



Electronic Correspondence

August 21, 2017

Ms. Olivia Yu
Environmental Specialist, District I
Oil Conservation Division, EMNRD
Olivia.yu@state.nm.us

APPROVED

By Olivia Yu at 2:10 pm, Sep 22, 2017

**NMOCD approves of the proposed
delineation plan for 1RP-4687.**

Mr. Randall Pair
Environmental Protection Specialist – Realty Compliance
Bureau of Land Management, US Dept of the Interior
rpair@blm.gov

Re: Delineation Work Plan – 1RP-4687
Devon Biliken 7 Fed 1H
Legal: Unit M, Sec 12, T26S R34E, Lea County, NM
Latitude/Longitude: 32.050688/ -103.429337
Etech Proj. Number: 817-8169-000
Depth to Groundwater: 150-175feet - Chevron/Texaco Lea County Depth to Groundwater Map
- USGS National Water Information System: Web Interface

Release Type: Produced Water
Contaminants of Concern (COCs)

	Threshold Levels
TPH	5000 mg/kg
Benzene	10 mg/kg
BTEX	50 mg/kg
Chlorides	600 mg/kg

Dear Olivia:

Etech Environmental & Safety Solutions, Inc. (Etech) is submitting the following delineation work plan on the aforementioned site for your review and approval.

Background

On April 20, 2017, while transferring produced water from a frac pond to the location, the Booster pump #2 over pressured and the lay flat hose ruptured. A 2 inch hole developed and released produced water on the ground on the pipeline right of way. The pump was shut down and the hose was repaired. Approximately one hundred fifty (150) barrels (bbls) of produced water were released. Approximately one hundred (100) bbls of fluid were recovered and disposed.

An assessment and initial sampling were conducted of the impacted area on April 24, 2017 by Etech. It was determined that the release was on the pipeline right of way in the pasture. The release impacted an area of approximately 8,933 square feet.

Soil samples were collected by hand auger from four (4) locations of the impacted area (See Annotated Aerial Imagery). Hand auger refusal occurred at depths of 2.5 feet to three (3) feet below ground surface (bgs) where a hard layer of competent caliche was encountered. The soil samples were submitted to Permian Basin Environmental Laboratory (PBELAB) and analyzed for chlorides, TPH, benzene, and BTEX. The laboratory results determined that the chloride levels ranged from 602 mg/kg to 10,000 mg/kg. All TPH, BTEX and benzene levels were no analytical detection. (See Annotated Aerial Imagery and Table 1 Summary of Delineation Sampling Analytical Results below).

On May 19, 2017, Etech returned to the site to evaluate the caliche layer for further delineation purposes. The caliche was found to be hard, not easily broken, at least one (1) foot thick, and continuous across the site.

Table 1
Summary of Delineation Sampling Analytical Results

Sample ID	Depth	Date	C6-C12	>C12- C28	>C28- C35	Total TPH (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)
Auger Hole 1	1'	4/24/17	ND	ND	ND	ND	ND	ND	3,700
Auger Hole 1	2'	4/24/17	ND	ND	ND	ND	ND	ND	5,930
Auger Hole 1	3'	4/24/17	ND	ND	ND	ND	ND	ND	602
Auger Hole 2	1'	4/24/17	ND	ND	ND	ND	ND	ND	5,050
Auger Hole 2	2'	4/24/17	ND	ND	ND	ND	ND	ND	2,400
Auger Hole 2	2.5'	4/24/17	ND	ND	ND	ND	ND	ND	1,690
Auger Hole 3	1'	4/24/17	ND	ND	ND	ND	ND	ND	10,000
Auger Hole 3	2'	4/24/17	ND	ND	ND	ND	ND	ND	8,710
Auger Hole 3	3'	4/24/17	ND	ND	ND	ND	ND	ND	3,770
Auger Hole 4	1'	4/24/17	ND	ND	ND	ND	ND	ND	8,380
Auger Hole 4	2'	4/24/17	ND	ND	ND	ND	ND	ND	6,380
Auger Hole 4	2.5'	4/24/17	ND	ND	ND	ND	ND	ND	5,000

ND denotes no analytical detection.

Bold denotes analytical results above regulatory guidelines

Depth to Groundwater Data

Depth to groundwater data was obtained from the Chevron/Texaco Lea County Depth to Groundwater Map, the USGS National Water Information System: Web Interface, and the Texas Water Development Board (TWDB) Groundwater Database (GWDB). The New Mexico Office of the State Engineer (OSE) Hydrology Bureau collaborates with the U. S. Geological Survey (USGS) to collect, store and make available measurements of water levels in over 2,200 wells across the state of New Mexico. Therefore, OSE groundwater data is part of the USGS National Water Information System database.

The USGS and TWDB data correlates well with the Chevron/Texaco Lea County Depth to Groundwater Map data. The Biliken 7 Fed 1H location lies between the 150 foot and 175 foot depth to ground water contour lines as depicted on the Chevron/Texaco Lea County Depth to Groundwater Map. The distribution of water depths on the map and from the USGS and TWDB databases support this observation.

Attachment D contains an image of the pertinent area of the Chevron/ Texaco Lea County Depth to Groundwater Map with the location of the Biliken 7 Fed 1H denoted, a map displaying the location of the Biliken 7 Fed 1H and surrounding USGS and TWDB data points, and the data files for the USGS and TWDB data points displayed on the map.

Scope of Work

1. Further delineation of the site will be performed by drilling rig at each of the original auger hole locations.
2. If acceptable at the Auger Hole 1 soil sample location, the first soil sample collected by drilling rig will be collected at a depth of eight (8) feet bgs as the chloride concentration at three (3) feet bgs was slightly over the regulatory threshold of 600 mg/kg at 602 mg/kg.
3. At the Auger Hole 2 through Auger Hole 4 locations, delineation will begin at a depth of four (4) feet bgs and continue to be delineated at one (1) foot intervals until chloride levels are found to be below the regulatory threshold level of 600 mg/kg in each boring by field testing.
4. Once chloride levels are observed below the 600 mg/kg regulatory threshold level in a sample, the sample will be containerized and submitted for laboratory analysis for chlorides.
5. Following the first observation of chloride levels below the regulatory threshold of 600 mg/kg in a soil sample, another soil sample will be collected at a depth five (5) feet below the sample displaying a chloride level below 600 mg/kg and will be field tested for chlorides.
6. If the field test displays that the chloride levels are below the regulatory threshold of 600 mg/kg in the soil sample, then the soil sample will be containerized and submitted for laboratory analysis for chloride concentrations.
7. If the field test displays that the chloride levels are above the regulatory threshold of 600 mg/kg in the soil sample, then delineation will begin again at one (1) foot intervals.
8. Delineation will only be completed when all soil sample locations display chloride levels below the regulatory threshold of 600 mg/kg in two consecutive soil samples separated in depth by five (5) feet.
9. Impacted material generated by drilling will be segregated on plastic and sampled. If chloride concentrations are above regulatory thresholds, the material will be hauled for disposal to a BLM and NMOCD approved disposal facility.
10. Upon completion of the delineation, the borings will be properly plugged and abandoned.

Notifications and Special Conditions

1. The BLM and OCD will be notified prior to the commencement of on-site operations.
2. The BLM and OCD will be notified prior to each sampling event to allow the opportunity to witness the sampling events. Splits will be made available if requested.
3. A report documenting the results of the delineation activities will be submitted to the BLM and OCD.

Thank you for your assistance on this matter. Should you have any questions, require additional information, or have any additional stipulations for this site, please contact me at (432) 563-2200 (office) or via email at geoff@etechenv.com.

Respectfully:

A handwritten signature in black ink, reading "Geoff Leking". The signature is written in a cursive, flowing style.

Geoff Leking,
Project Manager
Etech Environmental & Safety Solutions, Inc.

Attachment A
Initial 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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Devon Energy Production Co LP (6137)	Contact: Stephen Richards, Devon Water Foreman	
Address: PO Box 250 Artesia, NM 88211	Telephone No. 575-252-3717	
Facility Name: Billiken 7 Fed 1H	Facility Type : Oil Well	
Surface Owner: Federal	Mineral Owner: Federal	API No. 30-025-42687

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	12	26S	34E	30	South	443	East	Lea

Latitude: **32.050688 N** Longitude: **-103.429337 W**

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 150 barrels	Volume Recovered: 100 barrels
Source of Release: Lay Flat Line	Date and Hour of Occurrence 4/20/17, 2:10 PM	Date and Hour of Discovery 4/20/17, 2:10 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? BLM: Shelly Tucker OCD: Olivia Yu	
By Whom? Brett Fulks, EHS Professional	Date and Hour: BLM: 4/20/17, 7:35 PM OCD: 4/20/17, 7:30 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.* **N/A**

Describe Cause of Problem and Remedial Action Taken.*

While transferring produced water from a frac pond to the location, the Booster pump #2 over pressured and the lay flat hose ruptured. A 2 inch hole developed and released produced water on the ground. The pump was shut down and the hose was repaired.

