

Fields, Vanessa, EMNRD

From: Fields, Vanessa, EMNRD
Sent: Wednesday, February 27, 2019 11:22 AM
To: Joel Lowry; EMNRD-OCD-District1spills
Cc: Ericson, Dean
Subject: RE: 1RP-4984 - Pipeline No. 2B2-19-2 - Site Assessment Report and Proposed Remediation Plan

Good morning Joel.

The OCD has approved the remediation Plan with the following condition of Approvals.

Due to groundwater below < 50 feet, closure samples will need to comply with Table 1.

≤ 50 feet	Chloride***	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Joel Lowry <joel@lowryenvironmental.com>
Sent: Wednesday, February 27, 2019 6:39 AM
To: EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>
Cc: Ericson, Dean <Dean.Ericson@energyTransfer.com>
Subject: [EXT] FW: 1RP-4984 - Pipeline No. 2B2-19-2 - Site Assessment Report and Proposed Remediation Plan

Please find attached a Site Assessment Report and Proposed Remediation Plan that has been prepared for ETC's Pipeline No. 2B2-19-2 release site. It was submitted several months ago. From what I remember it was fairly conventional.

Respectfully,

Joel Lowry

Environmental Professional

LOWRY
environmental



PO Box 896
Lovington, NM 88260
Direct 432-466-4450

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From: Joel Lowry

Sent: Monday, November 12, 2018 3:58 PM

To: 'christina.hernandez@state.nm.us' <christina.hernandez@state.nm.us>; 'olivia.yu@state.nm.us' <olivia.yu@state.nm.us>

Cc: 'Ericson, Dean' <Dean.Ericson@energyTransfer.com>

Subject: 1RP-4984 - Pipeline No. 2B2-19-2 - Site Assessment Report and Proposed Remediation Plan

Ms. Yu and Ms. Hernandez,

Please find attached the *Site Assessment Report and Proposed Remediation Plan* that has been prepared for ETC's Pipeline No. 2B2-19-2 Release Site. The Release Site is located in Unit Letter "L", Section 15, Township 25 South, Range 37 East on land owned by Lea County. If you have any questions or need any additional information, please feel free to contact me by phone or email. Thanks!

Respectfully,

Joel Lowry

Environmental Professional

LOWRY
environmental



PO Box 896
Lovington, NM 88260
Direct 432-466-4450

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District I
1625 N French Dr., Hobbs, NM 88240
District II
811 S First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District Office

Incident ID	nOY1806442189
District RP	IRP-4984
Facility ID	fOY1806442080
Application ID	pOY1806442421

Release Notification

Responsible Party

Responsibly Party	ETC Texas Pipeline, Ltd.	OGRID	371183
Contact Name	Dean Ericson	Contact Telephone	817-302-9758
Contact Email	dean.ericson@energytransfer.com	Incident # (assigned by OCD)	IRP-4984
Contact Mailing Address	600 N. Marienfeld. St., Suite 700, Midland, TX 79701		

Location of Release Source

Latitude 32.12813 Longitude -103.15752
(Nad 83 in decimal degrees to 5 decimal places)

Site Name	Pipeline No. 2B2-19-2	Site Type	Pipeline
Date Release Discovered	02/28/18	API# (if applicable)	NA

Unit Letter	Section	Township	Range	County
"L"	15	25	37	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Lea County)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <5 bbls	Volume Recovered (bbls) None
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 736.25	Volume Recovered (Mcf) Non
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was attributed to the failure of a segment of buried natural gas pipeline as a result of corrosion.

State of New Mexico
Oil Conservation Division

Incident ID	nOY1806442189
District RP	IRP-4984
Facility ID	FOY1806442080
Application ID	pOY1806442421

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Unauthorized release of a volume of gases exceeding 500 McF.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means? (phone, email, etc)? Carolyn Blackaller, Olivia Yu, 3/1/2018 @ 12:35, Not Available	

Initial Response

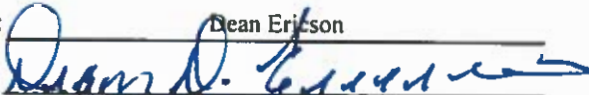
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Release materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11 (A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Dean Ericson Title: Sr. Environmental Specialist
 Signature:  Date: 11/12/2018
 email: dean.ericson@energytransfer.com Telephone: 817-302-9758

OCD Only

Received by: _____ Date: _____

Incident ID	nOY1806442189
District RP	IRP-4984
Facility ID	fOY1806442080
Application ID	pOY1806442421

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discover date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>50'</u> (ft. bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	nÖY1806442189
District RP	IRP-4984
Facility ID	fÖY1806442080
Application ID	pÖY1806442421

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Dean Ericson Title: Sr. Environmental Specialist
Signature:  Date: _____
email: dean.ercison@energytransfer.com Telephone: 817-302-9758

OCD Only

Received by: _____ Date: _____

Incident ID	nOY1806442189
District RP	IRP-4984
Facility ID	fOY1806442080
Application ID	pOY1806442421

Remediation Plan

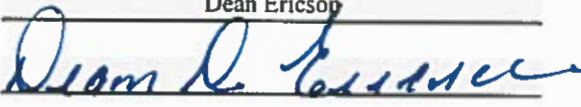
Remediation Plan Checklist: *Each of the following items must be included in the report.*

- ☒ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points (GPS N/A)
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)


Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Dean Ericson Title: Sr. Environmental Specialist
 Signature:  Date: 11/12/2018
 email: dean.ericson@energytransfer.com Telephone: 817-302-9758

OCD Only

Received by: Vanessa Fields Date: 2/27/2019
☒ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved
 Signature:  Date: 2/27/2019



November 12, 2018

Incident ID	nOY1806442189
District RP	1RP-4984
Facility ID	fOY1806442080
Application ID	pOY1806442421

Olivia Yu & Christina Hernandez
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1625 French Drive
Hobbs, NM 88240

Re: Site Assessment Report and Proposed Remediation Plan
Site Name: Pipeline No. 2B2-19-2
GPS: Latitude: 32.12813 Longitude: -103.15752
Legals: UL "L", Sec. 15, T25S, R37E
Lea County, New Mexico
NMOCD Ref. No. 1RP-4984

Lowry Environmental & Associates, LLC (LEA), on behalf of ETC Texas Pipeline, Ltd., has prepared this Site Assessment Report and Proposed Remediation Plan for the Release Site known as the Pipeline No. 2B2-19-2. Details of the release are summarized on the table below:

Nature and Volume of Release	
Date Release Discovered	2/28/2018
Type of Release	Source of Release
	Pipeline
Natural Gas w/ Liquids	Volume Released
	736.250 McF
	Volume Recovered
	None
Cause of Release	
The release was attributed to the failure of a segment of buried natural gas pipeline as a result of corrosion.	
Affected Area	
The release affected an area within a pipeline right-of-way measuring approximately 100 sq. ft.	
Was this a major release?	If YES, for what reasons (s) is this considered a major release?
Yes	Unauthorized release of a volume of gas exceeding 500 McF.
If Yes, was immediate notice given to the OCD? By whom? To whom? When and by what means?	
Carolyn Blackaller, Olivia Yu, 3/1/2018 @ 12:35, Not Available	

A copy of the Release Notification (NMOCD Form C-141) is provided as Attachment #8.

Incident ID	nOY1806442189
District RP	1RP-4984
Facility ID	fOY1806442080
Application ID	pOY1806442421

Site Assessment/Characterization

What is the shallowest depth to groundwater beneath the area affected by the release?	>50'
Did this release impact groundwater or surface water?	No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	No
Are the lateral extents of the release within 300 feet of a wetland?	No
Are the lateral extents of the release overlying a subsurface mine?	No
Are the lateral extents of the release overlying an unstable area such as karst geology?	No
Are the lateral extents of the release within a 100-year floodplain?	No
Did the release impact areas not on an exploration, development, production or storage site?	Yes

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey was conducted in an effort to determine the average depth to groundwater within a 1 Mile radius of the Site and identify any registered water wells within a 1/2 Mile radius of the Site. If none were identified, or the results were inconclusive, the approximate depth to groundwater was extrapolated from available data including the average of the nearest USGS wells and/or a Depth to Groundwater Map utilized by the NMOCD.

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria for the Site is as follows:

Closure Criteria for Soil Impacted by a Release

Benzene	10 mg/kg
Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX)	50 mg/kg
Total Petroleum Hydrocarbons	2500 mg/kg
Combined GRO and DRO	1000 mg/kg
Chloride	10000 mg/kg

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1 & 2. Depth to groundwater information is provided as Attachment #4. A Photographic Log is provided as Attachment #7.

Incident ID	nOY1806442189
District RP	1RP-4984
Facility ID	fOY1806442080
Application ID	pOY1806442421

INITIAL SITE ASSESSMENT

On **March 22, 2018**, an initial site assessment was conducted. During the initial site assessment, seven (7) test trenches (V1, H1, H2, H3, H4, H2.1 and H2.2) were advanced in an effort to determine the extent of impacted soil affected above the NMOCD Closure Criteria. Test trench V1 was advanced within the center of the affected area, adjacent to the release point. During the advancement of the test trench, three (3) soil samples (V1 3', V1 6' and V1 9') were collected and submitted to an NMOCD-approved laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples.

Test trenches H1, H2, H3, H4, H2.1 and H2.2 were advanced at the inferred edges of the impacted area in an effort to determine the horizontal extent of soil impacted above the NMOCD Closure Criteria. During the advancement of the test trenches, thirteen (13) soil samples were collected and submitted to the laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples.

On November 8, 2018, LEA revisited the Site. During the site visit, a hand-auger was utilized to collect two (2) soil samples (H1.1 0.5' and H1.1 1.5') south of the area characterized by test trench H1. The collected soil samples were submitted to an NMOCD-approved laboratory for analysis of TPH. Laboratory analytical results indicated TPH concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples.

A table summarizing laboratory analytical results from soil samples collected during the initial site assessment is provided on the following page:

Incident ID	nOY1806442189
District RP	1RP-4984
Facility ID	fOY1806442080
Application ID	pOY1806442421

Concentrations of BTEX, TPH and/or Chloride in Soil - Initial Assessment(s)											
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					E300/4500Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
V1 3'	3/22/16	3'	In-Situ	<0.050	<0.300	<10.0	189	189	26.9	215.9	6,720
V1 6'	3/22/16	6'	In-Situ	<0.050	0.363	<10.0	86.6	86.6	<10.0	86.6	1,760
V1 9'	3/22/16	9'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
H1 3'	3/22/16	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
H1 6'	3/22/16	6'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
H2 3'	3/22/16	3'	In-Situ	0.177	31.8	173	423	596	25.6	622	3,680
H2 6'	3/22/16	6'	In-Situ	<0.050	<0.300	<10.0	38.7	38.7	<10.0	38.7	48.0
H2 7'	3/22/16	7'	In-Situ	<0.050	5.59	46.2	168	214.2	17.2	231.4	1,090
H3 3'	3/22/16	3'	In-Situ	<0.050	<0.300	<10.0	32.4	32.4	<10.0	32.4	16.0
H3 4'	3/22/16	4'	In-Situ	<0.050	17.6	102	351	453	54.5	507.5	208
H4 3'	3/22/16	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
H4 6'	3/22/16	6'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
H2.1 3'	3/22/16	3'	In-Situ	<0.050	2.23	24.5	172	196.5	22.5	219.0	112
H2.1 6'	3/22/16	6'	In-Situ	<0.050	9.55	86.7	463	549.7	78.7	628.4	192
H2.2 3'	3/22/16	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
H2.2 6'	3/22/16	6'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
H1.1 0.5'	11/8/18	0.5'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
H1.1 1.5'	11/8/18	1.5'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
Closure Criteria				10	50	-	-	1,000	-	2,500	10,000

A "Site & Sample Location Map" is provided as Attachment #3. Field Data, if applicable, is provided as Attachment #9. Soil profile observations are provided on Attachment #5. Laboratory analytical reports are provided as Attachment #6.

Incident ID	nOY1806442189
District RP	1RP-4984
Facility ID	fOY1806442080
Application ID	pOY1806442421

PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment, ETC Texas Pipeline, Ltd. proposes the following remediation activities designed to advance the Site toward an approved closure:

- Utilizing mechanical equipment, excavate impacted soil within the release margins affected above the NMOCD Closure Criteria.
- The floor of the excavated area will be advanced to a depth of approximately 3 ft. bgs, or until laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria.
- Excavation sidewalls will be advanced horizontally until laboratory analytical results from confirmation soil samples indicate BTEX, TPH and chloride concentrations are below the NMOCD Closure Criteria.
- Excavated soil will be temporarily stockpiled on-site, pending transportation under manifest to an NMOCD-approved disposal facility.
- Upon receiving favorable laboratory analytical results from confirmation soil samples (below the NMOCD Closure Criteria) excavated areas will be backfilled with locally sourced, non-impacted "like" material. Excavation backfill will be placed at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite excavation confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than **50 linear ft.** A minimum of **one (1)** representative five-point composite excavation confirmation soil sample will be collected from the base of the excavated area representing every **250 square feet.** Additional, "discrete" confirmation soil samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed **within 90 days** of receiving necessary approval(s) of this Site Assessment Summary and Proposed Remediation Plan. Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment it is estimated that approximately **100 cubic yards** of soil has been affected above the NMOCD Closure Criteria.

