, repairing The carry crane on the 0935 email Austin tender track drill head. to reine Summary from I ason out of truck, Anthony yesterday. In truck to warm up. wind coming up, light snow? 1040 Bolt on the head on the rig Sheard off. Duller will take early funch to get a 10950 (all "505" for outhouse service. left mesage. tool to remette bolt (fap) ad also other bolts that are new and good questy to replace fre other bolts. 1000 Talk WI doller, Tryped 5/11/ 5 Nowing moderate heavy out but only had the slough, with wing, 28 F. no fresh lave with so that was a Cleanout runs How, Call w/ Austin. He will rame the sunary with Visit from Kelvey yesterday. well go back in w/ auger bit to cut the new Sample 251-26% 1130 Weather Cleany slighty, Cen Love Juson Moore han cold feet, will sit in Cascade truck to warm up.

2-2-22 Wednesday 10347 1.04 pmg 2-2-22 Wednesday 1250 NO Sample in Core barrel. 1210 Call in Austin Change to another but. · dixus water in Core barrel Open tack but built up · disun Sequency of fence on OD, Should allow it left at end of project, pick up up without the Vibe. Chiff. totes by ABS, etc. brought the bit and will try it. 1210 Cascade back w/ parts Change the perton gauge. Had (1.5 hr) wel / wich, 1217 Bolt replaced, Su on the head. Drian with 1309 TIH with new but " Sample is now loose in The hole 257-267. 1220 Weather moring in again. 1320 Add 1×10', Kelly Down. Resure dully ops, cong 257-267. 1225 Cliff Hilman, Cascade here for dilhi ops supports Angela will make hot coffice for the disc crew, 1243 Struggling to pill up 1323 drilly over the loon are in the hole. Will try to Chill Hil man now operaty Vetum in core barrel to 1327 Add 1X10 rod fre rig.
TOOH. 10 270 12x20 240 Try to get some fresh sample in the care burnel. to 222, 2 10 1334 TOOH - hope for sample.

265, 5 2-55 2-2-22 Wednesday "1948 059 from Luala, Wednesday 1340 Talk w dnelles, Log core in fruit, Too cold Added the 10' rod to and showing for fablet outside. Sumple an additional 3 ft See Samples on Fable. on this rung to get furk (See f. 99 for core record) Sungle in the barul ad to 1456 Core logged 270-2791 enlarge the hole diameter with 1500 casing x 4 loaded onto trever but, The enlargement tender truck More truck Should allow the drill string back into the yard. Contine to come up without needed 1345 Neighbor Lovetta absolved . 1503 Clift fun drilly back over a road closure sign blew down to Kevin. Spot tender RMS Stand it back up 1350 Core up 257-270 / Truck back into the yard. Note; the "built-up" but seems to be horting, Open face 1403 Buch on bottom for with ridges welded onto the sides. Clean out or sample. 0 270 14/2 Cutting sample now 270-280 increases fre 1420 28, 15-20 mph wind, deameter slightly light snow.
1422 100H So it releases after Corize 1430 con up. 270 = 279 RMS logging core. Add 1×10 059

108 2-2-22 Wednesday 2-2-22 Wednesday 1506 add 1 × 10 cod, for 1606 cofing now [25° E] next core @ 279-289 285 1618 still coving 1620 Took arend 10-20 mych Cliff opening again for core run. Chatter and grund @ 279 " 1628 Talk wi Kevini 1525 TOOH · Boxtruck to morrow. a cliff will be here for the Though 1540 (very 279-285 (6') Add CSS 1×10' e Tomorow need to load 7" (55 to continue below 300'. 1553 Core logged 279-285/ · Stilltighty the Sample - Core -SP, (Well sorted) poorly gradel, no gravel, very soft and loose. · The brult-up but want work in the 7" Csg. · Prepare for even colder temps tomorrows To /H for next sample or , Kevin to take helpers to get cold weather gear tomight, Cleanout. Cly does not Cleanout as ken does. 1638 Coeup 285-796 (11') 1650 Add CSS 1×10 The slough comer up or the top of the core and is duranded to the hopper daller hurous Snown hard. how much wom slough (in feet) band on depth when on bottom 1705 Snowy had. 24°F. For example, if bottom of core war 285, then added cog cranting 1710 Cuscade of rite slonge, then depth may be 283 When bork on bottom, so Their 2 ft of slough If we is 283-295 them surpress 285-295, dimp top 28t.