Describe Area Affected and Cleanup Action Taken.*

The spill area affected is approximately 40' x 20' running East and West beginning about 100 feet West of the Ragin Cajun 12 Fed #3H wellpad. A central location of the spill is Lat - 32.050688 N, Long - -103.429337 W and is approximately 0.85 miles Southwest from the Billiken 7 Fed #1H wellpad. An estimated 150 barrels of treated produced water was spilled, a vacuum truck was dispatched, and 100 barrels was recovered. A remediation contractor will be contacted to assist with the delineation and remediation efforts.

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: <i>Denise A. Menoud</i>	OIL CONSERVATION DIVISION	
Printed Name: Denise Menoud	Approved by Environmental Specialist: <i>ay</i>	
Title: Field Admin Support	Approval Date: 4/28/2017	Expiration Date:
E-mail Address: Denise.Menoud@dmn.com	Conditions of Approval: see attached directive	Attached <input checked="" type="checkbox"/>
Date: 4/25/2017 Phone: 575-746-5544		

* Attach Additional Sheets If Necessary

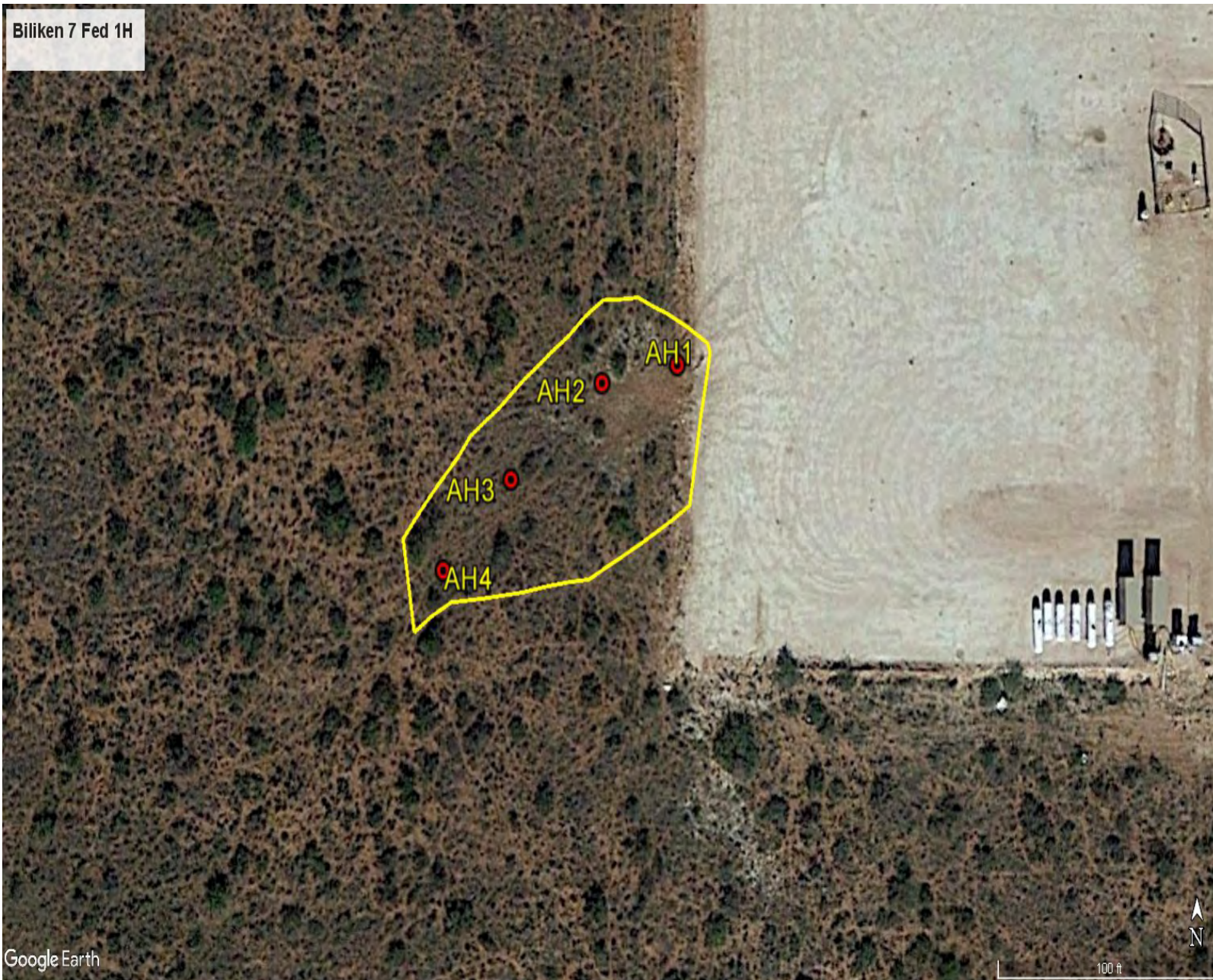
1RP-4687

nOY1711843020

pOY1711843402

Attachment B
Annotated Aerial Imagery

Biliken 7 Fed 1H



Assessment Results		
Sample I.D.	Depth (ft.)	Chlorides (mg/kg)
AH 1	1	3,700
AH 1	2	5,930
AH 1	3*	602
AH 2	1	5,050
AH 2	2	2,400
AH 2	2.5*	1,690
AH 3	1	10,000
AH 3	2	8,710
AH 3	3*	3,770
AH 4	1	8,380
AH 4	2	6,380
AH 4	2.5*	5,000

Values are laboratory results
* Depth of hand auger refusal

Attachment C
Photograph Log



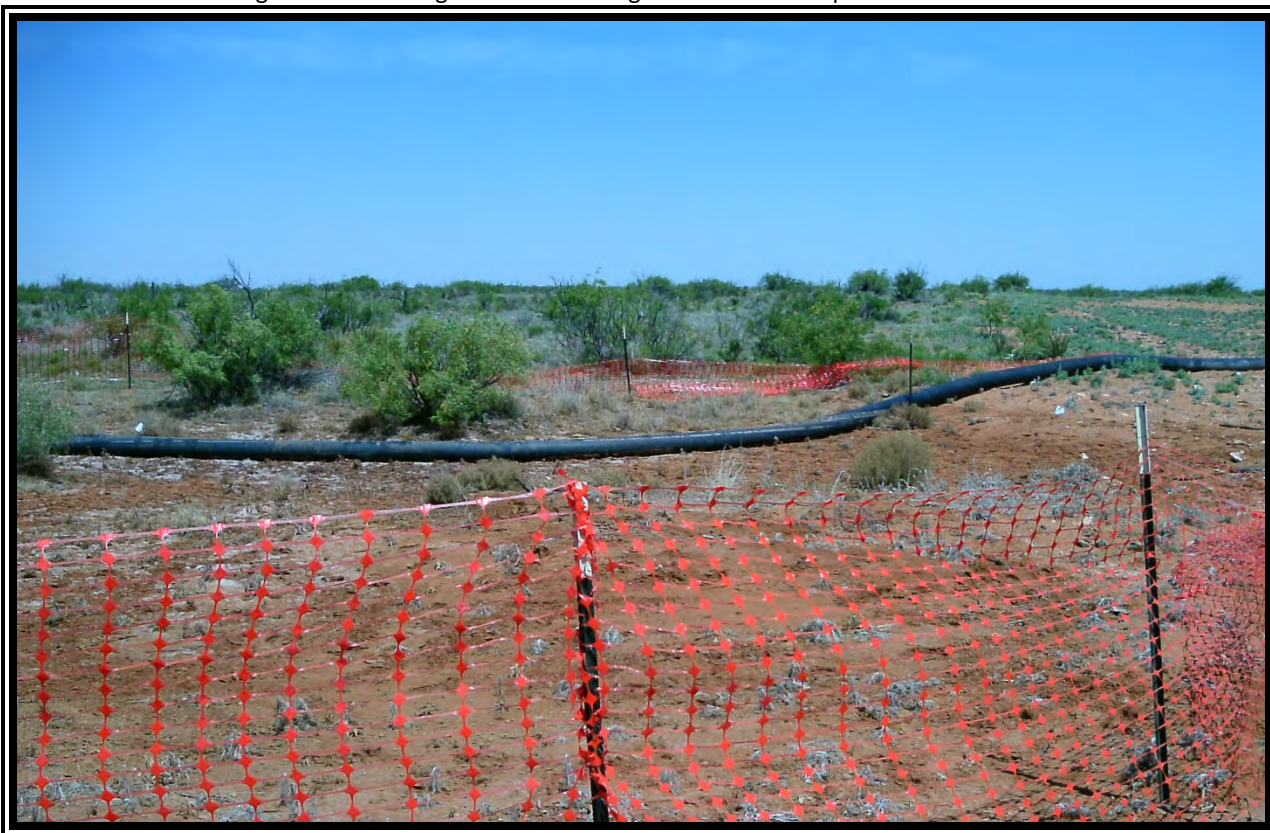
View of release looking to the southwest. Auger Hole 1 soil sample location in foreground.



