



Linn Energy Skelly #301

REMEDIATION WORK PLAN

API No. 30-015-29496

Release Date: June 20, 2012

Unit Letter E, Section 28, Township 17 South, Range 31 East

RP# 2RP-1214

BLM Event# NU12154TG

January 27, 2016

Prepared by:

Lance Crenshaw, Project Manager
Environmental Department
Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
Phone: (575)964-8394
Fax: (575)393-8396

Mike Bratcher
Environmental Specialist
NM Oil Conservation District – Division 2
811 S. First St.
Artesia, NM 88210

RE: Linn Energy Skelly #301 – Remediation Work Plan
UL/E, Section 28, T17S, R31E
API No. 30-015-29496

Mr. Bratcher,

Linn Energy (Linn) has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located east of Loco Hills NM, in Eddy County. The leak site resulted from a hydrocarbon release. The source of the leak was due to the poly line busting located in the pasture area. A C-141 was submitted to the NMOCD on July 2, 2012 (2RP-1214) and BLM Event Number NU12154TG.

Site Assessment and Delineation

On April 11, 2014, DFSI personnel obtained surface and delineation samples of the leak area, which included SP1-SP10. The field samples were tested for chloride levels as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). All clean field samples found under the BLM/NMOCD standards were taken to Cardinal Lab of Hobbs to obtain confirmation samples.

An ARCH survey was conducted on June 25, 2014, and no cultural resources were recorded or updated during the survey. The results of the ARCH survey are attached.

DFSI has conducted a groundwater study of the area and has determined that according to the New Mexico Office of the State Engineer the average depth to groundwater for this area is 236 foot below ground surface. Therefore, no eminent danger of groundwater impact or threat to life is anticipated.

Conclusion

After careful review DFSI on behalf of Linn Energy would like to propose the following:

Because all of the samples, except for SP3, tested clean down to 2' BGS, DFSI proposes to till and blend the entire spill except in the area of SP3, which will be excavated to 4' BGS. The area of SP3 will require a 20-mil liner or river rocks before backfill, and sidewall samples at this sample point will be taken before backfill. Haul the contaminated soil to an approved disposal site, then reseed the entire area with a BLM/NMOCD approved seed mixture.

Following the approval of the above plan, and after the remediation has taken place, DFSI will submit all proper closure documentation to the NMOCD and BLM in accordance to the State and Federal Guidelines set forth.

Please feel free to contact me with any questions concerning this remediation plan request.

Sincerely,



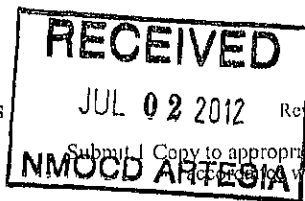
Michael Burton
Environmental Operations Director
Diversified Field Service, Inc.
206 West Snyder
Hobbs, NM 88240
Office: (575)964-8394
Mobile: (575)390-5454
Fax: (575)964-8396
Email: mburton@diversifiedfsi.com

cc Shelly Tucker
NM Bureau of Land Management

Attachments: Initial Form C-141
Site/Sample Map
Sample Data
Lab Analytical Data

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



Form C-141
Revised October 10, 2003

Release Notification and Corrective Action

nJMW 1219436244 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 Unit # 301	Facility Type: Injection
Surface Owner: Federal	Mineral Owner: Federal
API No : 3001529496	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	28	17S	31E	1980	North	560	West	Eddy

Latitude: 32.8073765024948 Longitude: -103.88144231194

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 3	Volume Recovered: 0
Source of Release: Polyline	Date and Hour of Occurrence: 06-20-2012 9am	Date and Hour of Discovery: 06-20-2012 9:30am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? M. Bratcher - NM OCD / Terry Gregston-BLM	
By Whom? Joe Hernandez	Date and Hour 06-22-2012 3pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	
If a Watercourse was Impacted, Describe Fully.*:		
Describe Cause of Problem and Remedial Action Taken.*: Fuse on polyline developed hole. Further remedial action pending...		
Describe Area Affected and Cleanup Action Taken.*: Sprayed oil and water on to open field nearest location skelly sat#4.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC D 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 NMOC D 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, NMOC D 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
Title: Production Foreman	Approval Date: JUL 12 2012	Expiration Date:
E-mail Address: jhernandez@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 07-02-2012 Phone: 575-942-9492		

* Attach Additional Sheets If Necessary

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

8/12/12

2RP-1214

Site Diagram

Linn, Skelly 301 Poly Line
UL/E, Sec. 28 T17S R31E
Eddy County, NM
Drafted By: Lance Crenshaw, 4-8-14

0 0.0050.01 0.02 Miles

Spill Area:
14,646 sq. ft.