2-2-22 Wodnesday 2-2-22 Wednesday 1730 - Photo Sumary Summary 2-2-22 ve Text to Austin Le dynie plag + 45 m tg . Core and Log I seeme site ~ Lahsare froten End 296 Stant 257 Total 39 1731 Tems off site · Cliff Hillman, drillig manager, on site, dilled/cored 39 ft. · Heavy Snow at end of day " Cascade pick up 7." casing at yard tonight Jomorra 2-3-22 . Continue coring and logging . Change to box truck a Continue Support from drillig manager

112 2 3 22 Thunday 10° F 2-3-22 Thursday 1030 Sweep Snow from walhauss ~ 0 800 Call w/ Joe 1 on site , Sweep Sidewalk. 1045 call as Hustin Hanson. Notify Team when starty work or update by 10, or. Calculate est. DIW @ 460, based on with on ken tucky St, 5 now overnight. Cold, <10°F. Roads closed or icy. Est tag water late next week, Push Ahead Samples. 1003 on site. Roads are Snow packed, traffic moving 140/5 = 28 ft/purhahead 1 486 2 516 Currently @ -300H 3 544 [160/50 Call from Krein Rogers, Cascade (Assum 50/d) = 3-4 days. Box fruch y enroute to 9 3/2 The Peralta Coscade yard, Wednesday next week. 5. 600 Crew will load pipe into That fruck then drive to the job site . Will update 1130 Text to Keven for update. when learn the yards 1210 Call Kern for Status. ETA 1:00 PM. OK 1213 Text to JoeT. update. 1010 Text update to Joe T. 1020 Emil apparte to Joe 1. 1304 Caradeon site 1030 Walk around site. 1325 photo of Tinh csg in Frech. Count 35 x 7" × 10' = 350"

1H 2-3-22. 2-3.22 Thurday Thurday 1340 Start drill rig 1554 12MS log core 296-305 TIM Add 10 rod 1613 coring? 305-315 (312) Very cold 11. . Cliff Hillman Soft, maybe cleanout. , Jason Moore Add 10' rod . Anthony Meers 1626 Core is Cut 1353 Keven here with Frailer, TOOH count pyse and forhlift key! 1405 Box truck into place. (Fits 15 x 20 = 300 1420 Full the drill rig. $1 \times 20 = \frac{20}{320 - 5} = 315$ 1454 Safety Mtg and Sign in for Cliff Hillman. · 1645 Core up 305 - 312 Drown duty Porsulate chystray to 310 WAI Collect 2 more cour 1655 core logged. before switch to the 7, m (5), · Very cold , Csg curetty at 298 H 1500 TIH for Core @ 296-306 1700 pipe in the hole, ready to cire in the AM. 15/5 Cutting cone. · Seure to site 1530 TOOH W/ core 1. 1 ochs on cable are froten of the last cod. [296-305] 1720 carcade of side 1553 Add Csg 1. x10 x 8" · Photo Summary 298+10= 308 . Text Austin 1730 Runs Offsite - Success

Cold 17 116 2-3-22 Thursday 2-4-22 Friday 10°K 0600 To Sile Summary 2-3-22 0620 on site Cuscade is on site, surly, Load casing (7") 35x10 to make up time for leaving early this afternoon, to catch on to Box Touch at flights: Peralta yard " Move box truck onto 14 45 MARS Site a Corc and Log FNITFIRA 5nd 312 Cascade · cold Sturt 296 · handplaceret Total 16 , spot the forblyt Tomorrow 2-4-22 · dung for hopper · Core 0-300 to rollot Today - dumptracore , Continue Coring and Logging . Install 7" csq . dung fre hopper , contractore - Nexy Woch - water @ 460 below 308' · Saple 1 5 water · Push aheads below that 45 hobis

