LINN ENERGY
2130 W. Bender Blvd.
Hobbs, NM 88241
Phone 575.738.1739

Skelly Unit Tank Battery #1

Closure Report

2RP-1247

API 30-015-22262

Release Date: July 28, 2012

Unit Letter A, Section 22, Township 17S, Range 31E

Rice Environmental Consulting & Safety
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

August 29, 2012

Mike Bratcher
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau – District 2
811 S. First St.
Artesia, NM 88210

RE: **TERMINATION REQUEST**
Linn Energy – Skelly Unit Tank Battery #1 AD
UL/A sec. 22 T17S R31E
API No. 30-015-22262
2RP-1247

Mr. Bratcher:

Linn Energy has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the site referenced above.

Background and Previous Work

The site is an accidental discharge of crude oil associated with the Skelly Unit Tank Battery #1. A compressor failed and caused high pressure in lines. Gas began venting and ignited at the flare. Fluids escaped, also catching fire, and burned the liner. The fire spread over the berm and ruptured a poly line releasing burning fluids into pasture land. The fire was extinguished and the line was repaired. An initial form C-141 was submitted by Linn Energy on August 2, 2012 (Appendix A). The site is located approximately 7 miles east of Loco Hills in unit letter 'A' of section 22, T17S, R31E in Eddy County, New Mexico.

On August 10, 2012, RECS personnel initiated work on the Skelly Unit Tank Battery #1. Soil samples were collected from ground surface and at depth and field tested for chloride. Headspace measurements were also taken in the field using a Photo Ionization Detector (PID) (Figure 1). The samples were taken from a central sample point within the leak area and were submitted to a commercial laboratory for chloride and TPH (GRO/DRO) analyses (Appendix C).

The leak area was excavated to 1 ft. below ground surface (bgs) and a representative composite sample was taken from the excavation bottom (Figure 2). The sample was similarly field tested and sent to a laboratory for chloride and TPH confirmation (Appendix C). The sample contained 16 mg/kg chloride, and 37.3 mg/kg TPH.

Impacted soils were removed to a NMOCD approved disposal facility. The excavation was backfilled with clean imported topsoil (chloride 16 mg/kg – Appendix C), and the site was contoured to the surrounding landscape. See Appendix B for photographs of field activities.

Conclusion

Due to the removal of impacted soils relative to necessary groundwater depth at 197 ft. (Appendix D), RECS, on behalf of Linn Energy, submits the final C-141 (Appendix E) and respectfully requests the closure of the regulatory file for this site.

RECS appreciates the opportunity to work with you on this project. Please call me at the number below if you have any questions or comments.

Sincerely,

Bruce Baker

Bruce Baker
Head Foreman
RECS
(575) 631-5157

Attachments:

Figure 1:	Site Plat with Initial Release and Sample Data
Figure 2:	Site Plat with Second Release and Soil Bore Sampling Data
Appendix A:	Initial Form C-141
Appendix B:	Site Photographs
Appendix C:	Laboratory Results
Appendix D:	Groundwater Study
Appendix E:	Final Form C-141

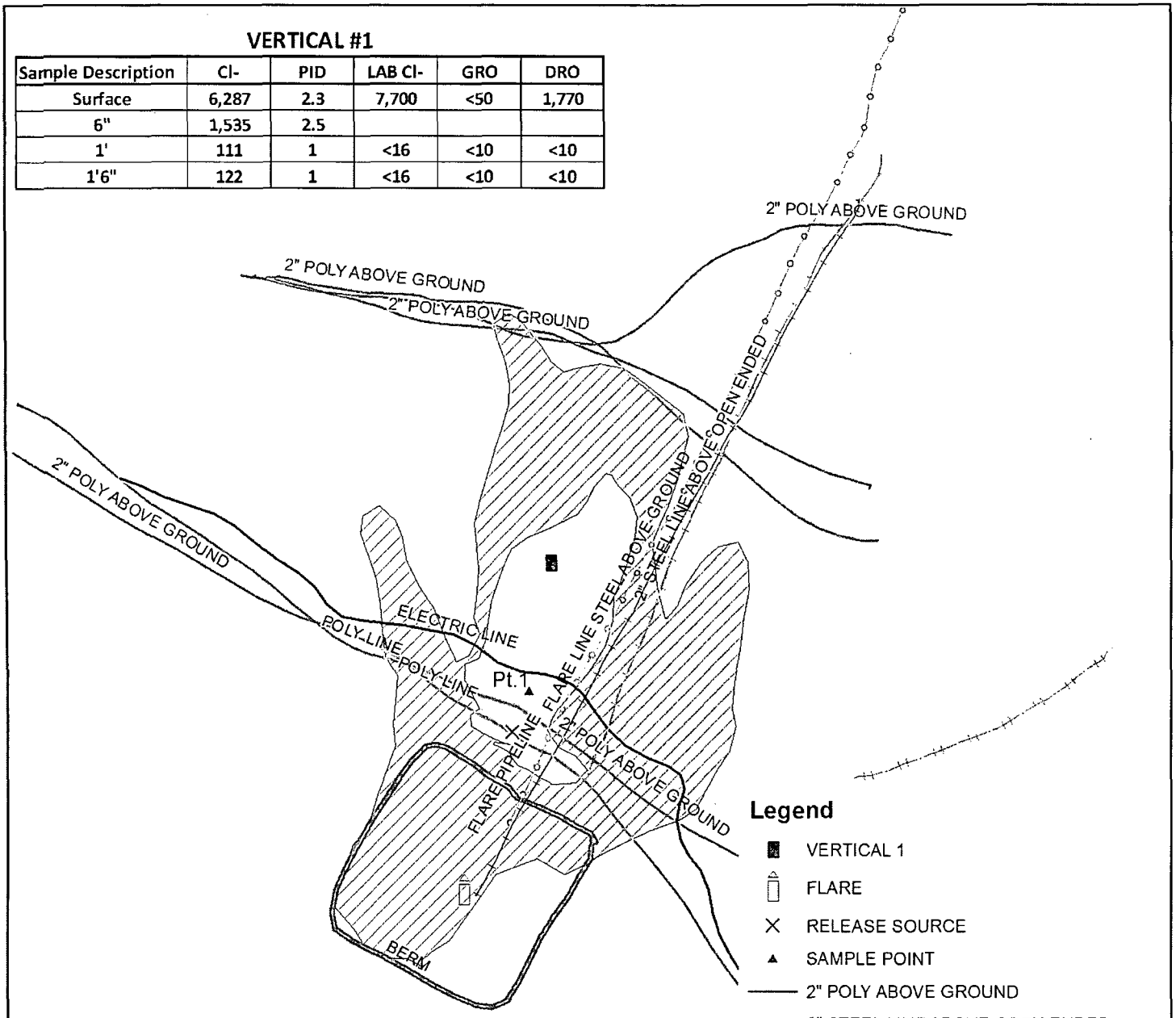
Figures

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

Site Plat

VERTICAL #1

Sample Description	Cl-	PID	LAB Cl-	GRO	DRO
Surface	6,287	2.3	7,700	<50	1,770
6"	1,535	2.5			
1'	111	1	<16	<10	<10
1'6"	122	1	<16	<10	<10



Legend

- VERTICAL 1
- FLARE
- RELEASE SOURCE
- SAMPLE POINT
- 2" POLY ABOVE GROUND
- 2" STEEL LINE ABOVE OPEN ENDED
- ELECTRIC LINE ABOVE GROUND
- FLARE ELECTRIC LINE ABOVE GROUND
- FLARE LINE STEEL ABOVE GROUND
- LINN FIBERGLASS LINE UNDERGROUND
- BERM
- FIRE AREA (1,872 sq ft)
- STAIN (363 sq ft)

DGW = 197 ft
Landowner = BLM

RICE ENVIRONMENTAL CONSULTING & SAFETY, LLC

LINN ENERGY SKELLY UNIT TANK BATTERY #1 AD

LEGALS: UL/A sec. 22
T-17-S R-31-E
EDDY COUNTY, NM

Figure 1

N W E S

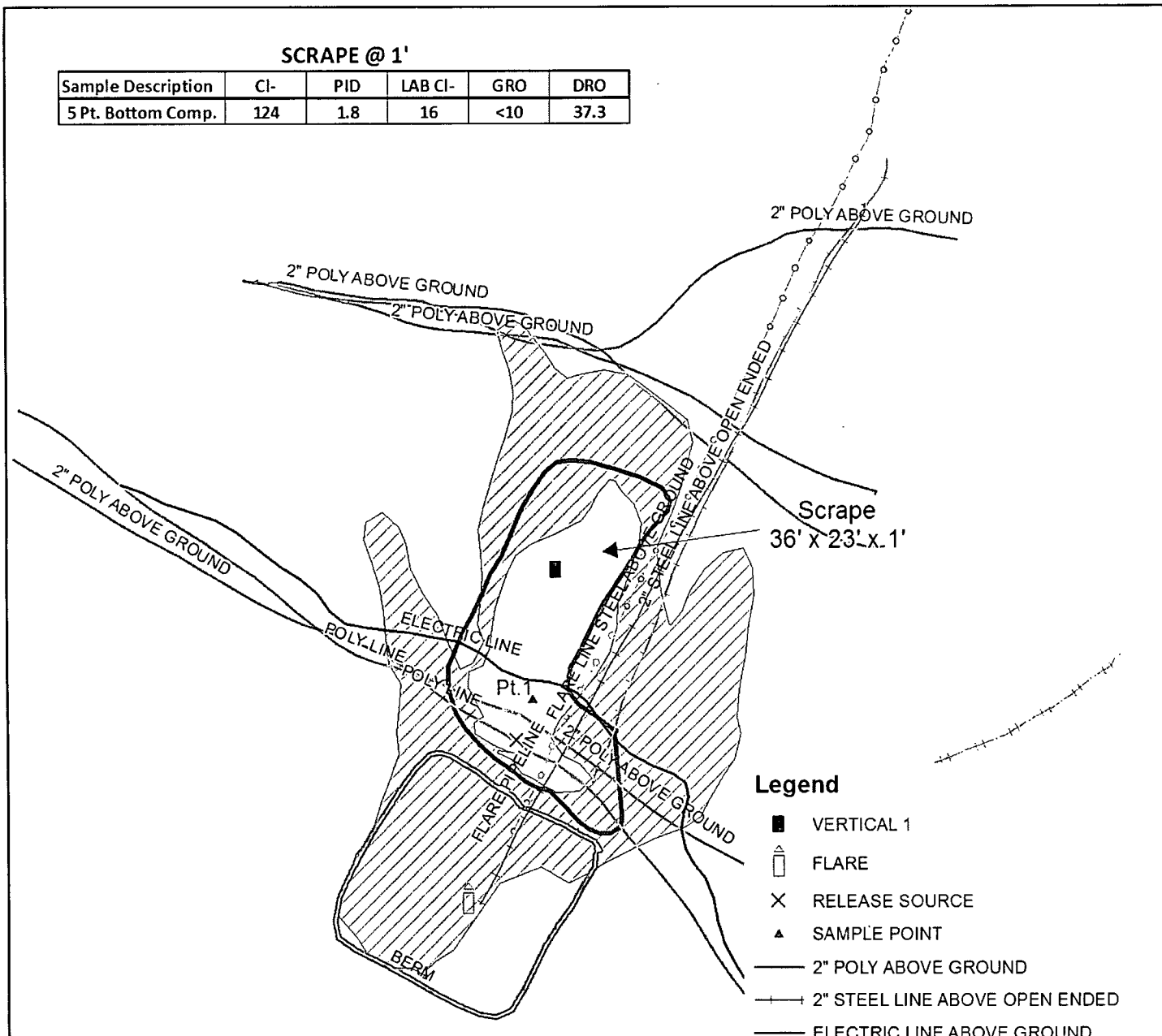
0 10 20
Feet

GPS date: 7/29/12 BB
Drawing date: 8/13/12
Drafted by: L. Weinheimer

Site Plat

SCRAPE @ 1'

Sample Description	Cl-	PID	LAB Cl-	GRO	DRO
5 Pt. Bottom Comp.	124	1.8	16	<10	37.3



Legend

- VERTICAL 1
- FLARE
- RELEASE SOURCE
- SAMPLE POINT
- 2" POLY ABOVE GROUND
- 2" STEEL LINE ABOVE OPEN ENDED
- ELECTRIC LINE ABOVE GROUND
- FLARE ELECTRIC LINE ABOVE GROUND
- FLARE LINE STEEL ABOVE GROUND
- LINN FIBERGLASS LINE UNDERGROUND
- BERM
- SCRAPE
- FIRE AREA (1,872 sq ft)
- STAIN (363 sq ft)

DGW = 197 ft
Landowner = BLM

RICE ENVIRONMENTAL CONSULTING & SAFETY, LLC

LINN ENERGY SKELLY UNIT TANK BATTERY #1 AD

LEGALS: UL/A sec. 22
T-17-S R-31-E
EDDY COUNTY, NM

Figure 2

N W E S

0 10 20 Feet

GPS date: 7/29/12 BB
Drawing date: 8/13/12
Drafted by: L. Weinheimer

Appendix A

Initial Form C-141

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

District I
1625 N French Dr , Hobbs, NM 88240
District II
1301 W Grand Avenue, 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

RECEIVED
AUG 02 2012
NMOCD ARTESIA

Form C-141
Revised October 10, 2003
Submit 1 Copy to appropriate District Office in accordance with 19 15.29 NMAC

Release Notification and Corrective Action

nJMW1222231509

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Linn Operating 269324	Contact: Joe Hernandez
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No.: 575-738-1739
Facility Name: Skelly A Tank Battery- Skelly 128	Facility Type: Battery

Surface Owner: Federal	Mineral Owner: Federal	API No.: 3001522262

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	22	17S	31E	450	North	450	East	Eddy

Latitude: 32.8261140037943 **Longitude:** -103.850406737217

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 3 bbls	Volume Recovered: 0
Source of Release: Poly Pipeline	Date and Hour of Occurrence: 07/28/2012 9am	Date and Hour of Discovery: 07/28/2012 9:30am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? M. Bratcher-NM OCD Terry Gregston-BLM	
By Whom? Joe Hernandez	Date and Hour 07/28/2012 11:35am	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*:

Describe Cause of Problem and Remedial Action Taken *: Compressor went down, caused high pressure, gas started venting and then burning at flare. Fluid started coming out and fluid caught on fire. Fire spread and caught plastic liner on fire. Fire jumped over dike burning 3" poly line for COG 2" hole was blown in line. Further remedial action pending .

Describe Area Affected and Cleanup Action Taken.* : A 40' x 25' area was sprayed with oil. Gang repaired line, Roger(pumper) called Loco Hills fire department. Fire was extinguished and foam was sprayed over area 40' Electric line for Skelly #128 had to be replaced.