Legend

Misc_points

Types

- Electrical Box
- Power Pole
- Headers
- Injection
- Pumpjacks
- Tanks
- Valves
- Other
- sample_pts
- Source

Pipeline

Type

- Above Ground Line
- Buried Line

Spill

- <all other values>

Spill_Media

- Oil and Produced H2O
- Oil
- Other
- Produced Water

Skelly SAT 4

Lance Crenshaw
 GIS Technician

Soil Remediation and Ground Water Remediation
 Environmental Assessments
 Regulatory Compliance



Environmental

DFS

Services

Office: 575-964-8394
 Fax: 575-964-8396

Cell: 575-441-2359
 Email: lcrenshaw@diversifiedfsi.com

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Skelly Unit #301

PHOTO PAGE



Lease sign marking location



Spill area with sample points



Spill area with sample points



Spill area with sample points



Spill area with sample points

Diversified Environmental Services

Company Name: Linn

Location Name: CMU 35

SP Date: 10/16/2015
Rel Date:

[illegible]

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

Diversified Environmental Services

[illegible]

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

May 19, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: SKELLY UNIT #301

Enclosed are the results of analyses for samples received by the laboratory on 05/12/14 16:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	05/12/2014	Sampling Date:	05/12/2014
Reported:	05/19/2014	Sampling Type:	Soil
Project Name:	SKELLY UNIT #301	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP. 1 @ 2' (H401439-01)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2014	ND	2.32	116	2.00	0.769	
Toluene*	<0.050	0.050	05/15/2014	ND	2.20	110	2.00	0.0923	
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	2.05	103	2.00	0.259	
Total Xylenes*	<0.150	0.150	05/15/2014	ND	6.27	105	6.00	0.427	
Total BTEX	<0.300	0.300	05/15/2014	ND					

Surrogate: Dibromofluoromethane 97.0 % 61.3-142

Surrogate: Toluene-d8 100 % 71.3-129

Surrogate: 4-Bromofluorobenzene 113 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/14/2014	ND	400	100	400	14.8	

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	05/15/2014	ND	201	100	200	1.88	
DRO >C10-C28	422	10.0	05/15/2014	ND	212	106	200	1.74	

Surrogate: 1-Chlorooctane 140 % 65.2-140

Surrogate: 1-Chlorooctadecane 153 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received: 05/12/2014
 Reported: 05/19/2014
 Project Name: SKELLY UNIT #301
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 05/12/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 2 @ 2' (H401439-02)

BTX 8260B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2014	ND	2.32	116	2.00	0.769		
Toluene*	<0.050	0.050	05/15/2014	ND	2.20	110	2.00	0.0923		
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	2.05	103	2.00	0.259		
Total Xylenes*	<0.150	0.150	05/15/2014	ND	6.27	105	6.00	0.427		
Total BTX	<0.300	0.300	05/15/2014	ND						

Surrogate: Dibromofluoromethane 96.1 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/14/2014	ND	400	100	400	14.8	

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	05/15/2014	ND	201	100	200	1.88	
DRO >C10-C28	<10.0	10.0	05/15/2014	ND	212	106	200	1.74	

Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received: 05/12/2014
 Reported: 05/19/2014
 Project Name: SKELLY UNIT #301
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 05/12/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 3 @ 5' (H401439-03)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2014	ND	2.32	116	2.00	0.769	
Toluene*	<0.050	0.050	05/15/2014	ND	2.20	110	2.00	0.0923	
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	2.05	103	2.00	0.259	
Total Xylenes*	<0.150	0.150	05/15/2014	ND	6.27	105	6.00	0.427	
Total BTEX	<0.300	0.300	05/15/2014	ND					

Surrogate: Dibromofluoromethane 98.0 % 61.3-142
Surrogate: Toluene-d8 99.9 % 71.3-129
Surrogate: 4-Bromofluorobenzene 106 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	05/14/2014	ND	400	100	400	14.8		