RM 110 2-4-22 Friday Friday 2-4-22 0705 Rigs warmy up. water leak @ 808 - Flowing this RMS collect buth samples every 10 ft from 210.310. Justin Britelle, AM. Water By Whorty fixed water than leah at 17m3 salt the sidewalk next Fred the risk on site.
Find Collecting bulk samples i house & 808 Indiana, home owner Angela. 0910 Core up 312-317 He hopper under the deck. Crew dump the hopper - Soil is frozen solid in the hopper - wont dung, Need to break it up. 0935 Start forum the 7"css A Hack shoe onto end of the 7" for driving. 0000 Crew dump core into hoppier and then to rolloff, 0836 Finshed dumping care into 0952, Corelogged, SW wgravel folloff. More beg truk back into place. Hoppins back under TO 2.5 inches weatherd Vasalt ad quartete. 0837 begin core 312 - 3.17 TIH WI 7" CSG, doon to TD@ 317 = ~ 31 \$ 10. 1005 Crew thawing electrical 0856 TOOH Caber at exhaust from drill J T off site rug, stopped instally csq?

20 2-4-22 Friday 2-4-22 Friday 1010 Resume 7" (591 from P. 99 1030 still on fally cashe. 1048 CSg installed, Time Friday (conta) Depth JIH we band of rodo 1400 1516 329-340 (11) to get next sample. 1057 begin to core 317-110 TOOH monday. 2-7-22 1/26 Call for outhour service. 340-345 (5) 5 //38 was cleaned on Sunday, Ok, 16.5 1239 345-356-5(115) Stay on 7-day schedule. 22.5 1442 356.5 - 362% 362,5-7 367 (4,5) Paty and Bennie (dog) wasking 27 1550 32 1641 (59347) 367- 372(5') around the neighborhood. Sidewalls are Slick. 2 - 8 · 22 Circup 317 - 325/8' Time Depth In know Longh CS9 1150 put the "wedding brand" KR 0926 372-375 3 onto me B" esq at frantion KR 1025 (59) 375 - 386 11 from the 8" to 7" (sg so the 377 KR 1740 (1115) 386 - 395 387 7" does not chase the hole KR 1358 395-405 10 397 1151 T1H KR303/515 (1:17) 405 -412,5 7,5 1210 Corin 325 KIL 1685 412,5-417 4,5 1215 Arm Wahi (INTERA) 90 to p on sites

22 2-4-22 Friday 2.4.27 Friday The build up britt did NOT 1220 Securty office checking in fit down the cary. Switched to the other Oct. Had report that security was not herat 6 last night. 1334 Vibing over the sample lost He will ask for Office, 1232 Still corig. 325-33/2.5. Try to capture It in the core barrel. 1240 Cliff and Anthony 1340 Kot at my up to rewar core leavy to drive home without Vibratio, to texas, Cliff will be 1343 TOOH, unstack. back next week. Anthony 1400 Core up 325-329 (4') will not be back next week. 4 ft recovered bottom & 6 fell out of we barrel. C54 327 16 × 20 320 1 2 20 340 (ored to 332 but 3 ft 340-5=335 fell out 325-332,5 -No Recovery Cascade helper Jason Moore 1302 Core up - All Fell Out Switch to "build up" is feeling sich - from lunch . Threw up, and might outhouse. bit, need to check of it will fit in the 7 4 csq 1 1311 Jest the list in the 7". Foot 1415 TIH /No, will add csq. Try to compact, Add 1 x 10'7" 1315 Talk W/ neighbor Angela, 1425 Con logged (4') 325-329V She thinks I've vibration from 1425 Aaron Wahi offsite. The dull my council her water lines to break "Ke forced her the MA.