View of release looking to the northeast. Auger Hole 4 soil sample location in foreground.

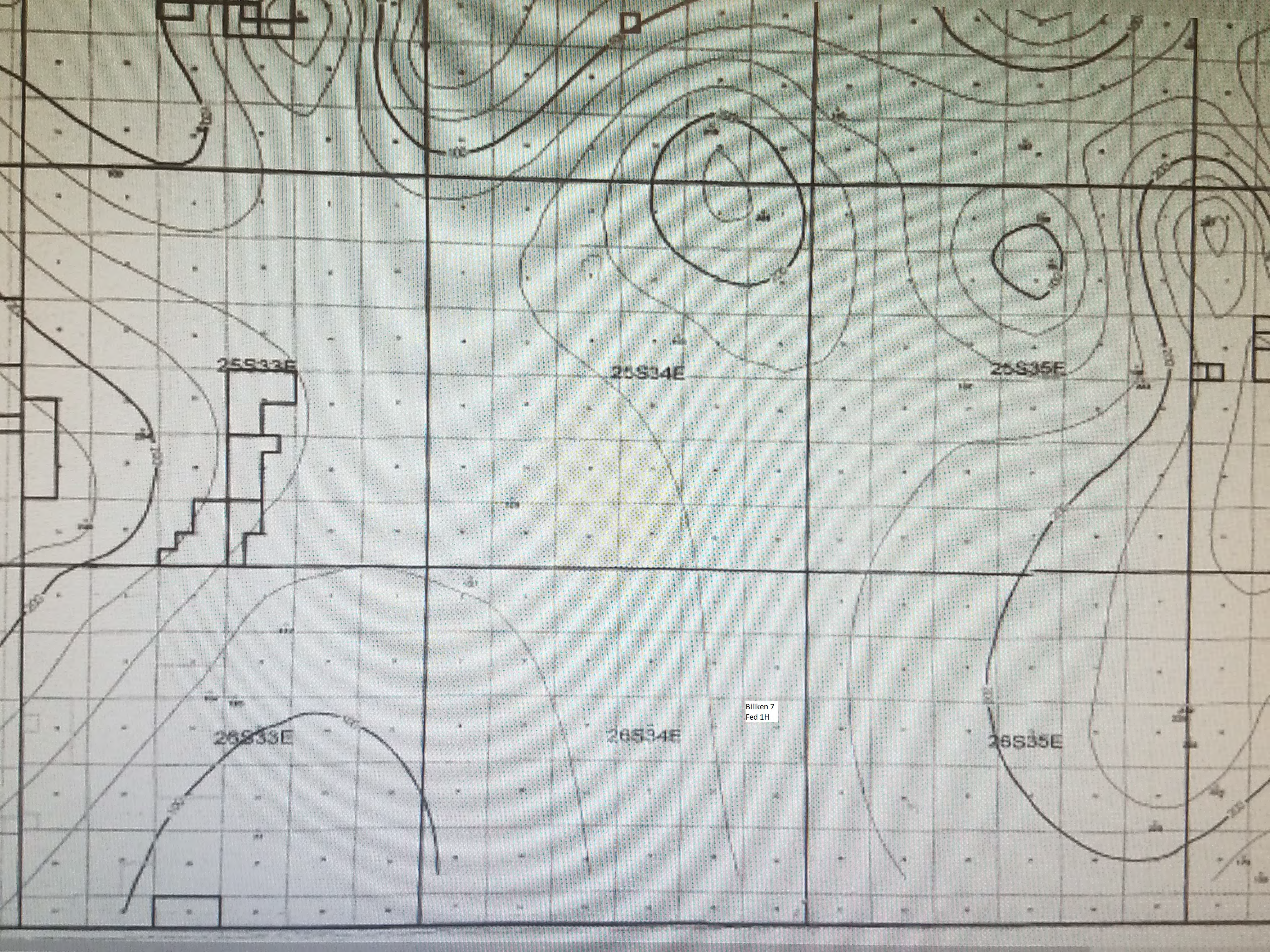


View of release looking southwest. Auger Hole 1 and Auger Hole 2 soil sample locations visible.



View of release looking west. Auger Hole 3 and Auger Hole 4 soil sample locations visible.

Attachment D
Depth to Groundwater Data



25S33E

25S34E

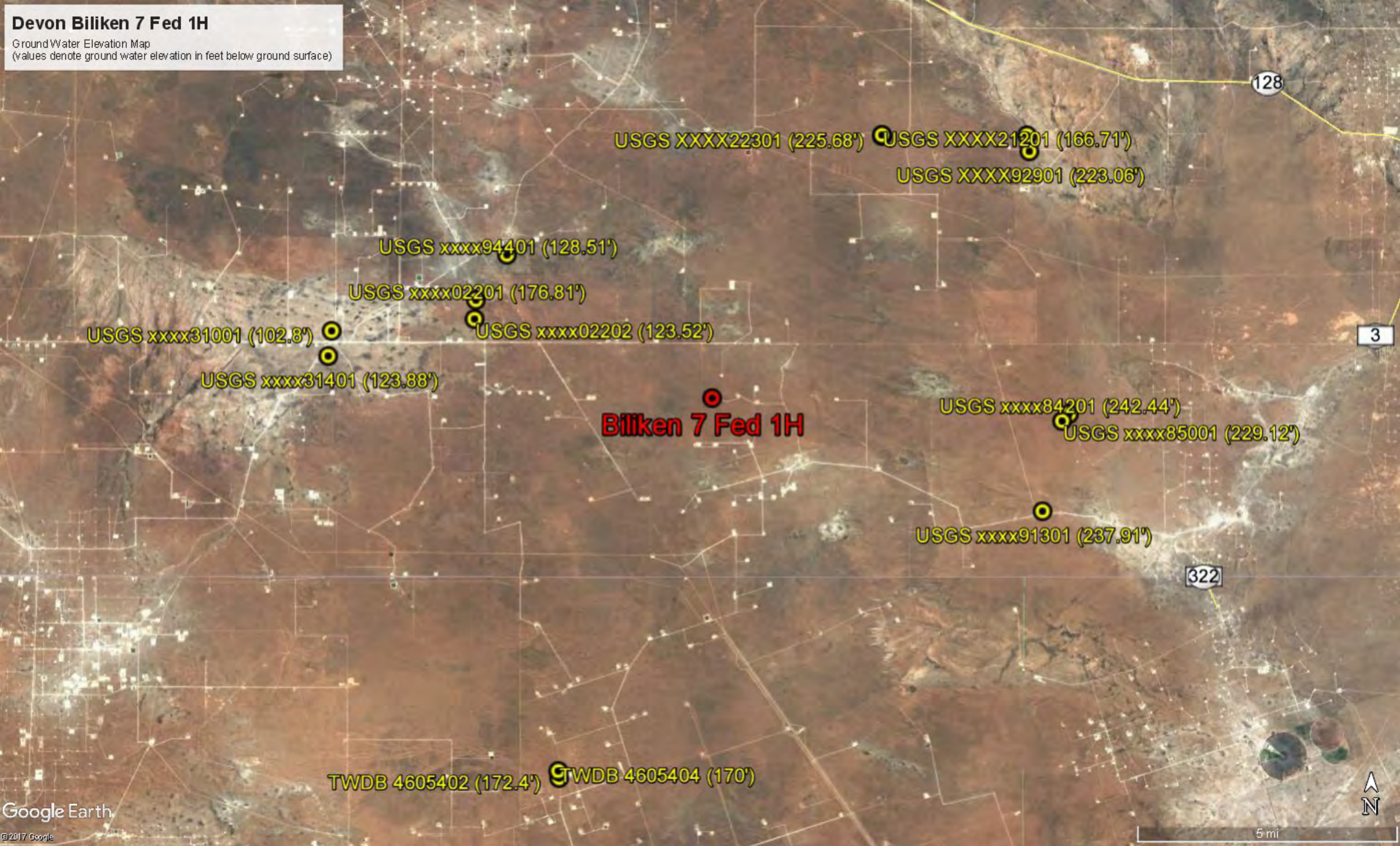
25S35E

26S33E

26S34E

26S35E

Biliken 7
Fed 1H





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Data Category:	Geographic Area:	
Groundwater	New Mexico	GO

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Groundwater levels for New Mexico

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320523103294401

Minimum number of levels = 1

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

USGS 320523103294401 25S.34E.29.343322

Lea County, New Mexico

Latitude 32°05'23", Longitude 103°29'44" NAD27

Land-surface elevation 3,321 feet above NAVD88

The depth of the well is 165 feet below land surface.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1970-12-08		D	127.15				2		U	
1976-01-08		D	127.49				2		U	
1981-03-25		D	132.10				2		U	
1986-03-12		D	130.23				2		U	
1991-06-06		D	128.51				2		U	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Agency code = usgs

site_no list =
• 320419103302201

Minimum number of levels = 1

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USGS 320419103302201 26S.34E.06.21414

Lea County, New Mexico

Latitude 32°04'37.9", Longitude 103°30'20.5" NAD83

Land-surface elevation 3,319.00 feet above NGVD29

The depth of the well is 360 feet below land surface.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1954-07-23			D 141.95				2		U	
1971-10-20			D 128.43				2		U	
1981-03-25			D 129.43				2		U	
1986-03-04			D 125.88				2		U	
1991-06-12			D 126.82				2		U	
2013-01-16	14:00 MST	m	176.81				2		S	USGS

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	R	Reported by person other than the owner, driller, or another government agency.
Source of measurement	U	Source is unknown.