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	05/15/2014	ND	201	100	200	1.88	
DRO >C10-C28	39.3	10.0	05/15/2014	ND	212	106	200	1.74	

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

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received: 05/12/2014
 Reported: 05/19/2014
 Project Name: SKELLY UNIT #301
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 05/12/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 4 @ 2' (H401439-04)

BTX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2014	ND	2.32	116	2.00	0.769		
Toluene*	<0.050	0.050	05/15/2014	ND	2.20	110	2.00	0.0923		
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	2.05	103	2.00	0.259		
Total Xylenes*	<0.150	0.150	05/15/2014	ND	6.27	105	6.00	0.427		
Total BTX	<0.300	0.300	05/15/2014	ND						

Surrogate: Dibromofluoromethane 96.8 % 61.3-142

Surrogate: Toluene-d8 99.0 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	05/14/2014	ND	400	100	400	14.8		

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	05/15/2014	ND	201	100	200	1.88	
DRO >C10-C28	<10.0	10.0	05/15/2014	ND	212	106	200	1.74	

Surrogate: 1-Chlorooctane 130 % 65.2-140

Surrogate: 1-Chlorooctadecane 134 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received: 05/12/2014
 Reported: 05/19/2014
 Project Name: SKELLY UNIT #301
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 05/12/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 5 @ 2' (H401439-05)

BTX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2014	ND	1.85	92.4	2.00	5.18		
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75		
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03		
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38		
Total BTX	<0.300	0.300	05/15/2014	ND						

Surrogate: Dibromofluoromethane 95.5 % 61.3-142
 Surrogate: Toluene-d8 103 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/14/2014	ND	400	100	400	14.8	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	05/15/2014	ND	201	100	200	1.88	
DRO >C10-C28	193	50.0	05/15/2014	ND	212	106	200	1.74	

Surrogate: 1-Chlorooctane 108 % 65.2-140
 Surrogate: 1-Chlorooctadecane 170 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received: 05/12/2014
 Reported: 05/19/2014
 Project Name: SKELLY UNIT #301
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 05/12/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 6 @ 2' (H401439-06)

BTX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2014	ND	1.85	92.4	2.00	5.18		
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75		
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03		
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38		
Total BTX	<0.300	0.300	05/15/2014	ND						

Surrogate: Dibromofluoromethane 96.0 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/14/2014	ND	400	100	400	14.8	

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	05/15/2014	ND	201	100	200	1.88	
DRO >C10-C28	<10.0	10.0	05/15/2014	ND	212	106	200	1.74	

Surrogate: 1-Chlorooctane 127 % 65.2-140

Surrogate: 1-Chlorooctadecane 129 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received: 05/12/2014
 Reported: 05/19/2014
 Project Name: SKELLY UNIT #301
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 05/12/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 7 @ 2' (H401439-07)

BTX 8260B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2014	ND	1.85	92.4	2.00	5.18		
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75		
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03		
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38		
Total BTX	<0.300	0.300	05/15/2014	ND						

Surrogate: Dibromofluoromethane 97.4 % 61.3-142
 Surrogate: Toluene-d8 101 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

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	05/14/2014	ND	400	100	400	14.8		

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	05/15/2014	ND	201	100	200	1.88	
DRO >C10-C28	18.2	10.0	05/15/2014	ND	212	106	200	1.74	

Surrogate: 1-Chlorooctane 131 % 65.2-140
 Surrogate: 1-Chlorooctadecane 137 % 63.6-154

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Analytical Results For:

LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received: 05/12/2014
 Reported: 05/19/2014
 Project Name: SKELLY UNIT #301
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 05/12/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 8 @ 2' (H401439-08)

BTEx 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2014	ND	1.85	92.4	2.00	5.18		
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75		
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03		
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38		
Total BTEX	<0.300	0.300	05/15/2014	ND						

Surrogate: Dibromofluoromethane 97.9 % 61.3-142
Surrogate: Toluene-d8 101 % 71.3-129
Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

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	05/14/2014	ND	400	100	400	14.8		

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	05/15/2014	ND	201	100	200	1.88	
DRO >C10-C28	35.9	10.0	05/15/2014	ND	212	106	200	1.74	