Zmg 125 Friday 124 2-4-22 Friday 2-4-20 V & Sewe the site 1430 TIH 1440 Coring now 329-V. Phohograph 312-340 Sumples on table, SW Wy Note: Truck 1560/30 = 952/d Entryis grund ad Cobbles. 1610 Cascade off site. 325/7 = 546.42/d Total \$ 2595.12 6 weeks Vo Summary = 42 days 2595/42= v. Photo Ave 61,78/d. Va Text to Aughin V. Synclog - Success V 1450 Toott with core? 1516 Core up 329-340 / SW w/ grand & cobbles, 152011H, 1530 in hole. 1540 Cascade crew finds forday, to make to flight Log core 329-340 340 312 28

PM8 2-7-22 Monday 22° + 27. 7.6 2.4.22 Friday 0620 To site Summary 2-4-22 06 40 on site call from Cascade driller, loading End 340 casing at yard. Start 312 Prip H&S forms Total 28 2 Trip in 7" csg to 320 · Secure Site For weekend 0700 Walk around site inspection, - all Ok L. Dispose core 0 - 300' in Note: ADP Security vehicle rolloff Wext Week 2-7-22 is parked near site but noone is in it. · Continue Coring and logging Sunday AM (yesterday) the Enterprise rental truck had 1645 tems off site. a dead battery. I under buttery Charges overnight and the frech started this AM, got to site. I requisted Maggie Scott to obfain another rental truck so I can swap this one out. Strong smell of sulfur now in this Vehicle.

Ring 12 mg 2-7-22 Monday 129 2.7.22 Monday 0730 Carcade on site. O 0730 H & S m tg Box truck battery is Cs 60327 1464 e 340 dead! Cascade borrow Rms for fork lift, · Bulky clothing -Icdures movement and peripheral Vision. See cs; 7" on track = . Driller best keys in Texas 11 × 10' × 7" - 110' So had to break into 0825 Bextruck Startel. Cariadet Ind at the airport. Kevin sup the 19 notion sworth 0750 Start druling and is defective, says he wiggled Got fruch to warm up. if and Ire truik started ,,, Cuscade crew is short harded add 1x10'rd of only Keven Rogas are Jason Moore, Clott Hillman ad 0345 Call w Jue Tue Anthony Meers are trucky by vehicle back from Jexas wate leap. Discuss all. Sel 58 expect to be here mid Jems notes on po 126. day today. (all w/ Maggin -All rods are in the broke, will begin by corig 340 - 350 +. She will Text with plan to swap rental frack. 0934 Kelly Down -

7-7-22 Monday 13, 130 2-7-22 Monday 1030 Cascade Crew trying to get water from their water. 0939 TOO14 fore on traile. How of is filled = 10 / × 10 16 X ZO = 320 Instally casty 1×10 to 337. 1 X Z O - 20 Core bane = 21' + 1 Took 37 min to get the Durens with driller: 351-3=348 · water to help with the casing. Stickup = 3' (not 6') 1053 TIH 1105 Coring again to get the When he runs all the way Sample that fell out. 340-348 down , Ok so calculation & Grinding and chaftering on Total + Rods + Coreband (21) The Course go avel and cobbles. Vibring down. 1115 Toott 1138 Courp. / 340-345 Endron \$ 8 Endrom 1000 Core up-Care banel is Empty, all RMS loggistore. SPW/Tr gravel. State, white chalcedony. will add 1×10 (39) Vibra dolon slowely (55to 327+10 = 337Driller expects this ha 1130 Text from Maggie - new help retain the sample. Oh. untal is available at lomes Endorpriso 1 9433 Lomas

132 2-7-22 Monday 2-7-22 Monday 1270 Core is Cut. 1355 Set up Bleedooth in rental. 1212 pulling up now. 10's then brock down wy Vibe 1357 Now TIH. RMS log core from before wuch. 1223 TOOK Hoping for Sample. 345-356.5 Vloggedv · (hatter, w) rotation. Note i Continu bulk sampling @ 320' RMS Call AOP Scenify A Down /2 way, try to pull up, /down, have then more Their ichieles up / down, & tuk, to tate, OK. V TOO Conjested where pull up, it is, more further south when 1423 TOOH 1425 Pipe is free Took

1 × 10' = 10

17 × 2 5 = 340

1442 Con 40.

356.5-362 71 - 3 = 368 (?)