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Agency code = usgs

site_no list =

- 320419103302202

Minimum number of levels = 1

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USGS 320419103302202 26S.34E.06.21414A

Lea County, New Mexico

Latitude 32°04'19", Longitude 103°30'22" NAD27

Land-surface elevation 3,329 feet above NAVD88

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measur-
1976-01-08		D	123.52			2		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Agency code = usgs

site_no list =

- 320407103331001

Minimum number of levels = 1

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USGS 320407103331001 26S.33E.03.444110

Lea County, New Mexico

Latitude 32°04'07", Longitude 103°33'10" NAD27

Land-surface elevation 3,311 feet above NAVD88

The depth of the well is 180 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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measur
1954-07-23		D	102.80				2		U	
2013-02-14	09:25 MST	m						P	S	USGS

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy		Not determined
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Status	P	Site was being pumped.
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	R	Reported by person other than the owner, driller, or another government agency.
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.



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Agency code = usgs

site_no list =
• 320342103331401

Minimum number of levels = 1

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USGS 320342103331401 26S.33E.03.444113

Lea County, New Mexico

Latitude 32°03'42", Longitude 103°33'14" NAD27

Land-surface elevation 3,334 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
Reselect period

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measur
1970-12-07		D	111.33			2	P		U	
1976-01-08		D	110.80			2			U	
1981-03-24		D	110.22			2	S		U	
1986-03-04		D	113.00			2			U	
1991-06-12		D	113.00			2			U	
1996-03-06		D	112.44			2			S	
2001-02-27		D	112.40			2			S	
2006-02-07	10:47 MST	m	123.88			2			S	USGS

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Status	P	Site was being pumped.
Status	S	Nearby site that taps the same aquifer was being pumped.
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown
Measuring agency		Not determined



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Agency code = usgs

site_no list =
• 320245103184201

Minimum number of levels = 1

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USGS 320245103184201 26S.35E.13.22222

Lea County, New Mexico

Latitude 32°02'45", Longitude 103°18'42" NAD27

Land-surface elevation 2,983 feet above NAVD88

The depth of the well is 601 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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1970-12-02		D	228.63				2		U	
1976-01-13		D	244.40				2		U	
1981-03-19		D	242.31				2		U	
1986-03-07		D	242.44				2		U	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Agency code = usgs

site_no list =

- 320238103185001

Minimum number of levels = 1

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USGS 320238103185001 26S.35E.13.22322

Lea County, New Mexico

Latitude 32°02'38", Longitude 103°18'50" NAD27

Land-surface elevation 2,982 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
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measur.
1958-12-12			D	229.12		2	R		U	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status	R	Site had been pumped recently.
Method of measurement	U	Unknown
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Agency code = usgs

site_no list =

- 320108103191301

Minimum number of levels = 1

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USGS 320108103191301 26S.35E.24.342444

Lea County, New Mexico

Latitude 32°01'08", Longitude 103°19'13" NAD27

Land-surface elevation 2,965 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
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measur
1970-12-01		D	206.63			2			U	
1976-01-14		D	209.53			2			U	
1981-03-18		D	220.40			2			U	
1986-03-06		D	215.90			2			U	
1990-11-15		D	218.55			2			U	
1996-02-28		D	220.01			2			S	
2001-03-07		D	222.12			2			S	
2013-08-08	15:20 MDT	m	232.74			2	S		S	USGS
2013-12-10	11:15 MST	m	236.02			2	R		S	USGS
2014-12-16	12:15 MST	m	237.91			2	R		S	USGS

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Status	R	Site had been pumped recently.
Status	S	Nearby site that taps the same aquifer was being pumped.
Method of measurement	S	Steel-tape measurement.



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Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs

site_no list =
• 320715103193101

Minimum number of levels = 1

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

USGS 320715103193101 25S.35E.13.332133

Lea County, New Mexico

Latitude 32°07'22.9", Longitude 103°19'31.8" NAD83

Land-surface elevation 3,108.20 feet above NGVD29

The depth of the well is 249 feet below land surface.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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

Date	Time	Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Water-level accuracy	Status	Method of measurement	Measuring agency	Source of measurer
1965-11-17		D	108.61			2		U		
1968-04-04		D	112.31			2		U		
1971-01-14		D	130.00			2		U		
2013-01-16	09:30 MST	m	264.28			2	P	S	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Status	P	Site was being pumped
Method of measurement	S	Steel-tape measurement
Method of measurement	U	Unknown method
Measuring agency		Not determined

Section	Code	Description
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	R	Reported by person other than the owner, driller, or another government agency.
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for New Mexico: Water Levels

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

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Page Last Modified: 2017-06-28 11:43:47 EDT

0.45 0.4 nadwv02





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Data Category:	Geographic Area:	
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Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320704103222301

Minimum number of levels = 1

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

USGS 320704103222301 25S.35E.21.122224

Lea County, New Mexico

Latitude 32°07'21.8", Longitude 103°22'22.7" NAD83

Land-surface elevation 3,240.00 feet above NGVD29

The depth of the well is 180 feet below land surface.

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

Output formats

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

Date	Time	Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Water-level accuracy	Status	Method of measurement	Measuring agency	Source of measurement
1953-04-02		D	173.26			2			U	
1970-12-09		D	166.38			2			U	
1976-01-09		D	164.54			2			U	
2013-01-16	10:15 MST	m	225.68			2			S	USGS

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey

Section	Code	Description
Source of measurement	R	Reported by person other than the owner, driller, or another government agency.
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for New Mexico: Water Levels

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

Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2017-06-28 11:19:26 EDT

0.51 0.45 nadwv02



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State Well Number	4605402
County	Loving
River Basin	Rio Grande
Groundwater Management Area	3
Regional Water Planning Area	F - Region F
Groundwater Conservation District	
Latitude (decimal degrees)	31.945
Latitude (degrees minutes seconds)	31° 56' 42" N
Longitude (decimal degrees)	-103.478055
Longitude (degrees minutes seconds)	103° 28' 41" W
Coordinate Source	+/- 1 Second
Aquifer Code	231DCKM - Dockum Formation
Aquifer	Dockum
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	3203
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	240
Well Depth Source	Memory of Owner
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Brunson Ranch
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	3/29/1990
Last Update Date	

Remarks Abandoned.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
12	Blank	Steel				

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

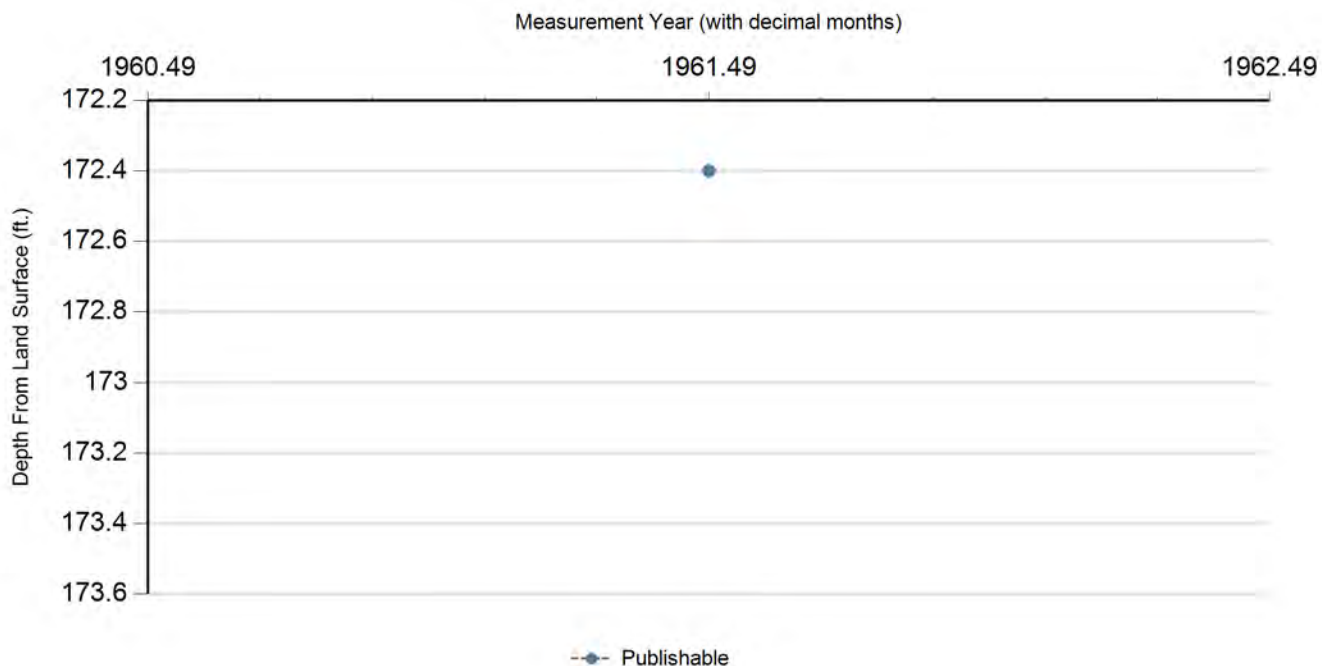
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in () indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	6/29/1961		172.4		3030.6	1	Texas Water Development Board	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis

Sample Date: 10/21/1974 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Dockum Formation

Analyzed Lab: Texas Department of Health

Reliability: Collected from pumped well, but not filtered or preserved

Collection Remarks: Disch. @ tank, continuously

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)		327	mg/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		399.05	mg/L	
00910	CALCIUM (MG/L)		123	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		88	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.8	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3)		553	mg/L	
00920	MAGNESIUM (MG/L)		60	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		12	mg/L	
00400	PH (STANDARD UNITS), FIELD		7.7	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SiO2)		18	mg/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		2.09		
00932	SODIUM, CALCULATED, PERCENT		30	PCT	
00929	SODIUM, TOTAL (MG/L AS Na)		113	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1760	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		344	mg/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		956	mg/L	

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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State Well Number	4605404
County	Loving
River Basin	Rio Grande
Groundwater Management Area	3
Regional Water Planning Area	F - Region F
Groundwater Conservation District	
Latitude (decimal degrees)	31.946945
Latitude (degrees minutes seconds)	31° 56' 49" N
Longitude (decimal degrees)	-103.478611
Longitude (degrees minutes seconds)	103° 28' 43" W
Coordinate Source	+/- 1 Second
Aquifer Code	231DCKM - Dockum Formation
Aquifer	Dockum
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	3202
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	320
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	1/9/1979
Drilling Method	Air Rotary
Borehole Completion	Perforated or Slotted

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Brunson Ranch
Driller	Spruill Brothers Drilling Co.
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	4B
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	10/4/1995
Last Update Date	10/4/1995

Remarks	
---------	--

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
5	Blank	Steel			0	170
5	Screen	Steel			170	200
5	Blank	Steel			200	320

Well Tests - No Data

Lithology

Top Depth (ft.)	Bottom Depth (ft.)	Description
0	5	soil
5	35	caliche and gravel
35	70	caliche and sand
70	85	lime
85	185	sand and sand rock
185	200	sand (little water)
200	320	red and blue shale

Annular Seal Range - No Data

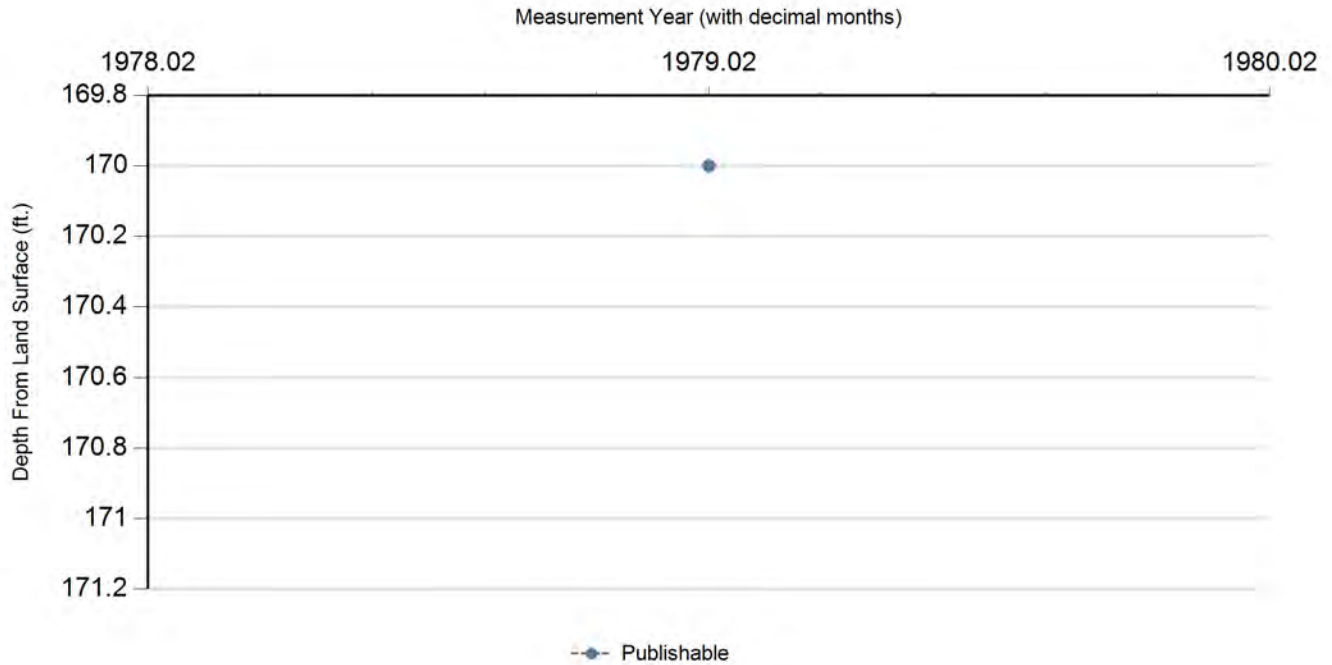
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in () indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	1/9/1979		170		3032	1	Registered Water Well Driller	Unknown		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis

Sample Date: 3/12/1990 **Sample Time:** 1415 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Dockum Formation

Analyzed Lab: Texas Department of Health

Reliability: Sampled using TWDB protocols

Collection Remarks: Disch. @ tank, pumped 1 week.

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CaCO3		444	mg/L	
82244	ALKALINITY PHENOLPHTHALEIN FIELD DATA (MG/L)		0	mg/L	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)		451	mg/L	
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	<	50	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	10	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)	<	20	ug/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		550.38	mg/L	
00453	BICARBONATE, DISSOLVED AS HCO3, FIELD (MG/L)		541.68	mg/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.1	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	10	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		208	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00452	CARBONATE, INCR TITRATION, DISSOLVED, FIELD (MG/L)		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		70	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	<	20	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)	<	20	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.97	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3)		975	mg/L	
01046	IRON, DISSOLVED (UG/L AS FE)		701	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	50	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		111	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)		50	ug/L	
71890	MERCURY, DISSOLVED (UG/L AS HG)	<	0.2	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0.12	mg/L	
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)		0.01	mg/L	
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)		0.02	mg/L	
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)		0.2	mg/L	
00400	PH (STANDARD UNITS), FIELD		6.87	SU	
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		0.01	mg/L	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		12	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
01145	SELENIUM, DISSOLVED (UG/L AS SE)	<	4	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SiO2)		11	mg/L	
01075	SILVER, DISSOLVED (UG/L AS AG)	<	10	ug/L	

**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
46-05-404**

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		2.34		
00932	SODIUM, CALCULATED, PERCENT		27	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		168	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1924	MICR	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		744	mg/L	
00010	TEMPERATURE, WATER (CELSIUS)		25.6	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1595	mg/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)	<	20	ug/L	

* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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Attachment E
Analytical Results

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Geoff Leking
E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa, TX 79765

Project: Select Energy Biliken 7 Fed 1H,2H

Project Number: 817-8169-000

Location: Bennett NM

Lab Order Number: 7D25006



NELAP/TCEQ # T104704156-13-3

Report Date: 05/03/17

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Select Energy Biliken 7 Fed 1H,2H
Project Number: 817-8169-000
Project Manager: Geoff Leking

Fax: (432) 563-2213

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Auger Hole 1 1'	7D25006-01	Soil	04/24/17 12:50	04-25-2017 11:00
Auger Hole 1 2'	7D25006-02	Soil	04/24/17 12:55	04-25-2017 11:00
Auger Hole 1 3'	7D25006-03	Soil	04/24/17 12:57	04-25-2017 11:00
Auger Hole 2 1'	7D25006-04	Soil	04/24/17 13:00	04-25-2017 11:00
Auger Hole 2 2'	7D25006-05	Soil	04/24/17 13:03	04-25-2017 11:00
Auger Hole 2 2.5'	7D25006-06	Soil	04/24/17 13:05	04-25-2017 11:00
Auger Hole 3 1'	7D25006-07	Soil	04/24/17 13:12	04-25-2017 11:00
Auger Hole 3 2'	7D25006-08	Soil	04/24/17 13:15	04-25-2017 11:00
Auger Hole 3 3'	7D25006-09	Soil	04/24/17 13:17	04-25-2017 11:00
Auger Hole 4 1'	7D25006-10	Soil	04/24/17 13:19	04-25-2017 11:00
Auger Hole 4 2'	7D25006-11	Soil	04/24/17 13:23	04-25-2017 11:00
Auger Hole 4 2.5'	7D25006-12	Soil	04/24/17 13:28	04-25-2017 11:00