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:	OIL CONSERVATION DIVISION
Printed Name: Joe Hernandez	Approved by District Supervisor: Signed By Mike Bratcher
Title: Production Foreman	Approval Date: AUG 09 2012 / Expiration Date:
E-mail Address: jhernandez@linnenergy.com	Conditions of Approval: / Attached ☐
Date: 08/02/2012 Phone: 575-942-9492	

* Attach Additional Sheets If Necessary

2RP-1247

Remediation per OCD Rules & Guidelines. **SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:** 9/9/12

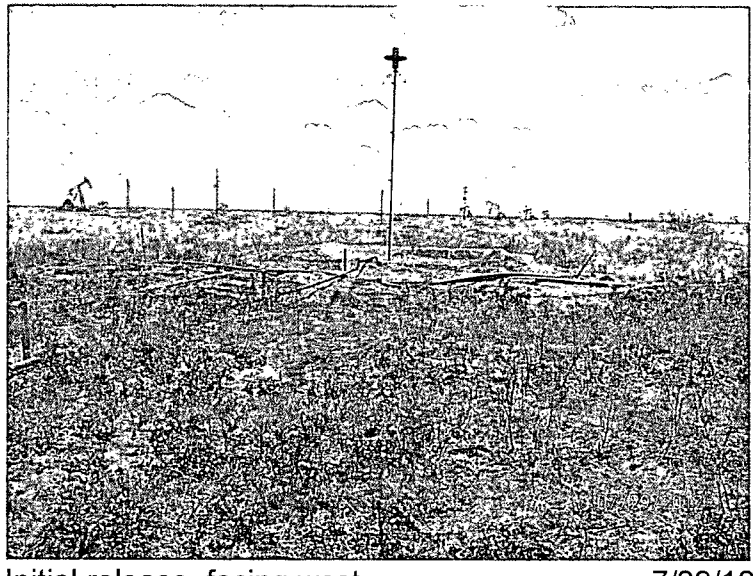
Appendix B

Site Photographs

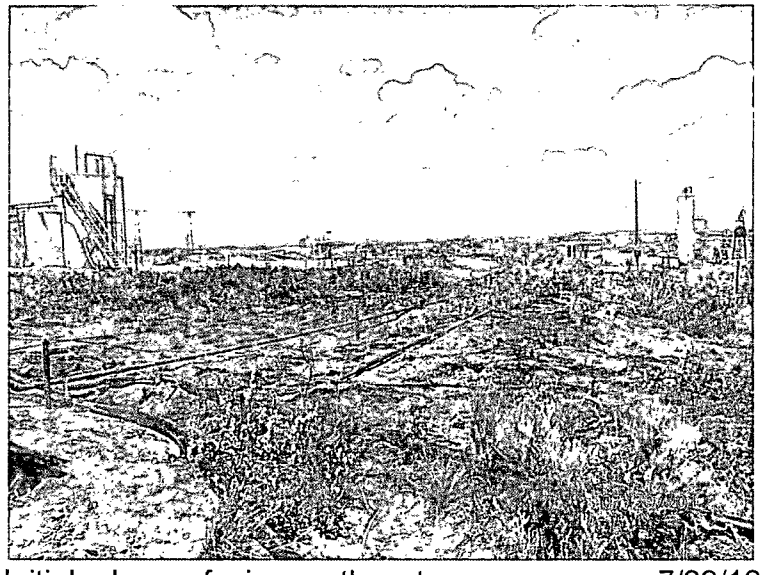
RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

Linn Skelly Unit Tank Battery #1 AD

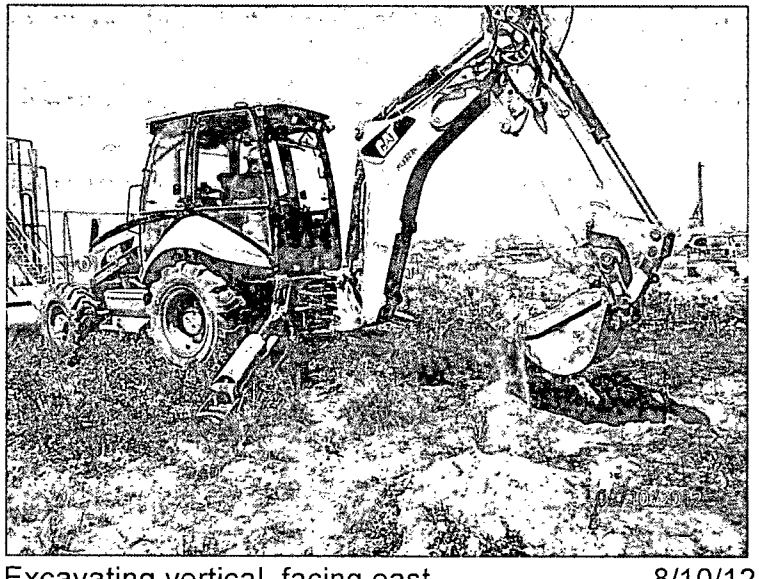
Unit Letter A, Section 22, T17S, R31E



Initial release, facing west 7/29/12

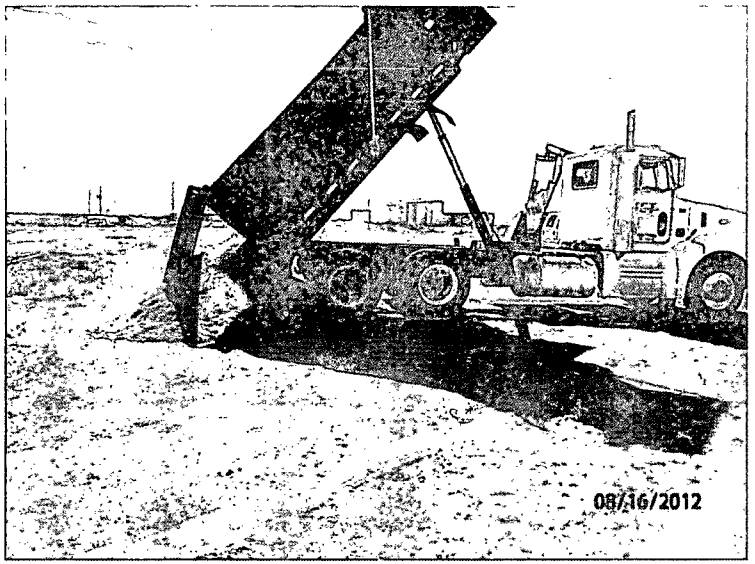


Initial release, facing northeast 7/29/12

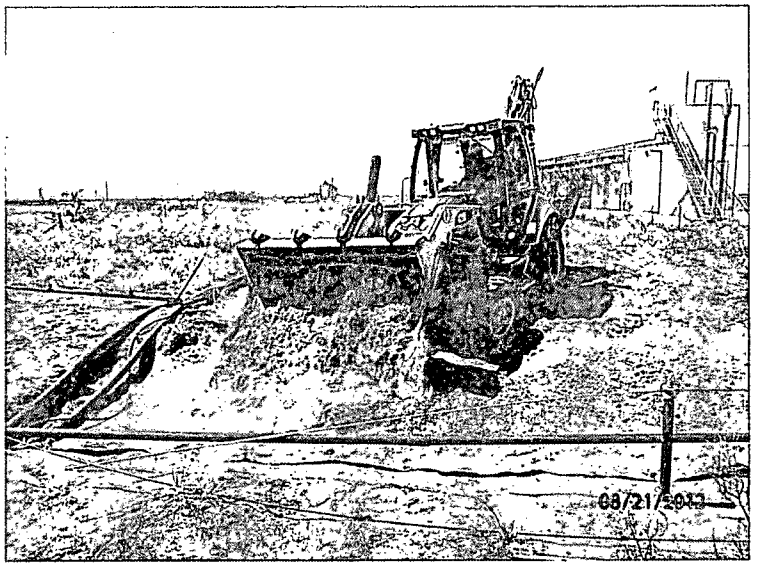


Excavating vertical, facing east 8/10/12

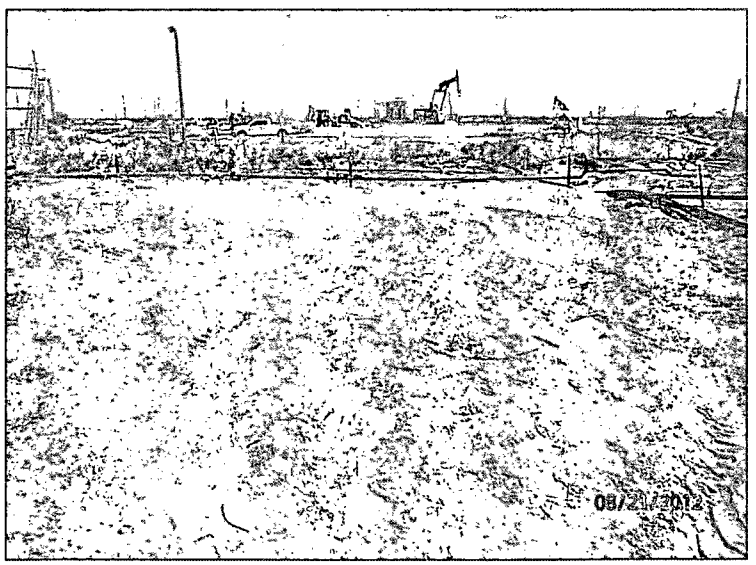
Excavating near lines, facing east 8/13/12



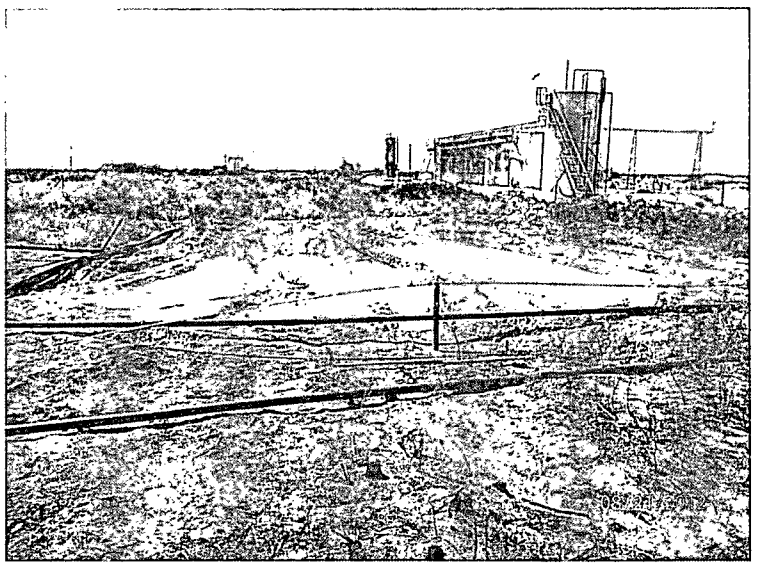
Importing backfill, facing south 8/16/12



Backfilling excavation, facing north 8/21/12



Site complete, facing south 8/21/12



Site complete, facing north 8/21/12

Appendix C

Laboratory Results

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

CARDINAL Laboratories

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

August 16, 2012

BRUCE BAKER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: SKELLY UNIT BATTERY #1

Enclosed are the results of analyses for samples received by the laboratory on 08/10/12 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 accreditated 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,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
BRUCE BAKER
112 W. TAYLOR
HOBBS NM, 88240
Fax To: (575) 397-1471

Received:	08/10/2012	Sampling Date:	08/10/2012
Reported:	08/16/2012	Sampling Type:	Soil
Project Name:	SKELLY UNIT BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERTICAL #1 SURFACE (H201874-01)

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**7700**	16.0	08/15/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	08/14/2012	ND	190	94.9	200	2.75	
DRO >C10-C28	**1770**	50.0	08/14/2012	ND	195	97.5	200	5.51	

Surrogate: 1-Chlorooctane	*89.8 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*139 %*	*63.6-154*

Sample ID: VERTICAL #1 @ 1' (H201874-02)

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/15/2012	ND	416	104	400	0.00	

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	08/14/2012	ND	190	94.9	200	2.75	
DRO >C10-C28	<10.0	10.0	08/14/2012	ND	195	97.5	200	5.51	

Surrogate: 1-Chlorooctane	*101 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*101 %*	*63.6-154*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
BRUCE BAKER
112 W. TAYLOR
HOBBS NM, 88240
Fax To: (575) 397-1471

Received:	08/10/2012	Sampling Date:	08/10/2012
Reported:	08/16/2012	Sampling Type:	Soil
Project Name:	SKELLY UNIT BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: VERTICAL #1 @ 1' 6" (H201874-03)

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/15/2012	ND	416	104	400	0.00	

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	08/14/2012	ND	190	94.9	200	2.75	
DRO >C10-C28	<10.0	10.0	08/14/2012	ND	195	97.5	200	5.51	

Surrogate: 1-Chlorooctane	*92.4 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*95.2 %*	*63.6-154*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:	ECS	**BILL TO**	
Project Manager:	Bruce Baker	P.O. #:	
Address:		Company:	
City:	State: Zip:	Attn:	
Phone #:	Fax #:	Address:	
Project #:	Project Owner:	City:	
Project Name:	Skelly Unit Battery #1	State: Zip:	
Project Location:		Phone #:	
Sampler Name:	Dexter Harris	Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS
H201874																				
1	Vertical #1 Surface	G	1			✓					✓		9/8/12	8:35	✓	✓				
2	Vertical #1 @ 1'	G	1			✓					✓		9/8/12	8:40	✓	✓				
3	Vertical #1 @ 1'6"	G	1			✓					✓		9/8/12	8:45	✓	✓				

Relinquished By:	Date: 9/10/12	Received By:	Phone Result: ☐ Yes ☑ No Add'l Phone #:
	Time: 4:45	Yadi Henson	Fax Result: ☐ Yes ☑ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: email results
	Time:		Zconder@rice-ecs.com; Bbaker@rice-ecs.com; nconder@rice-ecs.com; Lweinheimer@rice-ecs.com

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Sample Condition: Cool ☑ Yes ☐ No / Intact ☑ Yes ☐ No

CHECKED BY: (Initials)

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26

CARDINAL Laboratories

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

August 22, 2012

BRUCE BAKER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: SKELLY UNIT BATTERY #1

Enclosed are the results of analyses for samples received by the laboratory on 08/17/12 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 accreditated 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,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
BRUCE BAKER
112 W. TAYLOR
HOBBS NM, 88240
Fax To: (575) 397-1471

Received:	08/17/2012	Sampling Date:	08/14/2012
Reported:	08/22/2012	Sampling Type:	Soil
Project Name:	SKELLY UNIT BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SCRAPE @ 1' 5 PT BTM COMP (H201936-01)