Surrogate: 1-Chlorooctane 136 % 65.2-140
Surrogate: 1-Chlorooctadecane 143 % 63.6-154

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LINN OPERATING-HOBBS
BRIAN WALL
2130 W. BENDER
HOBBS NM, 88240
Fax To: (575) 738-1740

Received: 05/12/2014
Reported: 05/19/2014
Project Name: SKELLY UNIT #301
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/12/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP. 9 @ 2' (H401439-09)

BTEx 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2014	ND	1.85	92.4	2.00	5.18		
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75		
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03		
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38		
Total BTEx	<0.300	0.300	05/15/2014	ND						

Surrogate: Dibromofluoromethane 94.6 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

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	05/14/2014	ND	400	100	400	14.8		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	05/15/2014	ND	201	100	200	1.88	
DRO >C10-C28	1850	100	05/15/2014	ND	212	106	200	1.74	

Surrogate: 1-Chlorooctane 76.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 250 % 63.6-154

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Analytical Results For:

LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received: 05/12/2014
 Reported: 05/19/2014
 Project Name: SKELLY UNIT #301
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 05/12/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 10 @ 2' (H401439-10)

BTX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/15/2014	ND	1.85	92.4	2.00	5.18		
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75		
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03		
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38		
Total BTX	<0.300	0.300	05/15/2014	ND						

Surrogate: Dibromofluoromethane 97.1 % 61.3-142
 Surrogate: Toluene-d8 98.9 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 98.5 % 65.7-141

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	05/14/2014	ND	400	100	400	14.8		

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	05/16/2014	ND	203	102	200	0.0683	
DRO >C10-C28	<10.0	10.0	05/16/2014	ND	229	114	200	0.184	

Surrogate: 1-Chlorooctane 97.1 % 65.2-140
 Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 13 of 13

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[illegible]

NMCRIS No.: 130990

NMCRIS INVESTIGATION ABSTRACT FORM (NIAF)

1. NMCRIS Activity No.: 130990	2a. Lead Agency: US Bureau of Land Management Carlsbad Field Office	2b. Other Agency(ies):	3. Lead Agency Report No.:
--	---	-------------------------------	-----------------------------------

4. Title of Report:

A Class III Archaeological Survey for Diversified Field Services' clean-up of Linn Energy's Skelly #301 Spill

Author(s)

Hill, Rebecca L. and M. Jones

5. Type of Report

☒ Negative

☐ Positive

6. Investigation Type

- ☐ Research Design ☒ Archaeological Survey/Inventory ☐ Architectural Survey/Inventory ☐ Test Excavation ☐ Excavation
☐ Collections/Non-Field Study ☐ Compliance Decision Based on Previous Inventory ☐ Overview/Lit Review ☐ Monitoring
☐ Ethnographic Study ☐ Site/Property Specific Visit ☐ Historic Structures Report ☐ Other

7. Description of Undertaking (what does the project entail?):

A pedestrian cultural resources survey was conducted on 25 Jun 2014 for Diversified Field Services' clean-up of Linn Energy's Skelly #301 spill. The spill area lies in Eddy County, NM on federal lands managed by the Bureau of Land Management/Carlsbad Field Office (BLM/CFO) in S28 (SE ¼ NW ¼) of T17S R31E.

The spill area's APE (area of potential effect) is an irregularly shaped block measuring 0.55 acres. The spill area was surveyed using 15 m (50 ft.) parallel transects throughout. The survey area is an irregularly shaped block measuring 4.53 acres.

Both the spill area's APE and survey area lie entirely on federal lands and no cultural resources were recorded or updated during the survey.

[] Continuation

8. Dates of Investigation: from: 25-Jun-2014 to: 25-Jun-2014	9. Report Date: 03-Jul-2014
---	------------------------------------

10. Performing Agency/Consultant: Boone Arch Services of NM

Principal Investigator: Hill, Rebecca L.

Field Supervisor: Hill, Rebecca L.