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Select Energy Biliken 7 Fed 1H,2H
Project Number: 817-8169-000
Project Manager: Geoff Leking

Fax: (432) 563-2213

Auger Hole 1 1'
7D25006-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00112	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Toluene	ND	0.00225	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		70.3 %		75-125	P7E0108	04/28/17	04/29/17	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		88.6 %		75-125	P7E0108	04/28/17	04/29/17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3700	28.1	mg/kg dry	25	P7D2606	04/26/17	04/27/17	EPA 300.0	
% Moisture	11.0	0.1	%	1	P7D2711	04/27/17	04/27/17	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P7D2705	04/26/17	04/26/17	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P7D2705	04/26/17	04/26/17	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P7D2705	04/26/17	04/26/17	TPH 8015M	
Surrogate: 1-Chlorooctane		78.7 %		70-130	P7D2705	04/26/17	04/26/17	TPH 8015M	
Surrogate: o-Terphenyl		84.2 %		70-130	P7D2705	04/26/17	04/26/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	04/26/17	04/26/17	calc	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Select Energy Biliken 7 Fed 1H,2H
Project Number: 817-8169-000
Project Manager: Geoff Leking

Fax: (432) 563-2213

Auger Hole 1 2'
7D25006-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00116	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Toluene	ND	0.00233	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		82.6 %	75-125		P7E0108	04/28/17	04/29/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		69.0 %	75-125		P7E0108	04/28/17	04/29/17	EPA 8021B	S-GC

General Chemistry Parameters by EPA / Standard Methods

Chloride	5930	29.1	mg/kg dry	25	P7D2606	04/26/17	04/27/17	EPA 300.0	
% Moisture	14.0	0.1	%	1	P7D2711	04/27/17	04/27/17	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P7D2705	04/26/17	04/27/17	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P7D2705	04/26/17	04/27/17	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P7D2705	04/26/17	04/27/17	TPH 8015M	
Surrogate: 1-Chlorooctane		94.6 %	70-130		P7D2705	04/26/17	04/27/17	TPH 8015M	
Surrogate: o-Terphenyl		99.3 %	70-130		P7D2705	04/26/17	04/27/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	04/26/17	04/27/17	calc	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Select Energy Biliken 7 Fed 1H,2H
Project Number: 817-8169-000
Project Manager: Geoff Leking

Fax: (432) 563-2213

Auger Hole 1 3'
7D25006-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00119	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Toluene	ND	0.00238	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Ethylbenzene	ND	0.00119	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Xylene (p/m)	ND	0.00238	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Xylene (o)	ND	0.00119	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		60.2 %	75-125		P7E0108	04/28/17	04/29/17	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		76.4 %	75-125		P7E0108	04/28/17	04/29/17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	602	1.19	mg/kg dry	1	P7D2606	04/26/17	04/27/17	EPA 300.0	
% Moisture	16.0	0.1	%	1	P7D2711	04/27/17	04/27/17	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.8	mg/kg dry	1	P7D2705	04/26/17	04/27/17	TPH 8015M	
>C12-C28	ND	29.8	mg/kg dry	1	P7D2705	04/26/17	04/27/17	TPH 8015M	
>C28-C35	ND	29.8	mg/kg dry	1	P7D2705	04/26/17	04/27/17	TPH 8015M	
Surrogate: 1-Chlorooctane		87.7 %	70-130		P7D2705	04/26/17	04/27/17	TPH 8015M	
Surrogate: o-Terphenyl		95.4 %	70-130		P7D2705	04/26/17	04/27/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	04/26/17	04/27/17	calc	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Select Energy Biliken 7 Fed 1H,2H
Project Number: 817-8169-000
Project Manager: Geoff Leking

Fax: (432) 563-2213

Auger Hole 2 1'
7D25006-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B
Toluene	ND	0.00220	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B
Ethylbenzene	ND	0.00110	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B
Xylene (o)	ND	0.00110	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B
Surrogate: 1,4-Difluorobenzene		89.2 %	75-125		P7E0108	04/28/17	04/29/17	EPA 8021B
Surrogate: 4-Bromofluorobenzene		75.7 %	75-125		P7E0108	04/28/17	04/29/17	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	5050	27.5	mg/kg dry	25	P7D2606	04/26/17	04/27/17	EPA 300.0
% Moisture	9.0	0.1	%	1	P7D2711	04/27/17	04/27/17	% calculation

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P7D2705	04/26/17	04/27/17	TPH 8015M
>C12-C28	ND	27.5	mg/kg dry	1	P7D2705	04/26/17	04/27/17	TPH 8015M
>C28-C35	ND	27.5	mg/kg dry	1	P7D2705	04/26/17	04/27/17	TPH 8015M
Surrogate: 1-Chlorooctane		79.9 %	70-130		P7D2705	04/26/17	04/27/17	TPH 8015M
Surrogate: o-Terphenyl		85.3 %	70-130		P7D2705	04/26/17	04/27/17	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	04/26/17	04/27/17	calc

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Select Energy Biliken 7 Fed 1H,2H
Project Number: 817-8169-000
Project Manager: Geoff Leking

Fax: (432) 563-2213

Auger Hole 2 2'
7D25006-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00118	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Toluene	ND	0.00235	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Ethylbenzene	ND	0.00118	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Xylene (p/m)	ND	0.00235	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Xylene (o)	ND	0.00118	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.5 %	75-125		P7E0108	04/28/17	04/29/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		66.1 %	75-125		P7E0108	04/28/17	04/29/17	EPA 8021B	S-GC

General Chemistry Parameters by EPA / Standard Methods

Chloride	2400	5.88	mg/kg dry	5	P7D2606	04/26/17	04/27/17	EPA 300.0	
% Moisture	15.0	0.1	%	1	P7D2711	04/27/17	04/27/17	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.4	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
>C12-C28	ND	29.4	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
>C28-C35	ND	29.4	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
Surrogate: 1-Chlorooctane		86.7 %	70-130		P7D2706	04/26/17	04/26/17	TPH 8015M	
Surrogate: o-Terphenyl		85.0 %	70-130		P7D2706	04/26/17	04/26/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.4	mg/kg dry	1	[CALC]	04/26/17	04/26/17	calc	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Select Energy Biliken 7 Fed 1H,2H
Project Number: 817-8169-000
Project Manager: Geoff Leking

Fax: (432) 563-2213

Auger Hole 2 2.5'
7D25006-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00122	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Toluene	ND	0.00244	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Ethylbenzene	ND	0.00122	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Xylene (p/m)	ND	0.00244	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Xylene (o)	ND	0.00122	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		58.2 %	75-125		P7E0108	04/28/17	04/29/17	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		83.7 %	75-125		P7E0108	04/28/17	04/29/17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1690	6.10	mg/kg dry	5	P7D2606	04/26/17	04/27/17	EPA 300.0	
% Moisture	18.0	0.1	%	1	P7D2711	04/27/17	04/27/17	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.5	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
>C12-C28	ND	30.5	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
>C28-C35	ND	30.5	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
Surrogate: 1-Chlorooctane		87.0 %	70-130		P7D2706	04/26/17	04/26/17	TPH 8015M	
Surrogate: o-Terphenyl		85.4 %	70-130		P7D2706	04/26/17	04/26/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.5	mg/kg dry	1	[CALC]	04/26/17	04/26/17	calc	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Select Energy Biliken 7 Fed 1H,2H
Project Number: 817-8169-000
Project Manager: Geoff Leking

Fax: (432) 563-2213

Auger Hole 3 1'
7D25006-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00114	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Toluene	ND	0.00227	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		75.7 %	75-125		P7E0108	04/28/17	04/29/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		50.0 %	75-125		P7E0108	04/28/17	04/29/17	EPA 8021B	S-GC

General Chemistry Parameters by EPA / Standard Methods

Chloride	10000	56.8	mg/kg dry	50	P7D2606	04/26/17	04/27/17	EPA 300.0	
% Moisture	12.0	0.1	%	1	P7D2711	04/27/17	04/27/17	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
Surrogate: 1-Chlorooctane		84.9 %	70-130		P7D2706	04/26/17	04/26/17	TPH 8015M	
Surrogate: o-Terphenyl		83.8 %	70-130		P7D2706	04/26/17	04/26/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	04/26/17	04/26/17	calc	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Select Energy Biliken 7 Fed 1H,2H
Project Number: 817-8169-000
Project Manager: Geoff Leking

Fax: (432) 563-2213

Auger Hole 3 2'
7D25006-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00114	mg/kg dry	1	P7E0108	04/28/17	05/01/17	EPA 8021B	
Toluene	ND	0.00227	mg/kg dry	1	P7E0108	04/28/17	05/01/17	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P7E0108	04/28/17	05/01/17	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P7E0108	04/28/17	05/01/17	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P7E0108	04/28/17	05/01/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		72.0 %	75-125		P7E0108	04/28/17	05/01/17	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		82.2 %	75-125		P7E0108	04/28/17	05/01/17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8710	28.4	mg/kg dry	25	P7D2607	04/26/17	04/28/17	EPA 300.0	
% Moisture	12.0	0.1	%	1	P7D2711	04/27/17	04/27/17	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
Surrogate: 1-Chlorooctane		84.5 %	70-130		P7D2706	04/26/17	04/26/17	TPH 8015M	
Surrogate: o-Terphenyl		82.7 %	70-130		P7D2706	04/26/17	04/26/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	04/26/17	04/26/17	calc	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Select Energy Biliken 7 Fed 1H,2H
Project Number: 817-8169-000
Project Manager: Geoff Leking