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/20/2012	ND	416	104	400	3.92	

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	08/21/2012	ND	191	95.4	200	1.37	
DRO >C10-C28	**37.3**	10.0	08/21/2012	ND	192	95.8	200	3.35	

Surrogate: 1-Chlorooctane	*94.6 %*	*65.2-140*
Surrogate: 1-Chlorooctadecane	*97.4 %*	*63.6-154*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name: ~~Apache~~ RECS	BILL TO	P.O. #:	
Project Manager: Bruce Baker		Company:	
Address:		Attn:	
City: State: Zip:		Address:	
Phone #: Fax #:		City:	
Project #: Project Owner:		State: Zip:	
Project Name: Skelly Unit Battery #1		Phone #:	
Project Location:		Fax #:	
Sampler Name: D. Etheridge			

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST										
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	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS					
H20193-1	Skelly Unit Battery (Comp)	C	1			✓					✓		8-14-12	9:00	✓	✓									

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 8-17-12	Received By:		Phone Result: ☐ Yes ☑ No	Add'l Phone #:
	Time: 0745			Fax Result: ☐ Yes ☑ No	Add'l Fax #:
Relinquished By:	Date: 8-17-12	Received By:		REMARKS: email results	
	Time: 0800			Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com	
Delivered By: (Circle-One) Sampler - UPS - Bus - Other:		Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26

CARDINAL Laboratories

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

August 27, 2012

BRUCE BAKER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: SKELLY UNIT BATTERY #1

Enclosed are the results of analyses for samples received by the laboratory on 08/23/12 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 accreditated 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,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
BRUCE BAKER
112 W. TAYLOR
HOBBS NM, 88240
Fax To: (575) 397-1471

Received:	08/23/2012	Sampling Date:	08/21/2012
Reported:	08/27/2012	Sampling Type:	Soil
Project Name:	SKELLY UNIT BATTERY #1	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: IMPORTED SOIL (H202017-01)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/24/2012	ND	400	100	400	4.08	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

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

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name: RECS	BILL TO	P.O. #:	
Project Manager: Bruce Baker		Company:	
Address:		Attn:	
City: State: NM Zip: 88240		Address:	
Phone #: Fax #:		City:	
Project #: Project Owner:		State: Zip:	
Project Name: Stony Wash Battery #1		Phone #:	
Project Location:		Fax #:	
Sampler Name: Dak Harris			

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST											
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	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS						
H202017 -1	Impacted Soil	G	1			X							8/23/12	9:45	X											

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 8-23-12	Received By:	Phone Result: ☐ Yes ☑ No Add'l Phone #:
	Time: 7:00		Fax Result: ☐ Yes ☑ No Add'l Fax #:
Relinquished By:	Date: 8-23-12	Received By:	REMARKS: email results
	Time: 1:00		Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool ☐ Yes ☐ No Intact ☑ Yes ☐ No	CHECKED BY: (Initials)

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26

Appendix D

Groundwater Study

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

Linn
Company

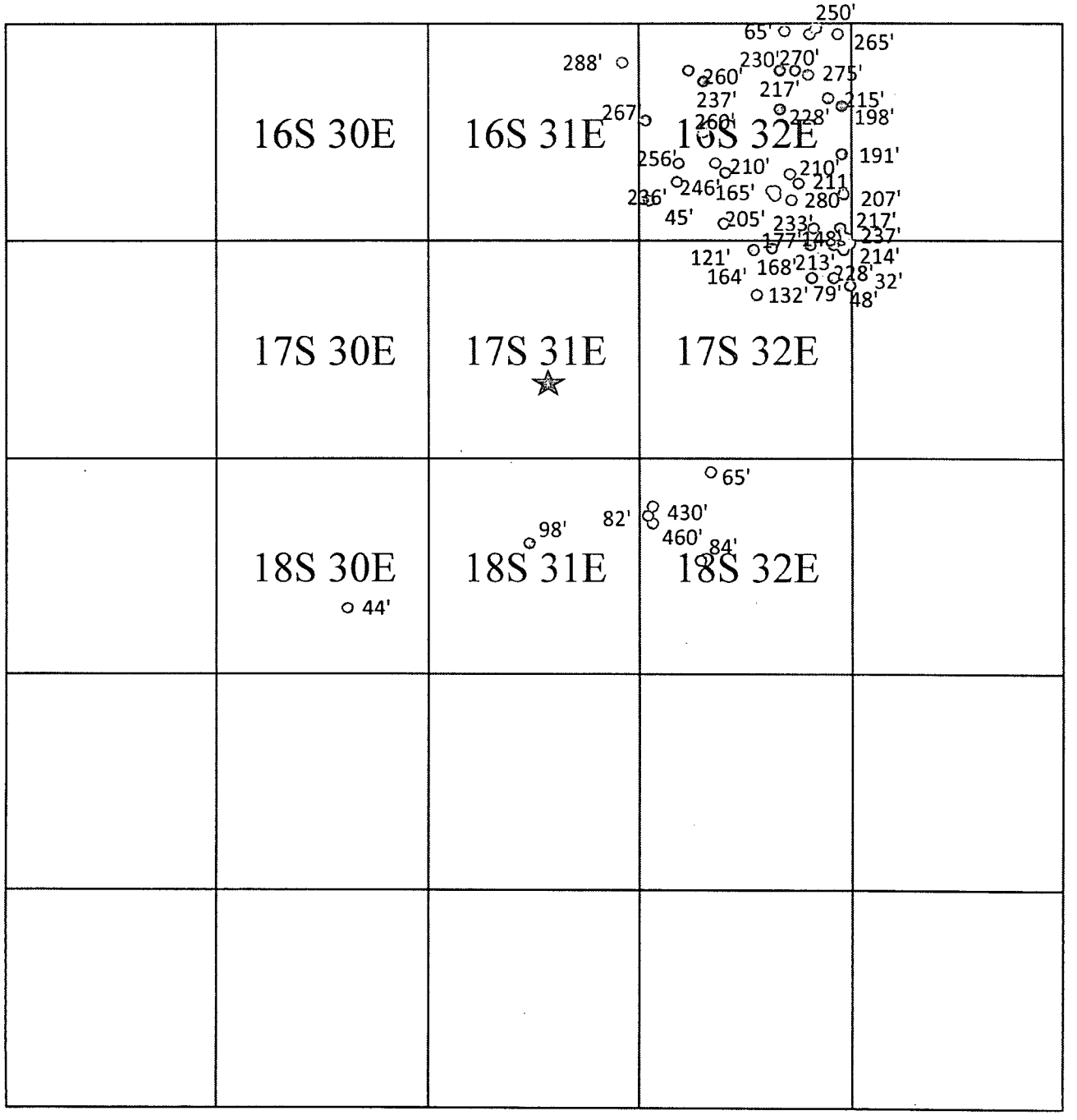
Skelly Unit Tank Battery #1 AD
site name

A	22	T17S	R31E
Unit Letter	Section	Township	Range

Groundwater Depth: 197 ft

Compiled by: Amy C. Ruth Date: 7/30/2012

Comments:



○ = Wells of unknown use (USGS)

● = Non-production wells
(commercial, sanitation, domestic, stock)

☆ = Subject Site

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

No records found.

PLSS Search:

Township: 16S **Range:** 30E

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	POD Code	Subbasin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Depth Well	Depth Water	Water Column
L 03435		L	LE		1	1	05	16S	31E	602954	3646955*			
L 04671		L	LE	1	1	2	12	16S	31E	610114	3645538*	340	288	52
L 10203		L	LE	4	4	3	14	16S	31E	608334	3642495*	310		
L 10206		L	LE		2	2	23	16S	31E	609045	3642204*	280		

Average Depth to Water: **288 feet**

Minimum Depth: **288 feet**

Maximum Depth: **288 feet**

Record Count: 4

PLSS Search:

Township: 16S **Range:** 31E

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

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	POD Code	Subbasin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Depth Well	Depth Water	Water Column
L 02381	L		LE	3	1		13	16S	32E	619086	3643515*	308	215	93
L 02434	L		LE				01	16S	32E	619661	3646531*	337		
L 02449	L		LE				01	16S	32E	619661	3646531*	330	265	65
L 02617	L		LE		4	4	02	16S	32E	618656	3645924*	322	270	52
L 02752	L		LE		1	3	26	16S	32E	617521	3639880*	324	280	44
L 02846	L		LE	4	2	1	11	16S	32E	617956	3645413*	328	275	53
L 02954	L		LE		2	4	03	16S	32E	617043	3646310*	120	65	55
L 02993	L		LE	3	3	2	15	16S	32E	616572	3643391*	100		
L 03631	L		LE		1	2	02	16S	32E	618240	3647126*	315	250	65
L 04930	L		LE			1	23	16S	32E	617698	3642092*	307	210	97
L 06557	L		LE		1	4	21	16S	32E	615089	3641466*	295	210	85
L 06807	L		LE	1	4	4	09	16S	32E	615356	3644383*	290	248	42
L 08084	L		LE	1	1	1	16	16S	32E	614157	3643970*	317	260	57
L 08084 POD4	L		LE			2	26	16S	32E	618522	3640492*	303	233	70
L 08084 POD5	L		LE	4	1	4	26	16S	32E	618425	3639788*	296	165	131
L 08084 S3	L		LE			2	26	16S	32E	618522	3640492*	305	205	100
L 10204	L		LE	4	2	2	04	16S	32E	615524	3646993*	319		
L 10205	L		LE		4	1	08	16S	32E	613038	3645066*	330		
L 11189	L		LE	1	1	4	04	16S	32E	614932	3646391*	350		

Average Depth to Water: **225 feet**

Minimum Depth: **65 feet**

Maximum Depth: **280 feet**

Record Count: 19

PLSS Search:

Township: 16S **Range:** 32E

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

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

No records found.

PLSS Search:

Township: 17S **Range:** 30E

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	POD Code	Subbasin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
RA 11590 POD1			ED	2	1	3	32	17S	31E	603315	3628545	158		
RA 11590 POD3			ED	3	1	2	32	17S	31E	603932	3629260	60		
RA 11590 POD4			ED	4	1	1	32	17S	31E	603308	3629253	55		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 3

PLSS Search:

Township: 17S **Range:** 31E

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	POD Code	Subbasin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 04019		L	LE	4	3	4	02	17S	32E	618468	3636166*	182		
L 04020		L	LE	3	3	4	02	17S	32E	618268	3636166*	200		
L 04021	R	L	LE	3	4	4	02	17S	32E	618670	3636170*	190		
L 04021 POD3		L	LE		3	4	03	17S	32E	616761	3636252*	247		
L 04021 S		L	LE	2	4	4	03	17S	32E	617262	3636354*	260		
L 13047 POD1		L	LE				11	17S	32E	618187	3635254*	140		
L 13050 POD1		L	LE	2	2	1	10	17S	32E	616463	3635945*	156	132	24
RA 08855			LE	4	1	1	10	17S	32E	616061	3635742*	158		
RA 09505			LE	2	2	1	10	17S	32E	616462	3635944	147		
RA 09505 S			LE	2	2	1	10	17S	32E	616463	3635945*	144		
RA 10175			LE		2	1	28	17S	32E	614814	3631005*	158		
RA 11684 POD1			LE	1	1	4	11	17S	32E	618216	3635124	275		
RA 11684 POD2			LE	1	1	4	11	17S	32E	618313	3635248	275		
RA 11684 POD3			LE	3	3	1	11	17S	32E	618262	3635371	275		
RA 11684 POD4			LE	1	3	2	11	17S	32E	618334	3635521	275		
RA 11684 POD5			LE	3	1	4	11	17S	32E	618353	3635047	275		
RA 11734 POD1			LE	2	2	1	10	17S	32E	616556	3635929	165		

Average Depth to Water: **132 feet**

Minimum Depth: **132 feet**

Maximum Depth: **132 feet**

Record Count: 17

PLSS Search:

Township: 17S **Range:** 32E

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

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	POD Code	Subbasin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 00818			LE	1	4		26	18S	30E	599289	3620364*	240		
CP 00819			LE	2	4		32	18S	30E	594878	3618720*	150		
L 01978		L	LE	1	3		23	18S	30E	598469	3621964*	65	44	21

Average Depth to Water: **44 feet**

Minimum Depth: **44 feet**

Maximum Depth: **44 feet**

Record Count: 3

PLSS Search:

Township: 18S **Range:** 30E

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

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	POD Code	Subbasin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 11092		L	LE	2	3	15	18S	31E		606849	3623669*	160	98	62

Average Depth to Water: **98 feet**

Minimum Depth: **98 feet**

Maximum Depth: **98 feet**

Record Count: 1

PLSS Search:

Township: 18S **Range:** 31E

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

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	POD Code	Subbasin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 00566			LE	4	4	1	04	18S	32E	614960	3627280*	133	65	68
CP 00672			LE		4	4	07	18S	32E	612475	3624947*	524	430	94
CP 00672 CLW475398	O		LE		4	4	07	18S	32E	612475	3624947*	540	460	80
CP 00677			LE		1	1	26	18S	32E	617750	3621373*	700		

Average Depth to Water: **318 feet**

Minimum Depth: **65 feet**

Maximum Depth: **460 feet**

Record Count: 4

PLSS Search:

Township: 18S **Range:** 32E

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

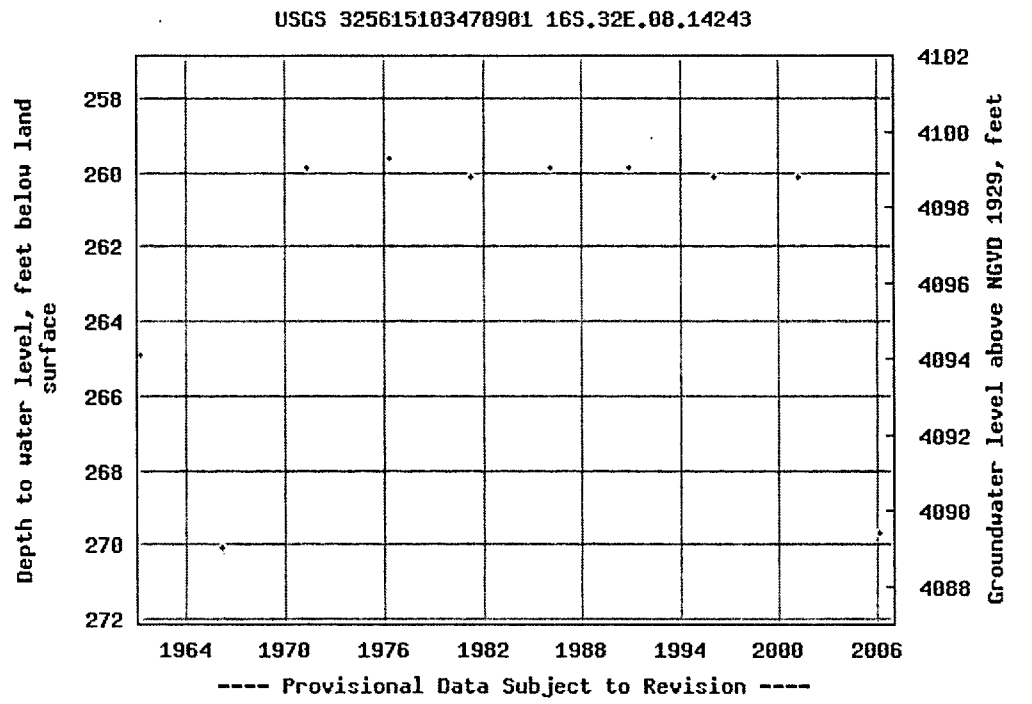
USGS 325615103470901 16S.32E.08.14243

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°56'18", Longitude 103°47'23" NAD27
Land-surface elevation 4,359.00 feet above NGVD29
The depth of the well is 280 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