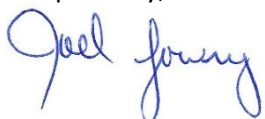
Incident ID	nOY1806442189
District RP	1RP-4984
Facility ID	fOY1806442080
Application ID	pOY1806442421

RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

If you have any questions, or need any additional information, please feel free to contact Dean Ericson or the undersigned by phone or email.

Respectfully,



Joel W. Lowry
Environmental Professional
Lowry Environmental & Associates, LLC

Attachments:

- Attachment #1- Figure 1 - Topographic Map
- Attachment #2- Figure 2 - Aerial Map
- Attachment #3- Figure 3 - Site & Sample Location Map
- Attachment #4- Depth to Groundwater Information
- Attachment #5- Soil Profile
- Attachment #6- Laboratory Analytical Reports
- Attachment #7- Photographic Log
- Attachment #8- Release Notification (FORM C-141)
- Attachment #9- Field Data

LIMITATIONS

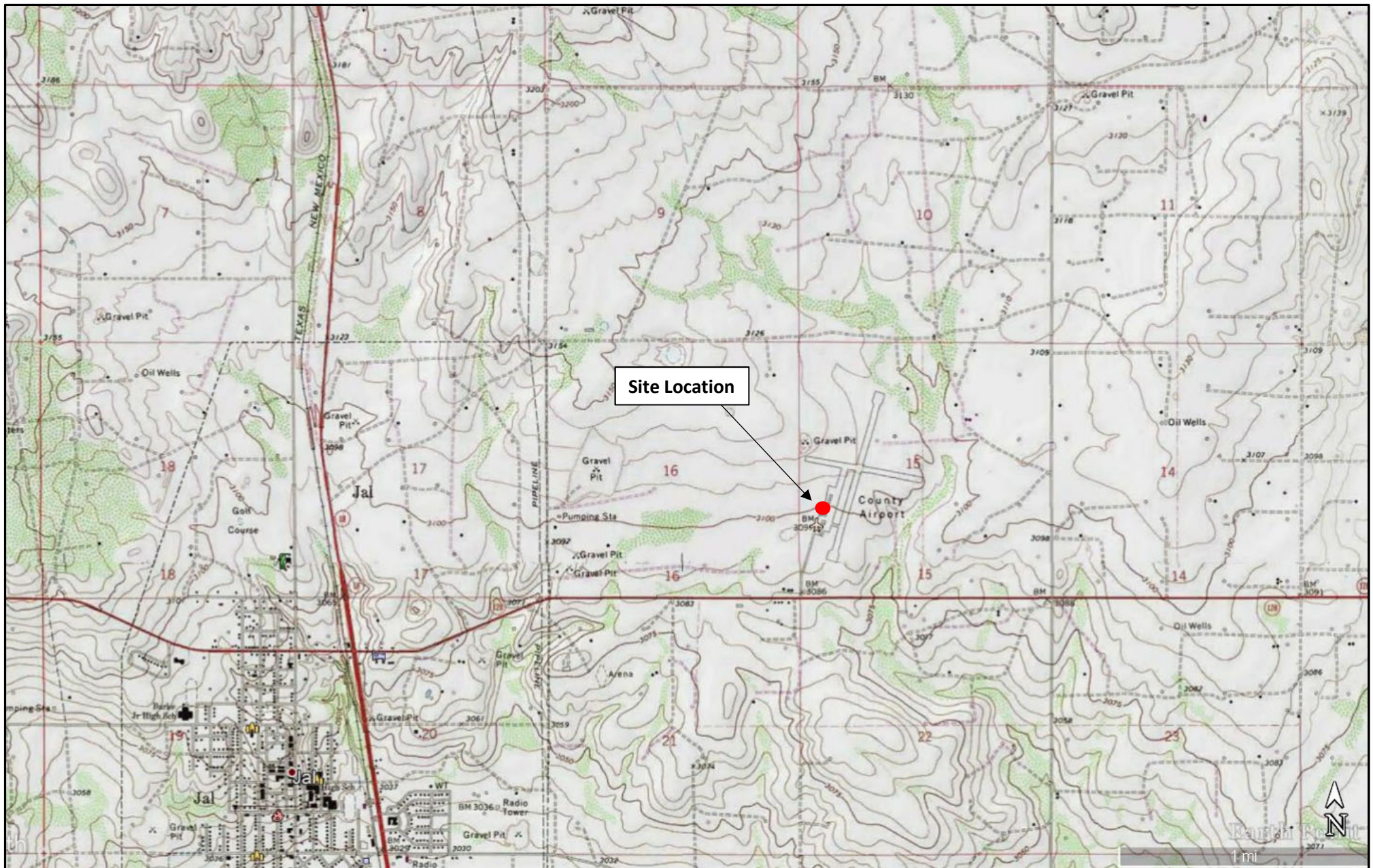
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ATTACHMENT #1

Figure 1 - Topographic Map



LEGEND:

● Site Location

Figure 1

Topographic Map
ETC Texas Pipeline, Ltd.
Pipeline No. 2B2-19-2
GPS: 32.12813, -103.15752
Lea County, New Mexico



Drafted by: jwl

Checked by: client

Date: 11/7/2018

ATTACHMENT #2

Figure 2 - Aerial Map



Earth




●	Site Location		Non-Industrial Building
○	Fresh Water Well		Subsurface Mine
	100-Year Floodplain	○	1/2 Mile Radius
	High/Critical Karst		

Figure 2
Aerial Map
ETC Texas Pipeline, Ltd.
Pipeline No. 2B2-19-2
GPS: 32.12813, -103.15752
Lea County, New Mexico

LOWRY
environmental



Drafted by: jwl Checked by: client Date: 11/7/2018

ATTACHMENT #3

Figure 3 - Site & Sample Location Map



LEGEND:

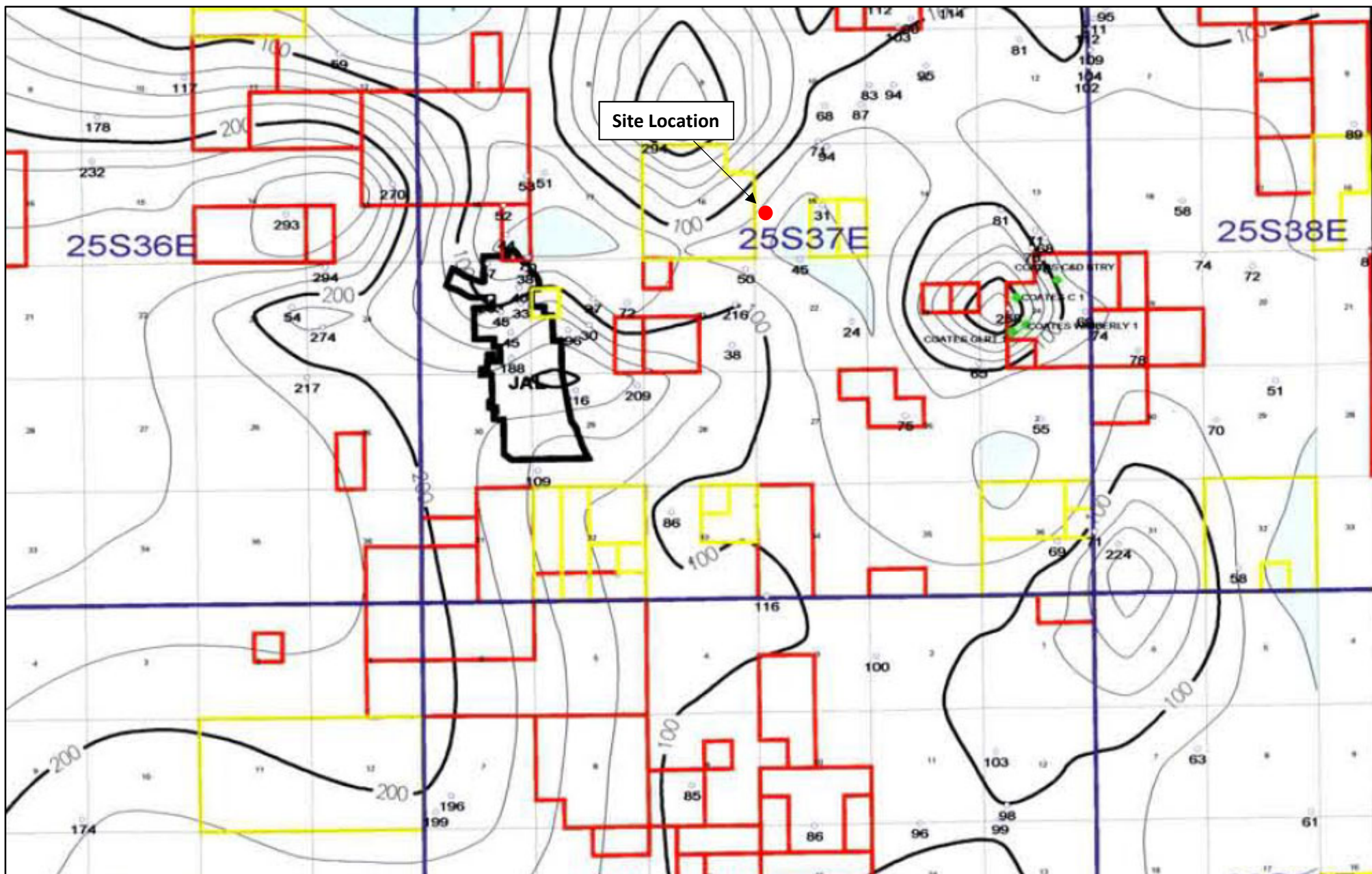
	Sample Point
	Affected Area
	Test Trench
	Buried Pipeline
	Excavated Area

Figure 3
 Site & Sample Location Map
 ETC Texas Pipeline, Ltd.
 Pipeline No. 2B2-19-2
 GPS: 32.12813, -103.15752
 Lea County, New Mexico

LOWRY
 environmental

Drafted by: jwl	Checked by: client	Date: 11/9/2018
-----------------	--------------------	-----------------

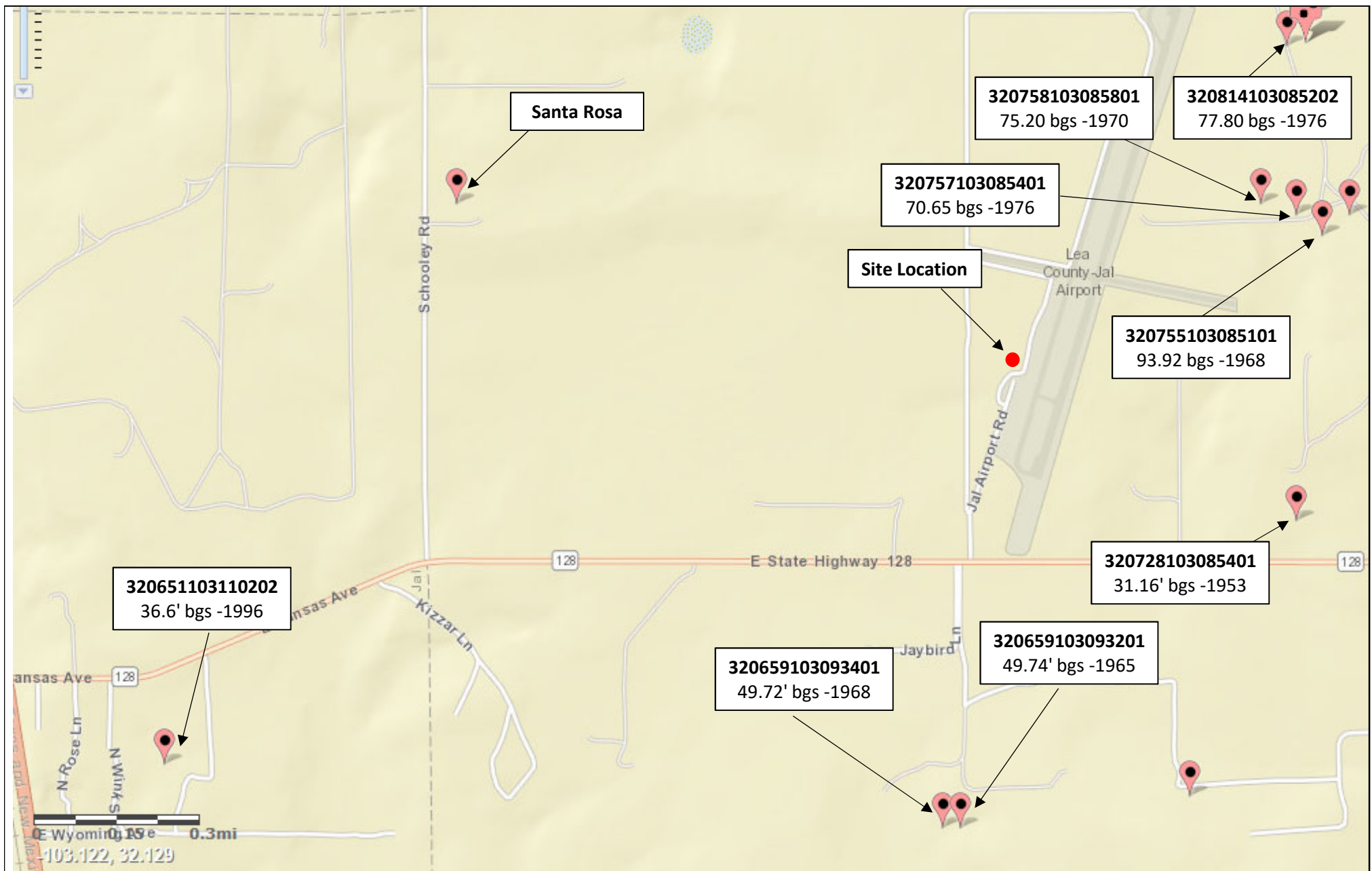
ATTACHMENT #4
Depth to Groundwater Information