Field Personnel Names: Hill, Rebecca L.
Schmid, Hans W. III

Historian / Other:

11. Performing Agency/Consultant Report No.: BASNM 05-14-14

12. Applicable Cultural Resource Permit No(s): BLM Permit No.: 190-2920-12-S
--

NMCRIS No.: 130990

13. Client/Customer (project proponent):

Diversified Field Services

Contact: Natalie Gladden

Address: 3412 N. Dal Paso, Hobbs, NM 88240

Phone: 575-964-8394

14. Client/Customer Project No.:

15. Land Ownership Status (must be indicated on project map):

Land Owner (By Agency)	Acres Surveyed	Acres in APE
US Bureau of Land Management Carlsbad Field Office	4.53	0.55
TOTALS	4.53	0.55

16. Records Search(es):

Date(s) of HPD/ARMS File Review: 18 Jun 2014	Name of Reviewer(s): J. Broxson	
Date(s) of Other Agency File Review: 18 Jun 2014	Name of Reviewer(s): J. Broxson	Agency: BLM/CFO

17. Survey Data:

a. Source Graphics [] NAD 27 [X] NAD 83 Note: NAD 83 is the NMCRIS standard.

☒ USGS 7.5' (1:24,000) topo map ☐ Other topo map, Scale:

☒ GPS Unit Accuracy ☒ <1.0m ☐ 1-10m ☐ 10-100m ☐ >100m ☐ Aerial Photo(s)

Other Source Graphic(s):

b. USGS 7.5' Topographic Map Name USGS Quad Code

Loco Hills, NM	32103-G8
----------------	----------

c. County(ies): Eddy, NM

d. Nearest City or Town: Loco Hills, NM

e. Legal Description:

Township (N/S) Range (E/W) Section

17S	31E	28
-----	-----	----

Projected legal description? [] Yes [X] No [] Unplatted

f. Other Description (e.g. well pad footages, mile markers, plats, land grant name, etc.):

[] Continuation

18. Survey Field Methods:

Intensity: ☒ 100% coverage ☐ <100% coverage

Configuration: ☒ block survey units ☐ linear survey units (l x w):

NMCRIS No.: 130990

☐ other survey units (specify):

Scope: ☒ non-selective (all sites/properties recorded) ☐ selective/thematic (selected sites/properties recorded)

Coverage Method: ☒ systematic pedestrian coverage

☐ other method (describe):

Survey Interval (m): 15 **Crew Size:** 2 **Fieldwork Dates:** from: 25-Jun-2014 to: 25-Jun-2014

Survey Person Hours: 1.75 **Recording Person Hours:** **Total Hours:** 1.75

Additional Narrative:

The spill area lies within one-quarter mile of two previously recorded archaeological sites: LAs 113655 and 100741. The spill is at a distance sufficient to avoid impacting these sites. For additional information about these sites, see Table 1 on page 5.

[] Continuation

19. Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.):

According to the Natural Resources Conservation Service's online database, the spill area soil is a combination of Kermit-Berino fine sands, a combination deep and loamy sand, 0 to 3 percent slopes and Pajarito loamy fine sand, 0 to 3 percent slopes, eroded. These soils support grassland dominated by black grama, dropseeds, and bluestems. Shrubs, such as sand sage, shinnery oak, and mesquite are dispersed throughout. Winterfat and various forbs were also viewed in the spill area. The spill area sits among rolling sand dunes.

The spill area lies approximately 0.5 miles northwest of Taylor Draw, 10.6 miles east of Bear Grass Draw, 7.8 miles southeast of Mescalero Sands, and 11.5 miles west of Mescalero Ridge. The Pecos River lies approximately 25.6 miles to the west. The elevation of the spill area is 3770 ft. above mean sea level.

[] Continuation

20.a. Percent Ground Visibility: 60 % **b. Condition of Survey Area (grazed, bladed, undistributed, etc.):**

Heavy grazing is evident in the spill area with several flowlines and a buried pipeline in the southern portion.

[] Continuation

21. CULTURAL RESOURCE FINDINGS

☐ Yes, see next report section

☒ No, discuss why:

No cultural resources were recorded or updated during the survey. It is uncertain why aboriginal peoples did not inhabit the area.