1458 356.5-362 71 - 3 = 362.5 not below being used. 239 Core band rep 3 45-356 345 - 356,5 but, musery 345-350, (5'1) Cegrat 337 + 10 = 347 1chamid 350-356,5 1500 Disan interals up kevin. 1247 PM S to sental, Wisconsin Wasa gap 350-356.5; two Cuscade take lund. RG4066. was lost, but bag was labled. Shottled has been labled 3 45-350 1330 Back to seto, Lundy This was returned. But in again to try to get 350-356 5; go + it, Cuscado resumes, JIH & but lost it out of bance, could not 1365 - NOTTIH?

1342-7-22 mg Monday 1545 2-7-22 Monday 135 1530 Core up 362,5 - 367 (4.5) so scarced the bottom of that run Retains 356,5-362,5 (6') Gap is 350-356 assume 72ms log core 7/14 Same lithology & SW witrigrand.
Contine 12 rss log 356 362.5 (6') 1606 [Core 367 - 372 (5')] 1613 Core logged 362.5-367 ~ includes 9 news w/ sulfiles. 1507 RMS 607 core 356,5-362.5 1510 TIH for next are. CSS is now at 347 \ A=15.5' 1616 Now Cliff is here... 1621 hely down · full up · tight. pipe free. Toot = 360 Openhole. 1528 (18 min T14) Coing @ 362,5 -> C13 21 21 391-3 1530 Country and chattering in core Zone below 362.5, 1641 (Core up. 367-372) = 378 (orchogged 340-317-371 Today 340-372 32' 1535 Note: Cliff Hullman not arrivel yet. Were expected about 1800 pm 1658 Pipe in the rack. End fin day. Box fruck won't start . -1538 TOOK Stated. 1715 Concade of sito

336 2.7.22 Monday 2-7-22 Monday 1. Sito is Secund Summary 2 7-22 1720 V. Summany + H & 5 mby V. Photo · Core and log Ve Text to AH · Sync Plos End 372 8 tand 340 Total 32 1730 Call Joe T. Tomorrow 2-3-22 re Sufety forms. The here formson for forms, · Continuo Core art Log 1745 - end 1742 Secundy here. the site of show him 1748 Rms offsete.

38. 2-38-22 Tuesday 2-8-22 Tunday 139 0720 Jue Tray on site. 0735 Box fruch started. 0615 To site 0632 on site 08/8 Ju Trung off Site 1-24-2-2 Safety forms to JT to scan for Noveen, Dumpster Scrap Firday this week. 0640 Cascade on site. 7 x 2 x 20 = 360 $1 \times 21 = 21$ 381 - 3 = 378Carcade diens casing depth When fip in, will be ready to cut core 372-378 = 07/3 ZMS walk asout In 0826 Cs7 1×10' 347?+10=357 367+10=367? Site. See fence is open from 367+10=367? Overnight outhouse use by 0834 JIH 1850 Still Till TIH = 19 min The search quard. RMS move trafic Sign 0853 Begincory @ 372 cheser to fence on Kathryn. sgow call for outhouse server 505 859 5767 left mersage V Cascade Starty rig and 0907 Core is cut TOOH 1404 @ 372') 600 837 FD Week \$5 230'/30 = 7.60d witherto 2d 15 hrs Pruh ahead wada snaplus hope to retain Sample 111 Kms bug bulk Samples 320-370, 2446 Relly Down Cutty care 375

140 2 8.12 Tuesday 0926 [Circ up 372 375 (3)] 0932 TIH 2-8-22 Tuesday 1.41 1215 Dunp Rollott tomown uf know. Rms log care 372-375 It mail to J.J. to deemprollott Wednesday 0946 Kelly down Outigou 375 - (18 min) 1233 Carcade back from hunds, 1004 Pully up - TOOH 1025 Cure up pm/ 375-386(11) 1037 Add csg (sq @ 377 now) 250 7117 Patty and Bennie (dog) 1303 Begin Core 395 1049 Core logged 375-386. Note 1st grantic clast in entire core. 1331 still tryy to TOOH no pype in rach. con band 1101 Begin Core 386 -Stuck? Free / 29mm Core major Chatter and grinding -1332 / X/0' note: coubles to 3" at 386 1354 mud in last 20' vod before From previous core.