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

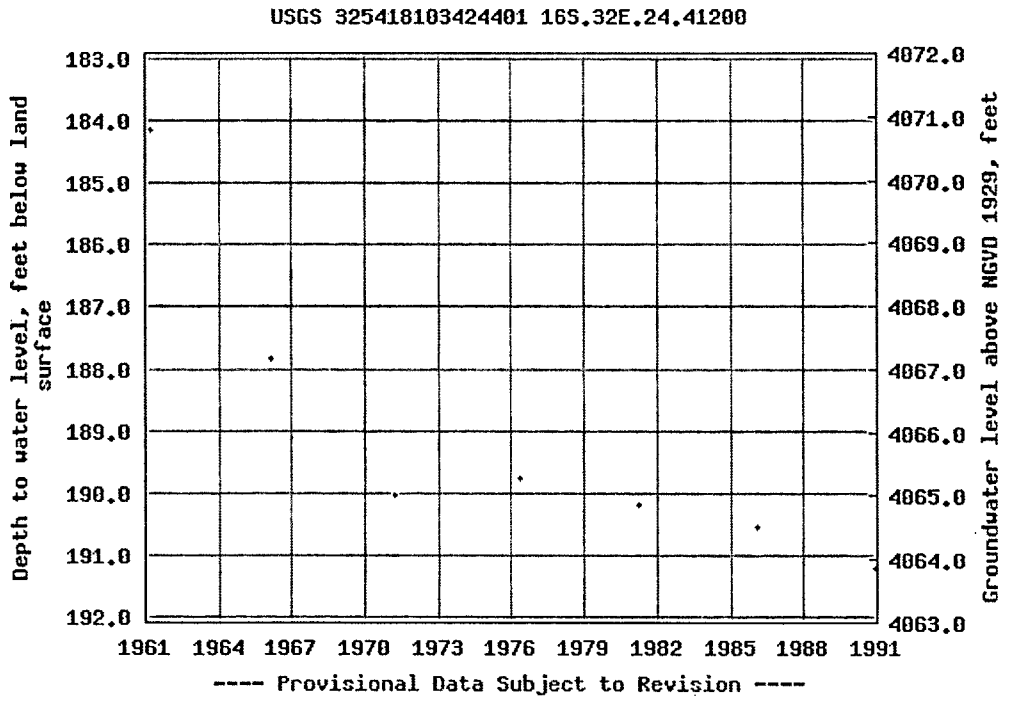
USGS 325418103424401 16S.32E.24.41200

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°54'22", Longitude 103°42'58" NAD27
Land-surface elevation 4,255.00 feet above NGVD29
The depth of the well is 197 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



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

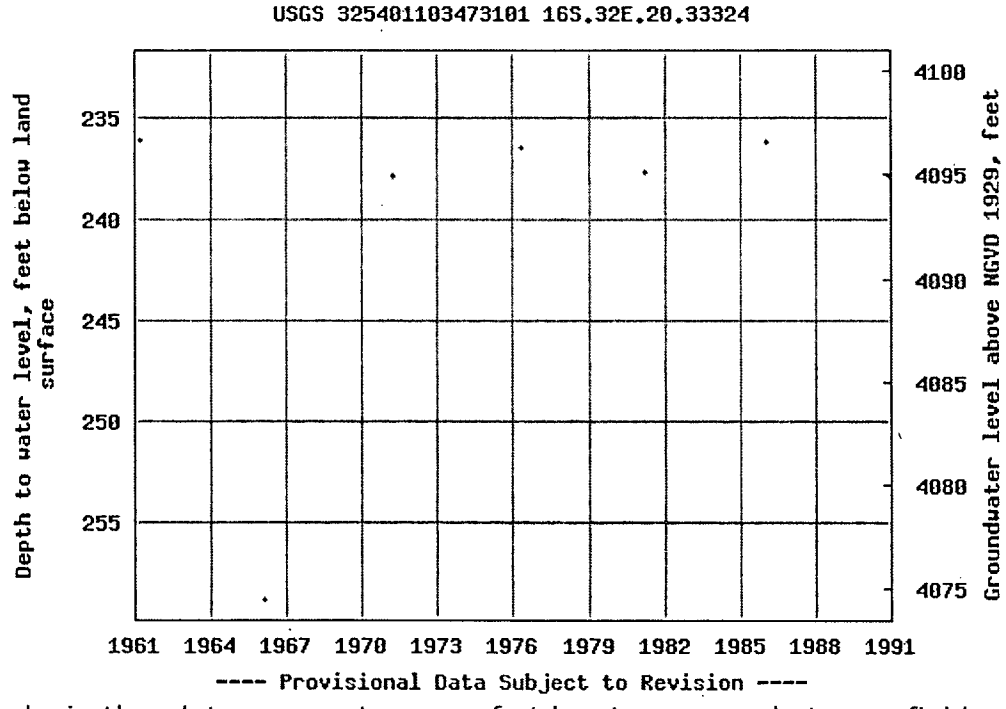
USGS 325401103473101 16S.32E.20.33324

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°54'03", Longitude 103°47'42" NAD27
Land-surface elevation 4,333.00 feet above NGVD29
This well is completed in the Ogallala Formation (121OGLL) 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.

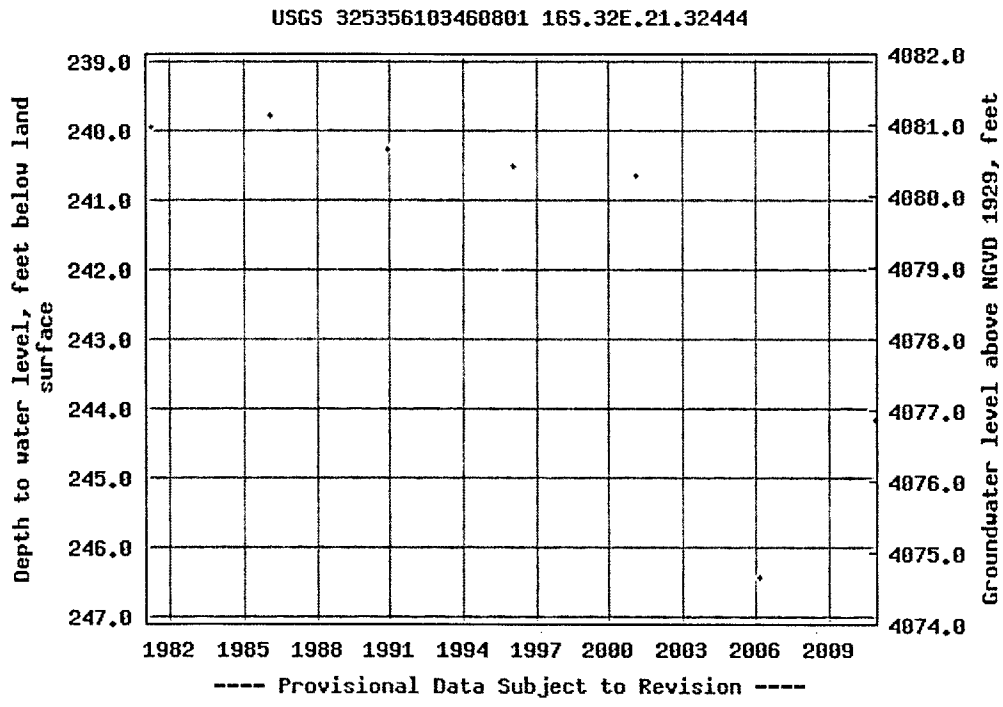
USGS 325356103460801 16S.32E.21.32444

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code --
Latitude 32°54'13", Longitude 103°46'18" NAD27
Land-surface elevation 4,321.00 feet above NGVD29
The depth of the well is 295 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



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

Download a presentation-quality graph

Questions about sites/data?

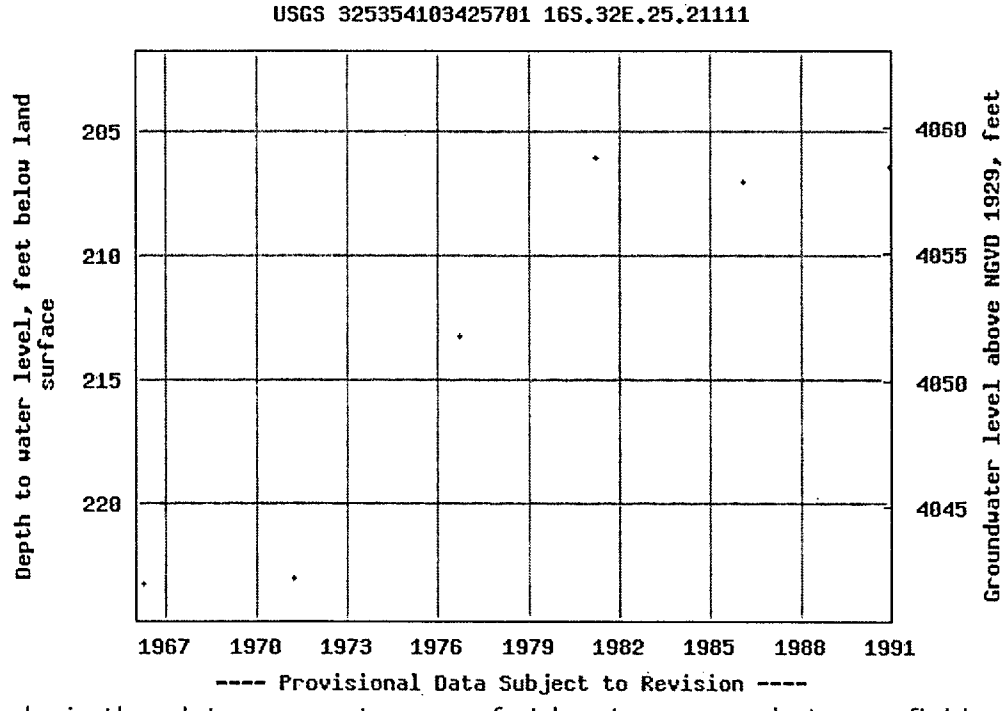
USGS 325354103425701 16S.32E.25.21111

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°53'58", Longitude 103°43'09" NAD27
Land-surface elevation 4,265.00 feet above NGVD29
The depth of the well is 310 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



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

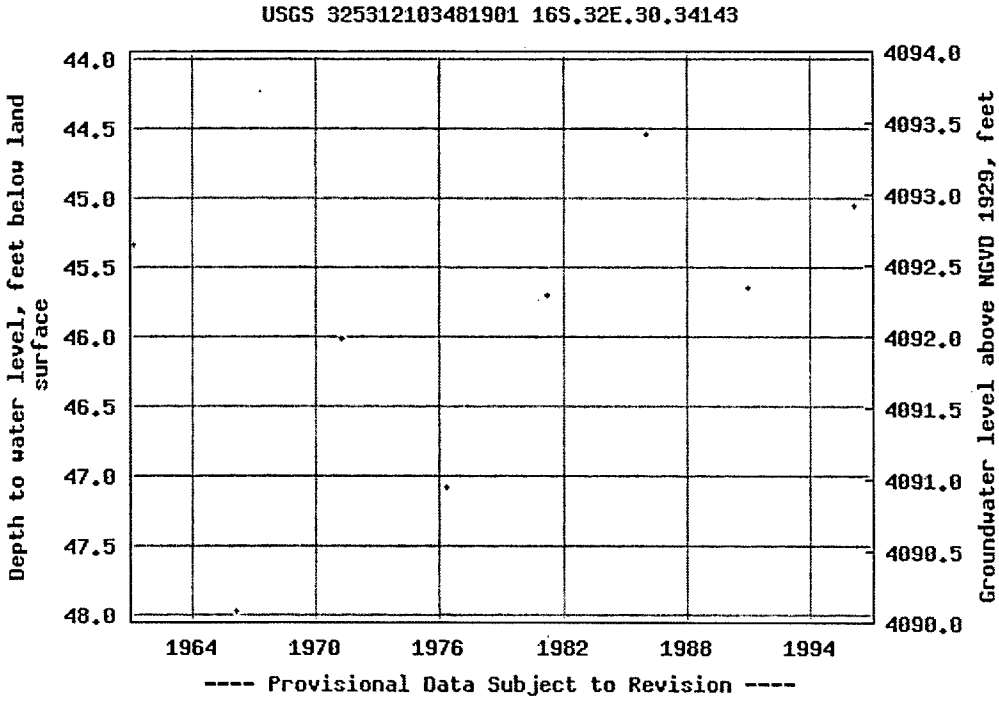
USGS 325312103481901 16S.32E.30.34143

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°53'14", Longitude 103°48'32" NAD27
Land-surface elevation 4,138.00 feet above NGVD29
The depth of the well is 101 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