[] Continuation

22. Attachments (check all appropriate boxes):

[X] USGS 7.5 Topographic Map with sites, isolates, and survey area clearly drawn (required)

[X] Copy of NMCRIS Map Check (required)

[] LA Site Forms - new sites (with sketch map & topographic map) if applicable

[] LA Site Forms (update) - previously recorded & un-relocated sites (first 2 pages minimum)

[] Historic Cultural Property Inventory Forms, if applicable

[] List and Description of Isolates, if applicable

[] List and Description of Collections, if applicable

23. Other Attachments:

[] Photographs and Log

[X] Other Attachments
(Describe): BLM Map

NMCRIS No.: 130990

24. I certify the information provided above is correct and accurate and meets all applicable agency standards.

Principal Investigator/Qualified Supervisor: Printed Name: Hill, Rebecca L.

Signature:  Date: 7 Jul 2014 Title: Principal Investigator

25. Reviewing Agency

Reviewer's Name/Date:

Accepted []

Rejected []

26. SHPO

Reviewer's Name/Date:

HPD Log #:

Date sent to ARMS:

CULTURAL RESOURCE FINDINGS

[fill in appropriate section(s)]

SURVEY RESULTS:

Archaeological Sites discovered and registered: 0

Archaeological Sites discovered and NOT registered: 0

Previously recorded archaeological sites revisited (site update form required): 0

Previously recorded archaeological sites not relocated (site update form required): 0

TOTAL ARCHAEOLOGICAL SITES (visited & recorded): 0

Total isolates recorded: 0

☒ Non-selective isolate recording?

HCPI properties discovered and registered: 0

HCPI properties discovered and NOT registered: 0

Previously recorded HCPI properties revisited: 0

Previously recorded HCPI properties not relocated: 0

TOTAL HCPI PROPERTIES (visited & recorded, including acequias): 0

MANAGEMENT SUMMARY:

No cultural resources were recorded or updated during the survey; therefore, the project is recommended for approval as staked. If cultural materials are encountered during construction, work should be halted and archaeologists with BLM/CFO should be notified immediately.

[] Continuation

IF REPORT IS NEGATIVE, YOU ARE DONE AT THIS POINT.

SURVEY LA/HCPI NUMBER LOG

Sites/Properties Discovered:

LA/HCPI No. Field/Agency No.

Eligible? (Y/N/U, applicable criteria)

NMCRIS No.: 130990

Previously recorded revisited sites/HCPI properties:

LA/HCPI No. Field/Agency No. Eligible? (Y/N/U, applicable criteria)

MONITORING LA NUMBER LOG (site form required)

Sites Discovered (site form required):

Previously recorded sites (site update form required):

LA No. Field/Agency No.

LA No. Field/Agency No.

Areas outside known nearby site boundaries monitored? [] Yes [] No, Explain
why

TESTING & EXCAVATION LA NUMBER LOG (site form required)

Tested LA number(s)

Excavated LA number(s)

Table 1. Previously Recorded Archaeological Sites Within A One-quarter Mile

LA No.	Cultural/Temporal Affiliation	Eligibility
113655	Jornada Mogollon/Late Pithouse to Late Pueblo (750 – 1400 AD)	Eligible, D
100741	Jornada Mogollon/Late Pithouse to Late Pueblo (750 – 1400 AD)	Eligible, D

Diversified Field Services Skelly #301 Spill



Legend

ArmsSubmittal	Forest Service	NM State Trust Lands
BLM	BOI	NM State Game & Fish
BOR	NPS	NM State Park
DOE	Private	