1115 TOOH

1140 Core up 386- 395 core barrel Heleupter Circling site, 1350 Con up 395 - 405 (10') 1410 Add () 1×10 sep.

Rms los core 395-405 121 1155 Talk W/ Kerin. 1200 Carcade take funcher puple, got = rich volcamon grave. 1427 Cire logged V 1430 Begin Corig Trip: 20 mm 1447 Cire cut, bumping up. 1215 Core logged 386 395 TOOH

2mg 142 2-8-22 Tuesday Tuesday 2-8-22 1515 Core up 405-412.51 17/2 Cascade trying to Start The box fruck in Drill crew change the Jaws (7.5') 1718 Log 412.5 417, Logged on the vice x &, chewing up Rms packup geostation, fre drill rods, has the space pails here. Ok. 1543 Cre logged 1 1 . Secure site V Summary note cylindrical Volcanie V photo Junary 1618 Rms populate chip fray V. text to AW In Syra log 1 1615 Finish Jaw replacement * the rig dech 1620 TIH Gorig - fast!Add 1×10 1726 rad to five up the read to be down to down to down to down to down to down the lox frush, 1631 (11min) Add 1X10 Now coing major cobbles!
Cored Fast remove 1×10 Box fruh is motion is "toast", per Cascade. Trick to jump Start box truck, but will not start. 1636 TOOH Contine JODH. Jump the box truck. Need a plan to fix. 1649 8211 JOOH, but should 1735 Callwithstn get a final Core for the day 1 Scriple for rolloff, · dim 5' into water yes · vailor Joet Joet 1748 Tout Joet 1748 Tout Joet re rollott. PMS file 1655 | coup 412,5-417 (4.5) 1748 Tout Joe 1 Very Coose - easy core, bost som

2-9-22 Wednesday 25% 2-3-22 Tuesday 0600 To Site. Securty Still her. Pup It & Storm Summary 2-8-22 · H Smtg 0632 Carcade here 1 tole 3 417 . Cored and Logged End 417 Start 372 · Box Truck - Ignition Total 45 · Roll oft - will Kind . 6 core runs this AM · 43 ' to 1/20 (?) Tomorrow 2-9-22 0688 HYS mtz . Box truth needs to be able · Continue Coring and logging to move. , , to dump hopper, etc. . Potential to reach groundwater at 460 (43') a vehicle. . Swap rolloff before · Collect top groundwater red to dead red to donor black to donor Sample (if at GW) to I ach to bloch (doud) Daller says he doesn't have 1800 bank to site to see to See of security is here. fre bailer rape. Could not get at Home Depot 1111 Rins text Austin to bring a disposable bailer.

146 BMG 2-9-22 Wednesday 147 2-9-22 Wednesday 0758 Boxtruck Startel 0725 Ful the drill rig V 0730 Try to starth box fruch. 0734 Start drill rig hot wired the truck 0809 Box fuch moved ahead Cloff Hollman (drilly mgr) Helpas have the hood open was on site this Am out left not wine again. to delver a core barrel to another Dump the hopper with drill site in El Paso, yes terday the took lift. kenny said Cliff would change 0822 Hopper dunied. Buch up The ignation switch. Ju box trubo, back in position Duins wi cliff says that Ready to start TIH (Not yet) was charged when the truck was in the Shop last weeks. 0750 RMS Walk around site dispréable bailers - says he has dispréable bailers -but stil needs the rope... all is seeme. Some grafitte on the road sign on kathryn, Drifter afferenting to Start free 0840 TIH BOX I ruch (Freet liner). Har an electrical tool box 50657 Begin Correy Core 12min Seems to be devising a work around? were with abigator clips 11. . 0786 call for outhour server ok, puring up Toot

148 2 - 9-22 Wednesday ~2-9:22 Wednesday 0931 Coreup FWI 417-427 (10) Time Depte Interel Lorsh CSS 0943 Cog 1×10' site RMS logcour 0931 417-427 417 10 1055 (124) 427-432 6955 Outhome Service is here 1200 (1106) 432 - 440 417 1005 Add rod 1 × 10' 437427 1942 440-442 (4) 1010 cutting we 437 10 33 helly down, Bump up. hoto Book 2" page 5 1035 TOOH 1055 (con up " 427 - 432 (51) 1107 Austin Harron here to sample the rolloff. Core loggel. 427-432. 1110 Deyn con 1120 Pull up - w1 vibe (?). Vibing Need to sent a wata level 600 meter. Carret Hanson Geotech 303 320 4764 Cou 720 334- 1630