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

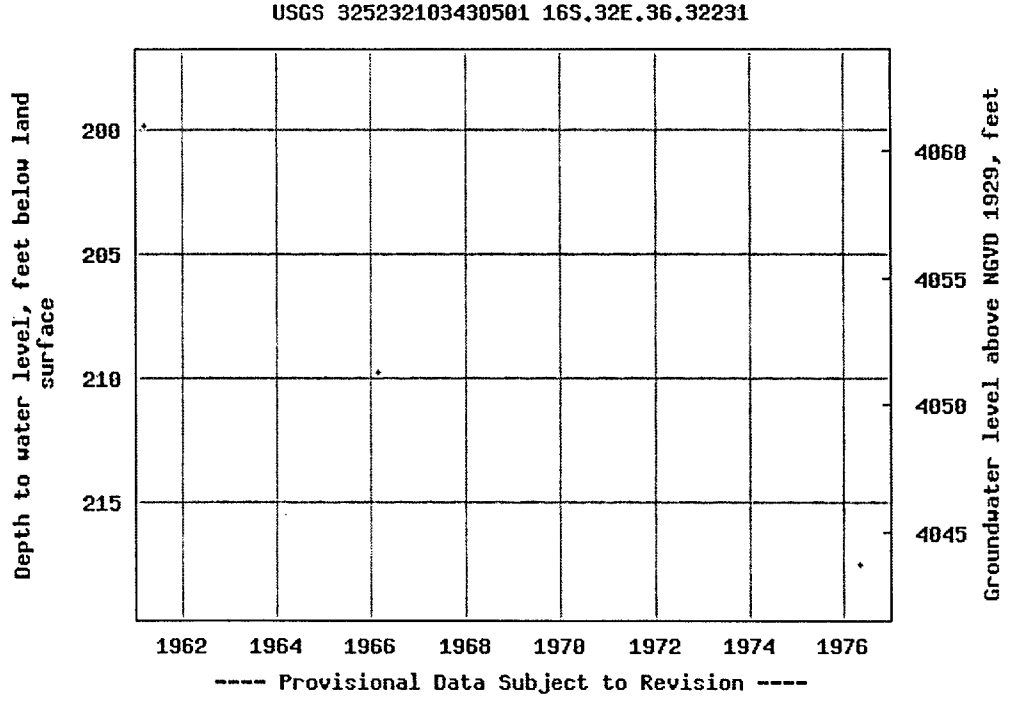
USGS 325232103430501 16S.32E.36.32231

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°52'37", Longitude 103°43'17" NAD27
Land-surface elevation 4,261.00 feet above NGVD29
The depth of the well is 268 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



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

Download a presentation-quality graph

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help

Data Tips
Explanation of terms
Subscribe for system changes

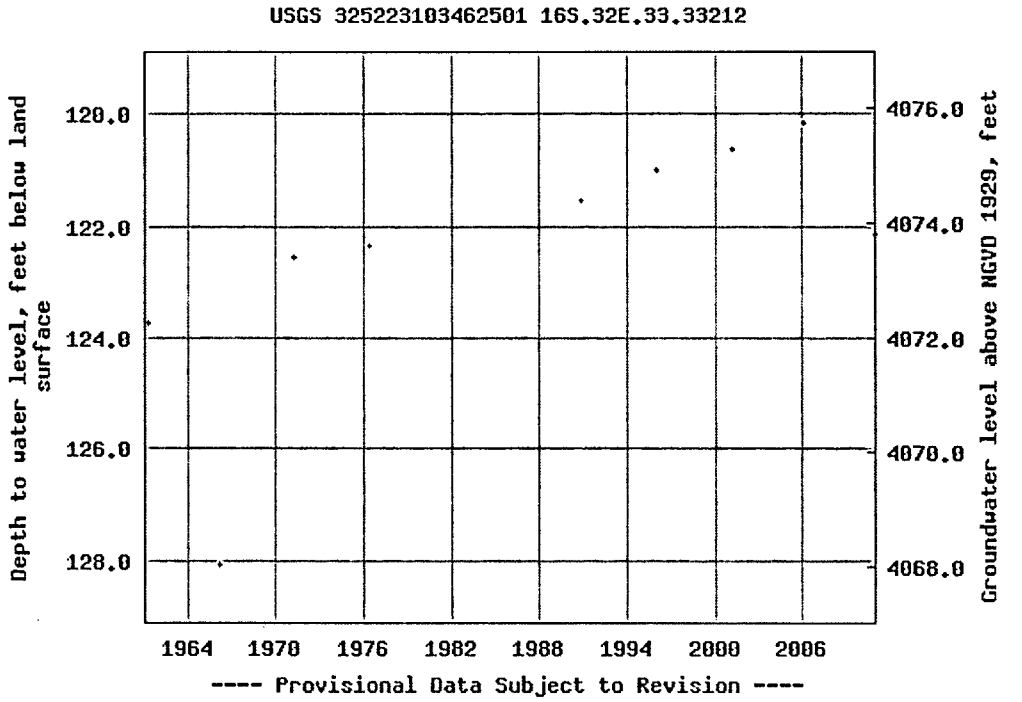
USGS 325223103462501 16S.32E.33.33212

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°52'26", Longitude 103°46'37" NAD27
Land-surface elevation 4,196.00 feet above NGVD29
This well is completed in the Ogallala Formation (121OGLL) 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.

Download a presentation-quality graph

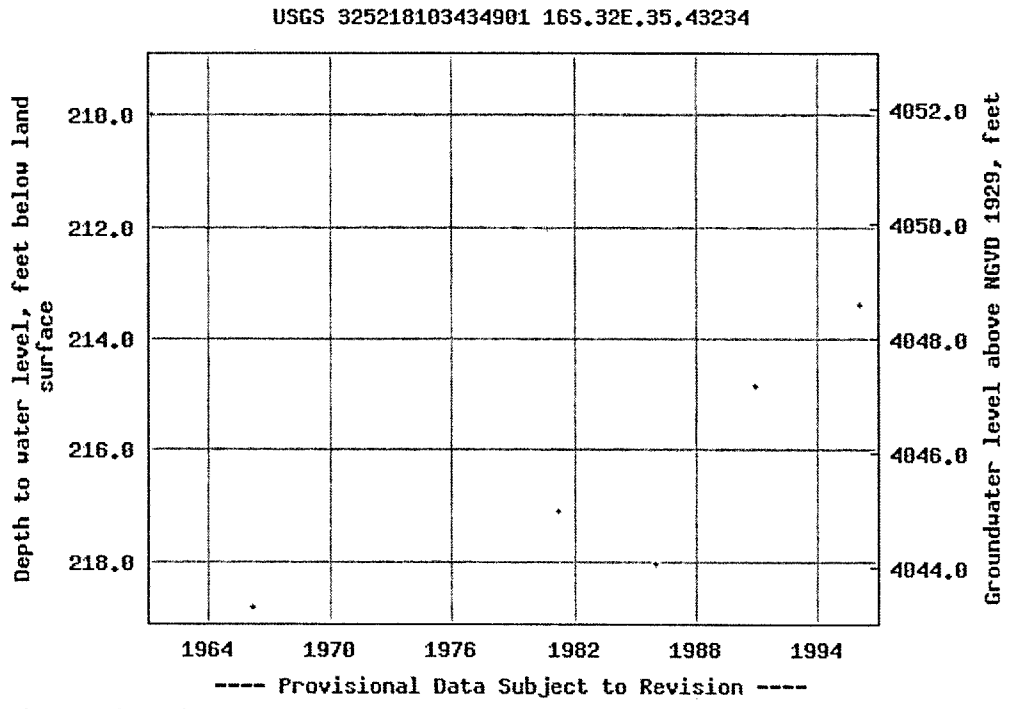
USGS 325218103434901 16S.32E.35.43234

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13060007
Latitude 32°52'23", Longitude 103°44'04" NAD27
Land-surface elevation 4,262.00 feet above NGVD29
The depth of the well is 290 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



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

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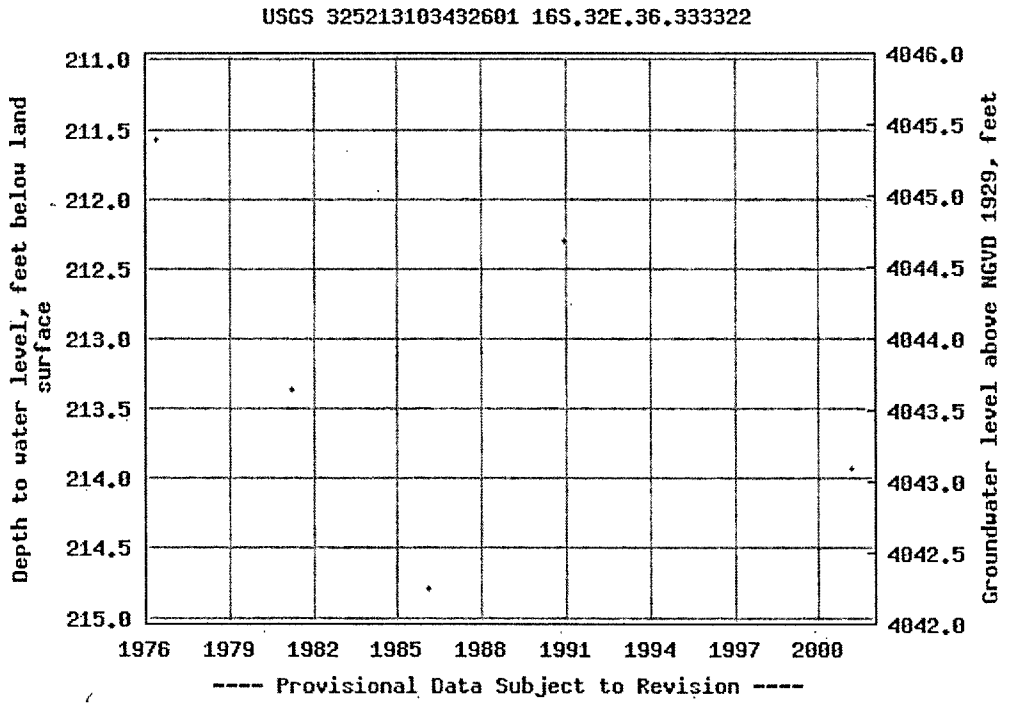
USGS 325213103432601 16S.32E.36.333322

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13060007
Latitude 32°52'18", Longitude 103°43'38" NAD27
Land-surface elevation 4,257.00 feet above NGVD29
The depth of the well is 267 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



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

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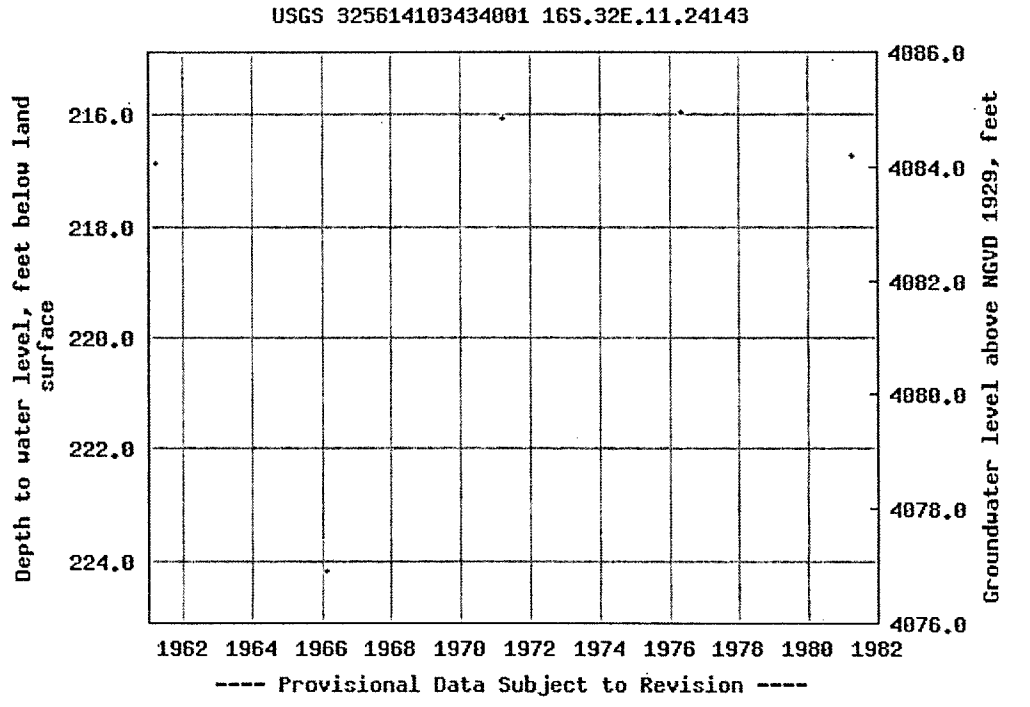
USGS 325614103434001 16S.32E.11.24143

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°56'17", Longitude 103°43'52" NAD27
Land-surface elevation 4,301.00 feet above NGVD29
The depth of the well is 317 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



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

Download a presentation-quality graph

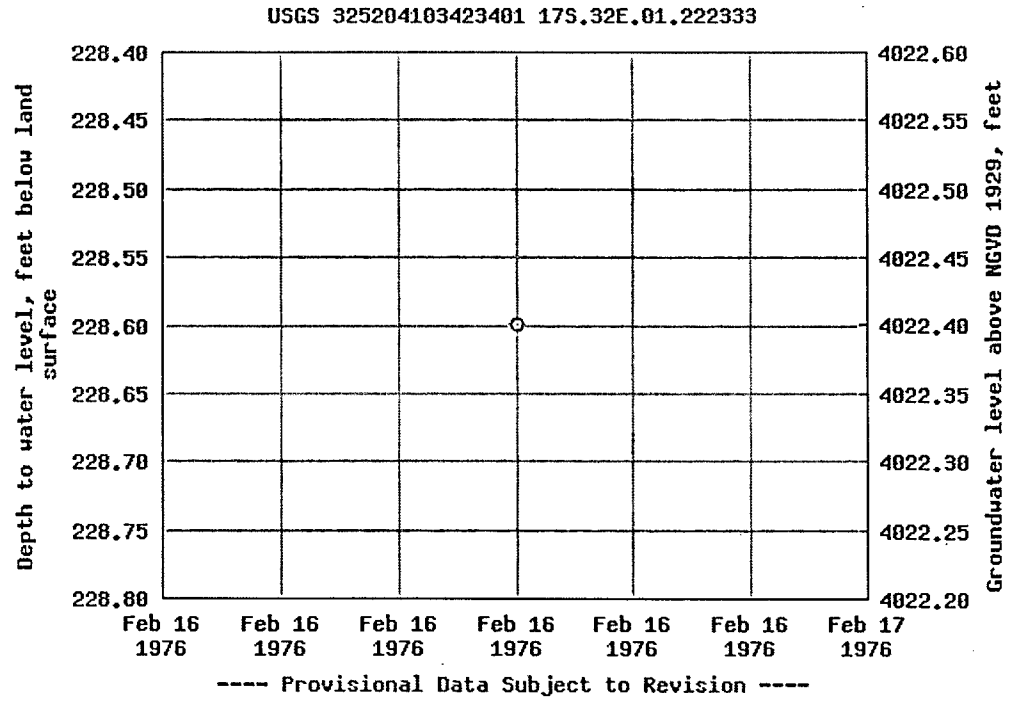
USGS 325204103423401 17S.32E.01.222333

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°52'09", Longitude 103°42'46" NAD27
Land-surface elevation 4,251.00 feet above NGVD29
The depth of the well is 270 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