LEGEND:

● Site Location

Figure 4
 Inferred Depth to Groundwater Trend Map
 ETC Texas Pipeline, Ltd.
 Pipeline No. 2B2-19-2
 GPS: 32.12813, -103.15752
 Lea County, New Mexico



LEGEND:

● Site Location

Figure 5

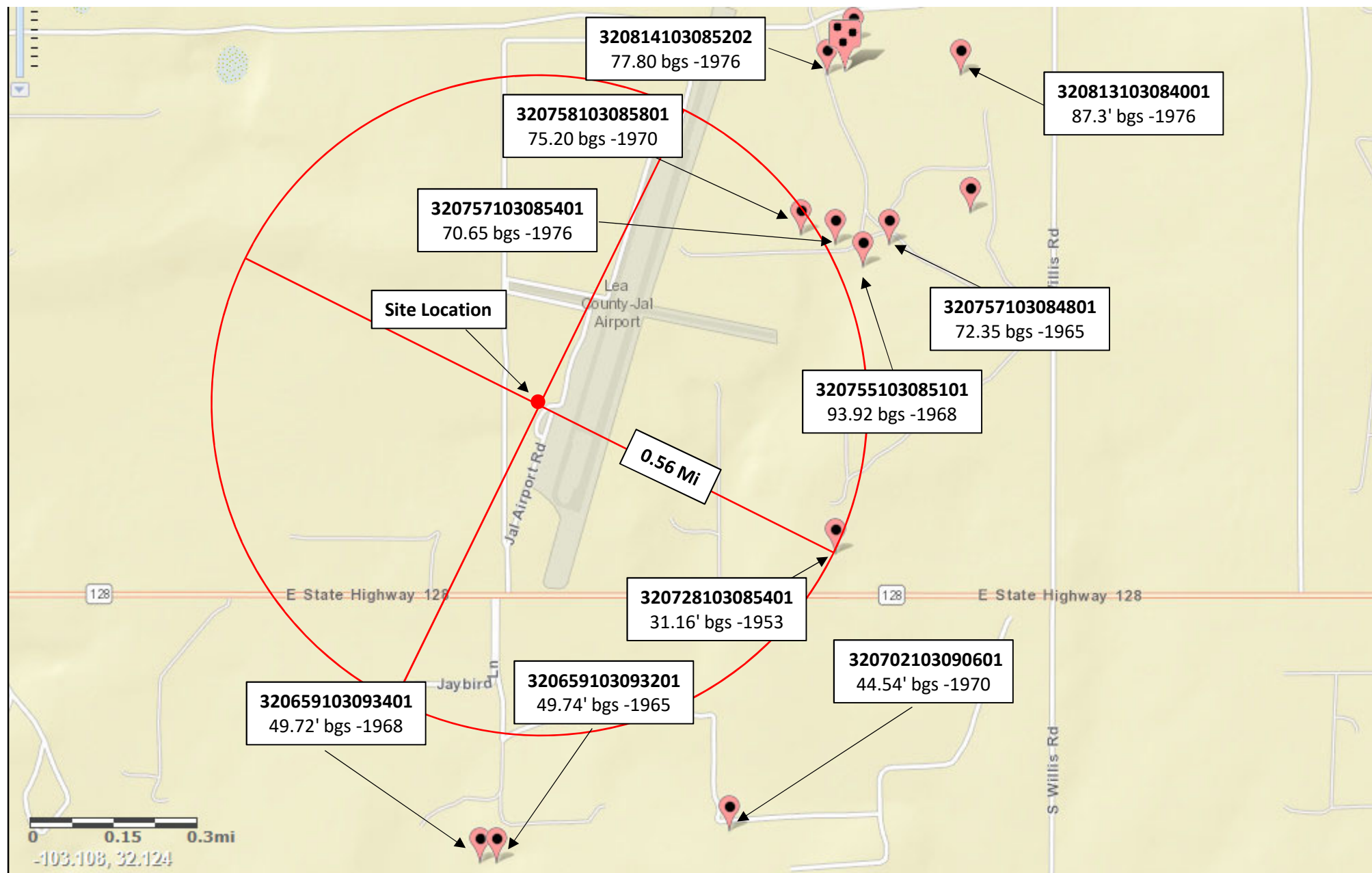
USGS Well Proximity Map
ETC Texas Pipeline, Ltd.
Pipeline No. 2B2-19-2
GPS: 32.12813, -103.15752
Lea County, New Mexico



Drafted by: jwl

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LEGEND:

● Site Location

Figure 5b

USGS Well Proximity Map
ETC Texas Pipeline, Ltd.
Pipeline No. 2B2-19-2
GPS: 32.12813, -103.15752
Lea County, New Mexico



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LEGEND:

● Site Location

Figure 6

USGS Well Proximity Map
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Pipeline No. 2B2-19-2
GPS: 32.12813, -103.15752
Lea County, New Mexico



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Date: 11/7/2018



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,

O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 00425 POD1		CP	LE	4	4	4	16	25S	37E	673541	3555653*	538	500	250	250
CP 00216 POD1		CP	LE	2	2	1	22	25S	37E	674353	3555464*	859	84		
CP 01059 POD3		CP	LE	2	3	2	15	25S	37E	674723	3556717	1095	70	70	0
CP 01059 POD2		CP	LE	2	3	2	15	25S	37E	674723	3556774	1127	60	60	0
CP 01059 POD1		CP	LE	2	3	2	15	25S	37E	674758	3556738	1136	60	60	0
CP 01080 POD2		CP	LE	4	1	2	15	25S	37E	674737	3556779	1141	65		
CP 01080 POD1		CP	LE	2	3	2	15	25S	37E	674816	3556749	1191	65		
CP 00219 POD1		CP	LE	3	3	4	10	25S	37E	674522	3557282*	1363	84		

Average Depth to Water: 110 feet

Minimum Depth: 60 feet

Maximum Depth: 250 feet

Record Count: 8

UTMNAD83 Radius Search (in meters):

Easting (X): 673802

Northing (Y): 3556124

Radius: 1608

*UTM location was derived from PLSS - see Help

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11/7/18 7:03 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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(R=POD has been replaced,

O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	Sub-basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 00425 POD1		CP	LE	4	4	4	16	25S	37E	673541	3555653*	538	500	250	250

Average Depth to Water: 250 feet

Minimum Depth: 250 feet

Maximum Depth: 250 feet

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 673802

Northing (Y): 3556124

Radius: 805

*UTM location was derived from PLSS - see Help

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WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00425 POD1	4	4	4	16	25S	37E	673541	3555653*

Driller License: 99 **Driller Company:** O.R. MUSSELWHITE WATER WELL SE
Driller Name: MUSSELWHITE, O.R.

Drill Start Date: 10/02/1967	Drill Finish Date: 10/12/1967	Plug Date:
Log File Date: 10/16/1967	PCW Rcv Date: 01/27/1972	Source: Shallow
Pump Type: SUBMER	Pipe Discharge Size: 1.25	Estimated Yield: 26 GPM
Casing Size: 5.50	Depth Well: 500 feet	Depth Water: 250 feet

Water Bearing Stratifications:

Top	Bottom	Description
400	500	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
420	500

Meter Number: 8590	Meter Make: MASTER
Meter Serial Number: 288582	Meter Multiplier: 1.0000
Number of Dials: 6	Meter Type: Diversion
Unit of Measure: Gallons	Return Flow Percent:
Usage Multiplier:	Reading Frequency: Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount
04/01/2005	2005	325098	A	jw	This wel is no longer being us	0
07/11/2005	2005	325098	A	jw		0
10/11/2005	2005	325098	A	jw		0
12/31/2005	2005	325098	A	RPT	Well no longer being used.	0
04/01/2006	2006	325098	A	RPT	Well is no longer being used	0
07/01/2006	2006	325098	A	RPT		0
10/01/2006	2006	325098	A	RPT	well is no longer being used	0
10/01/2013	2013	325098	A	RPT		0
12/31/2013	2013	325098	A	RPT	Well not longer being used	0
03/31/2014	2014	325098	A	RPT	Well no longer being used	0
10/01/2014	2014	325098	A	RPT		0
01/01/2015	2014	325098	A	RPT		0
04/03/2015	2015	325098	A	RPT		0
07/01/2015	2015	325098	A	RPT		0
10/01/2015	2015	325098	A	RPT		0
01/01/2016	2015	325098	A	RPT		0
04/01/2016	2016	325098	A	RPT		0
10/03/2016	2016	325098	A	RPT		0
01/02/2017	2017	325098	A	RPT		0
04/01/2017	2017	325098	A	RPT	NO LONGER BEING USED	0

**YTD Meter Amounts:	Year	Amount
	2005	0
	2006	0
	2013	0
	2014	0
	2015	0
	2016	0
	2017	0

x

***UTM location was derived from PLSS - see Help**

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Search Results -- 1 sites found

site_no list =

- 320758103102901

Minimum number of levels = 1

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USGS 320758103102901 25S.37E.09.333422

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Groundwater: Field measurements	GO
---------------------------------	----

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°07'58", Longitude 103°10'29" NAD27

Land-surface elevation 3,141 feet above NAVD88

The depth of the well is 500 feet below land surface.

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

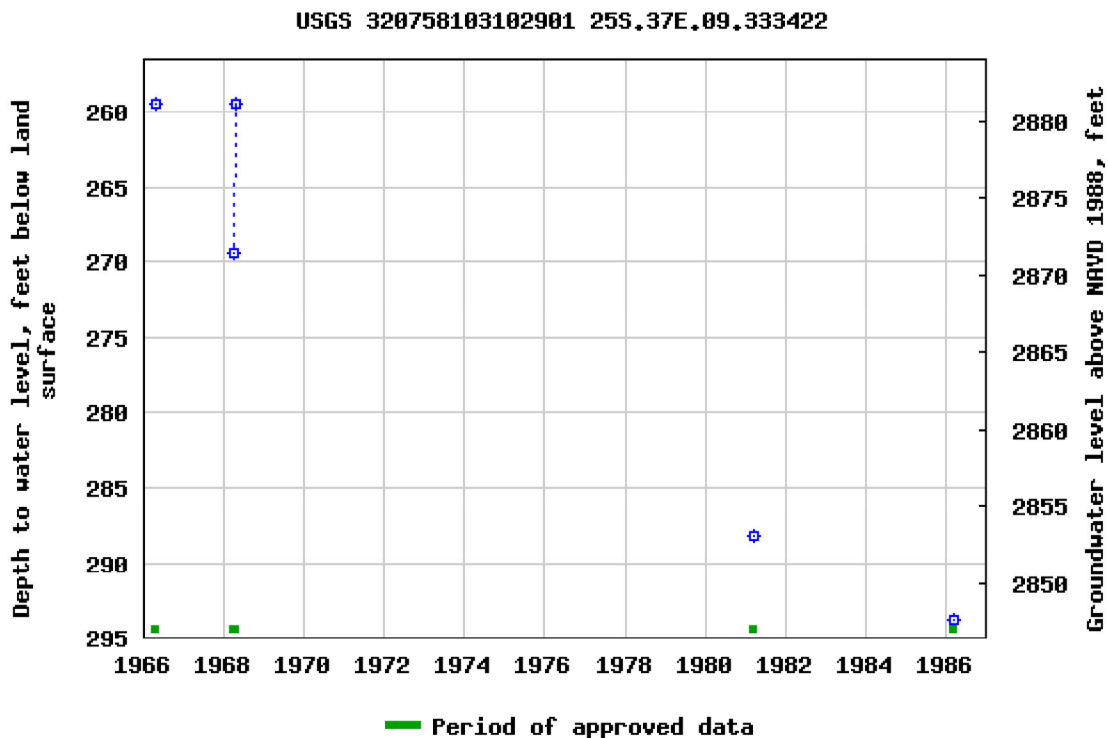
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1.24 1.13 nadww01



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Search Results -- 1 sites found

site_no list =

- 320651103110202

Minimum number of levels = 1

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USGS 320651103110202 25S.37E.20.231342A

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Groundwater: Field measurements

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Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°07'05", Longitude 103°11'02" NAD27

Land-surface elevation 3,071.70 feet above NGVD29

The depth of the well is 510 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