Fax: (432) 563-2213

Auger Hole 3 3'
7D25006-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00112	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Toluene	ND	0.00225	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		59.9 %	75-125		P7E0108	04/28/17	04/29/17	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		84.0 %	75-125		P7E0108	04/28/17	04/29/17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3770	28.1	mg/kg dry	25	P7D2607	04/26/17	04/28/17	EPA 300.0	
% Moisture	11.0	0.1	%	1	P7D2711	04/27/17	04/27/17	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
Surrogate: 1-Chlorooctane		86.7 %	70-130		P7D2706	04/26/17	04/26/17	TPH 8015M	
Surrogate: o-Terphenyl		85.1 %	70-130		P7D2706	04/26/17	04/26/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	04/26/17	04/26/17	calc	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Select Energy Biliken 7 Fed 1H,2H
Project Number: 817-8169-000
Project Manager: Geoff Leking

Fax: (432) 563-2213

Auger Hole 4 1'
7D25006-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00112	mg/kg dry	1	P7E0108	04/28/17	05/01/17	EPA 8021B	
Toluene	ND	0.00225	mg/kg dry	1	P7E0108	04/28/17	05/01/17	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P7E0108	04/28/17	05/01/17	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P7E0108	04/28/17	05/01/17	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P7E0108	04/28/17	05/01/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		77.9 %	75-125		P7E0108	04/28/17	05/01/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		69.0 %	75-125		P7E0108	04/28/17	05/01/17	EPA 8021B	S-GC

General Chemistry Parameters by EPA / Standard Methods

Chloride	8380	28.1	mg/kg dry	25	P7D2607	04/26/17	04/28/17	EPA 300.0	
% Moisture	11.0	0.1	%	1	P7D2711	04/27/17	04/27/17	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
Surrogate: 1-Chlorooctane		87.7 %	70-130		P7D2706	04/26/17	04/26/17	TPH 8015M	
Surrogate: o-Terphenyl		85.6 %	70-130		P7D2706	04/26/17	04/26/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	04/26/17	04/26/17	calc	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Select Energy Biliken 7 Fed 1H,2H
Project Number: 817-8169-000
Project Manager: Geoff Leking

Fax: (432) 563-2213

Auger Hole 4 2'
7D25006-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00114	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Toluene	ND	0.00227	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		61.6 %	75-125		P7E0108	04/28/17	04/29/17	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		79.2 %	75-125		P7E0108	04/28/17	04/29/17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6380	28.4	mg/kg dry	25	P7D2607	04/26/17	04/28/17	EPA 300.0	
% Moisture	12.0	0.1	%	1	P7D2711	04/27/17	04/27/17	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.4	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
Surrogate: 1-Chlorooctane		87.4 %	70-130		P7D2706	04/26/17	04/26/17	TPH 8015M	
Surrogate: o-Terphenyl		86.2 %	70-130		P7D2706	04/26/17	04/26/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	04/26/17	04/26/17	calc	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Select Energy Biliken 7 Fed 1H,2H
Project Number: 817-8169-000
Project Manager: Geoff Leking

Fax: (432) 563-2213

Auger Hole 4 2.5'
7D25006-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00116	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Toluene	ND	0.00233	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P7E0108	04/28/17	04/29/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		63.3 %	75-125		P7E0108	04/28/17	04/29/17	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		78.2 %	75-125		P7E0108	04/28/17	04/29/17	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5000	29.1	mg/kg dry	25	P7D2607	04/26/17	04/28/17	EPA 300.0	
% Moisture	14.0	0.1	%	1	P7D2711	04/27/17	04/27/17	% calculation	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	29.1	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P7D2706	04/26/17	04/26/17	TPH 8015M	
Surrogate: 1-Chlorooctane		82.4 %	70-130		P7D2706	04/26/17	04/26/17	TPH 8015M	
Surrogate: o-Terphenyl		81.7 %	70-130		P7D2706	04/26/17	04/26/17	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	04/26/17	04/26/17	calc	

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P7E0108 - General Preparation (GC)

Blank (P7E0108-BLK1)

Prepared: 04/28/17 Analyzed: 04/29/17

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0479		"	0.0600		79.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.0523		"	0.0600		87.2	75-125			

LCS (P7E0108-BS1)

Prepared: 04/28/17 Analyzed: 04/29/17

Benzene	0.0869	0.00100	mg/kg wet	0.100		86.9	70-130			
Toluene	0.0918	0.00200	"	0.100		91.8	70-130			
Ethylbenzene	0.100	0.00100	"	0.100		100	70-130			
Xylene (p/m)	0.194	0.00200	"				70-130			
Xylene (o)	0.0935	0.00100	"				70-130			
Surrogate: 1,4-Difluorobenzene	0.0639		"	0.0600		107	75-125			
Surrogate: 4-Bromofluorobenzene	0.0600		"	0.0600		100	75-125			

LCS Dup (P7E0108-BSD1)

Prepared: 04/28/17 Analyzed: 04/29/17

Benzene	0.0892	0.00100	mg/kg wet	0.100		89.2	70-130	2.61	20	
Toluene	0.0889	0.00200	"	0.100		88.9	70-130	3.15	20	
Ethylbenzene	0.101	0.00100	"	0.100		101	70-130	0.882	20	
Xylene (p/m)	0.203	0.00200	"				70-130		20	
Xylene (o)	0.109	0.00100	"				70-130		20	
Surrogate: 4-Bromofluorobenzene	0.0606		"	0.0600		101	75-125			
Surrogate: 1,4-Difluorobenzene	0.0732		"	0.0600		122	75-125			

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General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P7D2606 - * DEFAULT PREP *****

Blank (P7D2606-BLK1)

Prepared: 04/26/17 Analyzed: 04/27/17

Chloride	ND	1.00	mg/kg wet						
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LCS (P7D2606-BS1)

Prepared: 04/26/17 Analyzed: 04/27/17

Chloride	414	1.00	mg/kg wet	400		103	80-120		
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LCS Dup (P7D2606-BSD1)

Prepared: 04/26/17 Analyzed: 04/27/17

Chloride	415	1.00	mg/kg wet	400		104	80-120	0.345	20
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Duplicate (P7D2606-DUP1)

Source: 7D24022-05

Prepared: 04/26/17 Analyzed: 04/27/17

Chloride	4270	11.8	mg/kg dry		4250			0.431	20
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Duplicate (P7D2606-DUP2)

Source: 7D25005-14

Prepared: 04/26/17 Analyzed: 04/27/17

Chloride	4720	28.4	mg/kg dry		4740			0.270	20
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Matrix Spike (P7D2606-MS1)

Source: 7D24022-05

Prepared: 04/26/17 Analyzed: 04/27/17

Chloride	5270	11.8	mg/kg dry	1180	4250	86.4	80-120		
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Batch P7D2607 - * DEFAULT PREP *****

Blank (P7D2607-BLK1)

Prepared: 04/26/17 Analyzed: 04/28/17

Chloride	ND	1.00	mg/kg wet						
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LCS (P7D2607-BS1)

Prepared: 04/26/17 Analyzed: 04/28/17

Chloride	419	1.00	mg/kg wet	400		105	80-120		
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LCS Dup (P7D2607-BSD1)

Prepared: 04/26/17 Analyzed: 04/28/17

Chloride	412	1.00	mg/kg wet	400		103	80-120	1.68	20
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E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Select Energy Biliken 7 Fed 1H,2H
Project Number: 817-8169-000
Project Manager: Geoff Leking

Fax: (432) 563-2213

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P7D2607 - * DEFAULT PREP *****

Duplicate (P7D2607-DUP1)		Source: 7D25006-08		Prepared: 04/26/17 Analyzed: 04/28/17						
Chloride	8740	28.4	mg/kg dry		8710			0.365	20	
Duplicate (P7D2607-DUP2)		Source: 7D25006-12		Prepared: 04/26/17 Analyzed: 04/28/17						
Chloride	5000	29.1	mg/kg dry		5000			0.145	20	
Matrix Spike (P7D2607-MS1)		Source: 7D25006-08		Prepared: 04/26/17 Analyzed: 04/28/17						
Chloride	11200	28.4	mg/kg dry	2270	8710	108	80-120			