140 2.9.22 Wednesday

700H 179 23-9-22 Wednesday 151 1306 Call back to Kelvey RMS collect somer than later per Dramo, wt overnight 1200 Core up 432 - 440 (8') but up to INTERA. pms can Joe I, Note: Claye 434-435, brown can Toe G. 54R5/4 Suto 438.440 Grown Joels - some volatele 1217 Box truck wont start (again) components - so some -Prefer ASAP - JG, JG.V 1232 Cire is logged. Trench break 13/8 Carcade back = 427/ 1329 Add (S\$ 1×101 1235 Carcade take lunch 1338 TIH 12 40 Call From Kelsey, WA 1400 Begin core 1442 Core 440-442 (2') re clon to wate. discus when to Sayple wt on ASAP? She will ash Diame Agnew 1344 Call 1256 get back to me. 1256 Cravet Havon Call Greotech for water level meter email to Jet West Olydate -Vernail directions. CUST 1354 Call Geotech again 750 Doenight / 750 left message - GHcell call GT office hold for Git lift missage.

2-9-22 Wednesday 162 2-9-22 Wednesday Cull w) Andy Freeman. HEAL EDB EPA 504.1 1SF - BOIL 24 hr TAT Sov Call wy JTite will let Diane know That we may or may not reach! Sumple water hoday. Hold time is) 4 days. I f we sample, we will keep 1427 TOOH on I ce in custody own might and deliver forms 11 pb. Call with Austin Gold time for 8011 EDB 1510 Call W/ Austin. Text himis we need in a ~ 1600. 2x40 ml NOA 66°C for all samples - per WP, COC - RMS at home · Sumple today, いかず了。 · de liver to motrow 1510 Com Now . 442 -Carl Joe T. - left menage. Very slow coring, no chatter. chatter or 447 1 (Core up 440-442 (Z')) 1530 penetration for to a 481 = Very hard drilly (?), added water Sant Adviso driller to mit NOT 1532 Cliff Hillman back or add any more water. 1535 Con is Cut. Bumping up . + 19ht" 1520 Con bogged 440-442 V. Pulliz up now.

150154 Rmg 1635 Coring now Wednesday 2-9-22 1538 TOOH 1 × 10 RMS get ice in the Slowly; bump up, down. 1636 Cory now. 442-445+ adviso reach water tomorrow. the, she will come @ 0300. 1630 Stull cong. Talk W Chiff Hill my. He to off sits for Franz's back 1600 Creup 442-444 lost 500 A & S Har fo' Swap rollott. next week. 1700 End cong@ 445 Csq to 337, leavin hale. 1615 rolloft removed to 437 / Driens W) driller - a Henry t 1705 Cancade will load rodo at Yard in the AM. Ok. to 460. Start flish formorow. Sunnay phisto Text AH 1610 TIH email Maggie de Fed & x deling Meeds to be timed - torre now by A & 5. water level meter, tomorrows 1730 Rms off site.

Z-9-22 PMS Wednesday 12mg 2-10-22 Thursday 300 185 184.166 0630. On Site Summary 2-9-22 Talk in security guard- no actually · Cored and logged overnight. 0635 prop HESmy docs. End 442 Start 417 · Casing/rods Total 25 · Swapped Rolloff · Core po water · Prep for water sample tomore · Sample 1 - water L. Sampled sort in rollott wi bailer 10m ornow 2-10-22 · Continue Cory. 1 Continue Coring and Logsing I respect Sample Container at + 460 ft bys 0.5 ml Sodium throsulfate VOA Vial (2 vials/sample) · Collect Sample of 12 water · Trip Blank (?) does there need to be a TripBlank for every delvery: it could be anadyed after all samples have been de wered. · Start New Field Notebook

Appendix