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

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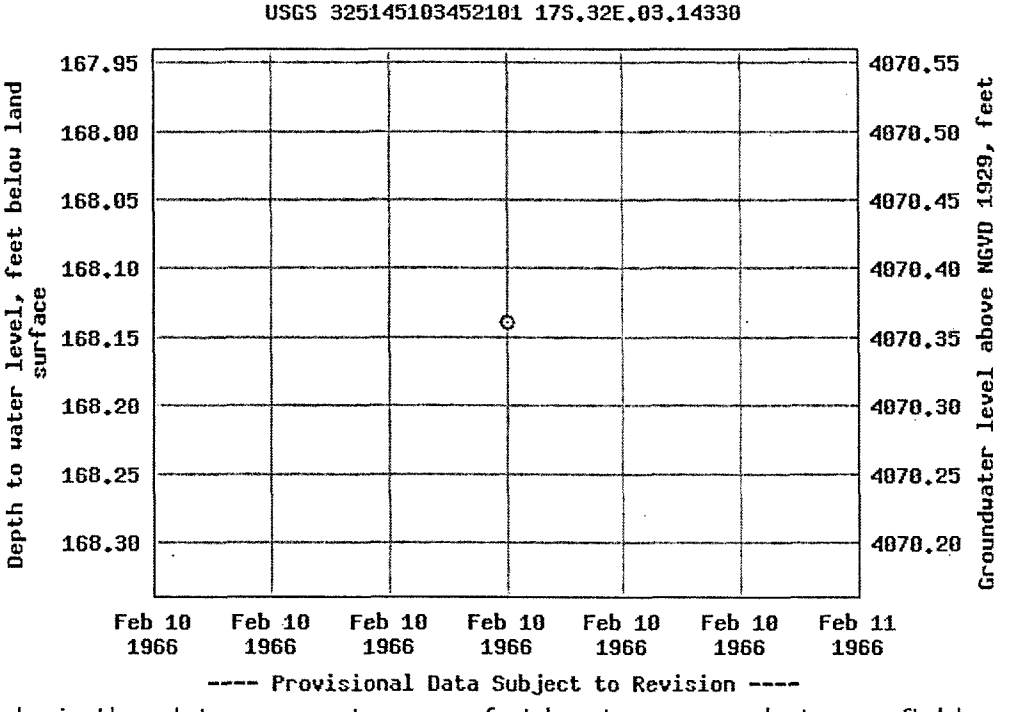
USGS 325145103452101 17S.32E.03.14330

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°51'50", Longitude 103°45'27" NAD27
Land-surface elevation 4,238.50 feet above NGVD29
This well is completed in the Ogallala Formation (121OGLL) 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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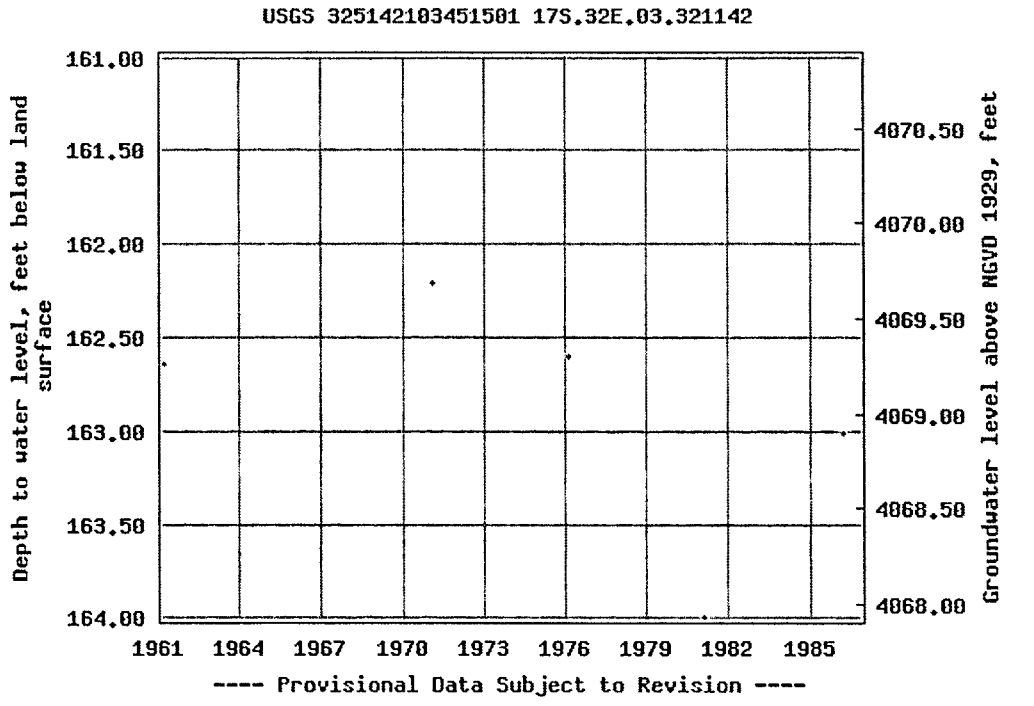
USGS 325142103451501 17S.32E.03.321142

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°51'46", Longitude 103°45'26" NAD27
Land-surface elevation 4,231.90 feet above NGVD29
This well is completed in the Ogallala Formation (121OGLL) 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.

Download a presentation-quality graph

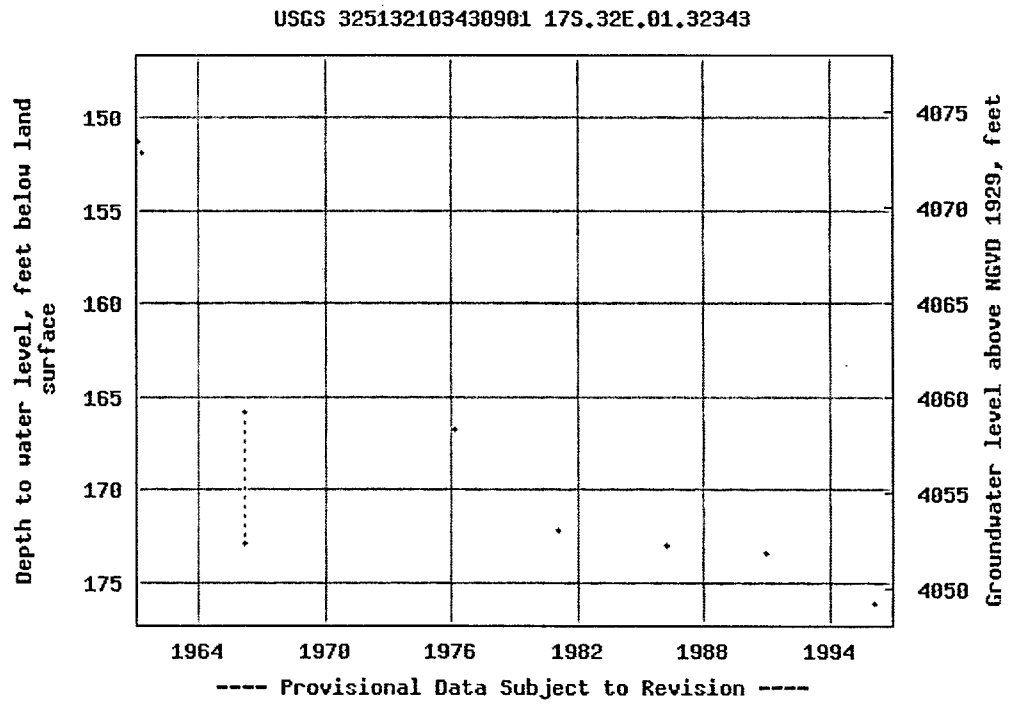
USGS 325132103430901 17S.32E.01.32343

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°51'36", Longitude 103°43'22" NAD27
Land-surface elevation 4,225.00 feet above NGVD29
The depth of the well is 225 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



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

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Questions about sites/data?

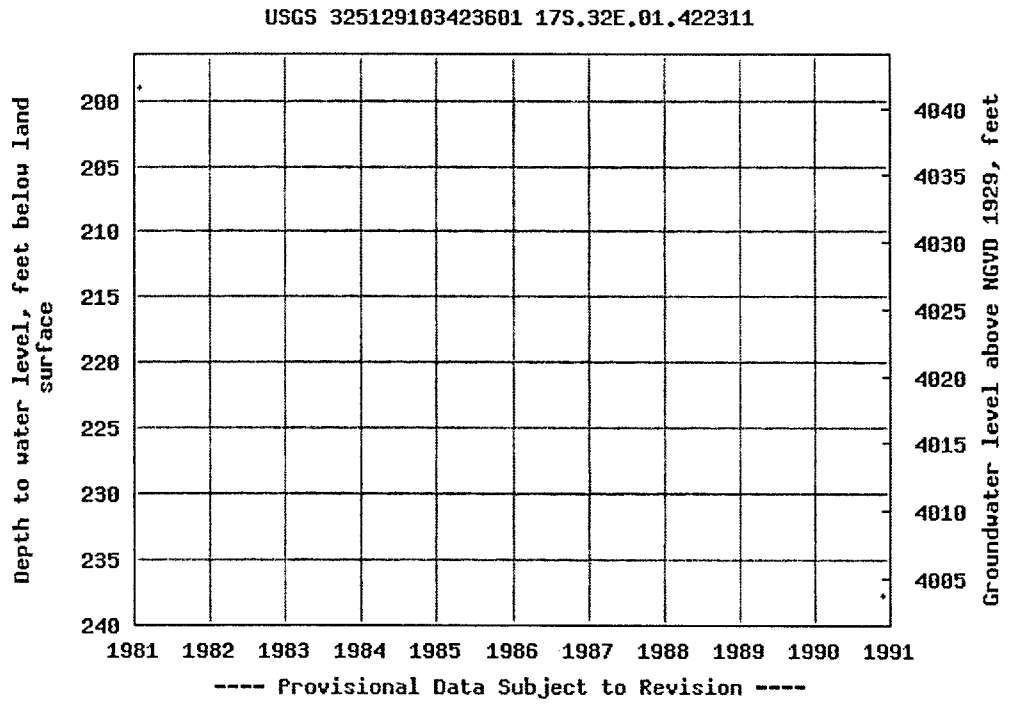
USGS 325129103423601 17S.32E.01.422311

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code --
Latitude 32°51'45", Longitude 103°42'46" NAD27
Land-surface elevation 4,241.00 feet above NGVD29
The depth of the well is 255 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



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

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Questions about sites/data?
Feedback on this web site
Automated retrievals

Data Tips
Explanation of terms
Subscribe

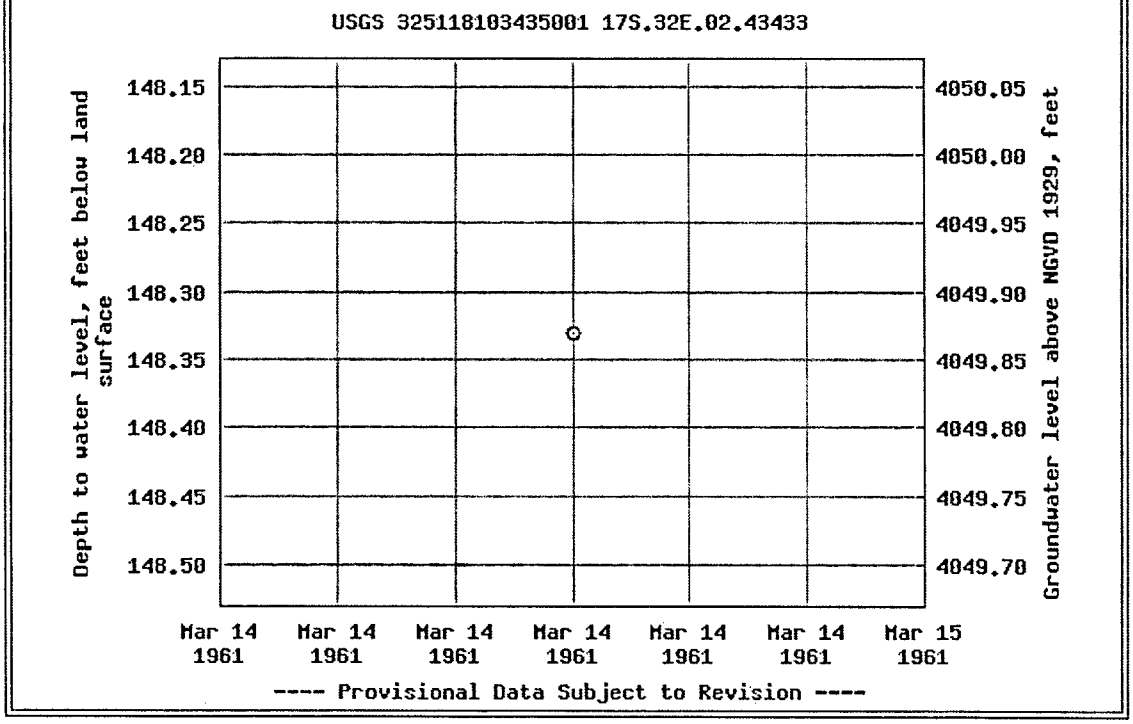
USGS 325118103435001 17S.32E.02.43433

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°51'23", Longitude 103°44'03" NAD27
Land-surface elevation 4,198.20 feet above NGVD29
The depth of the well is 182 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