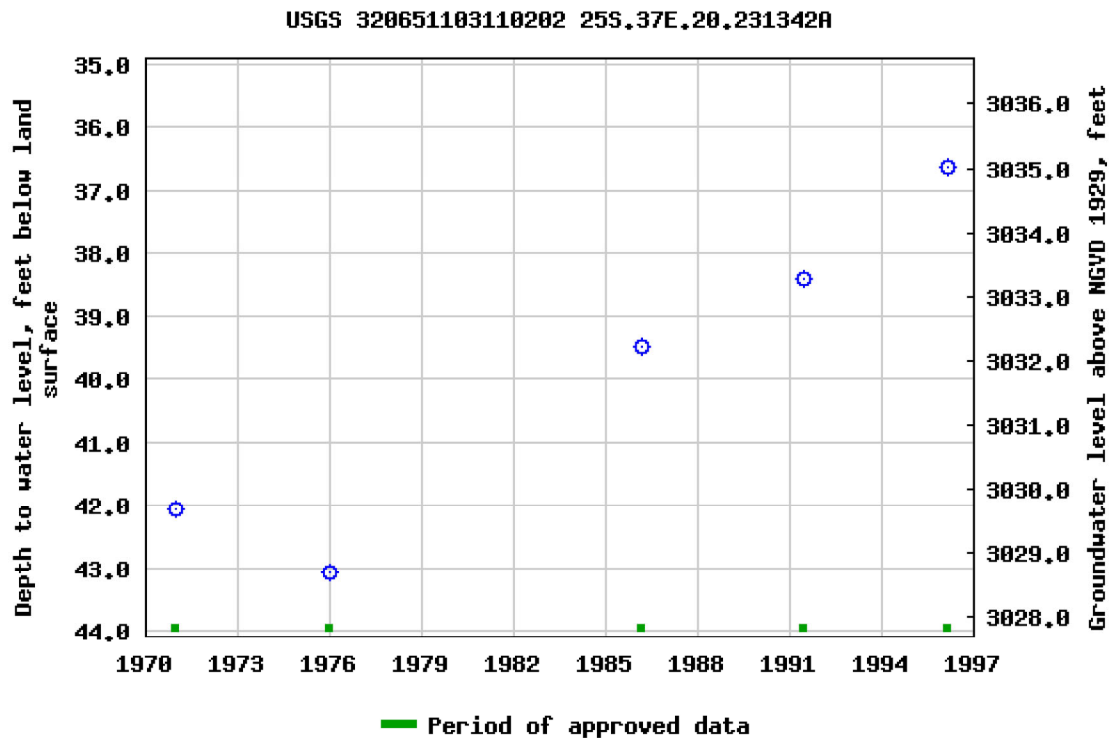
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1.06 0.95 nadww01






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site_no list =

- 320659103093201

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USGS 320659103093201 25S.37E.21.224213

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Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°06'59", Longitude 103°09'32" NAD27

Land-surface elevation 3,083 feet above NAVD88

The depth of the well is 100 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

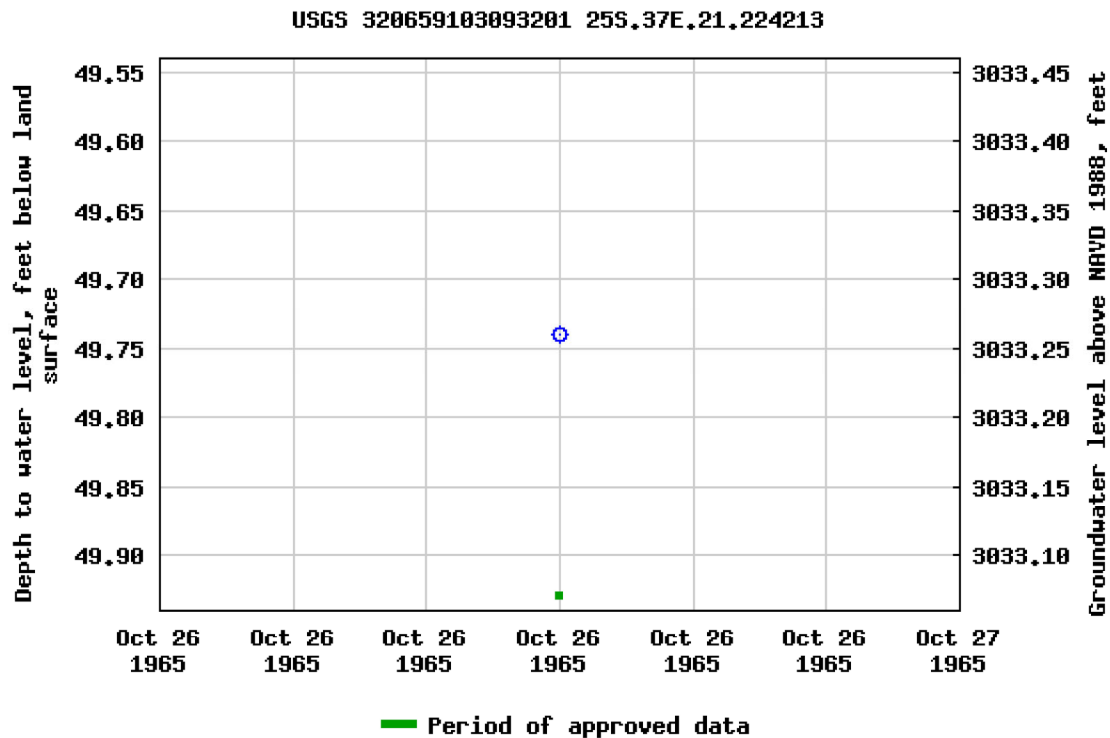
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1 0.91 nadww01





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site_no list =

- 320659103093401

Minimum number of levels = 1

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USGS 320659103093401 25S.37E.21.222341

Available data for this site

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Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°06'59", Longitude 103°09'34" NAD27

Land-surface elevation 3,080 feet above NAVD88

The depth of the well is 120 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

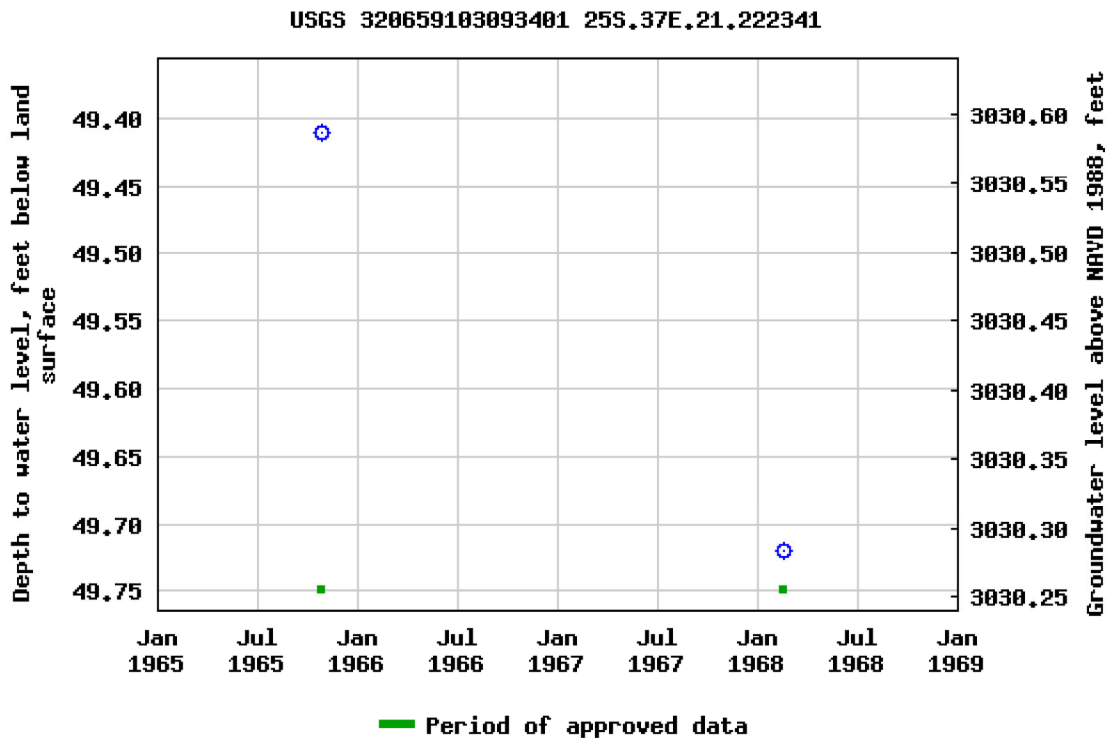
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2.88 0.92 nadww01






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site_no list =

- 320758103085801

Minimum number of levels = 1

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USGS 320758103085801 25S.37E.10.433341

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---------------------------------	----

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°07'58", Longitude 103°08'58" NAD27

Land-surface elevation 3,100 feet above NAVD88

The depth of the well is 84 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

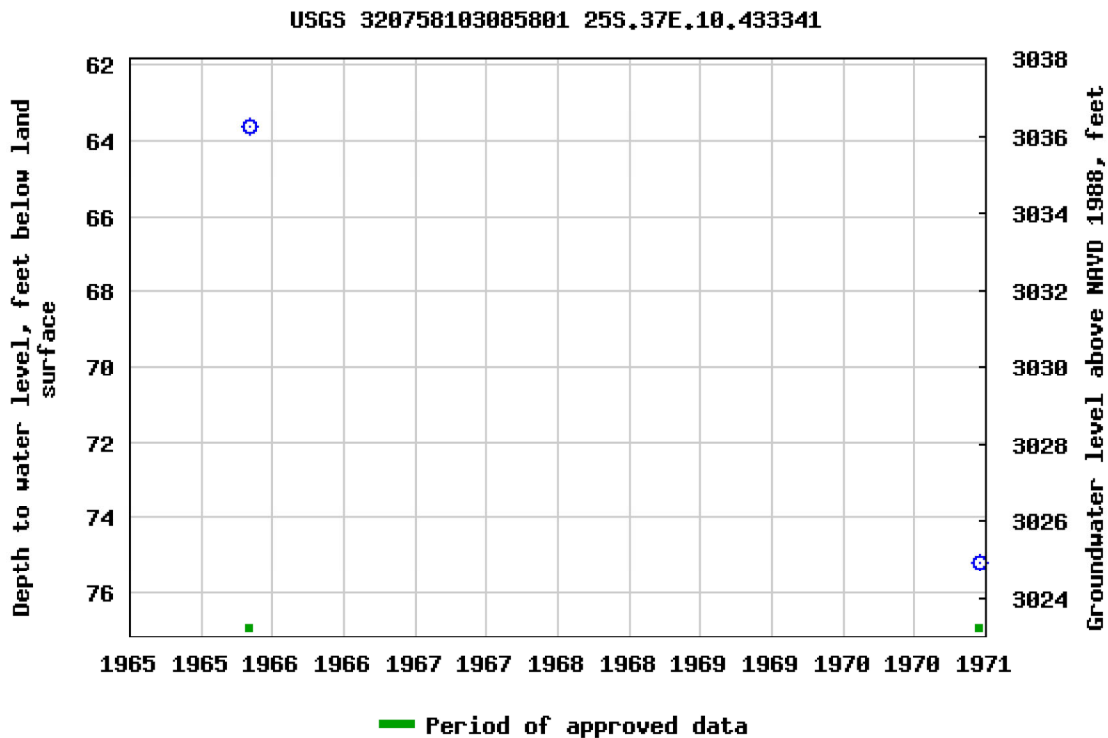
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1.1 0.96 nadww01



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site_no list =

- 320728103085401

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USGS 320728103085401 25S.37E.15.41124

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Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°07'28", Longitude 103°08'54" NAD27

Land-surface elevation 3,087 feet above NAVD88

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

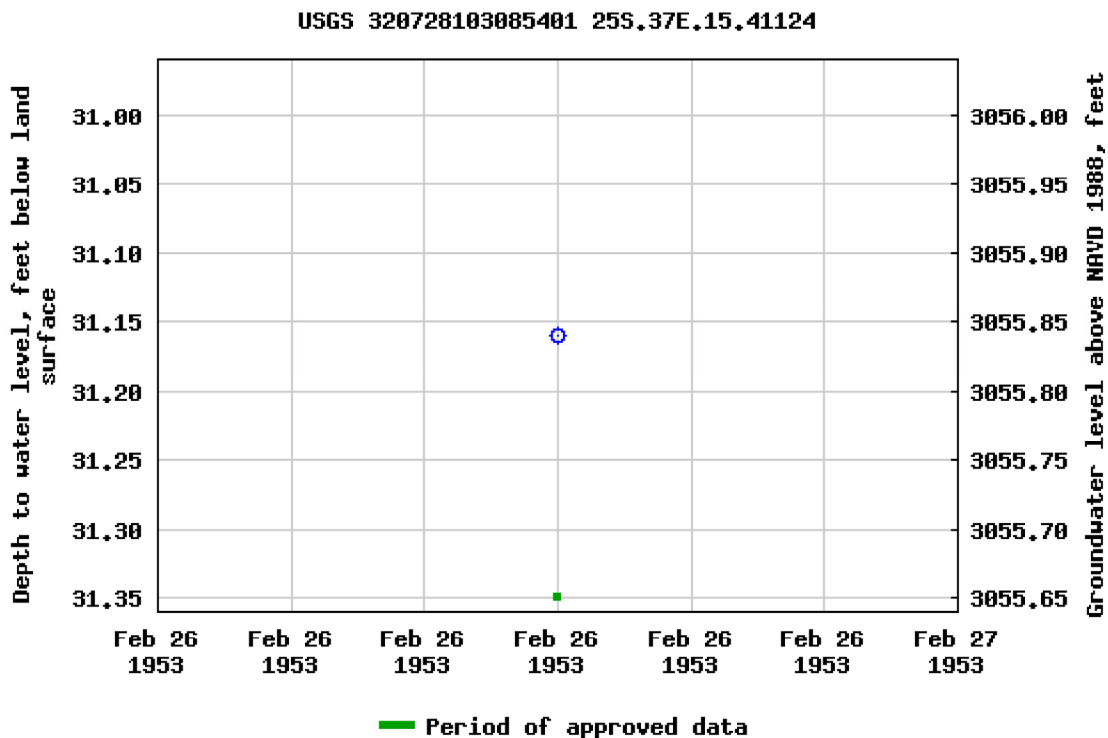
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1.03 0.93 nadww01




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site_no list =

- 320814103085202

Minimum number of levels = 1

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USGS 320814103085202 25S.37E.10.41413A