Loco Hills 32103-G8
T17S R31E S28

1:24,000

BASNM 05-14-14
NMCRIS 130990

Diversified Field Services
Skelly #301 Spill



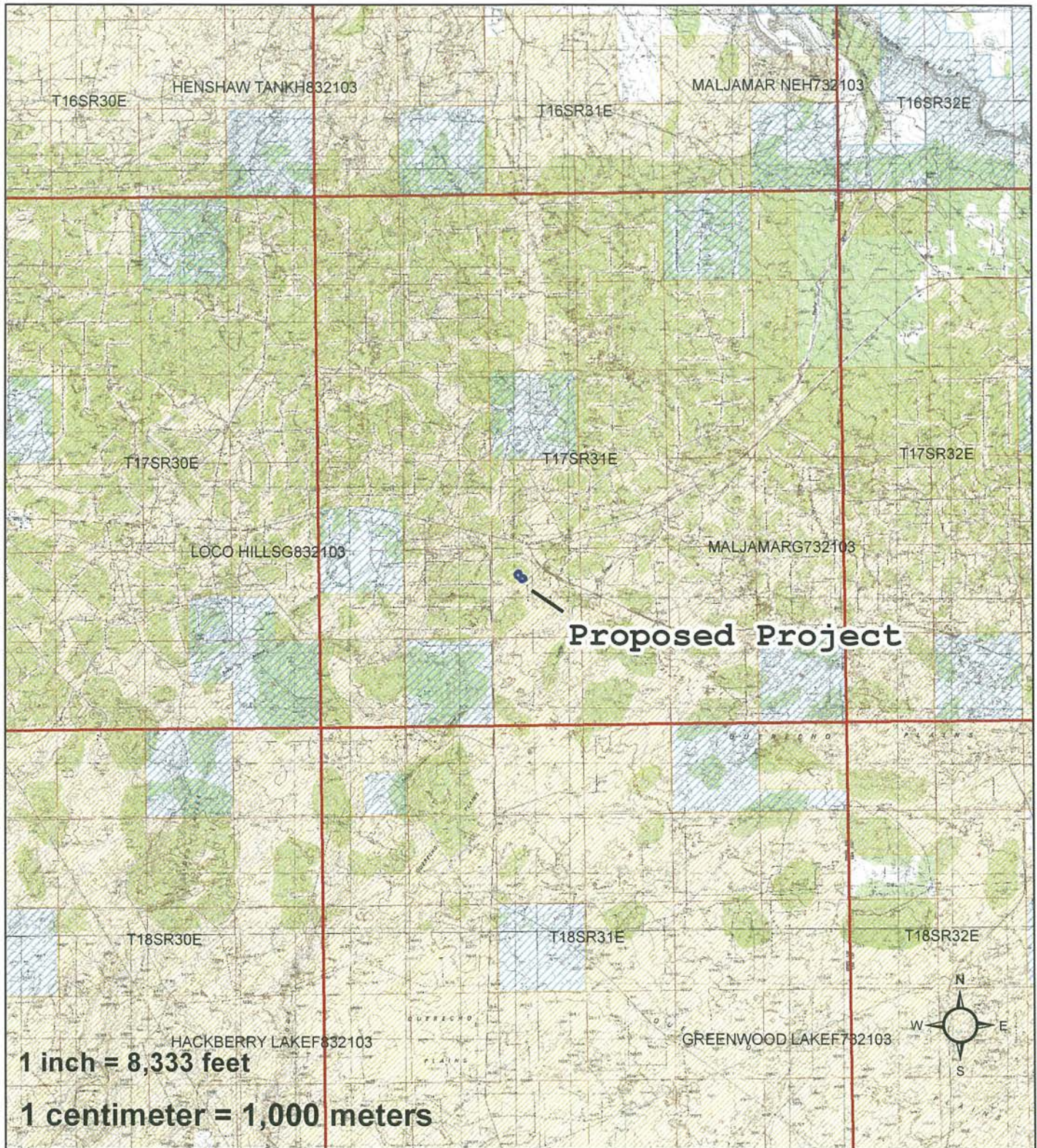
Legend	
	Spill1
	Spill
	ArmsSubmittal

Loco Hills 32103-G8
T17S R31E S28

1:2,000

BASNM 05-14-14
NMCRIS 130990

Diversified Field Services Skelly #301 Spill



Legend

ArmsSubmittal	Forest Service	NM State Trust Lands
BLM	BOI	NM State Game & Fish
BOR	NPS	NM State Park
DOE	Private	

LoCo Hills 32103-G8
T17S R31E S28

1:100,000

BASNM 05-14-14
NMCRIS 130990

GROUND WATER SEARCH

Linn Energy Skelly Unit #301

UL: E Sec: 28 T: 17S R: 31E

Groundwater Depth: 236 ft. averaged

- = NM Office of the State Engineer
- = U.S. Geological Survey (unknown well)
- ✗ = Site Location

Date: 05/12/14

By: Amy Ruth

	16S 30E	288' 314' 16S 31E 295'	65' 260' 265' 248' 275' 254' 16S 32E 210' 215' 210' 221' 200'	
	17S 30E	17S 31E ✗	132' 17S 32E	
	18S 30E 44'	98' 18S 31E	65' 430' 18S 32E 460'	