Batch P7D2711 - * DEFAULT PREP *****

Blank (P7D2711-BLK1)				Prepared & Analyzed: 04/27/17						
% Moisture	ND	0.1	%							
Blank (P7D2711-BLK2)				Prepared & Analyzed: 04/27/17						
% Moisture	ND	0.1	%							
Duplicate (P7D2711-DUP1)		Source: 7D25007-15		Prepared & Analyzed: 04/27/17						
% Moisture	23.0	0.1	%		23.0			0.00	20	
Duplicate (P7D2711-DUP2)		Source: 7D25009-02		Prepared & Analyzed: 04/27/17						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P7D2711-DUP3)		Source: 7D26001-05		Prepared & Analyzed: 04/27/17						
% Moisture	14.0	0.1	%		13.0			7.41	20	
Duplicate (P7D2711-DUP4)		Source: 7D27001-05		Prepared & Analyzed: 04/27/17						
% Moisture	8.0	0.1	%		8.0			0.00	20	

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Project: Select Energy Biliken 7 Fed 1H,2H
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Project Manager: Geoff Leking

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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P7D2705 - TX 1005

Blank (P7D2705-BLK1)

Prepared & Analyzed: 04/26/17

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
<i>Surrogate: 1-Chlorooctane</i>	<i>102</i>		<i>"</i>	<i>100</i>		<i>102</i>	<i>70-130</i>			
<i>Surrogate: o-Terphenyl</i>	<i>54.4</i>		<i>"</i>	<i>50.0</i>		<i>109</i>	<i>70-130</i>			

LCS (P7D2705-BS1)

Prepared & Analyzed: 04/26/17

C6-C12	891	25.0	mg/kg wet	1000		89.1	75-125			
>C12-C28	1130	25.0	"	1000		113	75-125			
<i>Surrogate: 1-Chlorooctane</i>	<i>122</i>		<i>"</i>	<i>100</i>		<i>122</i>	<i>70-130</i>			
<i>Surrogate: o-Terphenyl</i>	<i>50.7</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>70-130</i>			

LCS Dup (P7D2705-BSD1)

Prepared & Analyzed: 04/26/17

C6-C12	856	25.0	mg/kg wet	1000		85.6	75-125	4.03	20	
>C12-C28	1030	25.0	"	1000		103	75-125	9.15	20	
<i>Surrogate: 1-Chlorooctane</i>	<i>118</i>		<i>"</i>	<i>100</i>		<i>118</i>	<i>70-130</i>			
<i>Surrogate: o-Terphenyl</i>	<i>46.2</i>		<i>"</i>	<i>50.0</i>		<i>92.4</i>	<i>70-130</i>			

Matrix Spike (P7D2705-MS1)

Source: 7D25004-08

Prepared: 04/26/17 Analyzed: 04/27/17

C6-C12	787	26.9	mg/kg dry	1080	ND	73.2	75-125			QM-05
>C12-C28	1000	26.9	"	1080	15.5	91.7	75-125			
<i>Surrogate: 1-Chlorooctane</i>	<i>103</i>		<i>"</i>	<i>108</i>		<i>95.9</i>	<i>70-130</i>			
<i>Surrogate: o-Terphenyl</i>	<i>46.2</i>		<i>"</i>	<i>53.8</i>		<i>85.9</i>	<i>70-130</i>			

Matrix Spike Dup (P7D2705-MSD1)

Source: 7D25004-08

Prepared: 04/26/17 Analyzed: 04/27/17

C6-C12	831	26.9	mg/kg dry	1080	ND	77.3	75-125	5.43	20	
>C12-C28	1040	26.9	"	1080	15.5	95.5	75-125	4.08	20	
<i>Surrogate: 1-Chlorooctane</i>	<i>108</i>		<i>"</i>	<i>108</i>		<i>100</i>	<i>70-130</i>			
<i>Surrogate: o-Terphenyl</i>	<i>50.5</i>		<i>"</i>	<i>53.8</i>		<i>93.9</i>	<i>70-130</i>			

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Project: Select Energy Biliken 7 Fed 1H,2H
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Project Manager: Geoff Leking

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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P7D2706 - TX 1005

Blank (P7D2706-BLK1)

Prepared & Analyzed: 04/26/17

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
<i>Surrogate: 1-Chlorooctane</i>	<i>88.4</i>		<i>"</i>	<i>100</i>		<i>88.4</i>	<i>70-130</i>			
<i>Surrogate: o-Terphenyl</i>	<i>43.0</i>		<i>"</i>	<i>50.0</i>		<i>86.0</i>	<i>70-130</i>			

LCS (P7D2706-BS1)

Prepared & Analyzed: 04/26/17

C6-C12	791	25.0	mg/kg wet	1000		79.1	75-125			
>C12-C28	773	25.0	"	1000		77.3	75-125			
<i>Surrogate: 1-Chlorooctane</i>	<i>91.6</i>		<i>"</i>	<i>100</i>		<i>91.6</i>	<i>70-130</i>			
<i>Surrogate: o-Terphenyl</i>	<i>40.3</i>		<i>"</i>	<i>50.0</i>		<i>80.7</i>	<i>70-130</i>			

LCS Dup (P7D2706-BSD1)

Prepared & Analyzed: 04/26/17

C6-C12	760	25.0	mg/kg wet	1000		76.0	75-125	3.98	20	
>C12-C28	841	25.0	"	1000		84.1	75-125	8.52	20	
<i>Surrogate: 1-Chlorooctane</i>	<i>88.5</i>		<i>"</i>	<i>100</i>		<i>88.5</i>	<i>70-130</i>			
<i>Surrogate: o-Terphenyl</i>	<i>39.0</i>		<i>"</i>	<i>50.0</i>		<i>78.1</i>	<i>70-130</i>			

Matrix Spike (P7D2706-MS1)

Source: 7D25007-14

Prepared: 04/26/17 Analyzed: 04/27/17

C6-C12	956	28.7	mg/kg dry	1150	27.1	80.8	75-125			
>C12-C28	947	28.7	"	1150	64.6	76.7	75-125			
<i>Surrogate: 1-Chlorooctane</i>	<i>107</i>		<i>"</i>	<i>115</i>		<i>93.0</i>	<i>70-130</i>			
<i>Surrogate: o-Terphenyl</i>	<i>47.7</i>		<i>"</i>	<i>57.5</i>		<i>83.0</i>	<i>70-130</i>			

Matrix Spike Dup (P7D2706-MSD1)

Source: 7D25007-14

Prepared: 04/26/17 Analyzed: 04/27/17

C6-C12	927	28.7	mg/kg dry	1150	27.1	78.3	75-125	3.15	20	
>C12-C28	928	28.7	"	1150	64.6	75.1	75-125	2.16	20	
<i>Surrogate: 1-Chlorooctane</i>	<i>106</i>		<i>"</i>	<i>115</i>		<i>91.9</i>	<i>70-130</i>			
<i>Surrogate: o-Terphenyl</i>	<i>46.6</i>		<i>"</i>	<i>57.5</i>		<i>81.1</i>	<i>70-130</i>			

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By:



Date:

5/3/2017

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Etech Environmental & Safety Solutions, Inc.

12800 W. Hwy 80 E
Odessa, Texas 79765

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Phone: 432-563-2200
Fax: 432-563-2213

Project Manager: Geoff Leaking

Company Name: Etech Environmental & Safety Solutions, Inc.

Company Address: PO Box 8469

City/State/Zip: Midland, Texas 79708

Telephone No: 432-563-2200

Fax No: 432-563-2213

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Geoff Leaking

e-mail: geoff@etechenv.com

(lab use only)
ORDER #: 11025006

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers	Matrix	TPH: 418.1 (8015M) 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX (8021B) 6030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	Auger Hole 1	1'	4.24.17	1250	<input checked="" type="checkbox"/> Ice		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	Auger Hole 1	2'		1255	<input checked="" type="checkbox"/> HNO ₃		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	Auger Hole 1	3'		1257	<input checked="" type="checkbox"/> HCl		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	Auger Hole 2	1'		1300	<input checked="" type="checkbox"/> H ₂ SO ₄		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	Auger Hole 2	2'		1303	<input checked="" type="checkbox"/> NaOH		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	Auger Hole 2	2.5'		1305	<input checked="" type="checkbox"/> Na ₂ S ₂ O ₃		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	Auger Hole 3	1'		1312	<input checked="" type="checkbox"/> None		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8	Auger Hole 3	2'		1315	<input checked="" type="checkbox"/> Other (Specify)		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9	Auger Hole 3	3'		1317	DW=Drinking Water SL=Sludge		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10	Auger Hole 4	1'		1319	GW = Groundwater S=Soil/Solid		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
					NP=Non-Potable Specify Other		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Special Instructions:

Relinquished by: Geoff Leaking Date: 4/25/17 Time: 1100 Received by: Geoff Leaking Date: 4/25/17 Time: 1100

Relinquished by: Geoff Leaking Date: 4/25/17 Time: 1100 Received by: Geoff Leaking Date: 4/25/17 Time: 1100

Relinquished by:

Date

Time

Received by:

Date

Time

Laboratory Comments:

Sample Containers Intact?
VOCs Free of Headspace?
Custody seals on container(s)
Custody seals on cooler(s)
Sample Hand Delivered
by Sampler/Client Rep.?
by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:

20.0°C