Available data for this site

Groundwater: Field measurements	GO
---------------------------------	----

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°08'14", Longitude 103°08'52" NAD27

Land-surface elevation 3,105 feet above NAVD88

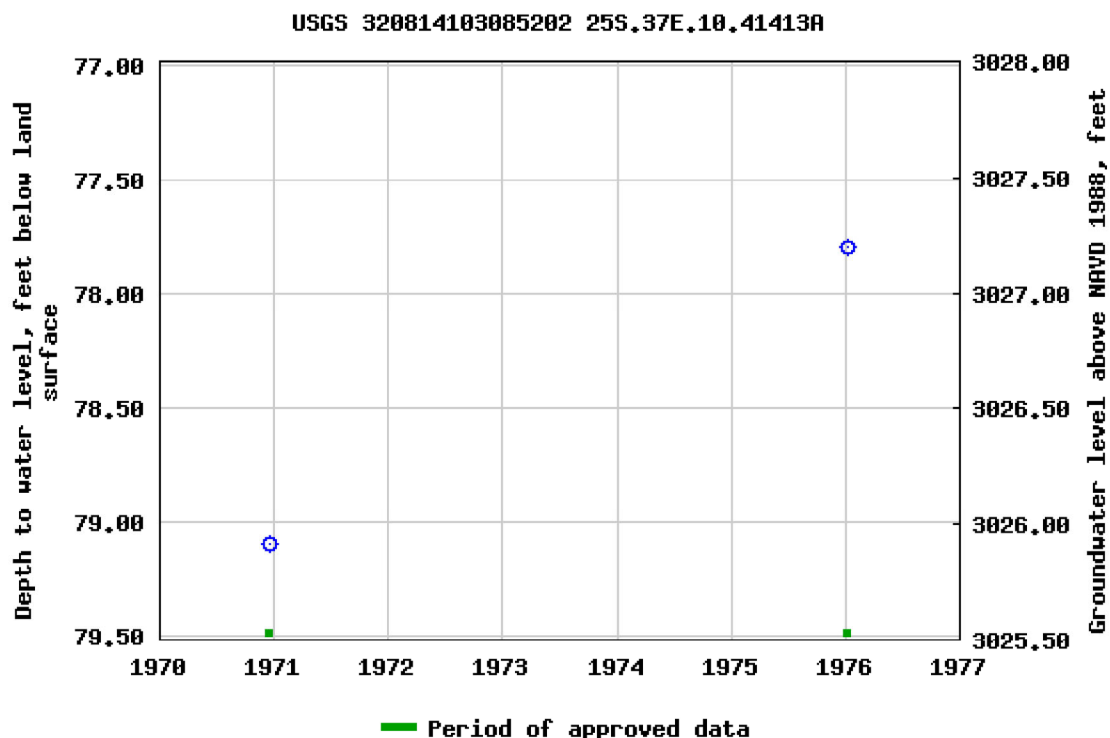
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data

[Graph of data](#)

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2018-11-06 17:35:47 EST

1.05 0.92 nadww01



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National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:


Groundwater

Geographic Area:

United States

GO

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- **UPDATE, 11/2: The USGS continues to make progress on restoring all of its gages. As of 3 p.m. Friday, November 2, less than 3 percent of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. The USGS will continue to work through the weekend to bring the streamgages back online. Read [more](#)**
- [Full News](#) 

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 320757103085401

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320757103085401 25S.37E.10.43343

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°07'57", Longitude 103°08'54" NAD27

Land-surface elevation 3,101 feet above NAVD88

The depth of the well is 105 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

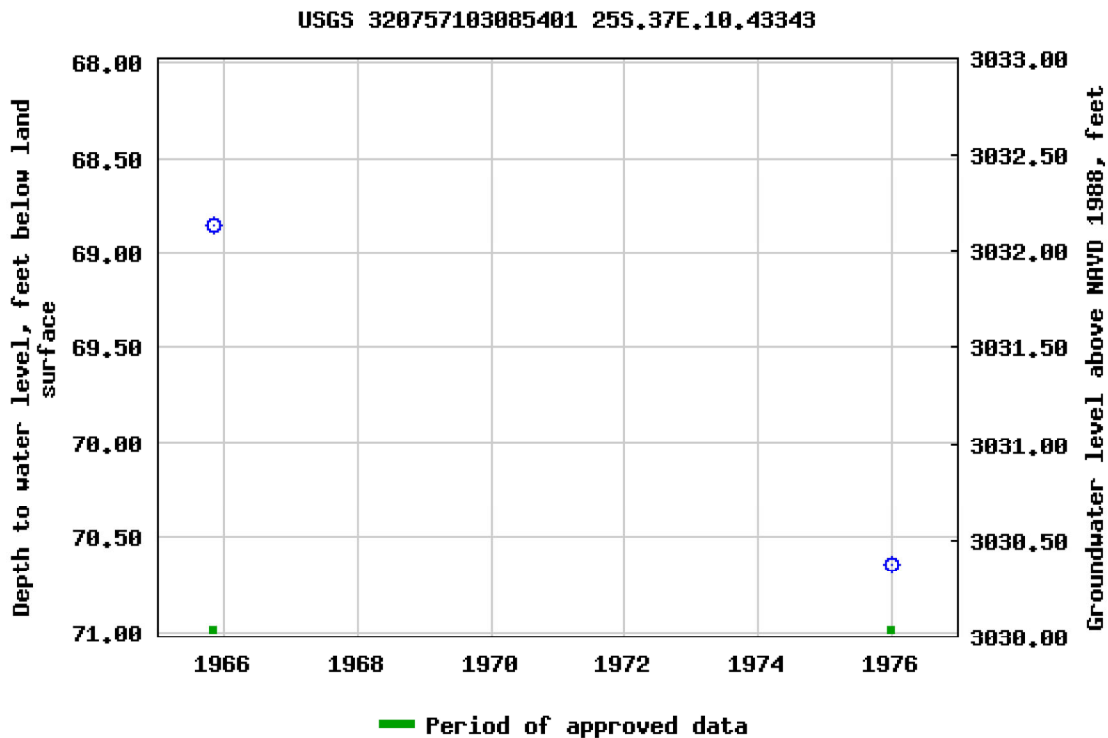
Output formats

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2018-11-06 17:34:53 EST

1.05 0.97 nadww01




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National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:	
Groundwater	United States	GO

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- **UPDATE, 11/2: The USGS continues to make progress on restoring all of its gages. As of 3 p.m. Friday, November 2, less than 3 percent of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. The USGS will continue to work through the weekend to bring the streamgages back online. Read [more](#)**
- [Full News](#) 

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 320757103084801

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320757103084801 25S.37E.10.434433

Available data for this site

Groundwater: Field measurements	GO
---------------------------------	----

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°07'57", Longitude 103°08'48" NAD27

Land-surface elevation 3,103 feet above NAVD88

The depth of the well is 106 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

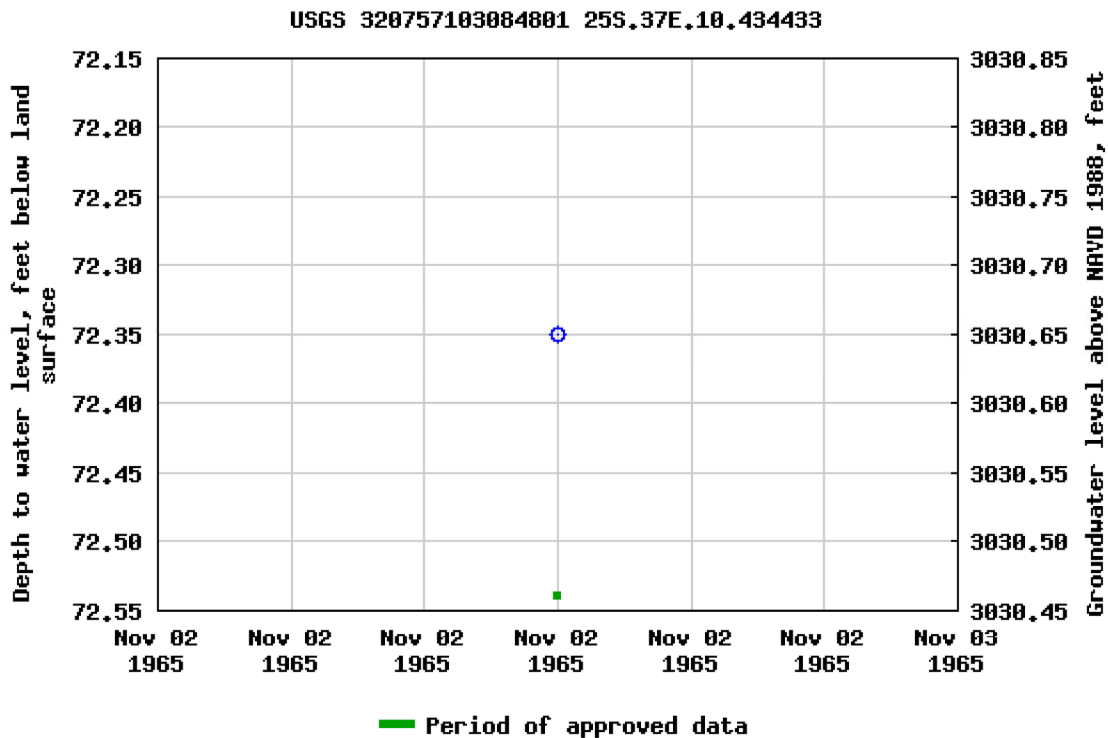
Output formats

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2018-11-07 12:21:14 EST

1.04 0.92 nadww01





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National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:


Groundwater

Geographic Area:

United States

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- **UPDATE, 11/6: The USGS continues to make progress on restoring all of its gages. Less than 1 percent of USGS streamgages are still not transmitting due to an issue with the satellite telemetry system that records and transmits data. Once all operational gages are brought back online, the USGS will focus on restoring other equipment that experienced the telemetry issues, including about 85 rapid deployment gages that are used periodically for emergency response. Read [more](#)**
- [Full News](#) 

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 320813103084001

Minimum number of levels = 1

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USGS 320813103084001 25S.37E.10.423232

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°08'13", Longitude 103°08'40" NAD27

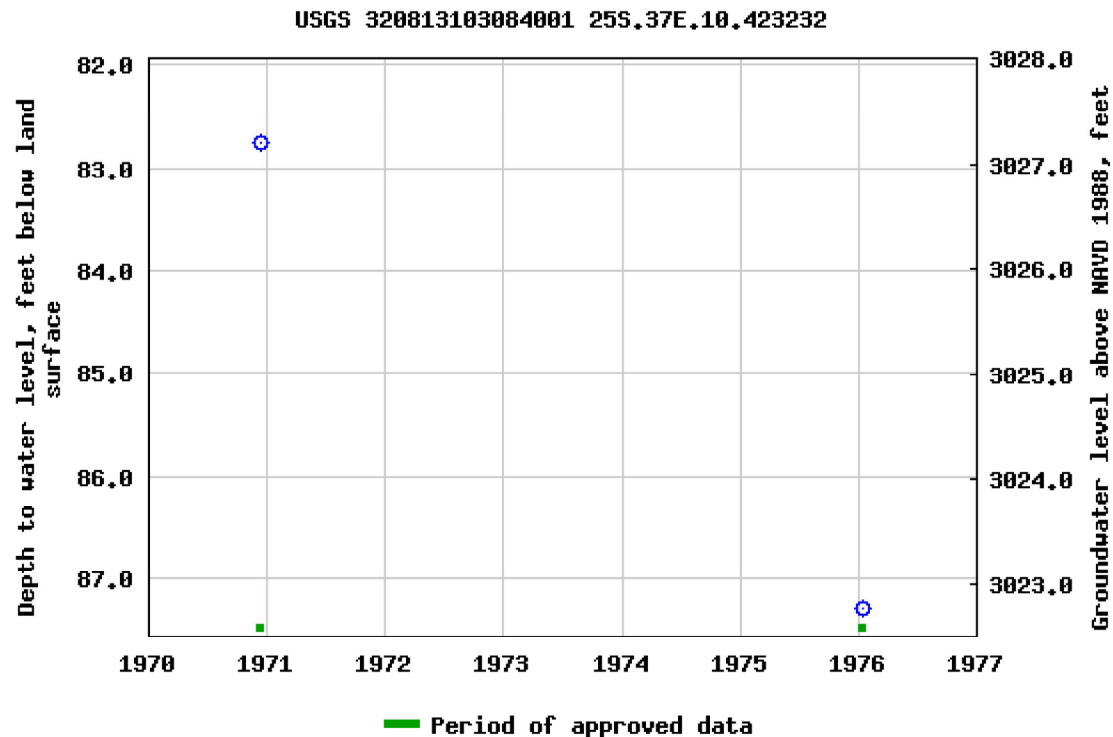
Land-surface elevation 3,110 feet above NAVD88

The depth of the well is 174 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2018-11-07 16:31:34 EST

1.07 0.92 nadww01






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National Water Information System: Web Interface

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Data Category:	Geographic Area:	
Groundwater	United States	GO

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- **UPDATE, 11/6: The USGS continues to make progress on restoring all of its gages. Less than 1 percent of USGS streamgages are still not transmitting due to an issue with the satellite telemetry system that records and transmits data. Once all operational gages are brought back online, the USGS will focus on restoring other equipment that experienced the telemetry issues, including about 85 rapid deployment gages that are used periodically for emergency response. Read [more](#)**
- [Full News](#) 