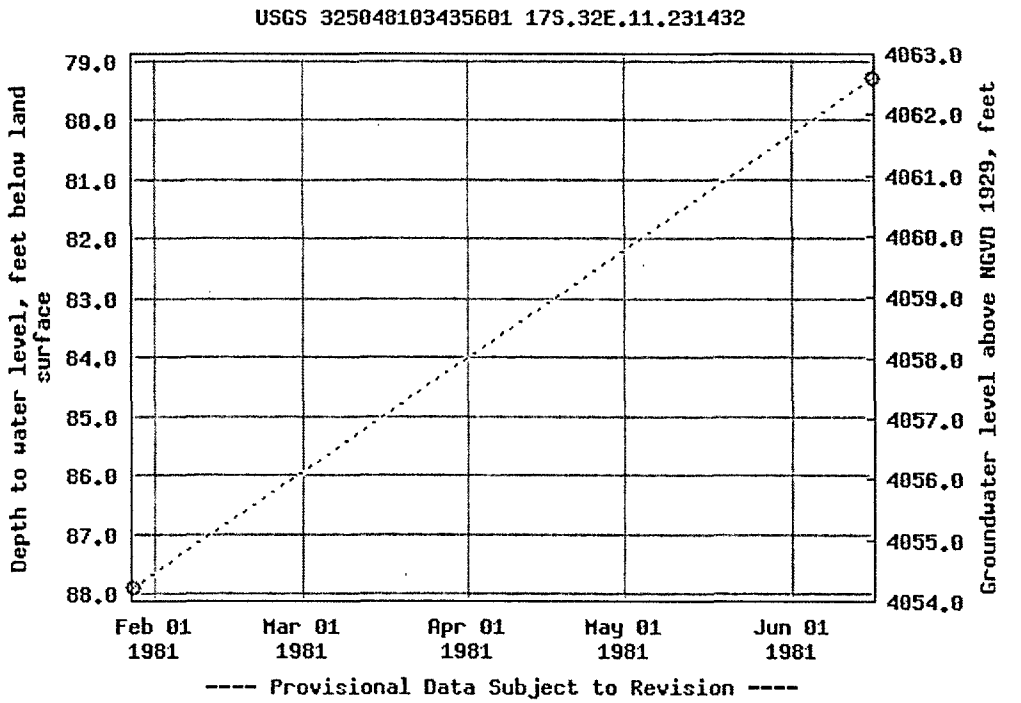
USGS 325048103435601 17S.32E.11.231432

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code --
Latitude 32°51'04", Longitude 103°44'06" NAD27
Land-surface elevation 4,142.00 feet above NGVD29
The depth of the well is 140 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



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

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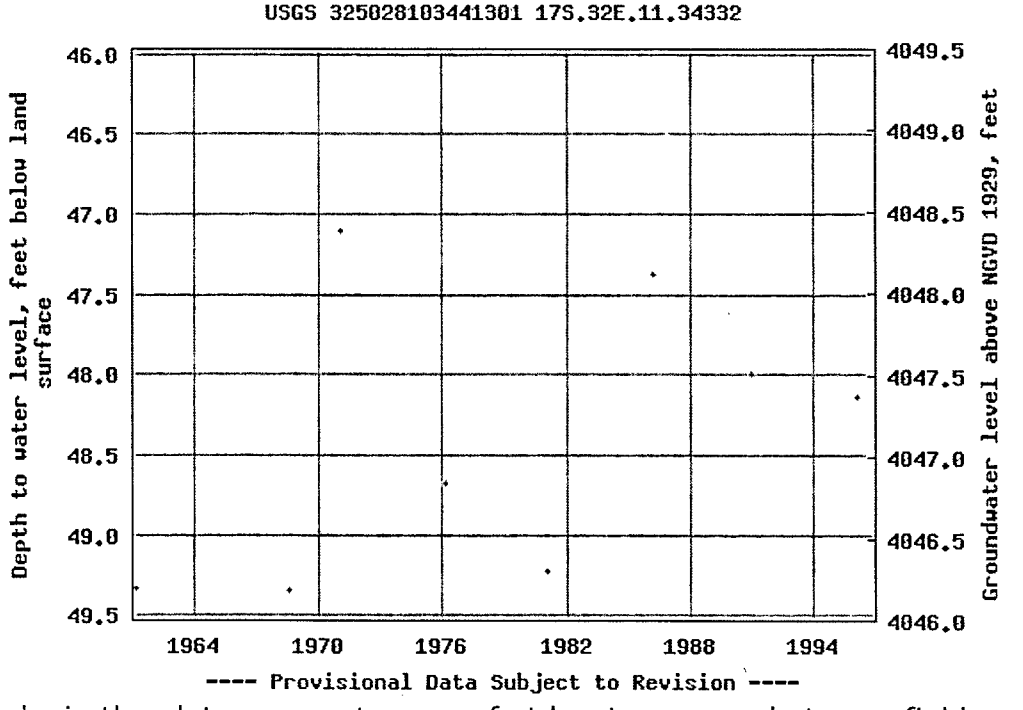
USGS 325028103441301 17S.32E.11.34332

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°50'32", Longitude 103°44'24" NAD27
Land-surface elevation 4,095.50 feet above NGVD29
This well is completed in the Ogallala Formation (121OGLL) 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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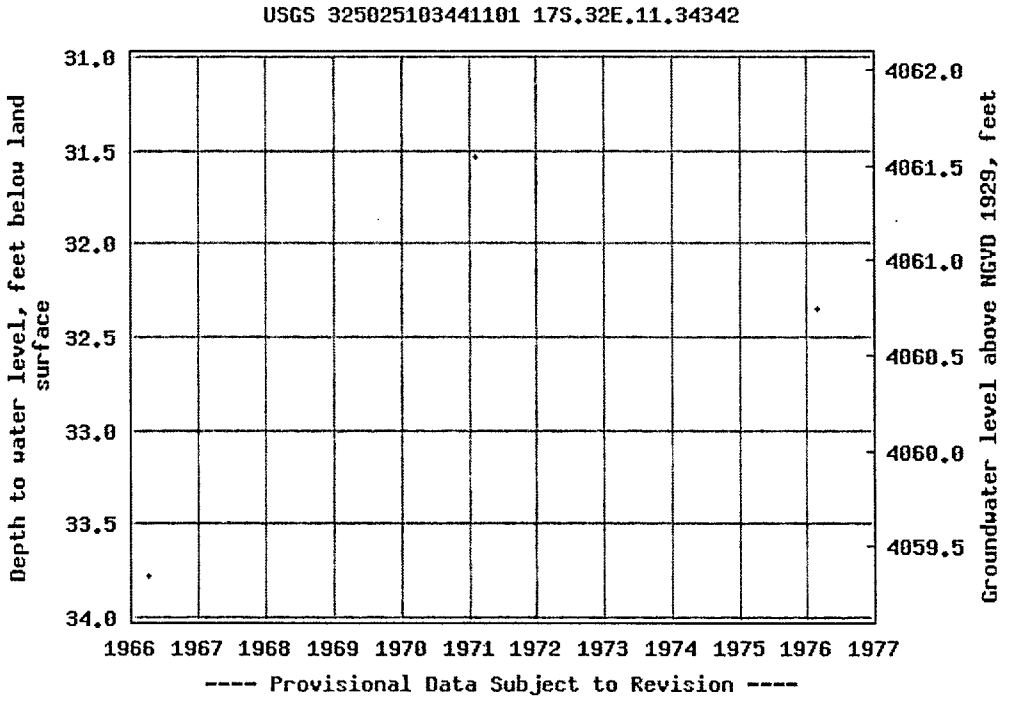
USGS 325025103441101 17S.32E.11.34342

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°50'33", Longitude 103°44'20" NAD27
Land-surface elevation 4,093.10 feet above NGVD29
This well is completed in the Ogallala Formation (121OGLL) 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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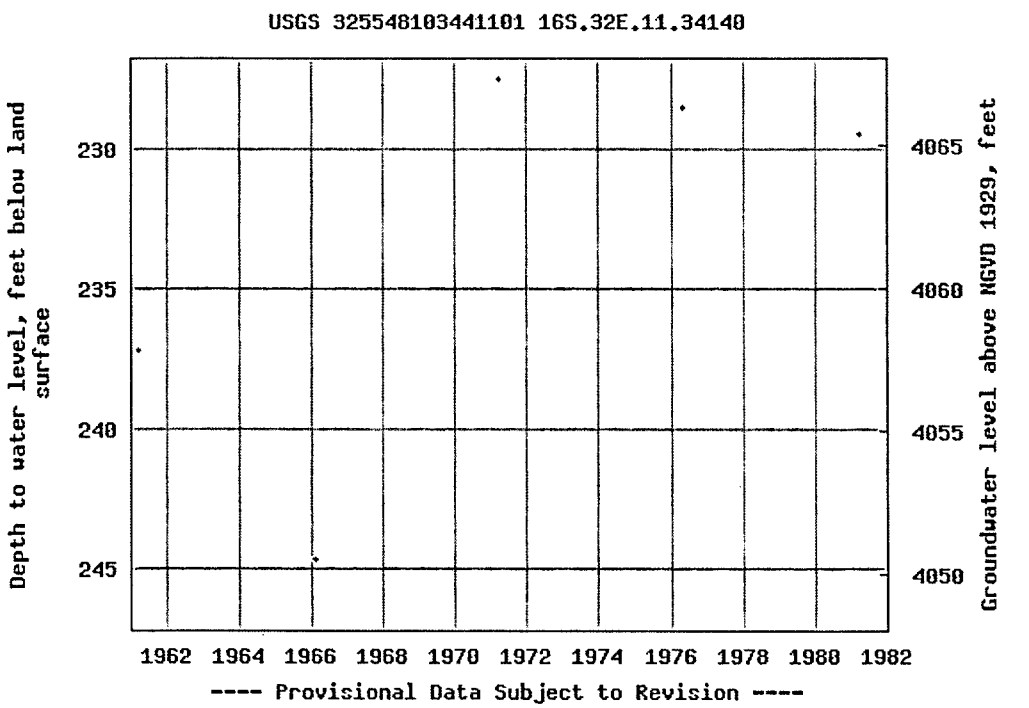
USGS 325548103441101 16S.32E.11.34140

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°55'51", Longitude 103°44'22" NAD27
Land-surface elevation 4,295.00 feet above NGVD29
This well is completed in the Ogallala Formation (121OGLL) 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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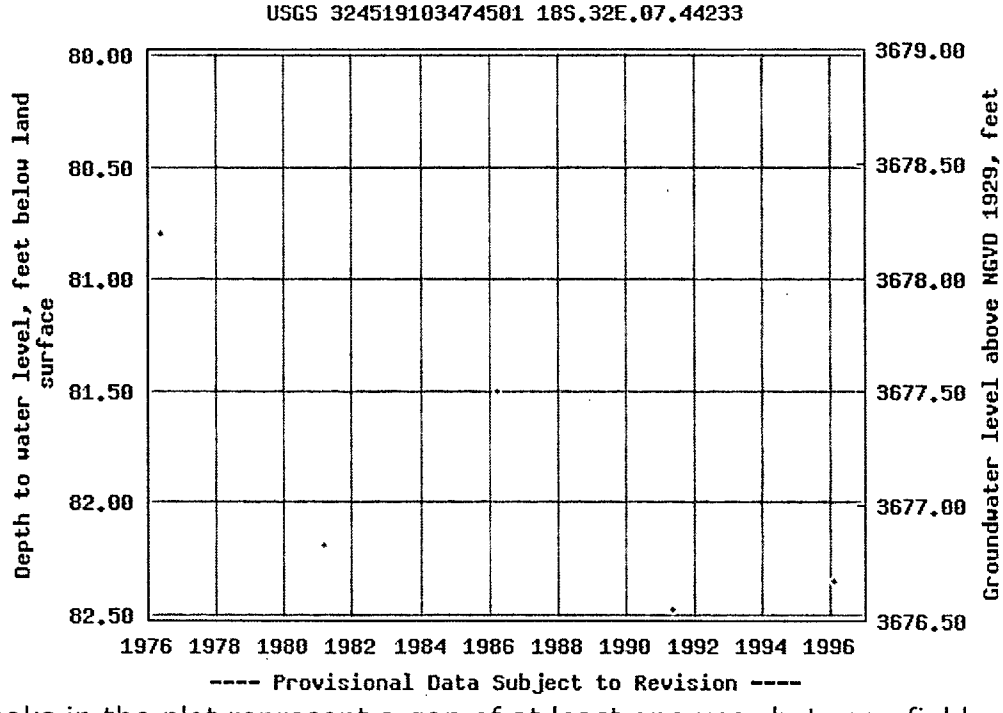
USGS 324519103474501 18S.32E.07.44233

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°45'24", Longitude 103°47'55" NAD27
Land-surface elevation 3,759.00 feet above NGVD29
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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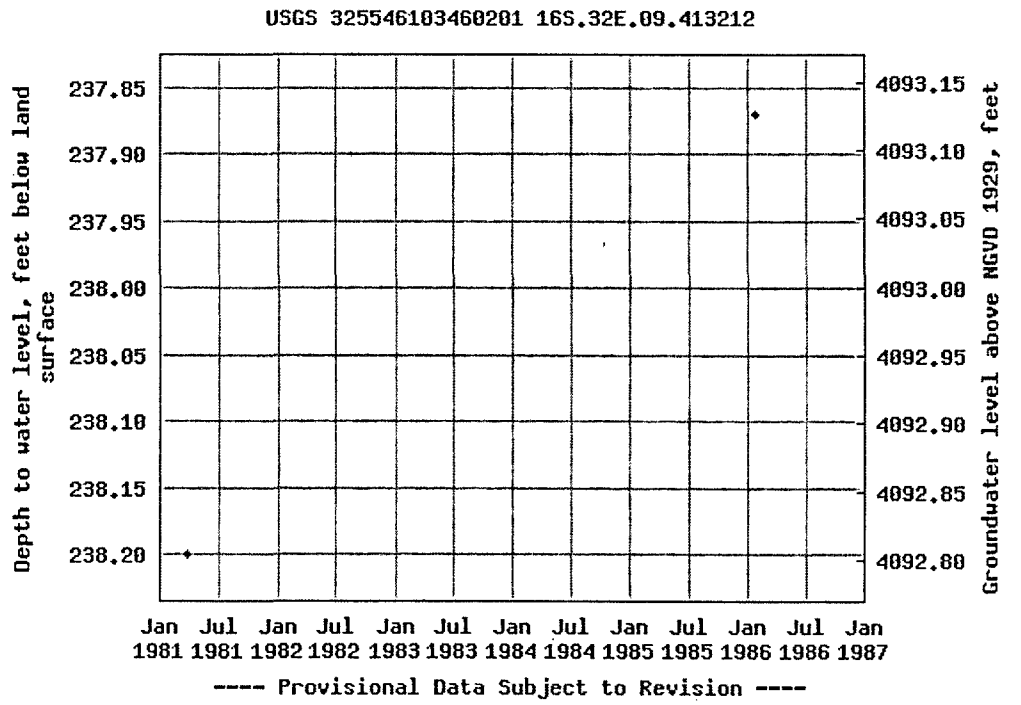
USGS 325546103460201 16S.32E.09.413212

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code --
Latitude 32°56'03", Longitude 103°46'10" NAD27
Land-surface elevation 4,331.00 feet above NGVD29
The depth of the well is 290 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



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

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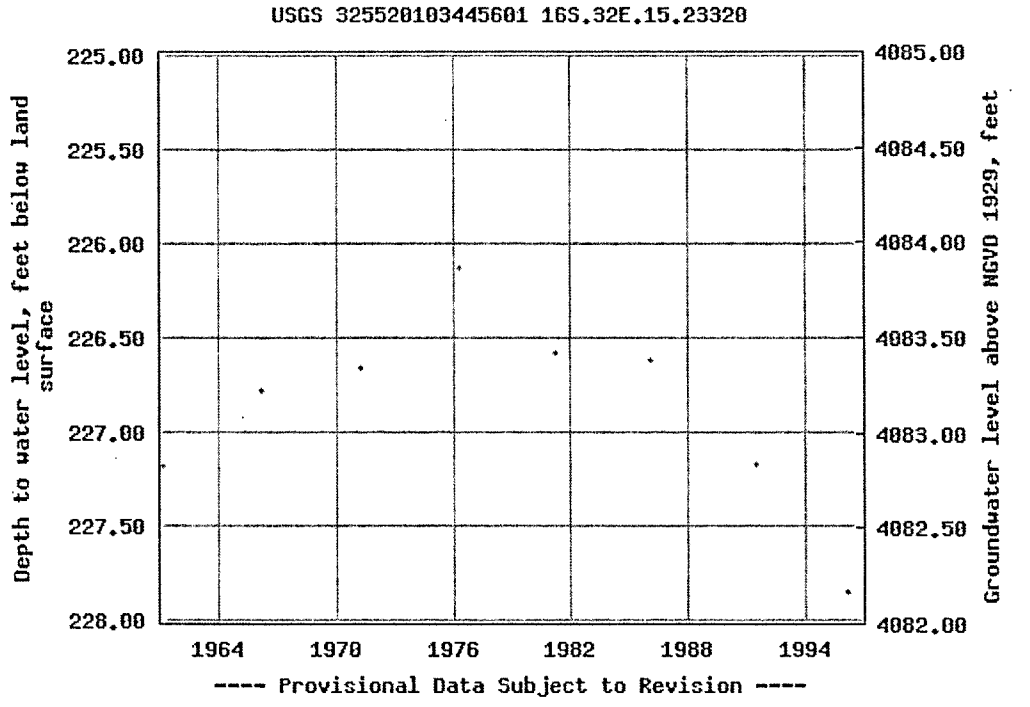
USGS 325520103445601 16S.32E.15.23320

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°55'22", Longitude 103°45'08" NAD27
Land-surface elevation 4,310.00 feet above NGVD29
This well is completed in the Ogallala Formation (121OGLL) 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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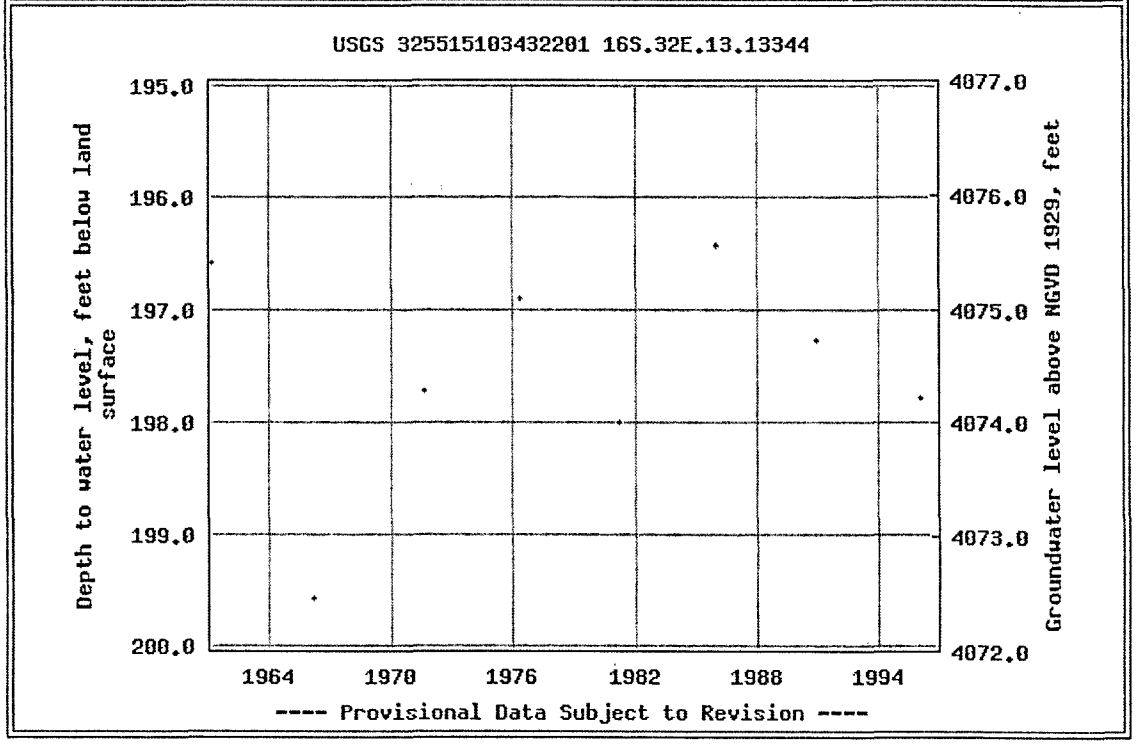
USGS 325515103432201 16S.32E.13.13344

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°55'19", Longitude 103°43'36" NAD27
Land-surface elevation 4,272.00 feet above NGVD29
The depth of the well is 308 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



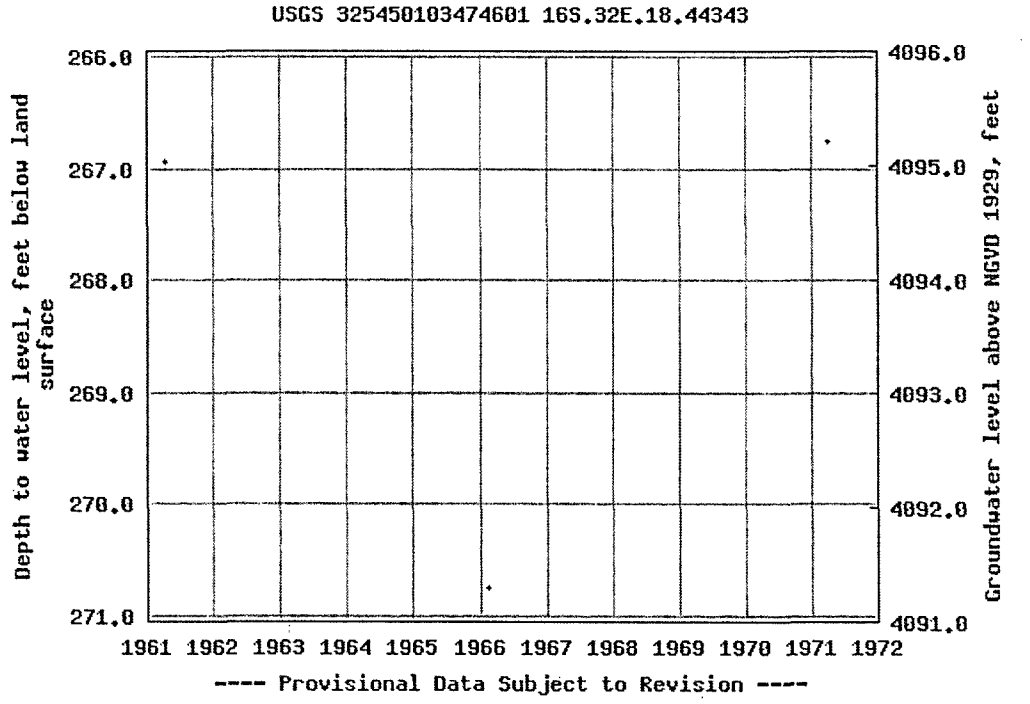
USGS 325450103474601 16S.32E.18.44343

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°54'52", Longitude 103°47'59" NAD27
Land-surface elevation 4,362.00 feet above NGVD29
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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



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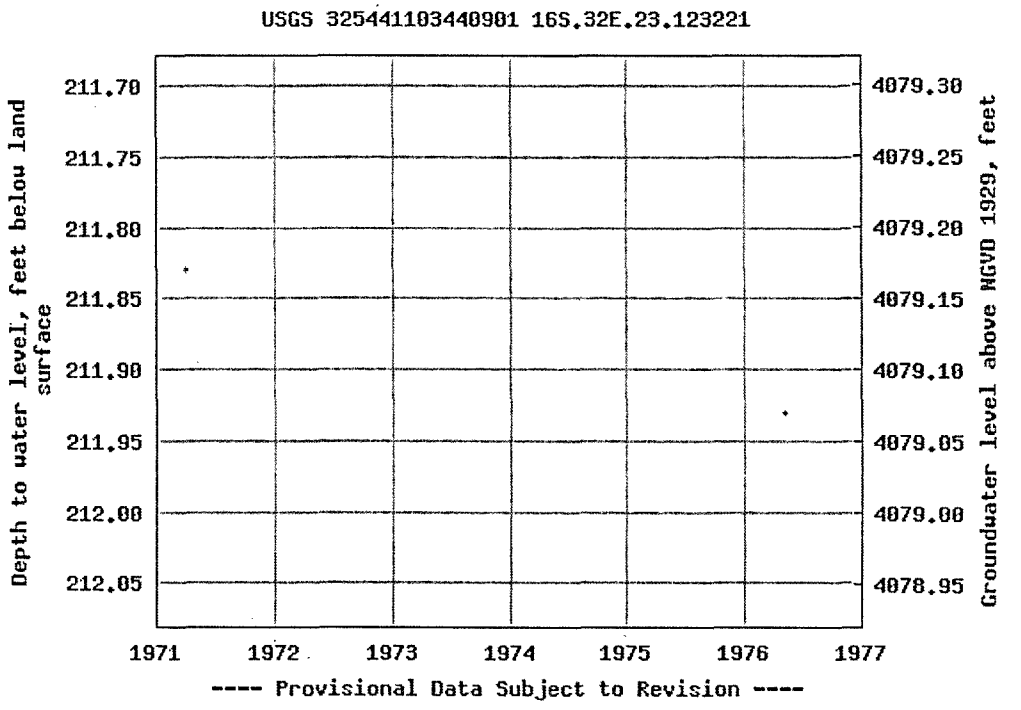
USGS 325441103440901 16S.32E.23.123221

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°54'44", Longitude 103°44'22" NAD27
Land-surface elevation 4,291.00 feet above NGVD29
The depth of the well is 307 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



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

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Questions about sites/data?
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Help

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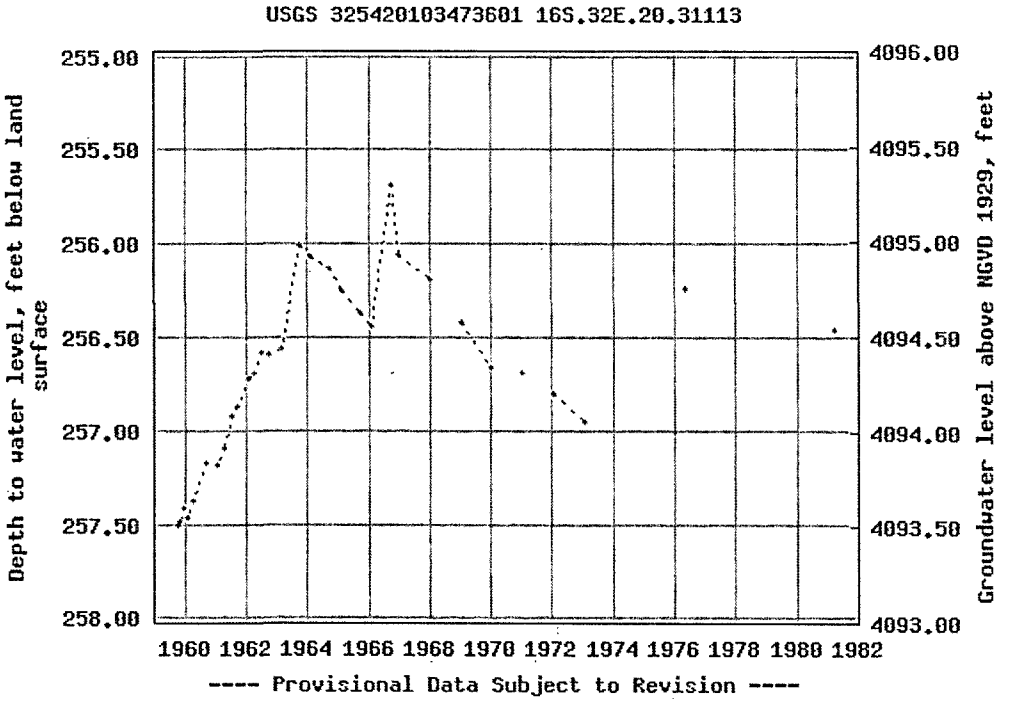
USGS 325420103473601 16S.32E.20.31113

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°54'23", Longitude 103°47'48" NAD27
Land-surface elevation 4,351.00 feet above NGVD29
This well is completed in the Ogallala Formation (121OGLL) 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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Questions about sites/data?

Appendix E

Final Form C-141

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

RECEIVED
DEC 14 2012
NMOCD ARTESIA

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Linn Energy	Contact Gary Wink
Address 2310 W. Bender, Hobbs, NM 88240	Telephone No. 575-738-1739 ext. 1218
Facility Name Skelly A Tank Battery – Skelly 128	Facility Type Battery

Surface Owner Federal	Mineral Owner Federal	Lease No. 30-015-22262

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	22	17S	31E	450	FNL	450	FEL	Eddy

Latitude 32.8261140037943 **Longitude** -103.805406737217

NATURE OF RELEASE

Type of Release Oil	Volume of Release 3 bbl	Volume Recovered 0 bbl
Source of Release Poly pipeline	Date and Hour of Occurrence 07/28/2012 9 am	Date and Hour of Discovery 07/28/2012 9:30 am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? M. Bratcher – NMOCD T. Gregston – BLM	
By Whom? Joe Hernandez	Date and Hour 07/28/2012 11:35 am	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Compressor went down, caused high pressure, gas started venting and then burning at the flare. Fluid started coming out and fluid caught on fire. Fire spread and caught plastic liner on fire. Fire jumped over dike burning 3" poly line for COG. 2" hole was blown in line.

Describe Area Affected and Cleanup Action Taken.*
The leak affected 363 square feet of pasture outside the bermed area. The impacted soils were excavated to 1' below ground surface and removed to a NMOCD approved disposal facility. A representative composite sample of the excavation bottom was submitted for laboratory confirmation. The excavation was backfilled with clean imported soil and contoured to the surrounding landscape.

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: Gary W. Wink	OIL CONSERVATION DIVISION
Printed Name: Gary Wink	Approved by District Supervisor:
Title: Production Foreman	Approval Date: / Expiration Date:
E-mail Address: gawink@linnegergy.com	Conditions of Approval: / Attached ☐
Date: 12/13/12 Phone: (575) 738-1739 ext. 1218	

* Attach Additional Sheets If Necessary