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 320755103085101

Minimum number of levels = 1

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USGS 320755103085101 25S.37E.15.21210

Available data for this site

Groundwater:	Field measurements	GO
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Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°07'55", Longitude 103°08'51" NAD27

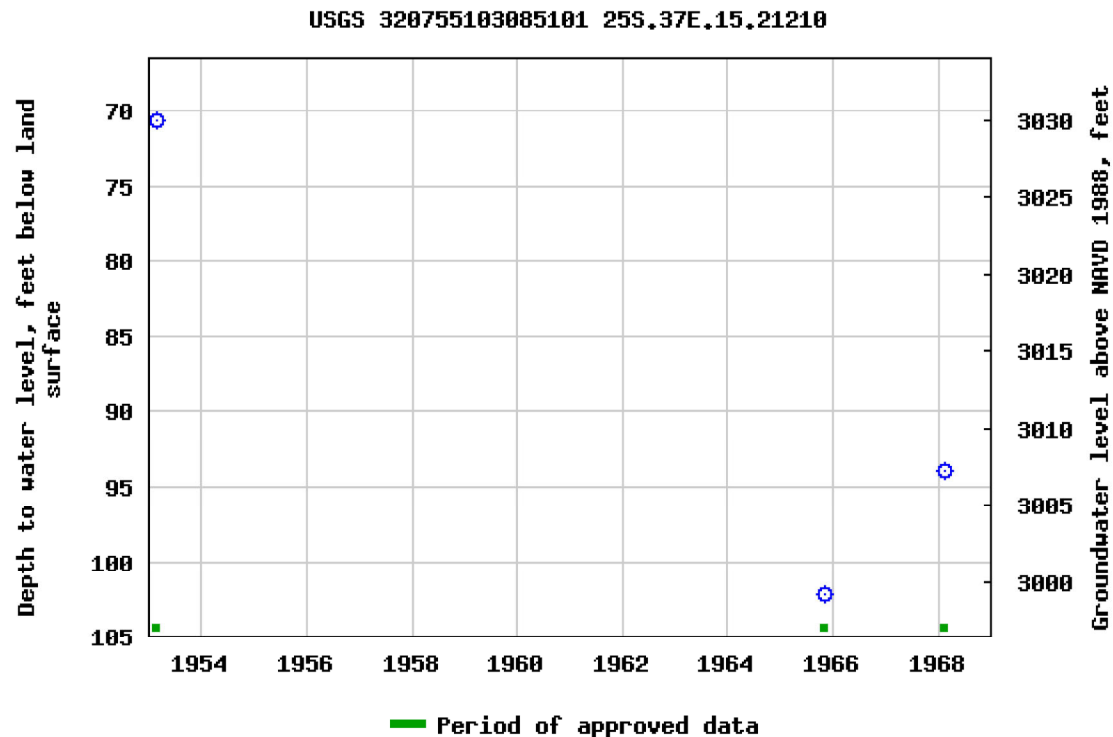
Land-surface elevation 3,101 feet above NAVD88

The depth of the well is 114 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2018-11-07 16:30:51 EST

5.44 1.05 nadww01






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National Water Information System: Web Interface

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Data Category:	Geographic Area:	
Groundwater	United States	GO

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- [Please see news on new formats](#)
- **UPDATE, 11/2: The USGS continues to make progress on restoring all of its gages. As of 3 p.m. Friday, November 2, less than 3 percent of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. The USGS will continue to work through the weekend to bring the streamgages back online. Read [more](#)**
- [Full News](#) 

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 320702103090601

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320702103090601 25S.37E.22.122114

Available data for this site

Groundwater: Field measurements	GO
---------------------------------	----

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°07'02", Longitude 103°09'06" NAD27

Land-surface elevation 3,073 feet above NAVD88

The depth of the well is 84 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

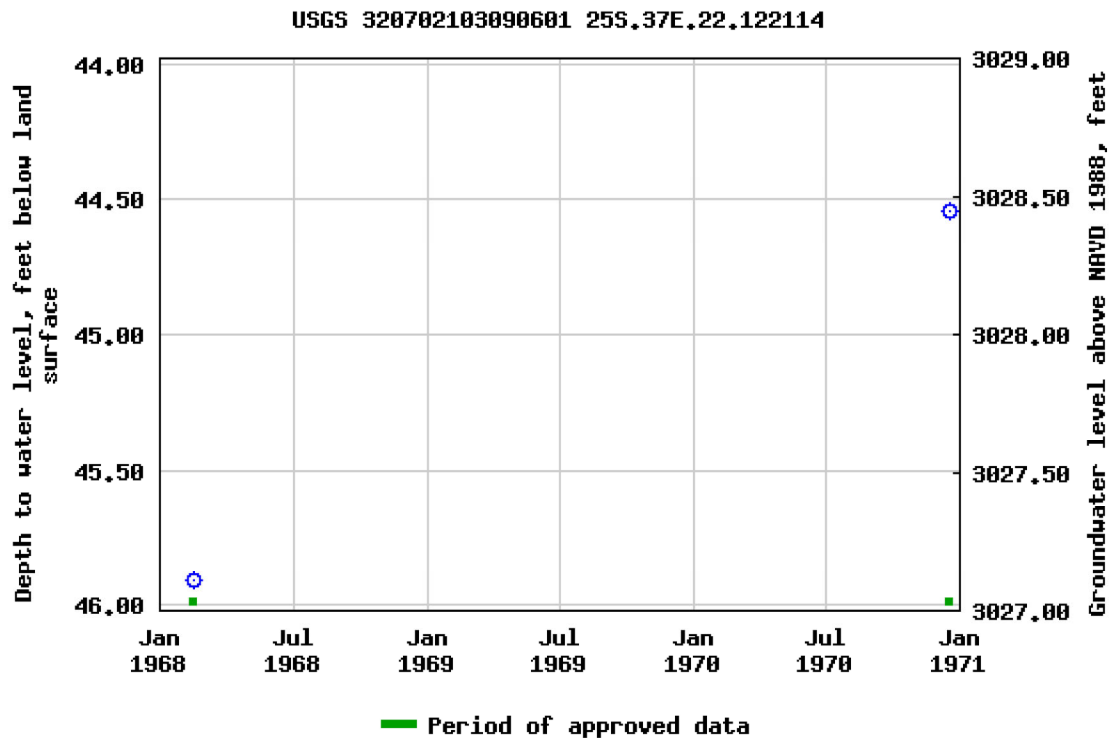
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2018-11-07 12:20:04 EST

1.02 0.91 nadww01

ATTACHMENT #5

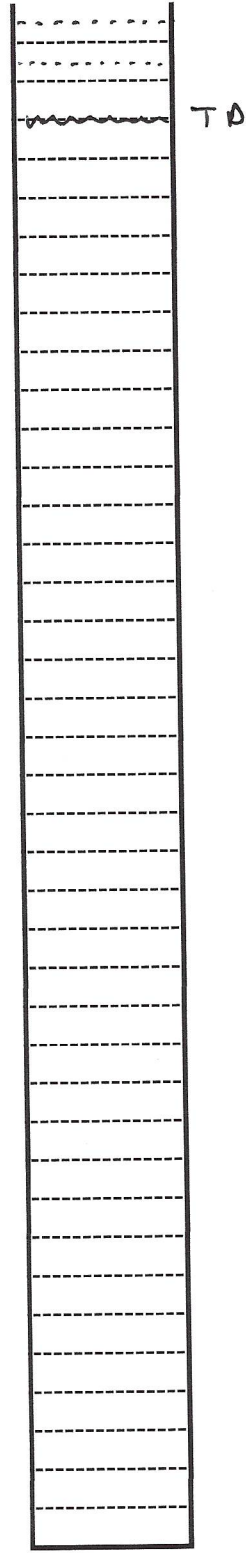
Soil Profile

SOIL PROFILE

Site Name: Pipeline No. 2B2-19-2

Date: 11/0/2018

Description		Depth (ft. bgs)
0-6" Brown Topsoil		1
6-18" Fractured Rock		2
18" Brown Clay w/ Sand		3
• Rock		4
		5
		6
		7
		8
		9
		0
		1
		2
		3
		4
		5
		6
		7
		8
		9
		0
		1
		2
		3
		4
		5
		6
		7
		8
		9
		0
		1
		2
		3
		4
		5
		6
		7
		8
		9
		0



ATTACHMENT #6
Laboratory Analytical Reports



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 23, 2018

DEAN ERICSON

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: 2-2-19-2

Enclosed are the results of analyses for samples received by the laboratory on 03/22/18 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received: 03/22/2018
Reported: 03/23/2018
Project Name: 2-2-19-2
Project Number: 32.12813 (AIRPORT)
Project Location: NOT GIVEN

Sampling Date: 03/22/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: V1 3' (H800829-01)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2018	ND	1.68	84.1	2.00	6.19	
Toluene*	<0.050	0.050	03/23/2018	ND	1.92	96.2	2.00	2.63	
Ethylbenzene*	0.063	0.050	03/23/2018	ND	2.01	100	2.00	1.39	
Total Xylenes*	0.192	0.150	03/23/2018	ND	6.19	103	6.00	2.10	
Total BTX	<0.300	0.300	03/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6720	16.0	03/23/2018	ND	432	108	400	7.14	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2018	ND	181	90.7	200	5.62	
DRO >C10-C28*	189	10.0	03/23/2018	ND	197	98.4	200	5.65	
EXT DRO >C28-C36	26.9	10.0	03/23/2018	ND					

Surrogate: 1-Chlorooctane 86.3 % 41-142

Surrogate: 1-Chlorooctadecane 95.8 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received: 03/22/2018
Reported: 03/23/2018
Project Name: 2-2-19-2
Project Number: 32.12813 (AIRPORT)
Project Location: NOT GIVEN

Sampling Date: 03/22/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: V1 6' (H800829-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2018	ND	1.68	84.1	2.00	6.19	
Toluene*	<0.050	0.050	03/23/2018	ND	1.92	96.2	2.00	2.63	
Ethylbenzene*	0.055	0.050	03/23/2018	ND	2.01	100	2.00	1.39	
Total Xylenes*	0.308	0.150	03/23/2018	ND	6.19	103	6.00	2.10	
Total BTEX	0.363	0.300	03/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1760	16.0	03/23/2018	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2018	ND	181	90.7	200	5.62	
DRO >C10-C28*	86.6	10.0	03/23/2018	ND	197	98.4	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	03/23/2018	ND					

Surrogate: 1-Chlorooctane 81.9 % 41-142

Surrogate: 1-Chlorooctadecane 87.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received: 03/22/2018
Reported: 03/23/2018
Project Name: 2-2-19-2
Project Number: 32.12813 (AIRPORT)
Project Location: NOT GIVEN

Sampling Date: 03/22/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: V1 9' (H800829-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2018	ND	1.68	84.1	2.00	6.19	
Toluene*	<0.050	0.050	03/23/2018	ND	1.92	96.2	2.00	2.63	
Ethylbenzene*	<0.050	0.050	03/23/2018	ND	2.01	100	2.00	1.39	
Total Xylenes*	<0.150	0.150	03/23/2018	ND	6.19	103	6.00	2.10	
Total BTEx	<0.300	0.300	03/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/23/2018	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2018	ND	181	90.7	200	5.62	
DRO >C10-C28*	<10.0	10.0	03/23/2018	ND	197	98.4	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	03/23/2018	ND					

Surrogate: 1-Chlorooctane 74.6 % 41-142

Surrogate: 1-Chlorooctadecane 71.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received: 03/22/2018
Reported: 03/23/2018
Project Name: 2-2-19-2
Project Number: 32.12813 (AIRPORT)
Project Location: NOT GIVEN

Sampling Date: 03/22/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: H1 3' (H800829-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2018	ND	1.68	84.1	2.00	6.19	
Toluene*	<0.050	0.050	03/23/2018	ND	1.92	96.2	2.00	2.63	
Ethylbenzene*	<0.050	0.050	03/23/2018	ND	2.01	100	2.00	1.39	
Total Xylenes*	<0.150	0.150	03/23/2018	ND	6.19	103	6.00	2.10	
Total BTEx	<0.300	0.300	03/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/23/2018	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2018	ND	181	90.7	200	5.62	
DRO >C10-C28*	<10.0	10.0	03/23/2018	ND	197	98.4	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	03/23/2018	ND					

Surrogate: 1-Chlorooctane 83.1 % 41-142

Surrogate: 1-Chlorooctadecane 76.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received: 03/22/2018
Reported: 03/23/2018
Project Name: 2-2-19-2
Project Number: 32.12813 (AIRPORT)
Project Location: NOT GIVEN

Sampling Date: 03/22/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: H1 6' (H800829-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2018	ND	1.68	84.1	2.00	6.19	
Toluene*	<0.050	0.050	03/23/2018	ND	1.92	96.2	2.00	2.63	
Ethylbenzene*	<0.050	0.050	03/23/2018	ND	2.01	100	2.00	1.39	
Total Xylenes*	<0.150	0.150	03/23/2018	ND	6.19	103	6.00	2.10	
Total BTEx	<0.300	0.300	03/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/23/2018	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2018	ND	181	90.7	200	5.62	
DRO >C10-C28*	<10.0	10.0	03/23/2018	ND	197	98.4	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	03/23/2018	ND					

Surrogate: 1-Chlorooctane 86.2 % 41-142

Surrogate: 1-Chlorooctadecane 81.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received: 03/22/2018
Reported: 03/23/2018
Project Name: 2-2-19-2
Project Number: 32.12813 (AIRPORT)
Project Location: NOT GIVEN

Sampling Date: 03/22/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: H2 3' (H800829-06)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.177	0.100	03/23/2018	ND	1.68	84.1	2.00	6.19	
Toluene*	3.84	0.100	03/23/2018	ND	1.92	96.2	2.00	2.63	
Ethylbenzene*	6.27	0.100	03/23/2018	ND	2.01	100	2.00	1.39	
Total Xylenes*	21.6	0.300	03/23/2018	ND	6.19	103	6.00	2.10	
Total BTX	31.8	0.600	03/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 143 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	03/23/2018	ND	432	108	400	7.14	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	173	10.0	03/23/2018	ND	181	90.7	200	5.62	
DRO >C10-C28*	423	10.0	03/23/2018	ND	197	98.4	200	5.65	
EXT DRO >C28-C36	25.6	10.0	03/23/2018	ND					

Surrogate: 1-Chlorooctane 95.2 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Analytical Results For:

 ENERGY TRANSFER
 DEAN ERICSON
 P. O. BOX 1226
 JAL NM, 88252
 Fax To:

 Received: 03/22/2018
 Reported: 03/23/2018
 Project Name: 2-2-19-2
 Project Number: 32.12813 (AIRPORT)
 Project Location: NOT GIVEN

 Sampling Date: 03/22/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: H2 6' (H800829-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2018	ND	1.68	84.1	2.00	6.19	
Toluene*	<0.050	0.050	03/23/2018	ND	1.92	96.2	2.00	2.63	
Ethylbenzene*	<0.050	0.050	03/23/2018	ND	2.01	100	2.00	1.39	
Total Xylenes*	<0.150	0.150	03/23/2018	ND	6.19	103	6.00	2.10	
Total BTEx	<0.300	0.300	03/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/23/2018	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2018	ND	179	89.5	200	7.42	
DRO >C10-C28*	38.7	10.0	03/23/2018	ND	196	97.9	200	8.60	
EXT DRO >C28-C36	<10.0	10.0	03/23/2018	ND					

Surrogate: 1-Chlorooctane 87.7 % 41-142

Surrogate: 1-Chlorooctadecane 91.7 % 37.6-147

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Analytical Results For:

ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received: 03/22/2018
Reported: 03/23/2018
Project Name: 2-2-19-2
Project Number: 32.12813 (AIRPORT)
Project Location: NOT GIVEN

Sampling Date: 03/22/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: H2 7' (H800829-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2018	ND	1.68	84.1	2.00	6.19	
Toluene*	0.589	0.050	03/23/2018	ND	1.92	96.2	2.00	2.63	
Ethylbenzene*	1.07	0.050	03/23/2018	ND	2.01	100	2.00	1.39	
Total Xylenes*	3.93	0.150	03/23/2018	ND	6.19	103	6.00	2.10	
Total BTEX	5.59	0.300	03/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	03/23/2018	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	46.2	10.0	03/23/2018	ND	179	89.5	200	7.42	
DRO >C10-C28*	168	10.0	03/23/2018	ND	196	97.9	200	8.60	
EXT DRO >C28-C36	17.2	10.0	03/23/2018	ND					

Surrogate: 1-Chlorooctane 82.2 % 41-142

Surrogate: 1-Chlorooctadecane 91.0 % 37.6-147

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Analytical Results For:

ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received: 03/22/2018
Reported: 03/23/2018
Project Name: 2-2-19-2
Project Number: 32.12813 (AIRPORT)
Project Location: NOT GIVEN

Sampling Date: 03/22/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: H3 3' (H800829-09)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2018	ND	1.68	84.1	2.00	6.19	
Toluene*	<0.050	0.050	03/23/2018	ND	1.92	96.2	2.00	2.63	
Ethylbenzene*	<0.050	0.050	03/23/2018	ND	2.01	100	2.00	1.39	
Total Xylenes*	<0.150	0.150	03/23/2018	ND	6.19	103	6.00	2.10	
Total BTEx	<0.300	0.300	03/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/23/2018	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2018	ND	179	89.5	200	7.42	
DRO >C10-C28*	32.4	10.0	03/23/2018	ND	196	97.9	200	8.60	
EXT DRO >C28-C36	<10.0	10.0	03/23/2018	ND					

Surrogate: 1-Chlorooctane 79.5 % 41-142

Surrogate: 1-Chlorooctadecane 81.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received: 03/22/2018
Reported: 03/23/2018
Project Name: 2-2-19-2
Project Number: 32.12813 (AIRPORT)
Project Location: NOT GIVEN

Sampling Date: 03/22/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: H3 4' (H800829-10)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2018	ND	1.68	84.1	2.00	6.19	
Toluene*	1.54	0.050	03/23/2018	ND	1.92	96.2	2.00	2.63	
Ethylbenzene*	3.36	0.050	03/23/2018	ND	2.01	100	2.00	1.39	
Total Xylenes*	12.7	0.150	03/23/2018	ND	6.19	103	6.00	2.10	
Total BTX	17.6	0.300	03/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/23/2018	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	102	10.0	03/23/2018	ND	179	89.5	200	7.42	
DRO >C10-C28*	351	10.0	03/23/2018	ND	196	97.9	200	8.60	
EXT DRO >C28-C36	54.5	10.0	03/23/2018	ND					

Surrogate: 1-Chlorooctane 84.0 % 41-142

Surrogate: 1-Chlorooctadecane 92.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received: 03/22/2018
Reported: 03/23/2018
Project Name: 2-2-19-2
Project Number: 32.12813 (AIRPORT)
Project Location: NOT GIVEN

Sampling Date: 03/22/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: H4 3' (H800829-11)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2018	ND	1.87	93.4	2.00	15.0	
Toluene*	<0.050	0.050	03/23/2018	ND	2.12	106	2.00	15.6	
Ethylbenzene*	<0.050	0.050	03/23/2018	ND	2.19	110	2.00	14.8	
Total Xylenes*	<0.150	0.150	03/23/2018	ND	6.50	108	6.00	16.1	
Total BTX	<0.300	0.300	03/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/23/2018	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2018	ND	179	89.5	200	7.42	
DRO >C10-C28*	<10.0	10.0	03/23/2018	ND	196	97.9	200	8.60	
EXT DRO >C28-C36	<10.0	10.0	03/23/2018	ND					

Surrogate: 1-Chlorooctane 79.3 % 41-142

Surrogate: 1-Chlorooctadecane 79.5 % 37.6-147

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Analytical Results For:

ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received: 03/22/2018
Reported: 03/23/2018
Project Name: 2-2-19-2
Project Number: 32.12813 (AIRPORT)
Project Location: NOT GIVEN

Sampling Date: 03/22/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: H4 6' (H800829-12)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2018	ND	1.87	93.4	2.00	15.0	
Toluene*	<0.050	0.050	03/23/2018	ND	2.12	106	2.00	15.6	
Ethylbenzene*	<0.050	0.050	03/23/2018	ND	2.19	110	2.00	14.8	
Total Xylenes*	<0.150	0.150	03/23/2018	ND	6.50	108	6.00	16.1	
Total BTEX	<0.300	0.300	03/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/23/2018	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2018	ND	179	89.5	200	7.42	
DRO >C10-C28*	<10.0	10.0	03/23/2018	ND	196	97.9	200	8.60	
EXT DRO >C28-C36	<10.0	10.0	03/23/2018	ND					

Surrogate: 1-Chlorooctane 85.1 % 41-142

Surrogate: 1-Chlorooctadecane 86.7 % 37.6-147

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Analytical Results For:

ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received: 03/22/2018
Reported: 03/23/2018
Project Name: 2-2-19-2
Project Number: 32.12813 (AIRPORT)
Project Location: NOT GIVEN

Sampling Date: 03/22/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: H2.1 3' (H800829-13)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2018	ND	1.87	93.4	2.00	15.0	
Toluene*	0.209	0.050	03/23/2018	ND	2.12	106	2.00	15.6	
Ethylbenzene*	0.452	0.050	03/23/2018	ND	2.19	110	2.00	14.8	
Total Xylenes*	1.56	0.150	03/23/2018	ND	6.50	108	6.00	16.1	
Total BTEx	2.23	0.300	03/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/23/2018	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	24.5	10.0	03/23/2018	ND	179	89.5	200	7.42	
DRO >C10-C28*	172	10.0	03/23/2018	ND	196	97.9	200	8.60	
EXT DRO >C28-C36	22.5	10.0	03/23/2018	ND					

Surrogate: 1-Chlorooctane 85.2 % 41-142

Surrogate: 1-Chlorooctadecane 94.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received: 03/22/2018
Reported: 03/23/2018
Project Name: 2-2-19-2
Project Number: 32.12813 (AIRPORT)
Project Location: NOT GIVEN

Sampling Date: 03/22/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: H2.1 6' (H800829-14)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2018	ND	1.87	93.4	2.00	15.0	
Toluene*	0.508	0.050	03/23/2018	ND	2.12	106	2.00	15.6	
Ethylbenzene*	2.02	0.050	03/23/2018	ND	2.19	110	2.00	14.8	
Total Xylenes*	7.02	0.150	03/23/2018	ND	6.50	108	6.00	16.1	
Total BTX	9.55	0.300	03/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/23/2018	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	86.7	10.0	03/23/2018	ND	179	89.5	200	7.42	
DRO >C10-C28*	463	10.0	03/23/2018	ND	196	97.9	200	8.60	
EXT DRO >C28-C36	78.7	10.0	03/23/2018	ND					

Surrogate: 1-Chlorooctane 89.4 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received: 03/22/2018
Reported: 03/23/2018
Project Name: 2-2-19-2
Project Number: 32.12813 (AIRPORT)
Project Location: NOT GIVEN

Sampling Date: 03/22/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: H2.2 3' (H800829-15)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2018	ND	1.87	93.4	2.00	15.0	
Toluene*	<0.050	0.050	03/23/2018	ND	2.12	106	2.00	15.6	
Ethylbenzene*	<0.050	0.050	03/23/2018	ND	2.19	110	2.00	14.8	
Total Xylenes*	<0.150	0.150	03/23/2018	ND	6.50	108	6.00	16.1	
Total BTX	<0.300	0.300	03/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/23/2018	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2018	ND	179	89.5	200	7.42	
DRO >C10-C28*	<10.0	10.0	03/23/2018	ND	196	97.9	200	8.60	
EXT DRO >C28-C36	<10.0	10.0	03/23/2018	ND					

Surrogate: 1-Chlorooctane 85.9 % 41-142

Surrogate: 1-Chlorooctadecane 87.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:

Received: 03/22/2018
Reported: 03/23/2018
Project Name: 2-2-19-2
Project Number: 32.12813 (AIRPORT)
Project Location: NOT GIVEN

Sampling Date: 03/22/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: H2.2 6' (H800829-16)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2018	ND	1.87	93.4	2.00	15.0	
Toluene*	<0.050	0.050	03/23/2018	ND	2.12	106	2.00	15.6	
Ethylbenzene*	<0.050	0.050	03/23/2018	ND	2.19	110	2.00	14.8	
Total Xylenes*	<0.150	0.150	03/23/2018	ND	6.50	108	6.00	16.1	
Total BTX	<0.300	0.300	03/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/23/2018	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2018	ND	179	89.5	200	7.42	
DRO >C10-C28*	<10.0	10.0	03/23/2018	ND	196	97.9	200	8.60	
EXT DRO >C28-C36	<10.0	10.0	03/23/2018	ND					

Surrogate: 1-Chlorooctane 86.1 % 41-142

Surrogate: 1-Chlorooctadecane 87.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

1

(575) 393-2326 FAX (575) 393-2476

(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: ETC

Project Manager: Drew Enns

Address:

City: State: Zip:

Phone #: Fax #:

Project #: Project Owner:

Project Name: Z-2-19-2

Project Location: 32.12813 (Air Port)

Sample Name: J.R.B.

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H800926

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE TIME

3/24/18 9:10 AM

9:10 AM

9:16 AM

9:22 AM

9:31 AM

9:44 AM

9:55 AM

10:04 AM

10:20 AM

10:31 AM

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Relinquished By:

Date: 3/22/18

Received By:

Date: 3/22/18

Time: 2:25

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

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Relinquished By:

02 of 02 aged

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: <u>ETC</u>		P.O. #:																			
Project Manager: <u>Deann E. Gibson</u>		Company:																			
Address:		Attn:																			
City:	State:	Zip:																			
Phone #:	Fax #:	City:	Address:																		
Project #:	Project Owner:	State:	Zip:																		
Project Name: <u>2-B-2-19.2 (Air Port)</u>		Phone #:																			
Project Location: <u>32.12813</u>		Fax #:																			
Sampler Name: <u>Theresa E. Gibson</u>		PRESERV.	SAMPLING																		
FOR LAB USE ONLY																					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	B Tex	TPH EXT	CL				
<u>H800829</u>	<u>11</u>	<u>H4</u>	<u>3</u>										<u>3/22/18</u>	<u>11:01 AM</u>							
	<u>12</u>	<u>H4</u>	<u>6</u>											<u>11:21 AM</u>							
	<u>13</u>	<u>H2.1</u>	<u>3</u>											<u>11:29 AM</u>							
	<u>14</u>	<u>H2.1</u>	<u>6</u>											<u>11:57 AM</u>							
	<u>15</u>	<u>H2.2</u>	<u>3</u>											<u>11:57 AM</u>							
	<u>16</u>	<u>H2.2</u>	<u>6</u>											<u>11:57 AM</u>							

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Relinquished By: Chad Hendon
Date: 3/22/18
Time: 2:25
Received By: NM Rush
Date: 3/22/18
Time: 2:25

Relinquished By: [Signature]

Date: 3/22/18
Time: 2:25

Received By: Chad Hendon

Sample Condition
Cool ☒ Intact ☒
Yes ☒ No ☐

CHECKED BY: [Signature]
(Initials)

Delivered By: (Circle One) 2.80/2.75

Sampler - UPS - Bus - Other: 2.80/2.75

+ Cardinal cannot accept verbal changes. Please fax changes to (575) 393-2476.



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 09, 2018

DEAN ERICSON

ENERGY TRANSFER

P. O. BOX 1226

JAL, NM 88252

RE: PIPELINE # 2B2-19-2

Enclosed are the results of analyses for samples received by the laboratory on 11/08/18 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:ENERGY TRANSFER
DEAN ERICSON
P. O. BOX 1226
JAL NM, 88252
Fax To:Received: 11/08/2018
Reported: 11/09/2018
Project Name: PIPELINE # 2B2-19-2
Project Number: NOT GIVEN
Project Location: EUNCIE, NMSampling Date: 11/08/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson**Sample ID: H1.1 0.5' (H803239-01)**

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	208	104	200	7.06	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	209	105	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					
Surrogate: 1-Chlorooctane	92.1 %	41-142							
Surrogate: 1-Chlorooctadecane	83.6 %	37.6-147							

Sample ID: H1.1 1.5' (H803239-02)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	208	104	200	7.06	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	209	105	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					
Surrogate: 1-Chlorooctane	92.6 %	41-142							
Surrogate: 1-Chlorooctadecane	81.7 %	37.6-147							

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

+ Cardinal cannot accept verbal change. Please for written change to 15751 202-22298

ATTACHMENT #7
Photographic Log

PHOTOGRAPHIC LOG



Figure 1 View of surface staining from the initial release, facing North.



Figure 2 View of surface staining from the initial release, facing Northwest.

PHOTOGRAPHIC LOG



Figure 3 View of the affected area, facing Northwest.



Figure 4 View of the affected area, facing West.

ATTACHMENT #8
Release Notification (FORM C-141)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

HOBBES OCD

MAR 05 2018

RECEIVED

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

Initial only

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Energy Transfer Company	Contact: Carolyn J. Blackaller
Address: 600 N. Marienfeld Street, Suite 700	Telephone No.: (817) 302-9766
Facility Name: Pipeline No. 2B2-19-2	Facility Type: Pipeline

Surface Owner	Fee	Mineral Owner	Federal	API No.
---------------	-----	---------------	---------	---------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	15	25S	37E					

Latitude 32.12813 Longitude 103.15752 NAD83

NATURE OF RELEASE

Type of Release: Natural Gas	Volume of Release: 736.250 Mcf	Volume Recovered: 0
Source of Release: Corrosion of pipeline	Date and Hour of Occurrence: 2/28/2018 17:00	Date and Hour of Discovery: 2/28/2018 15:07
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Olivia Yu, Environmental Specialist, NMOCD District I	
By Whom? Carolyn J. Blackaller, Sr. Environmental Specialist	Date and Hour: 3/1/2018 at 12:35pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. Not Applicable.	

If a Watercourse was Impacted, Describe Fully.*
Not Applicable.

RECEIVED

By Olivia Yu at 11:17 am, Mar 05, 2018

Describe Cause of Problem and Remedial Action Taken.*

The gas release/leak was caused by a 5-inch hole in the pipeline, which was due to corrosion of the pipe. A clamp was installed on the pipe in order to stop the leak. No further remedial action is necessary.

Describe Area Affected and Cleanup Action Taken.*

Not Applicable.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Carolyn J. Blackaller		OIL CONSERVATION DIVISION	
Printed Name: Carolyn J. Blackaller		Approved by Environmental Specialist: <i>sy</i>	
Title: Sr. Environmental Specialist		Approval Date: 3/5/2018	Expiration Date:
E-mail Address: carolyn.blackaller@energytransfer.com		Conditions of Approval: see attached directive	Attached <input checked="" type="checkbox"/>
Date: 3/1/2018	Phone: (817) 302-9766		

* Attach Additional Sheets If Necessary

fOY1806442080

1RP-4984

nOY1806442187

pOY1806442421



ENERGY TRANSFER

March 1, 2018

State of New Mexico Oil Conservation Division, District I
1625 N. French Dr.
Hobbs, NM 88240

RE: **Form C-141 - Release Notification and Corrective Action**
 Energy Transfer Company
 Pipeline No. 2B2-19-2

RECEIVED
MAR 05 2018
HOBBS OCD

To Whom It May Concern,

In accordance with 19.15.29 NMAC, please find enclosed Form C-141 – Release Notification and Corrective Action for the Energy Transfer Company Pipeline No. 2B2-19-2 gas leak that occurred on 2/28/2018. Should you have any questions or require additional information, please do not hesitate to contact me at (817) 302-9766 or at carolyn.blackaller@energytransfer.com

Sincerely,

Carolyn J. Blackaller
Sr. Environmental Specialist

ATTACHMENT #9

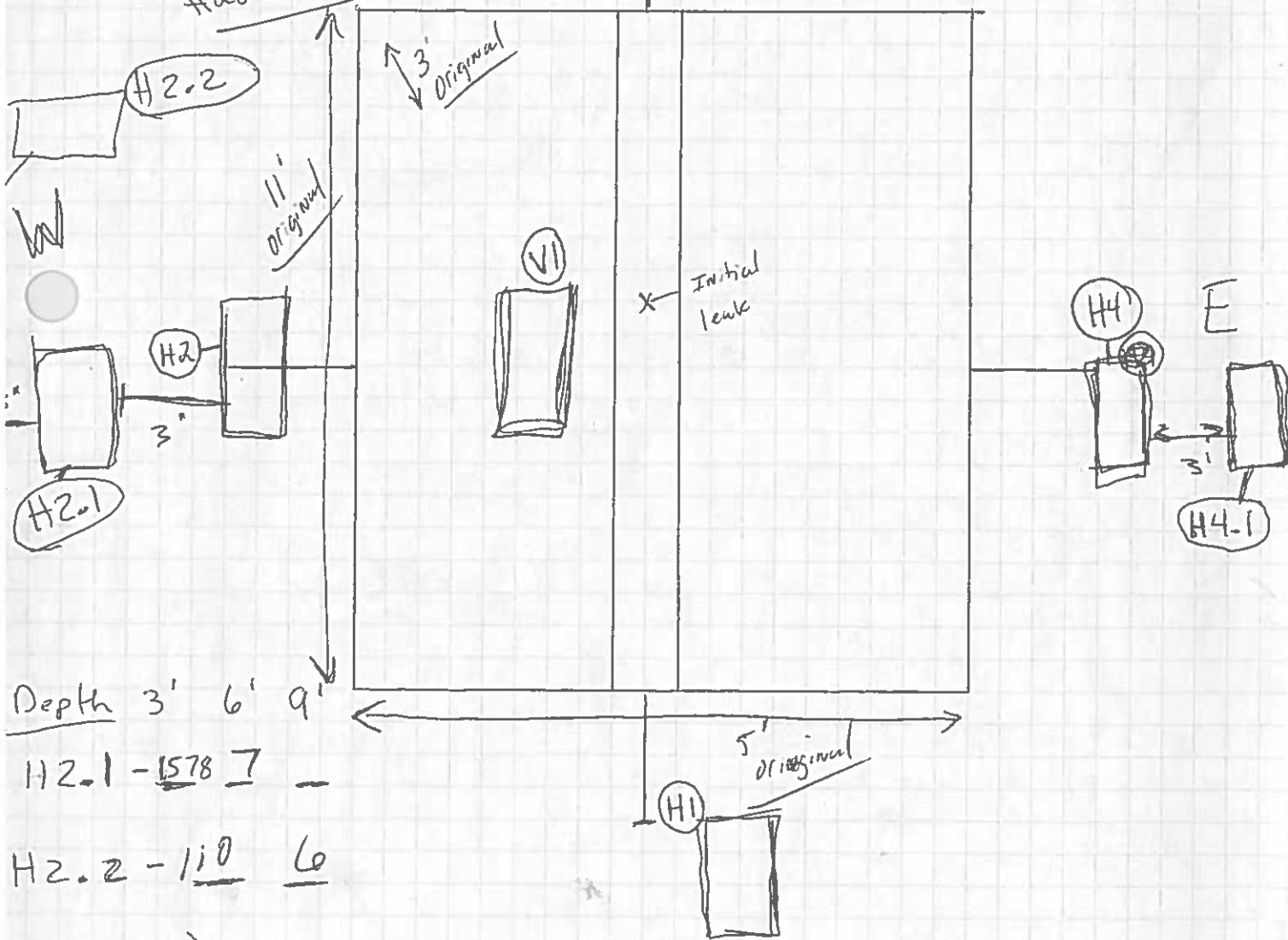
Field Data

Depth -	3'	6'	9'	N
✓V1 -	5	191	42.8 ✓	
✓H1 -	51	7 ✓		
H2 -	3320	38	3503.7A ✓	
H3 -	522	335-4ft ✓		
✓H4 -	34	99 ✓		

2-B-2-19-2

32.12813
- 103, 15752
(updated determination)
3-22-18

Rock + Caliche
Had a impact on depth



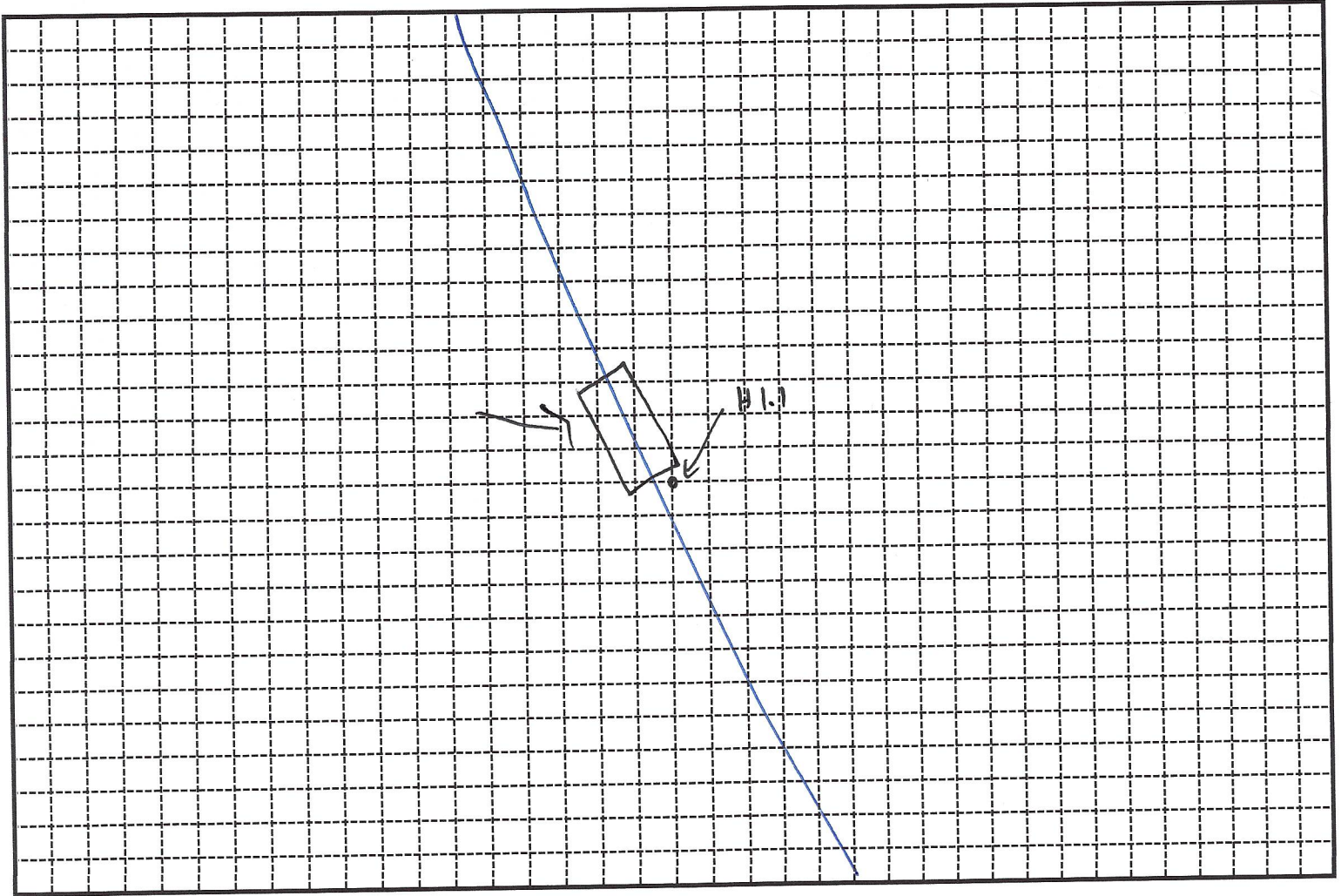
Depth 3' 6' 9'
H2.1 - 1578 7
H2.2 - 110 6

S

FIELD NOTES

Site Name: Pipeline No 2B2-1a-2

Date: 11/8/2018



Excavation Still Open
 270 yds on-site
 No evidences of Impacts.

Field ID	Odor/PID	Chloride
H1.100'	None	<120
H1.106"	None	<120
H1.101	None	<120
H1.101.5'	None	<120

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride