SUBSEQUENT CLOSURE REPORT

REPORTABLE RELEASE

Spur Energy Partners
JC Federal #27 Battery
Incident ID: NAPP2105332930; NAPP2111658280
API# 30-025-39247
Lea County, NM

Prepared by:

Paragon Environmental LLC
1601 N. TURNER ST. STE.500
Hobbs, NM 88240
575-964-7814

GENERAL DETAILS

This report was prepared by Paragon Environmental LLC (Paragon) in response to the release for Spur Energy Partners (Spur) at the **JC Federal #27 Battery (JC Fed)**.

API#: 30-025-39247

Site Coordinates: Latitude: 32.8162079 Longitude: 103.759651200

Unit UL M, Section 22, Township 17S, Range 32E

Incident ID: NAPP2105332930 & NAPP2111658280

REGULATORY FRAMEWORK

Depth to Groundwater: According to the New Mexico State of Engineers Office, the nearest water data is approximately 1/2 of a mile away and is 92 feet below ground surface (BGS). See Appendix A for details.

Soil Survey: According to the United States Department of Agriculture Natural Resources Conservation Service soil survey, the soil in this area is comprised of the Kermit Soils and Dune Land, with 0 to 12 percent slopes. The drainage courses in this area are well-drained. The karst geology in the area of the JC Fed is not in a High Karst area.

RELEASE DETAILS

This incident occurred due to equipment failure. This resulted in the release of 42.2 bbls of Produced Water that was contained in the Earthened Poly-Lined Containment. A vacuum truck was dispatched and recovered the 41.5 bbls of fluids.

Date of Spill: 02/19/2021

Type of Spill: ☐ Crude Oil ☒Produced Water ☐ Condensate ☐Other (Specify):

Comments: Reportable release.
Released: 43 bbls of Produced Water
Recovered: 37 bbls of Produced Water

REMEDIATION ACTIVITIES

On April 20, 2021, ESS began remediation processes at this site by removing the gravel and cleaning the liner. Upon conclusion of this project, they submitted a closure that was rejected based on samples not being Lab Tested at 6 inches and 2 feet BGS.

Spur reached out to the OCD to discuss the denial. It was determined that when ESS sampled underneath the liner, they sampled and sent the 5 feet samples to the lab without testing depths above that. The OCD officer advised that since the depth to groundwater was located at 92' BGS, if Spur would obtain samples at 6 inches and 2 feet under the liner, the closure would be approved.

Spur then gave this project to Paragon to obtain these samples and bring this project to closure.

On January 26, 2023, Paragon sent an Environmental Tech to obtain these samples. The tech removed the previous tape from the sample areas and obtained the 6 inch and 2 feet samples. These samples were sent to Cardinal lab for analysis. The results of this event are in the following data table.

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
Sample Date 1-26-23		Closure Criteria ≤50 mg/kg	Closure Criteria ≤10 mg/kg	Combined Closure Criteria ≤ 1,000 mg/kg			Closure Criteria ≤2,500 mg/kg	Closure Criteria ≤10,000 mg/kg
Sample ID	Depth (BGS)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	CHLORIDES
S-1	0-6	ND	ND	ND	ND	ND	ND	32
	2'	ND	ND	ND	ND	ND	ND	64
S-2	0-6	ND	ND	ND	651	179	830	256
	2'	ND	ND	ND	ND	ND	ND	592
S-3	0-6	ND	ND	ND	ND	ND	ND	32
	2'	ND	ND	ND	ND	ND	ND	48
S-4	0-6	ND	ND	ND	34.3	ND	34.3	32
	2'	ND	ND	ND	ND	ND	ND	32
BG-1	0-6	ND	ND	ND	ND	ND	ND	16
BG-2	0-6	ND	ND	ND	ND	ND	ND	32

ND- Analyte Not Detected

CLOSURE REQUEST

After careful review, Paragon requests that the incidents, NAPP2105332930 and NAPP2111658280, be closed. Spur has complied with the applicable closure requirements. If you have any questions or need additional information, please contact Chris Jones at 575-964-7814 or chris@paragonenvironmental.net.

Respectfully,

Chris Jones
Environmental Professional
Paragon Environmental LLC

Attachments

Figures:

1- Site Map

Appendices:

- Appendix A- C-141
- Appendix B- Laboratory Results
- Appendix C- ESS Closure Report

Figures:

1-Site Map

Spur Energy Partners

JC Federal #27 battery
API# 30-025-39247
Lea County, NM
Site Map

Appendix A:

C-141

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2105332930
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	92 ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2105332930
District RP	
Facility ID	
Application ID	

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

Printed Name: Kathy Purvis. Title: HSE Coordinator

Signature: Katherine Purvis Date: 2/22/2023

email: katherine.purvis@spurenergy.com Telephone: 575-441-8619

OCD Only

Received by: Jocelyn Harimon Date: 02/22/2023

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2105332930
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Kathy Purvis. Title: HSE Coordinator

Signature: Katherine Purvis Date: 2/22/2023

email: katherine.purvis@spurenergy.com Telephone: 575-441-8619

OCD Only

Received by: Jocelyn Harimon Date: 02/22/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jennifer Nobui Date: 03/02/2023

Printed Name: Jennifer Nobui Title: Environmental Specialist A

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2111658280
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	92 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
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State of New Mexico
Oil Conservation Division

Incident ID	NAPP2111658280
District RP	
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Signature: Katherine Purvis Date: 2/22/2023

email: katherine.purvis@spurenergy.com Telephone: 575-441-8619

OCD Only

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State of New Mexico
Oil Conservation Division

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Signature: Katherine Purvis Date: 2/22/2023

email: katherine.purvis@spurenergy.com Telephone: 575-441-8619

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Appendix B:

Laboratory Results

CARDINAL Laboratories

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

February 06, 2023

CHRIS JONES

PARAGON ENVIROMENTAL

5002 CARRAIGE RD

HOBBS, NM 88242

RE: JC FEDERAL 27 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/27/23 10:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	01/27/2023	Sampling Date:	01/26/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	JC FEDERAL 27 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY COUNTY		

Sample ID: S - 1 0-6" (H230406-01)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2023	ND	1.97	98.4	2.00	13.6	
Toluene*	<0.050	0.050	01/30/2023	ND	2.06	103	2.00	11.9	
Ethylbenzene*	<0.050	0.050	01/30/2023	ND	2.02	101	2.00	12.8	
Total Xylenes*	<0.150	0.150	01/30/2023	ND	6.22	104	6.00	12.1	
Total BTEX	<0.300	0.300	01/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	01/30/2023	ND	432	108	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	01/30/2023	ND	210	105	200	3.14	
DRO >C10-C28*	<10.0	10.0	01/30/2023	ND	223	111	200	3.38	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane *90.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *97.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	01/27/2023	Sampling Date:	01/26/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	JC FEDERAL 27 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY COUNTY		

Sample ID: S - 1 2' (H230406-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2023	ND	2.09	105	2.00	7.92	
Toluene*	<0.050	0.050	02/02/2023	ND	2.09	104	2.00	8.55	
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.02	101	2.00	7.62	
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.11	102	6.00	6.68	
Total BTEX	<0.300	0.300	02/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	02/02/2023	ND	416	104	400	3.77	

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	02/02/2023	ND	205	103	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	199	99.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					

Surrogate: 1-Chlorooctane *67.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *71.6 %* *49.1-148*

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:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	01/27/2023	Sampling Date:	01/26/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	JC FEDERAL 27 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY COUNTY		

Sample ID: S - 2 0-6" (H230406-04)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2023	ND	1.97	98.4	2.00	13.6	
Toluene*	<0.050	0.050	01/30/2023	ND	2.06	103	2.00	11.9	
Ethylbenzene*	<0.050	0.050	01/30/2023	ND	2.02	101	2.00	12.8	
Total Xylenes*	<0.150	0.150	01/30/2023	ND	6.22	104	6.00	12.1	
Total BTEX	<0.300	0.300	01/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *118 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**256**	16.0	01/30/2023	ND	432	108	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	01/30/2023	ND	210	105	200	3.14	
DRO >C10-C28*	**651**	10.0	01/30/2023	ND	223	111	200	3.38	
EXT DRO >C28-C36	**179**	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane *87.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *110 %* *49.1-148*

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:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	01/27/2023	Sampling Date:	01/26/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	JC FEDERAL 27 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY COUNTY		

Sample ID: S - 2 2' (H230406-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2023	ND	2.09	105	2.00	7.92	
Toluene*	<0.050	0.050	02/02/2023	ND	2.09	104	2.00	8.55	
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.02	101	2.00	7.62	
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.11	102	6.00	6.68	
Total BTEX	<0.300	0.300	02/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**592**	16.0	02/02/2023	ND	416	104	400	3.77	

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	02/02/2023	ND	205	103	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	199	99.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					

Surrogate: 1-Chlorooctane *64.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *68.2 %* *49.1-148*

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:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	01/27/2023	Sampling Date:	01/26/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	JC FEDERAL 27 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY COUNTY		

Sample ID: S - 3 0-6" (H230406-07)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2023	ND	1.97	98.4	2.00	13.6	
Toluene*	<0.050	0.050	01/30/2023	ND	2.06	103	2.00	11.9	
Ethylbenzene*	<0.050	0.050	01/30/2023	ND	2.02	101	2.00	12.8	
Total Xylenes*	<0.150	0.150	01/30/2023	ND	6.22	104	6.00	12.1	
Total BTEX	<0.300	0.300	01/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	01/30/2023	ND	432	108	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	01/30/2023	ND	210	105	200	3.14	
DRO >C10-C28*	<10.0	10.0	01/30/2023	ND	223	111	200	3.38	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane *84.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *90.4 %* *49.1-148*

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:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	01/27/2023	Sampling Date:	01/26/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	JC FEDERAL 27 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY COUNTY		

Sample ID: S - 3 2' (H230406-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2023	ND	2.09	105	2.00	7.92	
Toluene*	<0.050	0.050	02/02/2023	ND	2.09	104	2.00	8.55	
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.02	101	2.00	7.62	
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.11	102	6.00	6.68	
Total BTEX	<0.300	0.300	02/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	02/02/2023	ND	416	104	400	3.77	

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	02/02/2023	ND	205	103	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	199	99.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					

Surrogate: 1-Chlorooctane *90.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *95.7 %* *49.1-148*

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:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	01/27/2023	Sampling Date:	01/26/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	JC FEDERAL 27 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY COUNTY		

Sample ID: S - 4 0-6" (H230406-10)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2023	ND	1.97	98.4	2.00	13.6	
Toluene*	<0.050	0.050	01/30/2023	ND	2.06	103	2.00	11.9	
Ethylbenzene*	<0.050	0.050	01/30/2023	ND	2.02	101	2.00	12.8	
Total Xylenes*	<0.150	0.150	01/30/2023	ND	6.22	104	6.00	12.1	
Total BTEX	<0.300	0.300	01/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	01/30/2023	ND	432	108	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	01/30/2023	ND	210	105	200	3.14	
DRO >C10-C28*	**34.3**	10.0	01/30/2023	ND	223	111	200	3.38	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane *88.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *100 %* *49.1-148*

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:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	01/27/2023	Sampling Date:	01/26/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	JC FEDERAL 27 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY COUNTY		

Sample ID: S - 4 2' (H230406-12)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2023	ND	2.09	105	2.00	7.92	
Toluene*	<0.050	0.050	02/02/2023	ND	2.09	104	2.00	8.55	
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.02	101	2.00	7.62	
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.11	102	6.00	6.68	
Total BTEX	<0.300	0.300	02/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	02/02/2023	ND	416	104	400	7.41	

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	02/02/2023	ND	205	103	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	199	99.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					

Surrogate: 1-Chlorooctane *92.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *96.7 %* *49.1-148*

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:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	01/27/2023	Sampling Date:	01/26/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	JC FEDERAL 27 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY COUNTY		

Sample ID: BG - 1 0-6" (H230406-13)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2023	ND	1.97	98.4	2.00	13.6	
Toluene*	<0.050	0.050	01/30/2023	ND	2.06	103	2.00	11.9	
Ethylbenzene*	<0.050	0.050	01/30/2023	ND	2.02	101	2.00	12.8	
Total Xylenes*	<0.150	0.150	01/30/2023	ND	6.22	104	6.00	12.1	
Total BTEX	<0.300	0.300	01/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *117 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	01/30/2023	ND	432	108	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	01/30/2023	ND	210	105	200	3.14	
DRO >C10-C28*	<10.0	10.0	01/30/2023	ND	223	111	200	3.38	
EXT DRO >C28-C36	<10.0	10.0	01/30/2023	ND					

Surrogate: 1-Chlorooctane *89.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *98.2 %* *49.1-148*

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:

PARAGON ENVIROMENTAL
CHRIS JONES
5002 CARRAIGE RD
HOBBS NM, 88242
Fax To:

Received:	01/27/2023	Sampling Date:	01/26/2023
Reported:	02/06/2023	Sampling Type:	Soil
Project Name:	JC FEDERAL 27 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	SPUR - RURAL EDDY COUNTY		

Sample ID: BG - 1 2' (H230406-15)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/02/2023	ND	2.09	105	2.00	7.92	
Toluene*	<0.050	0.050	02/02/2023	ND	2.09	104	2.00	8.55	
Ethylbenzene*	<0.050	0.050	02/02/2023	ND	2.02	101	2.00	7.62	
Total Xylenes*	<0.150	0.150	02/02/2023	ND	6.11	102	6.00	6.68	
Total BTEX	<0.300	0.300	02/02/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	02/02/2023	ND	416	104	400	7.41	

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	02/02/2023	ND	205	103	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/02/2023	ND	199	99.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	02/02/2023	ND					

Surrogate: 1-Chlorooctane *77.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *80.5 %* *49.1-148*

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

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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

Company Name: Paragon Environmental	BILL TO
Project Manager: Chris Jones	P.O. #:
Address: 1601 N. Turner St., Ste 500	Company: SPUR
City: Hobbs State: NM Zip: 88240	Attn: Brady Molder
Phone #: 575-964-7814 Fax #:	Address:
Project #: Project Owner: SPUR	City:
Project Name: JC Federal 27 Battery	State: Zip:
Project Location: Rural Eddy County	Phone #:
Sampler Name: Jeremy Mann	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	ANALYSIS REQUEST: TPH Ext.	BTEX	Chlorides	Hold *	9-8-23 TP
H230406													01/26						
1	S-1 0-6"					✓					✓							✓	
2	S-1 1'					✓					✓							✓	✓
3	S-1 2'					✓					✓							✓	
4	S-2 0-6"					✓					✓							✓	
5	S-2 1'					✓					✓							✓	✓
6	S-2 2'					✓					✓							✓	
7	S-3 0-6"					✓					✓							✓	
8	S-3 1'					✓					✓							✓	✓
9	S-3 2'					✓					✓							✓	
10	S-4 0-6"					✓					✓							✓	

Relinquished By:	Date: 01/26/23	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1025		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: *Under 600 Chlorides
	Time:		100 TPH E.I.
Delivered By: (Circle One)	#113	Sample Condition: Cool ☑ Yes ☐ No / Intact ☑ Yes ☐ No	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	5.9°C / 5.3°C		50 BTEX
			10 Benzene
			Email results to Chris Jones

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Paragon Environmental	**BILL TO**
Project Manager: Chris Jones	P.O. #:
Address: 1601 N. Turner St., Ste 500	Company: SPUR
City: Hobbs State: NM Zip: 88240	Attn: Brady Holder
Phone #: 575-964-7814 Fax #:	Address:
Project #: Project Owner: SPUR	City:
Project Name: JC Federal 27	State: Zip:
Project Location: Eddy County	Phone #:
Sampler Name: Jeremy Mann	Fax #:

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	TPH Ext.	BTEX	Chlorides	Hold	Added 2-2-23 R.								
H230406																											
11	S-4		1			X					X		01.26		X	X	X	X	✓								
12	S-4		2			X					X							X									
13	BG-1		6			X					X				X	X	X	X	✓								
14	BG-1		1			X					X							X									
15	BG-1		2			X					X							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 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: 01/26	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1025		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Email results to Chris Jones
	Time:		*
Delivered By: (Circle One)		Sample Condition: Cool ☑ Yes ☐ No, Intact ☑ Yes ☐ No	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	#113 5.9°C/5.3°C		

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Appendix C:

ESS Closure Report

SPUR ENERGY PARTNERS

JC FEDERAL #027 BATTERY
CLOSURE/DEFFERAL REQUEST

API NO. 30-025-39247
U/L M, SECTION 22, TOWNSHIP 17S, RANGE 32E
LEA COUNTY, NEW MEXICO

RELEASE DATE: 2/19/2021
INCIDENT NO. NAPP2105332930
AND
RELEASE DATE: 04/24/2021
INCIDENT NO. NAPP2111658280

July 25, 2022

PREPARED BY:

ESS

2724 N.W. COUNTY ROAD
HOBBS, NM 88240

July 25, 2022

New Mexico Energy, Minerals & Natural Resources
NMOCD District II
C/O Mike Bratcher, Robert Hamlet & Chad Hensley
811 S. First Street
Artesia, NM 88210

Bureau of Land Management
C/O Jim Amos
620 E. Green Street
Carlsbad, NM 88220

Spur Energy Partners, LLC
C/O Braidy Moulder
919 Milam Street Suite 2475
Houston, Texas 77002

Subject: Closure/Deferral Request for Spur Energy – JC Federal #027 Battery
API No. 30-025-39247
Incident No. NAPP2105332930 and NAPP2111658280
U/L M, Section 22, Township 17S and Range 32E
Lea County, New Mexico

To Whom it May Concern:

Spur Energy Partners retained Energy Staffing Services, LLC (ESS) to conduct a spill assessment at the JC Federal #027 Battery (hereafter referred to as the "JC"). Kenny Kidd with Spur Energy submitted the initial spill notification by email on February 19th, 2021 to the New Mexico Oil Conservation Division (NMOCD) District I office and the BLM Artesia Office. On behalf of Spur Energy, ESS submitted the initial C141 on February 22nd, 2021. The second release covered under this closure report occurred on April 24th, 2021. The initial spill notification was submitted by Kenny Kidd with Spur Energy on same said date at 7:41pm. On April 26th, 2021 ESS submitted the initial C141.

This report provides a detailed description of the spill assessment, remedial activities and demonstrates that the closure criteria has been established in the *19.15.29.12 New Mexico Administrative Code (NMAC: New Mexico Oil Conservation Division, 2018)* have been met and all applicable regulations have been followed. This document is intended to serve as the final report to obtain approval from the NMOCD and BLM for the closure of this release.

Incident Description

On February 19th, a release was found due to the frozen transmitter going to the POC and the Antilog board failed on the PLC. No alarm was sent out, causing the transfer pump to not kick on, and the water tank ran over. Releasing 43bbls of produced water with 37bbls recovered. On April 24th, the PLC blew a fuse, no alarm notification was sent, causing the transfer pump to fail and the water tank to run over. Releasing approximately 1bbl of oil and 42.2bbls of produced water, with recovering 1bbl of oil and 41.5bbls of produced water. This facility does have a poly lined containment. All fluid stayed inside the facility berm.

Site Characterization

The release at the JC occurred on Federal owned land and is located 32.8162079 latitude and -103.759651200 longitude, 2.74 miles south of Maljamar, New Mexico. The legal description for the site is Unit Letter M, Section 22, Township 17 South and 32 East, in Lea County, New Mexico. Site map attached.

The JC consists of oil and gas production equipment and is contained in a lined berm containment, by a nearby Oil and Gas Exploration and Production well-pad. The elevation is 5648'. This area is historically and has been dominated by dropseed, giant dropseed, Harvard's panic grass, other perennial grasses, and forbs. (Please see the *Rangeland and Vegetation Classification* information attached).

The *United States Department of Agriculture Natural Resources Conservation Service* indicates that the soil type found at the JC consists of Kermit Soils and Dune Land with 0 to 12 percent slopes. Please see the soil map attached herein.

There is "Low Potential" for Karst Geology to be present near the JC site according to the *United States Department of the Interior, Bureau of Land Management.* Please find the Karst Map attached to this report.

There is no surface water located near the JC Federal as outlined in *Paragraph (4) of Subsection C of 19.15.29.12 NMAC.* Please find the surface water map attached herein.

The nearest recent water well to the site according to the *New Mexico Office of the State Engineer* is RA 12521 POD1 which is located 1036' from the site with 92'dgw and was drilled in 2017. The next closest well is RA 12020 POD3, located 1118' from the site with 83'dgw and was drilled in 2017. The third closest well to the site is RA 12522 POD3, located 1236' from the site, with no viable groundwater data and was drilled in 2017. An extended groundwater research was conducted using the *OSE POD Location Mapping System* which indicates that no other groundwater wells were found that differs from the NMOSE water research. Please find the

NMOSE Groundwater information, GW Map along with the OSE POD Mapping data to this report.

Closure Criteria Determination

The Closure Criteria for Soils impacted by a Release is shown below. Based on this site being on Federal Land, Low Karst, and Groundwater at 92'bgs outside of the ½ mile radius, the site fell under the <50'dgw category. Please find the chart below:

DGW	Constituent	Method	Limit
≤ 50'	Chloride	EPA 300.0 OR SM4500 CLB	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 METHOD 8015M	100 mg/kg
	GRO + DRO	EPA SW-846 METHOD 8015M	50 mg/kg
	BTEX	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg
	Benzene	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg

Soil Remediation Action Levels

This site release occurred inside a lined containment. No soil remediation was conducted at this site. Although samples under the liner was obtained.

ESS has provided sufficient data that this produced water release has impacted the soil at the JC site and that the protocol is consistent with the remediation/abatement goals and objectives set forth in the NMOCD Closure Criteria for Soils Impacted by a Release, dated August 14, 2018.

The guidance document provides direction for Spur Energy's initial response actions, site assessment, sampling procedures conducted by ESS Staff, we would like to present to you the following information concerning the delineation process for the release detailed herein.

Soil Sampling Procedures

Soil sampling for laboratory analysis was conducted according to the NMOCD – approved industry standards. Accepted NMOCD soil sampling procedures and laboratory analytical methods are as follows:

- Collect clean samples in airtight glass jars supplied by the laboratory to conduct the analysis
- Each sample jar was labelled with site and sample information
- Samples were kept in and stored in a cool place and packed on ice
- Promptly ship sample to the lab for analysis following the chain of custody procedures

The following lab analysis method was used for each bottom hole and side wall sample submitted to Envirotech Analytical Laboratory:

Volatile Organics by EPA 8021B

- Benzene, Toluene, Ethylbenzene, p.m. Xylene, o-Xylene and Total Xylenes

Nonhalogenated Organics by EPA 8015D – GRO

- Gasoline Range Organics (C6-C10)

Nonhalogenated Organics by EPA 8015D – DRO/ORO

- Diesel Range Organics (C10-C28)
- Oil Range Organics (C28-C40)

Anions by EPA 300.0/9056A

- Chloride

Release Investigation Data Evaluation

ESS arrived on site for the initial site assessment on February 21, 2021. The facility was found to be lined with a black polyurethane liner, with pea gravel on-top of the liner. Please see the initial site photos. No fluid breached the liner onto the production pad. Crews arrived back on-site April 20th, to begin removing the contaminated soil from on top of the liner (12 cy of contaminated soil hauled to Lealand) and then pressure washed the liner to conduct the liner inspection. On April 21st, an email was sent to the OCD and BLM to conduct a liner inspection and sampling protocol on the JC site and that work would begin on April 26th. Crews left the site for the liner to dry and were called backout on April 24th to conduct another site assessment due to the second release at the JC. It was found that the liner was full of oil and water, no breaching of the liner had occurred. Vac trucks were called out to recover the standing fluids. At this time the crews again, pressure washed the containment to free it from any standing fluids and to clear it for the liner inspection. On April 28th, the liner inspection was conducted and a few small punctures in the liner were found. Four vertical sample points were placed and GPS'd. The liner was cut, samples were obtained, field analyzed and submitted to Envirotech Laboratory for confirmation. A background sample was also obtained and submitted to the lab. Below you will find the field data along with lab analysis results. Please find the sample data and lab reports attached herein.

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL
SP1	2"	ND	ND						
	1'	40	ND						
	2'	100	ND						
	3'	80	ND						
	4'	60	ND						
	5'	40	ND	ND	ND	ND	ND	ND	47.6

SP2	2"	200							
	1'	200							
	2'	180							
	3'	180							
	4'	160	ND	ND	ND	ND	ND	ND	147
SP3	2"	560							
	1'	620							
	2'	600							
	3'	640							
	4'	620							
	5'	600							
	6'	280							
	7	100	ND	ND	ND	ND	ND	ND	104
SP4	2"	400							
	1'	620							
	2'	600							
	3'	400							
	4'	240	ND	ND	ND	ND	ND	ND	266
BG	SURF	ND	ND	ND	ND	ND	ND	ND	ND

With the sampling that was conducted it was found that a minor concentration of chlorides was located under the liner with no detection of TPH or BTEX. At this time, the areas that were compromised were patched and sealed, which was conducted on May 3rd of 2021.. Please find site photos attached.

Closure/Deferral Request

ESS recommends that this site be closed and or deferred due to the insignificant concentrations of chlorides left under the liner. If and when the production facility is decommissioned Spur Energy will remediate the area under the liner to meet NMOCD/BLM guidelines if it is chosen that this release not be closed as is. Spur Energy and ESS certifies that all of the information provided and that is detailed in this report, is correct and we have complied with all applicable closure/deferral requirements for the release that occurred at the JC Federal #27 Battery.

After review of this report, if you have any questions or concerns, please do not hesitate to contact the undersigned at 575-390-6397 or 575-393-9048. You can also contact me by email at natalie@energystaffingllc.com.

Sincerely,

Director of Environmental and Regulatory Services
Energy Staffing Services, LLC.
2724 NW County Road
Hobbs, NM 88240
Cell: 575-390-6397
Office: 575-393-9048
Email: natalie@energystaffingllc.com

Attachments:

- Initial Spill Notifications
- Initial C141's
- Site Map
- Rangeland and Vegetation Classification
- Soil Map
- Karst Map
- Surface Water Map
- Groundwater Data
- Groundwater Map
- OSE Map
- Initial and Soil Removal Site Photos
- Liner Inspection Email
- Sample Data
- Sample Map w/GPS
- Lab Analysis
- Final Site Photos
- Final C141

Natalie Gladden

From: Kenny Kidd <kkidd@spurepllc.com>
Sent: Friday, February 19, 2021 4:52 PM
To: CFO_Spill, BLM_NM; Venegas, Victoria, EMNRD; Hamlet, Robert, EMNRD; Bratcher, Mike, EMNRD; Jim.Griswold@state.nm.us
Cc: Todd Mucha; Seth Ireland; Jerry Mathews; Braidy Moulder; Sarah Chapman; Susan Lopez; Marilyn Roemisch; natalie@energystaffingllc.com
Subject: J C FEDERAL #027 Battery

We had a spill Feb 19, 2021 at around 7:00 A.M.
at the J C FEDERAL #027 Battery on the Water Tank.
The transmitter froze up going to the POC and the Antilog board failed on PLC, no alarm was sent out, causing the transfer pump not to come on, and the Water tank ran over.
Produce water with a skim of oil on top.
The fluid stayed in the containment, this battery does have a liner with Pea Gravel on top of the liner.
RT trucking was dispatch to pick up fluid.

Spilled 43 bbls.
Recovered 37 bbls.

We will have ESS Environmental Company coming out to evaluate this. And filing any paper work on this spill.

If you have any question please give me a call.

This well is on the battery location.

J C FEDERAL #027

Sec. M-22-17S-32E 1240 FSL 990 FWL

Lat/Long: 32.8162079,-103.7596512 NAD83

API 30-025-39247

Spill Volume(Bbls) Calculator *Inputs in blue, Outputs in red*		
Length(Ft)	Width(Ft)	Depth(In)
95.000	35.000	3.500
Cubic Feet Impacted		969.792
Barrels		172.71
Soil Type		Pea Gravel
Bbls Assuming 100% Saturation		86.36
Saturation	Fluid present when squeezed	
Estimated Barrels Released		43.20000

Thanks,

Kenny Kidd
Assistant Production Superintendent
Office 575-616-5400
Cell 575-390-9254

SPUR ENERGY PARTNERS

Disclaimer

unlawful.

natalie@energystaffingllc.com

From: Kenny Kidd <kkidd@spurepllc.com>
Sent: Saturday, April 24, 2021 7:41 PM
To: blm_nm_cfo_regulationenforcement@blm.gov; Robert.Hamlet@state.nm.us; Chad.Hensley@state.nm.us; Bratcher, Mike, EMNRD; Jim.Griswold@state.nm.us
Cc: Todd Mucha; Seth Ireland; Jerry Mathews; Braidy Moulder; Sarah Chapman; Susan Lopez; Marilyn Roemisch; natalie@energystaffingllc.com
Subject: J C FEDERAL #027 Battery

We had a spill April 24, 2021 at around 7:15 A.M. at the J C FEDERAL #027 Battery on the Water Tank.
The PLC blew a fuse on it and no alarm was sent out, causing the transfer pump not to come on, and the Water tank ran over.
There was a little skim oil on top of water tank.
The fluid stayed in the containment, this battery does have a liner with no pea gravel or dirt.
Vacuum truck was dispatched and pressure washer crew, to wash liner to pick up fluid.
Oil – 1 BBLs
WTR- 42.2 BBls
Total Spilled 43.2 bbls.
Recovered 42.5 bbls.

We will have ESS Environmental Company coming out to evaluate this. And filing any paper work on this spill.

If you have any question please give me a call.

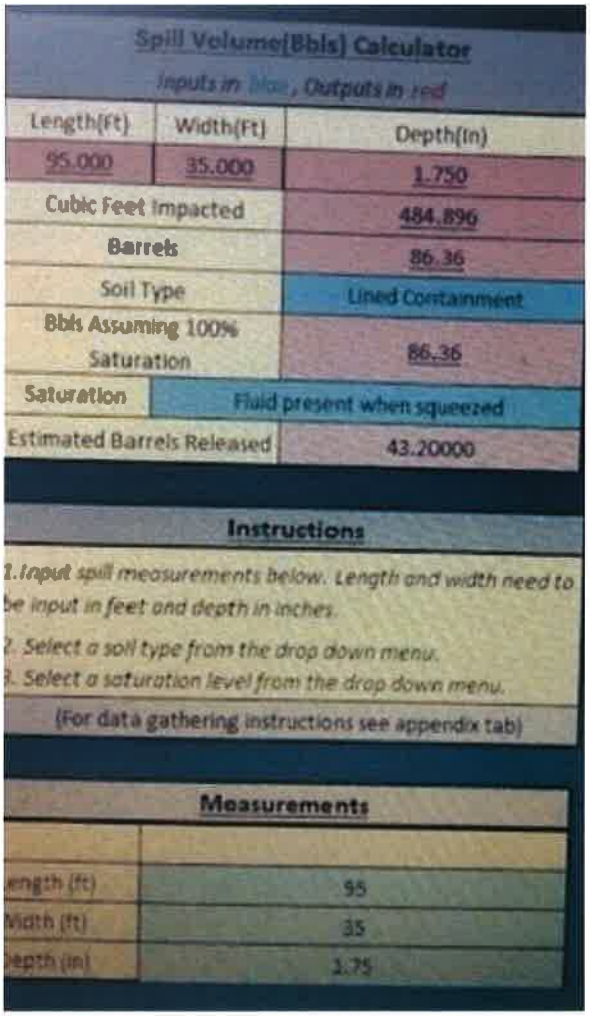
This well is on the battery location.

J C FEDERAL #027

Sec. M-22-17S-32E 1240 FSL 990 FWL

Lat/Long: 32.8162079,-103.7596512 NAD83

API 30-025-39247



Spill Volume(Bbls) Calculator		
Inputs in blue, Outputs in red		
Length(Ft)	Width(Ft)	Depth(In)
95.000	35.000	1.750
Cubic Feet Impacted		484.896
Barrels		86.36
Soil Type		Lined Containment
Bbls Assuming 100% Saturation		86.36
Saturation	Fluid present when squeezed	
Estimated Barrels Released		43.20000

Instructions
1. Input spill measurements below. Length and width need to be input in feet and depth in inches.
2. Select a soil type from the drop down menu.
3. Select a saturation level from the drop down menu.
(For data gathering instructions see appendix tab)

Measurements	
Length (ft)	95
Width (ft)	35
Depth (in)	1.75

Thanks,

Kenny Kidd
Assistant Production Superintendent
Office 575-616-5400
Cell 575-390-9254

SPUR ENERGY PARTNERS

Disclaimer

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	nAPP2105332930
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party **SPUR ENERGY PARTNERS**	OGRID **328947**
Contact Name **BRAIDY MOULDER**	Contact Telephone **713-264-2517**
Contact email **BMOULDER@SPUREPLLC.COM**	Incident # *(assigned by OCD)*
Contact mailing address **919 MILAM STREET SUITE 2475 HOUSTON, TEXAS 77002**	

Location of Release Source

Latitude **32.8162079** Longitude **-103.759651200**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name **JC FEDERAL #027 BATTERY**	Site Type **PRODUCTION - FACILITY**
Date Release Discovered **2/19/21**	API# *(if applicable)* ***30-025-39247***

Unit Letter	Section	Township	Range	County
M	**22**	**17S**	**32E**	**LEA**

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) **43BBLS**	Volume Recovered (bbls) **37BBLS**
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

THE TRANSMITTER FROZE GOING TO THE POC AND THE ANTILOG BOARD FAILED ON THE PLC, NO ALARM WAS SENT OUT, CAUSING THE TRANSFER PUMP NOT TO RUN, AND THE WATER TANK RAN OVER. PRODUCED WATER WITH A SKIN OF OIL WAS RELEASED INSIDE THE LINED CONTAINMENT.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2105332930
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? **OVER 25BBL RELEASE**
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? **NMOCD WAS NOTIFIED BY EMAIL ON 2/19/21 AT 4:52AM.**	

Initial Response

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

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

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

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

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

Printed Name: **NATALIE GLADDEN** Title: **DIRECTOR OF ENVIRONMENTAL AND REGULATORY SERVICES**

Signature: Natalie Gladden Date: **2/22/21**

email: **NATALIE@ENERGYSTAFFINGLLC.COM** Telephone: **575-390-6397**

OCD Only

Received by: _____ Date: _____

Natalie Gladden

From: OCDOnline@state.nm.us
Sent: Tuesday, February 23, 2021 4:33 PM
To: natalie@energystaffingllc.com
Subject: The Oil Conservation Division (OCD) has approved the application PO: BS64S-210222-C-1410.

To whom it may concern (c/o Natalie Gladden for Spur Energy Partners LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2105332930,
with the following conditions:

- **None**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Ramona Marcus
Compliance Officer Advanced
505-470-3044
Ramona.Marcus@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

natalie@energystaffingllc.com

From:	Kenny Kidd <kkidd@spurepllc.com>
Sent:	Friday, February 19, 2021 4:52 PM
To:	CFO_Spill, BLM_NM; Venegas, Victoria, EMNRD; Hamlet, Robert, EMNRD; Bratcher, Mike, EMNRD; Jim.Griswold@state.nm.us
Cc:	Todd Mucha; Seth Ireland; Jerry Mathews; Braidy Moulder; Sarah Chapman; Susan Lopez; Marilyn Roemisch; natalie@energystaffingllc.com
Subject:	J C FEDERAL #027 Battery

We had a spill Feb 19, 2021 at around 7:00 A.M.
at the J C FEDERAL #027 Battery on the Water Tank.
The transmitter froze up going to the POC and the Antilog board failed on PLC, no alarm was sent out, causing the transfer pump not to come on, and the Water tank ran over.
Produce water with a skim of oil on top.
The fluid stayed in the containment, this battery does have a liner with Pea Gravel on top of the liner.
RT trucking was dispatch to pick up fluid.

Spilled 43 bbls.
Recovered 37 bbls.

We will have ESS Environmental Company coming out to evaluate this. And filing any paper work on this spill.

If you have any question please give me a call.

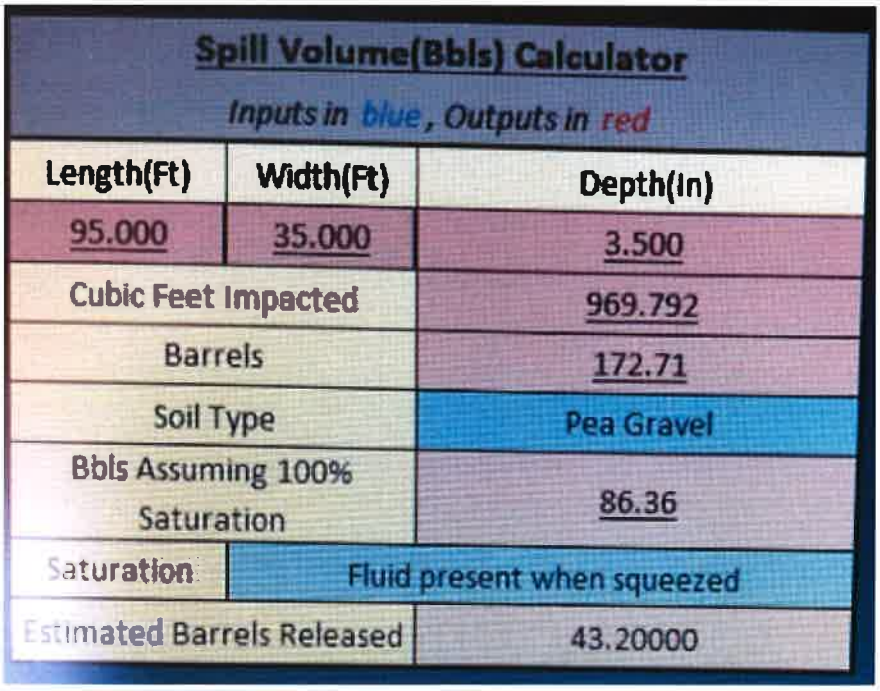
This well is on the battery location.

J C FEDERAL #027

Sec. M-22-17S-32E 1240 FSL 990 FWL

Lat/Long: 32.8162079,-103.7596512 NAD83

API 30-025-39247



Spill Volume(Bbls) Calculator *Inputs in blue, Outputs in red*		
Length(Ft)	Width(Ft)	Depth(In)
95.000	35.000	3.500
Cubic Feet Impacted		969.792
Barrels		172.71
Soil Type		Pea Gravel
Bbls Assuming 100% Saturation		86.36
Saturation	Fluid present when squeezed	
Estimated Barrels Released		43.20000

Thanks,

Kenny Kidd
Assistant Production Superintendent
Office 575-616-5400
Cell 575-390-9254

SPUR ENERGY PARTNERS

Disclaimer

District I
1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	nAPP2111658280
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party **SPUR ENERGY PARTNERS**	OGRID **328947**
Contact Name **BRAIDY MOULDER**	Contact Telephone **713-264-2517**
Contact email **BMOULDER@SPUREPLLC.COM**	Incident # *(assigned by OCD)*
Contact mailing address **919 MILAM STREET SUITE 2475 HOUSTON, TEXAS 77002**	

Location of Release Source

Latitude **32.8162079** Longitude **-103.759651200**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name **JC FEDERAL #027 BATTERY**	Site Type **PRODUCTION - FACILITY**
Date Release Discovered **4/24/21**	API# *(if applicable)* ***30-025-39247***

Unit Letter	Section	Township	Range	County
M	**22**	**17S**	**32E**	**LEA**

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls) **1**	Volume Recovered (bbls) **1**
☒ Produced Water	Volume Released (bbls) **42.2**	Volume Recovered (bbls) **41.5**
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

THE PLC BLEW A FUSE, NO ALARM NOTIFICATION WAS SENT, CAUSING THE TRANSFER PUMP NOT TO COME ON AND THE WATER TANK RAN OVER INTO THE LINED CONTAINMENT.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2111658280
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? **OVER 25BBL RELEASE**
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? **NMOCD WAS NOTIFIED BY EMAIL ON 4.24.21 AT 7:41PM.**	

Initial Response

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

☒ The source of the release has been stopped.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: **NATALIE GLADDEN** Title: **DIRECTOR OF ENVIRONMENTAL AND REGULATORY SERVICES**

Signature: Natalie Gladden Date: **4/26/21**

email: **NATALIE@ENERGYSTAFFINGLLC.COM** Telephone: **575-390-6397**

OCD Only

Received by: _____ Date: _____

Natalie Gladden

From: OCDOnline@state.nm.us
Sent: Monday, April 26, 2021 4:11 PM
To: natalie@energystaffingllc.com
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 25642

To whom it may concern (c/o Natalie Gladden for Spur Energy Partners LLC),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2111658280,
with the following conditions:

- **When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.**

Please reference nAPP2111658280, on all subsequent C-141 submissions and communications regarding the remediation of this release.
NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number.
If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

United States Department of the Interior
Bureau of Land Management
New Mexico Carlsbad Field Office

Report of Undesirable Event

1. Operator: **SPUR ENERGY PARTNERS**		Field Name: **JC FEDERAL**		
2. IID NO (Lease, ROW, Unit/PA,CA): **NMLC0295095B**				
3. Date of Occurrence: **4/24/21**	Time of Occurrence: **7:15AM**			
4. Date Reported to BLM: **4/24/21**	Time Reported to BLM: **7:41PM**	Reported to: **CFO SPILL EMAIL**		
5. Reported By: **KENNY KIDD**		Phone Number: **575-616-5400**		
6. Person in Charge: **BRAIDY MOULDER**		Phone Number: **713-264-2517**		
7. Location: County **LEA** State **NM**		T. **17S**	R. **32E** Sec. **22** Qtr/Qtr or Unit **M**	
8. Surface Ownership (BLM, other Federal, Fee, State, Indian): **BLM**		Nearest Town or Landmark: **MALJAMAR**		
9. Well or Facility ID: **JC FEDERAL 27 BATTERY API NO. 30-025-39247**				
10. Type of Event (see instructions): **PRODUCED WATER AND OIL RELEASE**				
11. Cause of, and Extent of Event: **THE PLC BLEW A FUSE, NO ALARM NOTIFICATION WAS SENT, CAUSING THE TRANSFER PUMP NOT TO COME ON AND THE WATER TANK RAN OVER INTO THE LINED CONTAINMENT.**				
12. Volume Discharged or Consumed: Volume Recovered: Volume Lost:	Oil **1** Oil **1** Oil **0**	Water **42.2** Water **41.5** Water	Gas Gas Gas	Other Other Other
13. Time Required to Control Event:				
14. Action Taken to Control Event: **FUSE WAS REPLACED AND TRANSFER PUMP BEGAN WORKING TO MOVE FLUID TO TANK**				
15. Description of Potential/Resultant Damage and Cause/Extents of Personal Injuries: **RELEASE WAS INSIDE A LINED CONTAINMENT, NO FLUID EXITED THE CONTAINMENT**				
16. Clean up Procedures and Dates: **STANDING FLUID WAS RECOVERED, LINER AND TANKS WERE POWERWASHED**				
17. Action Taken to Prevent Recurrence/Initiate or Update Contingency Planning **CORRECTING ALARM ISSUE**				
18. General Remarks:				
19. Other Federal, State, and Local Agencies Notified: NMOCD (505-476-3493), NMED (505-827-2855), NMSWQB (505-827-0187), NMGWQB (505-827-9329), EPA National Response Center (800-424-8802), DOI OEPC (505-563-3572), NM State Police (505-827-9329), County OEM, Landowner (list name and phone below), Other (list name and phone below):				
20. Signature: Natalie Gladden		Date: 4/26/21		

BLM USE ONLY

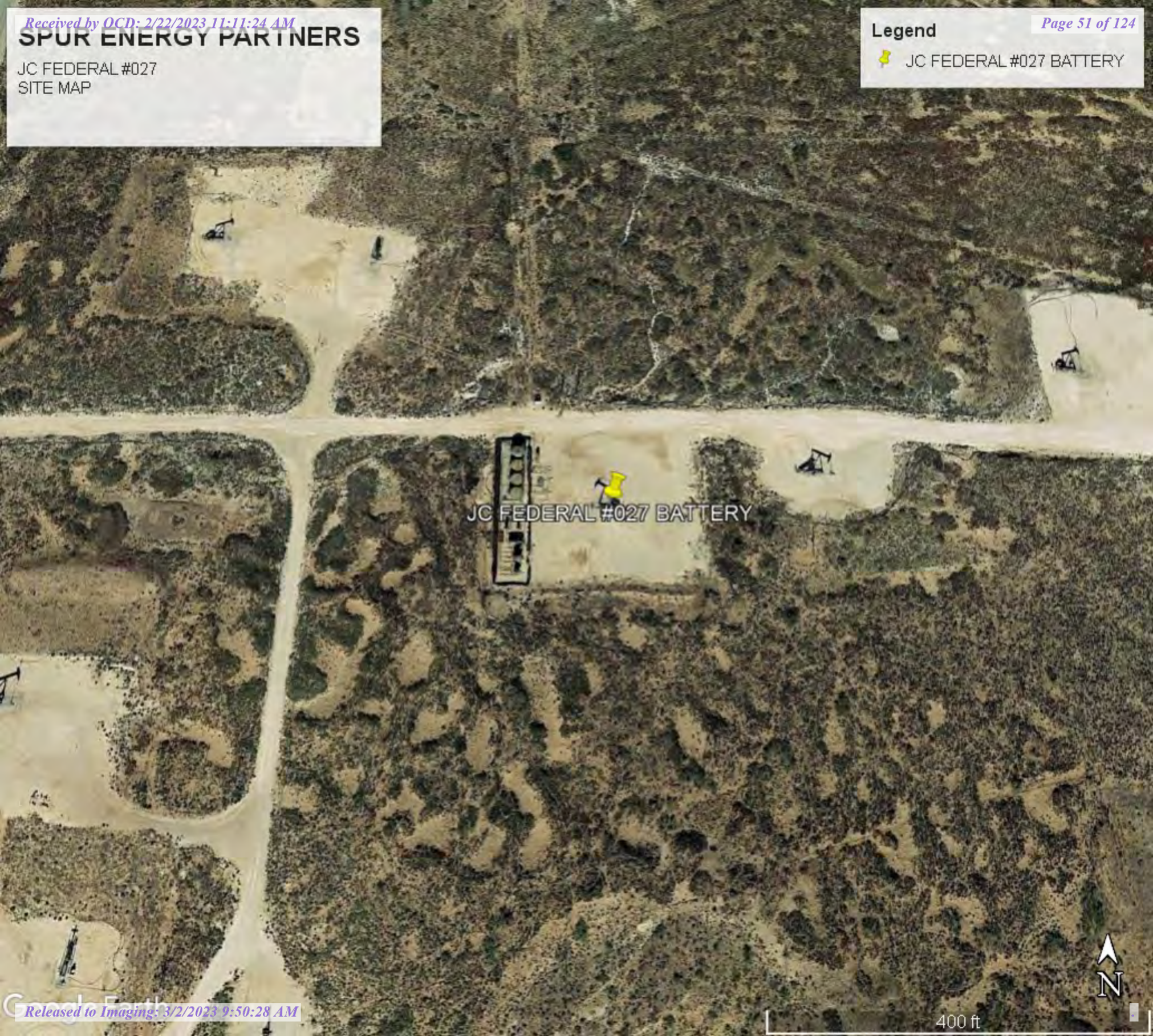
A. Field Office:		B. Date Reported to NMSO:
C. Event Classification (I, II, or III):		
D. Site Inspected By:		Date:
E. FY (PRIORITY YEAR): ____		INSPECTION NO:
F. INSPECTION TYPE: **NU**		G. ACTIVITY CODE (SV or FA):
H. NO. TRIPS:	INSPECTION HRS:	OFFICE HRS:

SPUR ENERGY PARTNERS

JC FEDERAL #027
SITE MAP

Legend

JC FEDERAL #027 BATTERY



Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition

In areas that have similar climate and topography, differences in the kind and amount of rangeland or forest understory vegetation are closely related to the kind of soil. Effective management is based on the relationship between the soils and vegetation and water.

This table shows, for each soil that supports vegetation, the ecological site, plant association, or habitat type; the total annual production of vegetation in favorable, normal, and unfavorable years; the characteristic vegetation; and the average percentage of each species. An explanation of the column headings in the table follows.

An *ecological site, plant association, or habitat type* is the product of all the environmental factors responsible for its development. It has characteristic soils that have developed over time throughout the soil development process; a characteristic hydrology, particularly infiltration and runoff that has developed over time; and a characteristic plant community (kind and amount of vegetation). The hydrology of the site is influenced by development of the soil and plant community. The vegetation, soils, and hydrology are all interrelated. Each is influenced by the others and influences the development of the others. The plant community on an ecological site, plant association, or habitat type is typified by an association of species that differs from that of other ecological sites, plant associations, or habitat types in the kind and/or proportion of species or in total production. Descriptions of ecological sites are provided in the Field Office Technical Guide, which is available in local offices of the Natural Resources Conservation Service (NRCS). Descriptions of plant associations or habitat types are available from local U.S. Forest Service offices.

Total dry-weight production is the amount of vegetation that can be expected to grow annually in a well managed area that is supporting the potential natural plant community. It includes all vegetation, whether or not it is palatable to grazing animals. It includes the current year's growth of leaves, twigs, and fruits of woody plants. It does not include the increase in stem diameter of trees and shrubs. It is expressed in pounds per acre of air-dry vegetation for favorable, normal, and unfavorable years. In a favorable year, the amount and distribution of precipitation and the temperatures make growing conditions substantially better than average. In a normal year, growing conditions are about average. In an unfavorable year, growing conditions are well below average, generally because of low available soil moisture. Yields are adjusted to a common percent of air-dry moisture content.

Characteristic vegetation (the grasses, forbs, shrubs, and understory trees that make up most of the potential natural plant community on each soil) is listed by common name. Under *rangeland composition and forest understory*, the expected percentage of the total annual production is given for each species making up the characteristic vegetation. The percentages are by dry weight for rangeland. Percentages for forest understory are by either dry weight or canopy cover. The amount that can be used as forage depends on the kinds of grazing animals and on the grazing season.

Range management requires knowledge of the kinds of soil and of the potential natural plant community. It also requires an evaluation of the present range similarity index and rangeland trend. Range similarity index is determined by comparing the present plant community with the potential natural plant community on a particular rangeland ecological site. The more closely the existing community resembles the potential community, the higher the range similarity index. Rangeland trend is defined as the direction of change in an existing plant community relative to the potential natural plant community. Further information about the range similarity index and rangeland trend is available in the "National Range and Pasture Handbook," which is available in local offices of NRCS or on the Internet.

The objective in range management is to control grazing so that the plants growing on a site are about the same in kind and amount as the potential natural plant community for that site. Such management generally results in the optimum production of vegetation, control of undesirable brush species, conservation of water, and control of erosion. Sometimes, however, an area with a range similarity index somewhat below the potential meets grazing needs, provides wildlife habitat, and protects soil and water resources.

Reference:
United States Department of Agriculture, Natural Resources Conservation Service, National range and pasture handbook.

Report—Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition

Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition–Lea County, New Mexico								
Map unit symbol and soil name	Ecological Site, Plant Association, or Habitat Type	Total dry-weight production			Characteristic rangeland or forest understory vegetation	Composition		
		Favorable year	Normal year	Unfavorable year			Rangeland	Forest understory
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct dry wt*	*Pct dry wt*	
KM—Kermit soils and Dune land, 0 to 12 percent slopes								
Kermit	Sandhills (R042XC022NM)	1,350	—	600	dropseed	15		
					other perennial grasses	15		
					giant dropseed	10		
					Havard's panicgrass	10		
					other perennial forbs	10		
					sand bluestem	10		
					common sunflower	5		
					Havard's oak	5		
					other shrubs	5		
					plains bristlegrass	5		
					sand paspalum	5		
					yucca	5		
Dune land	—	—	—	—	—			

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 18, Sep 10, 2021

Soil Map—Lea County, New Mexico
(JC FEDERAL #27 BATTERY)

Map Scale: 1:1,030 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 15 30 60 90

Feet
0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

Soil Map—Lea County, New Mexico
(JC FEDERAL #27 BATTERY)

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 18, Sep 10, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KM	Kermit soils and Dune land, 0 to 12 percent slopes	4.8	100.0%
Totals for Area of Interest		**4.8**	**100.0%**

SPUR ENERGY PARTNERS

JC FEDERAL #027
KARST MAP

Legend

- Critical
- High
- JC FEDERAL #027 BATTERY
- Low
- Medium

JC FEDERAL #027 BATTERY

N

10 mi

Google Earth

Image Landsat / Copernicus

SPUR ENERGY

JC FEDERAL #027 BATTERY
WATERCOURSE MAP

New Mexico Office of the State Engineer

Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 616111.64 **Northing (Y):** 3631593.23 **Radius:** 1000

New Mexico Office of the State Engineer
Wells with Well Log Information

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

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

POD Number	Code	POD Subbasin	County	Source	q 64	q 16	q 4	Sec	Twn	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
RA 12521 POD1		RA	LE	Shallow	3	3	4	21	17S	32E	615127	3631271	1036	07/21/2017	07/26/2017	08/22/2017	105	92	WHITE, JOHN W	1456
RA 12020 POD3		RA	LE	Shallow	2	1	2	28	17S	32E	615152	3631019	1118	07/13/2015	07/15/2015	08/10/2015	112	83	WHITE, JOHN W	1456
RA 12522 POD3		RA	LE	Shallow	4	4	3	28	17S	32E	614980	3631093	1236	07/20/2017	07/26/2017	08/22/2017	100		WHITE, JOHN W	1456
RA 12522 POD1		RA	LE	Shallow	3	3	4	21	17S	32E	614941	3631122	1262	07/25/2017	07/26/2017	08/22/2017	100		WHITE, JOHN W	1456
RA 12522 POD2		RA	LE	Shallow	2	2	1	28	17S	32E	614949	3631098	1263	07/24/2017	07/26/2017	08/22/2017	100		WHITE, JOHN W	1456
RA 12042 POD1		RA	LE		2	2	1	28	17S	32E	614891	3631181	1288	11/13/2013	11/22/2013	12/12/2013	400		CRASS, DARRELL (LD)	1261
RA 10175		RA	LE	Shallow		2	1	28	17S	32E	614814	3631005*	1424	02/04/2002	02/04/2002	03/06/2002	158		EADES, ALAN	1044
RA 12020 POD1		RA	LE	Shallow	2	2	1	28	17S	32E	614828	3630954	1434	09/24/2013	09/25/2013	10/07/2013	120	81	WHITE, JOHN (LD)	1456
RA 12721 POD2		RA	LE	Shallow	1	1	4	28	17S	32E	615055	3630407	1588	04/18/2019	04/19/2019	05/15/2019	124	75	JOHN W WHITE	1456
RA 12721 POD5		RA	LE	Shallow	2	4	4	28	17S	32E	615650	3629961	1695	04/27/2020	04/28/2020	05/18/2020	130	124	WHITE, JOHNNOWN.GENER	1456
RA 12721 POD3		RA	LE	Shallow	2	3	4	28	17S	32E	615417	3629979	1756	04/18/2019	04/19/2019	05/15/2019	115		JOHN W WHITE	1456
RA 12721 POD1		RA	LE		3	2	3	28	17S	32E	614645	3630141	2063	04/18/2019	04/19/2019	05/15/2019	125		JOHN W WHITE	1456
RA 12721 POD6		RA	LE		1	2	2	33	17S	32E	615530	3629431	2238	04/28/2020	04/28/2020	05/18/2020	130		WHITE, JOHNNOWN.GENER	1456
RA 12721 POD4		RA	LE		1	1	2	33	17S	32E	615055	3629589	2265	04/18/2019	04/19/2019	05/15/2019	140		JOHN W WHITE	1456
RA 12721 POD8		RA	LE	Shallow	1	2	1	33	17S	32E	614640	3629463	2588	09/28/2020	09/28/2020	10/14/2020	130	108	JOHN W WHITE	1456
RA 12721 POD7		RA	LE		1	3	2	33	17S	32E	615064	3629198	2614	04/28/2020	04/28/2020	05/18/2020	130		WHITE, JOHNNOWN.GENER	1456
RA 11911 POD1		RA	LE	Shallow	1	3	1	24	17S	32E	619192	3632296	3159	06/11/2013	06/11/2013	06/21/2013	35		NORRIS, JOHN D. (LD)	1682
RA 08855		RA	LE		4	1	1	10	17S	32E	616061	3635742*	4149	07/28/1994	08/04/1994	08/10/1994	158		J & K DRILLING	1235
L 13047 POD1		L	LE					11	17S	32E	618187	3635254*	4208		09/10/1947	01/13/1959	140		BURKE	
RA 12436 POD1		RA	LE	Shallow	2	2	1	10	17S	32E	616556	3635929	4359	01/04/2017	01/09/2017	01/13/2017	160	125	TAYLOR, ROY A.	1626
L 13050 POD1		L	LE	Shallow	2	2	1	10	17S	32E	616463	3635945*	4365	12/23/1961	01/01/1962	01/18/1962	156	132	ALDREDGE, C.O.	79
CP 00566 POD1		CP	LE	Shallow	4	4	1	04	18S	32E	614960	3627280*	4464	06/01/1977	06/03/1977	06/13/1977	133	65	ABBOTT, MURRELL	46

Record Count: 22

UTMNAD83 Radius Search (in meters):

Easting (X): 616111.64 **Northing (Y):** 3631593.23 **Radius:** 5000

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

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	RA 12020 POD3	2	1	2	28	17S	32E	615152	3631019

Driller License:	1456	**Driller Company:**	WHITE DRILLING COMPANY		
Driller Name:	WHITE, JOHN W				
Drill Start Date:	07/13/2015	**Drill Finish Date:**	07/15/2015	**Plug Date:**	
Log File Date:	08/10/2015	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	2.00	**Depth Well:**	112 feet	**Depth Water:**	83 feet

Water Bearing Stratifications:	Top	Bottom	Description
	70	96	Sandstone/Gravel/Conglomerate
	96	97	Sandstone/Gravel/Conglomerate
	97	101	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	73	108

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	RA 12521 POD1	3	3	4	21	17S	32E	615127	3631271

Driller License:	1456	**Driller Company:**	WHITE DRILLING COMPANY		
Driller Name:	WHITE, JOHN W				
Drill Start Date:	07/21/2017	**Drill Finish Date:**	07/26/2017	**Plug Date:**	
Log File Date:	08/22/2017	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	2.00	**Depth Well:**	105 feet	**Depth Water:**	92 feet

Water Bearing Stratifications:	Top	Bottom	Description
	85	101	Sandstone/Gravel/Conglomerate
	101	105	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	75	105

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	RA 12522 POD1	3	3	4	21	17S	32E	614941	3631122

Driller License:	1456	**Driller Company:**	WHITE DRILLING COMPANY		
Driller Name:	WHITE, JOHN W				
Drill Start Date:	07/25/2017	**Drill Finish Date:**	07/26/2017	**Plug Date:**	
Log File Date:	08/22/2017	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	4.00	**Depth Well:**	100 feet	**Depth Water:**	

Water Bearing Stratifications:	Top	Bottom	Description
	78	86	Sandstone/Gravel/Conglomerate
	86	97	Sandstone/Gravel/Conglomerate
	97	100	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	70	100

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	RA 12522 POD3	4	4	3	28	17S	32E	614980	3631093

Driller License:	1456	**Driller Company:**	WHITE DRILLING COMPANY		
Driller Name:	WHITE, JOHN W				
Drill Start Date:	07/20/2017	**Drill Finish Date:**	07/26/2017	**Plug Date:**	
Log File Date:	08/22/2017	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	4.00	**Depth Well:**	100 feet	**Depth Water:**	

Water Bearing Stratifications:	Top	Bottom	Description
	82	93	Sandstone/Gravel/Conglomerate
	93	97	Sandstone/Gravel/Conglomerate
	97	99	Sandstone/Gravel/Conglomerate
	99	100	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	70	100

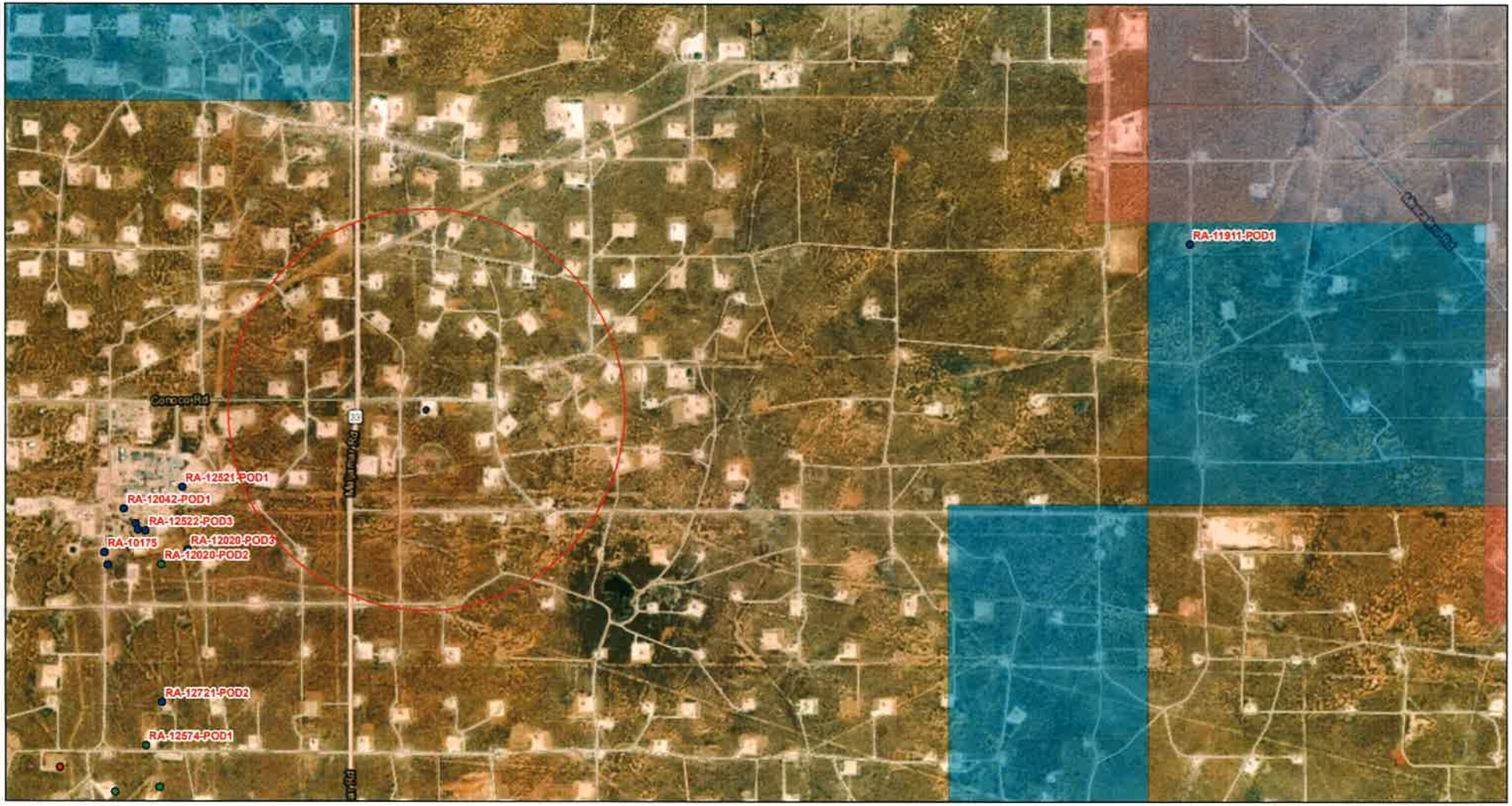
SPUR ENERGY PARTNERS

JC FEDERAL #027
GROUNDWATER MAP

Legend

- JC FEDERAL #027 BATTERY
- RA 12020 POD3-1118' FR SITE-83'DGW DRILLED IN 2015
- RA 12521 POD1-1036' FROM SITE-92'DGW DRILLED IN 2017
- RA 12522 POD1-1262' FR SITE-NO GW-DRILLED IN 2017
- RA 12522 POD3-1236' FR SITE-NO GW-DRILLED IN 2017

OSE POD Locations Map



7/25/2022, 5:34:46 PM

GIS WATERS PODs
- Active
- Pending
- Plugged

OSE District Boundary

Water Right Regulations
- Critical Management Area - Guidelines

New Mexico State Trust Lands
- Both Estates
- SiteBoundaries

1:18,056

0 0.17 0.35 0.7 mi

0 0.3 0.6 1.2 km

Esri, HERE, GeoTechnologies, Inc., Esri, HERE, Garmin, GeoTechnologies, Inc., U.S. Department of Energy Office of Legacy Management, Maxar

Unofficial Online Map
These maps are distributed "as is" without warranty of any kind.

INITIAL PHOTOS

DOR: 02/19/2021


WGS84 32.81627,
±16ft -103.75990
ft
±11ft 4034
°T
±17 SW213
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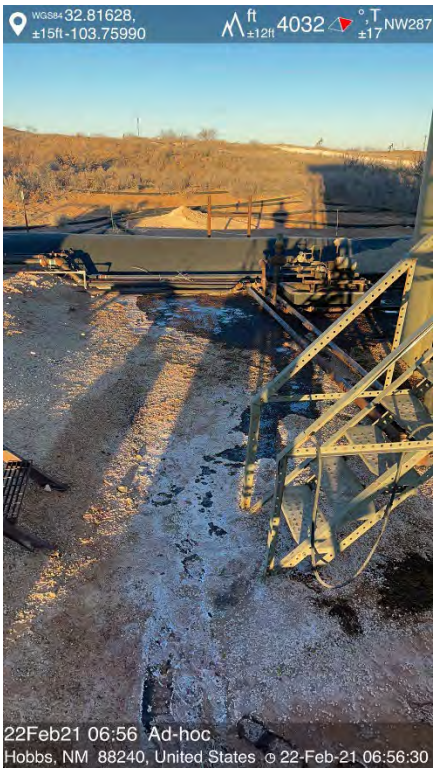
Hobbs, NM 88240, United States
22-Feb-21 06:56:41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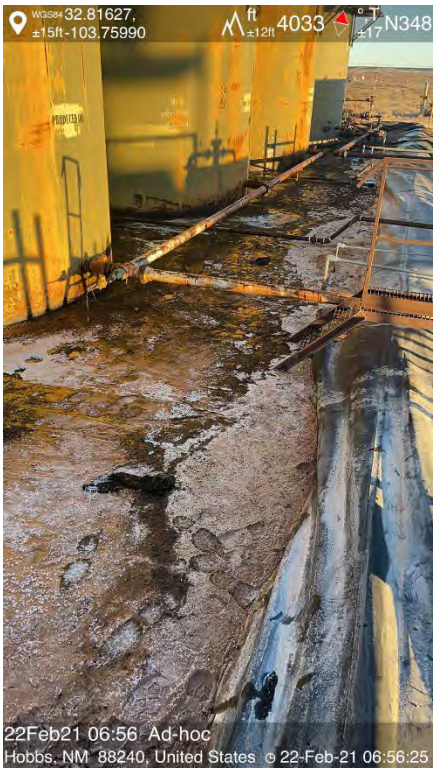
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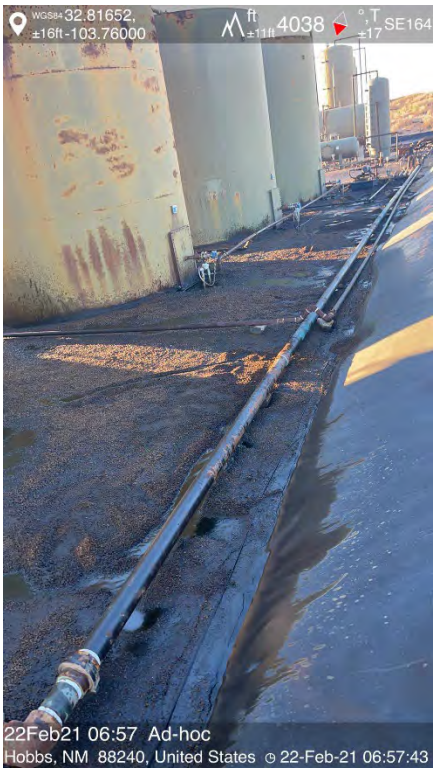
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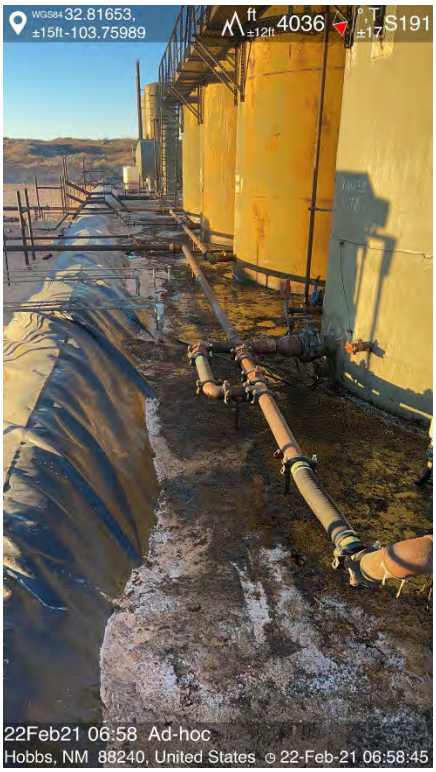
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°T
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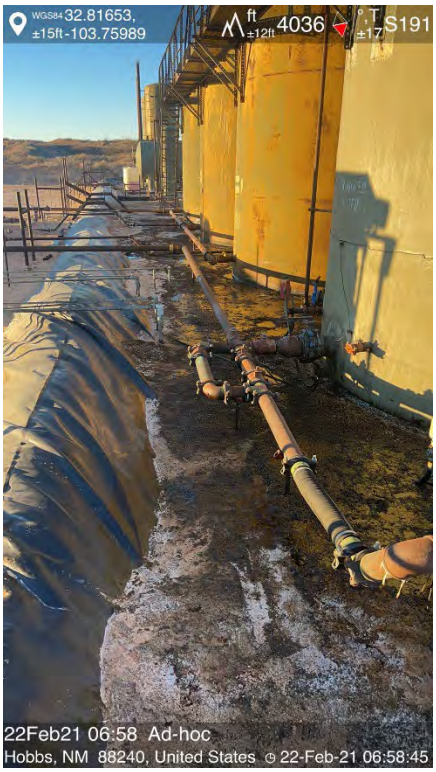
Hobbs, NM 88240, United States 22-Feb-21 06:58:45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°T
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ft
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°T
±16 E91
22Feb21 06:58 Ad-hoc
Hobbs, NM 88240, United States
22-Feb-21 06:58:22

Natalie Gladden

From: natalie@energystaffingllc.com
Sent: Wednesday, April 21, 2021 1:47 PM
To: OCDOnline@state.nm.us; CFO SPILLS BLM; ROBERT HAMLET; MIKE BRATCHER; CRISTINA EADS
Cc: 'Braidy Moulder'; 'Dakoatah Montanez'
Subject: Liner Inspection - Spur Energy - JC Federal #27 Battery and Federal B1 SWD

All,

ESS will be conducting a liner inspection and possible sampling protocol on the following sites:

JC Federal #27 Battery: Date of Release 2/19/21, Incident ID #NAPP2105332930
Federal B1 SWD #1: Date of Release 6/26/2020, Incident ID #NRM2018256434

This is our 48 hour notification, work will begin Monday morning on 4/26/2021.

Thank you in advance for your time in this matter.

Natalie Gladden

Director of Environmental and Regulatory Services
Energy Staffing Services, LLC.
#7 Compress Rd
Artesia, NM 88210
Cell: 575-390-6397
Email: natalie@energystaffingllc.com

Company Name: SPUR **Location Name:** JC FED 27 **Release Date:** 2/19/21 AND 4/24/21

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Soil	Notes
SP1	2"	ND	ND								
	1'	40	ND								
	2'	100	ND								
	3'	80	ND								
	4'	60	ND								
	5'	40	ND	ND	ND	ND	ND	ND	47.6		
SP2	2"	200									
	1'	200									
	2'	180									
	3'	180									
	4'	160	ND	ND	ND	ND	ND	ND	147		
SP3	2"	560									
	1'	620									
	2'	600									
	3'	640									
	4'	620									
	5'	600									
	6'	280									
	7	100	ND	ND	ND	ND	ND	ND	104		
SP4	2"	400									
	1'	620									
	2'	600									
	3'	400									
	4'	240	ND	ND	ND	ND	ND	ND	266		
BG	SURF	ND	ND	ND	ND	ND	ND	ND	ND		BACKGROUND

SPUR ENERGY

JC FEDERAL 27 BATTERY
SAMPLE MAP

SAMPLE ID GPS:
SP1: 32.816469 -103.759979
SP2: 32.816307 -103.759979
SP3: 32.816275 -103.759897
SP4: 32.816375 -103.759902
BG: 32.816151 -103.760306

Report to:

Natalie Gladden

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Spur

Project Name: JC Federal 27

Work Order: E105001

Job Number: 20046-0001

Received: 5/1/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/7/21

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/7/21

Natalie Gladden
PO Box 1058
Hobbs, NM 88240

Project Name: JC Federal 27
Workorder: E105001
Date Received: 5/1/2021 10:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/1/2021 10:00:00AM, under the Project Name: JC Federal 27.

The analytical test results summarized in this report with the Project Name: JC Federal 27 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Office:

Lynn Estes
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
lestes@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Spur	Project Name:	JC Federal 27	**Reported:**
PO Box 1058	Project Number:	20046-0001	
Hobbs NM, 88240	Project Manager:	Natalie Gladden	05/07/21 11:30

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1 5'	E105001-01A	Soil	04/28/21	05/01/21	Glass Jar, 4 oz.
SP2 4	E105001-02A	Soil	04/28/21	05/01/21	Glass Jar, 4 oz.

Sample Data

Spur	Project Name:	JC Federal 27	
PO Box 1058	Project Number:	20046-0001	**Reported:**
Hobbs NM, 88240	Project Manager:	Natalie Gladden	5/7/2021 11:30:56AM

SP1 5'

E105001-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2119013
Benzene	ND	0.0250	1	05/04/21	05/04/21	
Ethylbenzene	ND	0.0250	1	05/04/21	05/04/21	
Toluene	ND	0.0250	1	05/04/21	05/04/21	
o-Xylene	ND	0.0250	1	05/04/21	05/04/21	
p,m-Xylene	ND	0.0500	1	05/04/21	05/04/21	
Total Xylenes	ND	0.0250	1	05/04/21	05/04/21	
Surrogate: 4-Bromochlorobenzene-PID		*95.6 %*	*70-130*	*05/04/21*	*05/04/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2119013
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/04/21	05/04/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*103 %*	*70-130*	*05/04/21*	*05/04/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2119017
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/21	05/05/21	
Oil Range Organics (C28-C35)	ND	50.0	1	05/05/21	05/05/21	
Surrogate: n-Nonane		*106 %*	*50-200*	*05/05/21*	*05/05/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2119005
Chloride	**47.6**	20.0	1	05/03/21	05/04/21	

Sample Data

Spur	Project Name:	JC Federal 27	
PO Box 1058	Project Number:	20046-0001	**Reported:**
Hobbs NM, 88240	Project Manager:	Natalie Gladden	5/7/2021 11:30:56AM

SP2 4

E105001-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2119013
Benzene	ND	0.0250	1	05/04/21	05/04/21	
Ethylbenzene	ND	0.0250	1	05/04/21	05/04/21	
Toluene	ND	0.0250	1	05/04/21	05/04/21	
o-Xylene	ND	0.0250	1	05/04/21	05/04/21	
p,m-Xylene	ND	0.0500	1	05/04/21	05/04/21	
Total Xylenes	ND	0.0250	1	05/04/21	05/04/21	
Surrogate: 4-Bromochlorobenzene-PID		*93.1 %*	*70-130*	*05/04/21*	*05/04/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2119013
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/04/21	05/04/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*105 %*	*70-130*	*05/04/21*	*05/04/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2119017
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/21	05/05/21	
Oil Range Organics (C28-C35)	ND	50.0	1	05/05/21	05/05/21	
Surrogate: n-Nonane		*106 %*	*50-200*	*05/05/21*	*05/05/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2119005
Chloride	**147**	20.0	1	05/03/21	05/04/21	

QC Summary Data

Spur	Project Name:	JC Federal 27	**Reported:**
PO Box 1058	Project Number:	20046-0001	
Hobbs NM, 88240	Project Manager:	Natalie Gladden	5/7/2021 11:30:56AM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2119013-BLK1)									Prepared: 05/04/21 Analyzed: 05/04/21
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.30*		*8.00*		*91.3*	*70-130*			
LCS (2119013-BS1)									Prepared: 05/04/21 Analyzed: 05/04/21
Benzene	4.97	0.0250	5.00		99.5	70-130			
Ethylbenzene	4.88	0.0250	5.00		97.5	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	5.05	0.0250	5.00		101	70-130			
p,m-Xylene	9.94	0.0500	10.0		99.4	70-130			
Total Xylenes	15.0	0.0250	15.0		99.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.54*		*8.00*		*94.3*	*70-130*			
Matrix Spike (2119013-MS1)				**Source: E105001-01**					Prepared: 05/04/21 Analyzed: 05/04/21
Benzene	5.05	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.98	0.0250	5.00	ND	99.5	61-133			
Toluene	5.19	0.0250	5.00	ND	104	61-130			
o-Xylene	5.16	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.83*		*8.00*		*97.9*	*70-130*			
Matrix Spike Dup (2119013-MSD1)				**Source: E105001-01**					Prepared: 05/04/21 Analyzed: 05/04/21
Benzene	5.08	0.0250	5.00	ND	102	54-133	0.487	20	
Ethylbenzene	4.94	0.0250	5.00	ND	98.8	61-133	0.751	20	
Toluene	5.17	0.0250	5.00	ND	103	61-130	0.411	20	
o-Xylene	5.13	0.0250	5.00	ND	103	63-131	0.491	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	0.781	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	0.683	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.55*		*8.00*		*94.4*	*70-130*			

QC Summary Data

Spur	Project Name:	JC Federal 27	**Reported:**
PO Box 1058	Project Number:	20046-0001	
Hobbs NM, 88240	Project Manager:	Natalie Gladden	5/7/2021 11:30:56AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2119013-BLK1)									Prepared: 05/04/21 Analyzed: 05/04/21
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.56*		*8.00*		*107*	*70-130*			
LCS (2119013-BS2)									Prepared: 05/04/21 Analyzed: 05/04/21
Gasoline Range Organics (C6-C10)	51.5	20.0	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.27*		*8.00*		*103*	*70-130*			
Matrix Spike (2119013-MS2)				**Source: E105001-01**					Prepared: 05/04/21 Analyzed: 05/04/21
Gasoline Range Organics (C6-C10)	51.3	20.0	50.0	ND	103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.30*		*8.00*		*104*	*70-130*			
Matrix Spike Dup (2119013-MSD2)				**Source: E105001-01**					Prepared: 05/04/21 Analyzed: 05/04/21
Gasoline Range Organics (C6-C10)	51.7	20.0	50.0	ND	103	70-130	0.687	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.30*		*8.00*		*104*	*70-130*			

QC Summary Data

Spur	Project Name:	JC Federal 27	**Reported:**
PO Box 1058	Project Number:	20046-0001	
Hobbs NM, 88240	Project Manager:	Natalie Gladden	5/7/2021 11:30:56AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2119017-BLK1)									Prepared: 05/05/21 Analyzed: 05/05/21
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	*62.3*		*50.0*		*125*	*50-200*			
LCS (2119017-BS1)									Prepared: 05/05/21 Analyzed: 05/05/21
Diesel Range Organics (C10-C28)	485	25.0	500		97.1	38-132			
Surrogate: n-Nonane	*53.5*		*50.0*		*107*	*50-200*			
Matrix Spike (2119017-MS1)				**Source: E105001-01**					Prepared: 05/05/21 Analyzed: 05/05/21
Diesel Range Organics (C10-C28)	487	25.0	500	ND	97.4	38-132			
Surrogate: n-Nonane	*54.3*		*50.0*		*109*	*50-200*			
Matrix Spike Dup (2119017-MSD1)				**Source: E105001-01**					Prepared: 05/05/21 Analyzed: 05/05/21
Diesel Range Organics (C10-C28)	479	25.0	500	ND	95.9	38-132	1.61	20	
Surrogate: n-Nonane	*53.3*		*50.0*		*107*	*50-200*			

QC Summary Data

Spur	Project Name:	JC Federal 27	**Reported:**
PO Box 1058	Project Number:	20046-0001	
Hobbs NM, 88240	Project Manager:	Natalie Gladden	5/7/2021 11:30:56AM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2119005-BLK1)									Prepared: 05/03/21 Analyzed: 05/03/21
Chloride	ND	20.0							
LCS (2119005-BS1)									Prepared: 05/03/21 Analyzed: 05/03/21
Chloride	244	20.0	250		97.5	90-110			
Matrix Spike (2119005-MS1)				**Source: E104128-01**					Prepared: 05/03/21 Analyzed: 05/03/21
Chloride	301	20.0	250	57.6	97.5	80-120			
Matrix Spike Dup (2119005-MSD1)				**Source: E104128-01**					Prepared: 05/03/21 Analyzed: 05/03/21
Chloride	305	20.0	250	57.6	99.1	80-120	1.34	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Spur	Project Name:	JC Federal 27	
PO Box 1058	Project Number:	20046-0001	**Reported:**
Hobbs NM, 88240	Project Manager:	Natalie Gladden	05/07/21 11:30

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 1

Client:	Spur
Project:	JC Federal 27
Project Manager:	Braidy Moulder
Address:	
City, State, Zip	
Phone:	
Email:	Natalie Gladden
Report due by:	

Bill To

Attention:	ESS
Address:	7 W Compress Rd
City, State, Zip	Artesia, NM
Phone:	
Email:	Natalie Gladden

Lab Use Only

Lab WO#	Job Number
E105001	2004000001

TAT

1D	2D	3D	Standard
			X

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
X					

Analysis and Method

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX			Remarks
1105	4/28	S	1	SP1 5'	1									X				
2115	4/28	S	1	SP2 4'	2									X				

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/29/21	3:55		4.29.21	1555
	4.30.21	1715		5.1.21	10:00

Lab Use Only

Received on ice: (Y) / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 5/3/2021 10:55:21AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Spur	Date Received:	05/01/21 10:00	Work Order ID:	E105001
Phone:	(575) 390-6397	Date Logged In:	05/03/21 10:51	Logged In By:	Alexa Michaels
Email:	ngladden@energystaffingllc.com	Due Date:	05/07/21 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Lynn Estes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filteration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Natalie Gladden

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Spur

Project Name: JC Federal #27 Batt

Work Order: E105005

Job Number: 20046-0001

Received: 5/4/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/7/21

Date Reported: 5/7/21

Natalie Gladden
PO Box 1058
Hobbs, NM 88240

Project Name: JC Federal #27 Batt
Workorder: E105005
Date Received: 5/4/2021 1:46:00PM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/4/2021 1:46:00PM, under the Project Name: JC Federal #27 Batt.

The analytical test results summarized in this report with the Project Name: JC Federal #27 Batt apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
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Field Office:

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lestes@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Spur	Project Name:	JC Federal #27 Batt	**Reported:**
PO Box 1058	Project Number:	20046-0001	
Hobbs NM, 88240	Project Manager:	Natalie Gladden	05/07/21 11:32

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sample Point 3-7'	E105005-01A	Soil	05/03/21	05/04/21	Glass Jar, 4 oz.
Sample Point 4-4'	E105005-02A	Soil	05/03/21	05/04/21	Glass Jar, 4 oz.
Background - Surf	E105005-03A	Soil	05/03/21	05/04/21	Glass Jar, 4 oz.

Sample Data

Spur	Project Name:	JC Federal #27 Batt	
PO Box 1058	Project Number:	20046-0001	**Reported:**
Hobbs NM, 88240	Project Manager:	Natalie Gladden	5/7/2021 11:32:11AM

Sample Point 3-7'

E105005-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2119016
Benzene	ND	0.0250	1	05/05/21	05/05/21	
Ethylbenzene	ND	0.0250	1	05/05/21	05/05/21	
Toluene	ND	0.0250	1	05/05/21	05/05/21	
o-Xylene	ND	0.0250	1	05/05/21	05/05/21	
p,m-Xylene	ND	0.0500	1	05/05/21	05/05/21	
Total Xylenes	ND	0.0250	1	05/05/21	05/05/21	
Surrogate: 4-Bromochlorobenzene-PID		*93.0 %*	*70-130*	*05/05/21*	*05/05/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2119016
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/21	05/05/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*107 %*	*70-130*	*05/05/21*	*05/05/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2119017
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/21	05/05/21	
Oil Range Organics (C28-C35)	ND	50.0	1	05/05/21	05/05/21	
Surrogate: n-Nonane		*110 %*	*50-200*	*05/05/21*	*05/05/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2119018
Chloride	**104**	20.0	1	05/05/21	05/05/21	

Sample Data

Spur	Project Name:	JC Federal #27 Batt	
PO Box 1058	Project Number:	20046-0001	**Reported:**
Hobbs NM, 88240	Project Manager:	Natalie Gladden	5/7/2021 11:32:11AM

Sample Point 4-4'

E105005-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2119016
Benzene	ND	0.0250	1	05/05/21	05/05/21	
Ethylbenzene	ND	0.0250	1	05/05/21	05/05/21	
Toluene	ND	0.0250	1	05/05/21	05/05/21	
o-Xylene	ND	0.0250	1	05/05/21	05/05/21	
p,m-Xylene	ND	0.0500	1	05/05/21	05/05/21	
Total Xylenes	ND	0.0250	1	05/05/21	05/05/21	
Surrogate: 4-Bromochlorobenzene-PID		*93.8 %*	*70-130*	*05/05/21*	*05/05/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2119016
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/21	05/05/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*106 %*	*70-130*	*05/05/21*	*05/05/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2119017
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/21	05/05/21	
Oil Range Organics (C28-C35)	ND	50.0	1	05/05/21	05/05/21	
Surrogate: n-Nonane		*104 %*	*50-200*	*05/05/21*	*05/05/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2119018
Chloride	**266**	20.0	1	05/05/21	05/05/21	

Sample Data

Spur	Project Name:	JC Federal #27 Batt	
PO Box 1058	Project Number:	20046-0001	**Reported:**
Hobbs NM, 88240	Project Manager:	Natalie Gladden	5/7/2021 11:32:11AM

Background - Surf

E105005-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2119016
Benzene	ND	0.0250	1	05/05/21	05/06/21	
Ethylbenzene	ND	0.0250	1	05/05/21	05/06/21	
Toluene	ND	0.0250	1	05/05/21	05/06/21	
o-Xylene	ND	0.0250	1	05/05/21	05/06/21	
p,m-Xylene	ND	0.0500	1	05/05/21	05/06/21	
Total Xylenes	ND	0.0250	1	05/05/21	05/06/21	
Surrogate: 4-Bromochlorobenzene-PID		*92.8 %*	*70-130*	*05/05/21*	*05/06/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2119016
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/21	05/06/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*107 %*	*70-130*	*05/05/21*	*05/06/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2119017
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/21	05/05/21	
Oil Range Organics (C28-C35)	ND	50.0	1	05/05/21	05/05/21	
Surrogate: n-Nonane		*110 %*	*50-200*	*05/05/21*	*05/05/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2119018
Chloride	ND	20.0	1	05/05/21	05/05/21	

QC Summary Data

Spur	Project Name:	JC Federal #27 Batt	**Reported:**
PO Box 1058	Project Number:	20046-0001	
Hobbs NM, 88240	Project Manager:	Natalie Gladden	5/7/2021 11:32:11AM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2119016-BLK1)									Prepared: 05/05/21 Analyzed: 05/05/21
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.42*		*8.00*		*92.7*	*70-130*			
LCS (2119016-BS1)									Prepared: 05/05/21 Analyzed: 05/05/21
Benzene	4.96	0.0250	5.00		99.2	70-130			
Ethylbenzene	4.85	0.0250	5.00		96.9	70-130			
Toluene	5.07	0.0250	5.00		101	70-130			
o-Xylene	5.02	0.0250	5.00		100	70-130			
p,m-Xylene	9.87	0.0500	10.0		98.7	70-130			
Total Xylenes	14.9	0.0250	15.0		99.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.45*		*8.00*		*93.1*	*70-130*			
Matrix Spike (2119016-MS1)				**Source: E105005-01**					Prepared: 05/05/21 Analyzed: 05/05/21
Benzene	5.18	0.0250	5.00	ND	104	54-133			
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133			
Toluene	5.27	0.0250	5.00	ND	105	61-130			
o-Xylene	5.23	0.0250	5.00	ND	105	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.56*		*8.00*		*94.6*	*70-130*			
Matrix Spike Dup (2119016-MSD1)				**Source: E105005-01**					Prepared: 05/05/21 Analyzed: 05/05/21
Benzene	5.12	0.0250	5.00	ND	102	54-133	1.09	20	
Ethylbenzene	4.98	0.0250	5.00	ND	99.5	61-133	0.868	20	
Toluene	5.21	0.0250	5.00	ND	104	61-130	1.22	20	
o-Xylene	5.18	0.0250	5.00	ND	104	63-131	1.01	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	0.747	20	
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131	0.834	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.60*		*8.00*		*95.0*	*70-130*			

QC Summary Data

Spur	Project Name:	JC Federal #27 Batt	**Reported:**
PO Box 1058	Project Number:	20046-0001	
Hobbs NM, 88240	Project Manager:	Natalie Gladden	5/7/2021 11:32:11AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2119016-BLK1)									Prepared: 05/05/21 Analyzed: 05/05/21
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.23*		*8.00*		*103*	*70-130*			
LCS (2119016-BS2)									Prepared: 05/05/21 Analyzed: 05/05/21
Gasoline Range Organics (C6-C10)	47.0	20.0	50.0		94.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.26*		*8.00*		*103*	*70-130*			
Matrix Spike (2119016-MS2)				**Source: E105005-01**					Prepared: 05/05/21 Analyzed: 05/05/21
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.48*		*8.00*		*106*	*70-130*			
Matrix Spike Dup (2119016-MSD2)				**Source: E105005-01**					Prepared: 05/05/21 Analyzed: 05/05/21
Gasoline Range Organics (C6-C10)	48.9	20.0	50.0	ND	97.7	70-130	1.07	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.74*		*8.00*		*109*	*70-130*			

QC Summary Data

Spur	Project Name:	JC Federal #27 Batt	**Reported:**
PO Box 1058	Project Number:	20046-0001	
Hobbs NM, 88240	Project Manager:	Natalie Gladden	5/7/2021 11:32:11AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2119017-BLK1)									Prepared: 05/05/21 Analyzed: 05/05/21
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	*62.3*		*50.0*		*125*	*50-200*			
LCS (2119017-BS1)									Prepared: 05/05/21 Analyzed: 05/05/21
Diesel Range Organics (C10-C28)	485	25.0	500		97.1	38-132			
Surrogate: n-Nonane	*53.5*		*50.0*		*107*	*50-200*			
Matrix Spike (2119017-MS1)				**Source: E105001-01**					Prepared: 05/05/21 Analyzed: 05/05/21
Diesel Range Organics (C10-C28)	487	25.0	500	ND	97.4	38-132			
Surrogate: n-Nonane	*54.3*		*50.0*		*109*	*50-200*			
Matrix Spike Dup (2119017-MSD1)				**Source: E105001-01**					Prepared: 05/05/21 Analyzed: 05/05/21
Diesel Range Organics (C10-C28)	479	25.0	500	ND	95.9	38-132	1.61	20	
Surrogate: n-Nonane	*53.3*		*50.0*		*107*	*50-200*			

QC Summary Data

Spur	Project Name:	JC Federal #27 Batt	**Reported:**
PO Box 1058	Project Number:	20046-0001	
Hobbs NM, 88240	Project Manager:	Natalie Gladden	5/7/2021 11:32:11AM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2119018-BLK1)									Prepared: 05/05/21 Analyzed: 05/05/21
Chloride	ND	20.0							
LCS (2119018-BS1)									Prepared: 05/05/21 Analyzed: 05/05/21
Chloride	248	20.0	250		99.1	90-110			
Matrix Spike (2119018-MS1)				**Source: E105005-01**					Prepared: 05/05/21 Analyzed: 05/05/21
Chloride	358	20.0	250	104	101	80-120			
Matrix Spike Dup (2119018-MSD1)				**Source: E105005-01**					Prepared: 05/05/21 Analyzed: 05/05/21
Chloride	355	20.0	250	104	100	80-120	0.856	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Spur	Project Name:	JC Federal #27 Batt	
PO Box 1058	Project Number:	20046-0001	**Reported:**
Hobbs NM, 88240	Project Manager:	Natalie Gladden	05/07/21 11:32

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 1

Client:	Spur
Project:	JC FEDERAL #27 BATT
Project Manager:	BRADY MOULDER
Address:	
City, State, Zip	
Phone:	
Email:	Natalie Gladden
Report due by:	

Bill To

Attention:	ESS
Address:	7 W Compress Rd
City, State, Zip	Artesia, NM
Phone:	
Email:	Natalie Gladden

Lab Use Only

Lab WO# E105005 | Job Number 2004000001

TAT: 1D | 2D | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM | CO | UT | AZ | TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX			Remarks
10:10	5-3-21	S	1	SAMPLE POINT 3 - 7'	1									X				
11:20	5-3-21	S	1	" " 4 - 4'	2									X				
1:00	5-3-21	S	1	BACKGROUND SURF	3									X				

Analysis and Method

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: MARC RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	5-3-2021	3:30		5.3.21	1530
	5.3.21	1900		5/4/21	13:46

Lab Use Only

Received on ice: Y / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 5/4/2021 2:01:09PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Spur	Date Received:	05/04/21 13:46	Work Order ID:	E105005
Phone:	(575) 390-6397	Date Logged In:	05/04/21 13:50	Logged In By:	Alexa Michaels
Email:	ngladden@energystaffingllc.com	Due Date:	05/10/21 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Lynn Estes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filteration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

SPUR ENERGY PARTNERS

REMEDIATION PHOTOS AND FINAL PHOTOS

DOR: 02/19/2021 AND 04/24/21


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ft
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°,T
±15 SW233
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Hobbs, NM 88240, United States 20-Apr-21 13:12:42


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Hobbs, NM 88240, United States 22-Apr-21 14:08:00


Jc federal
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Jc federal
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Jc federal
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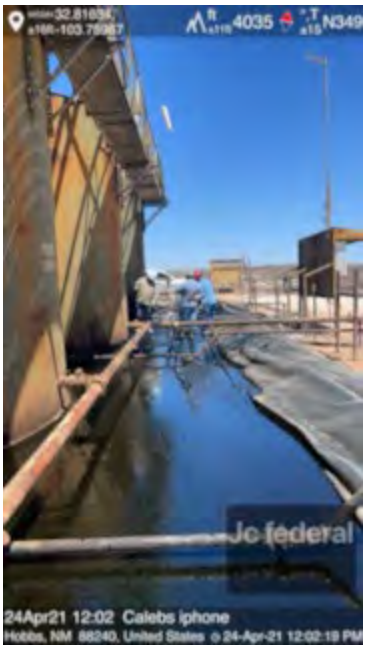
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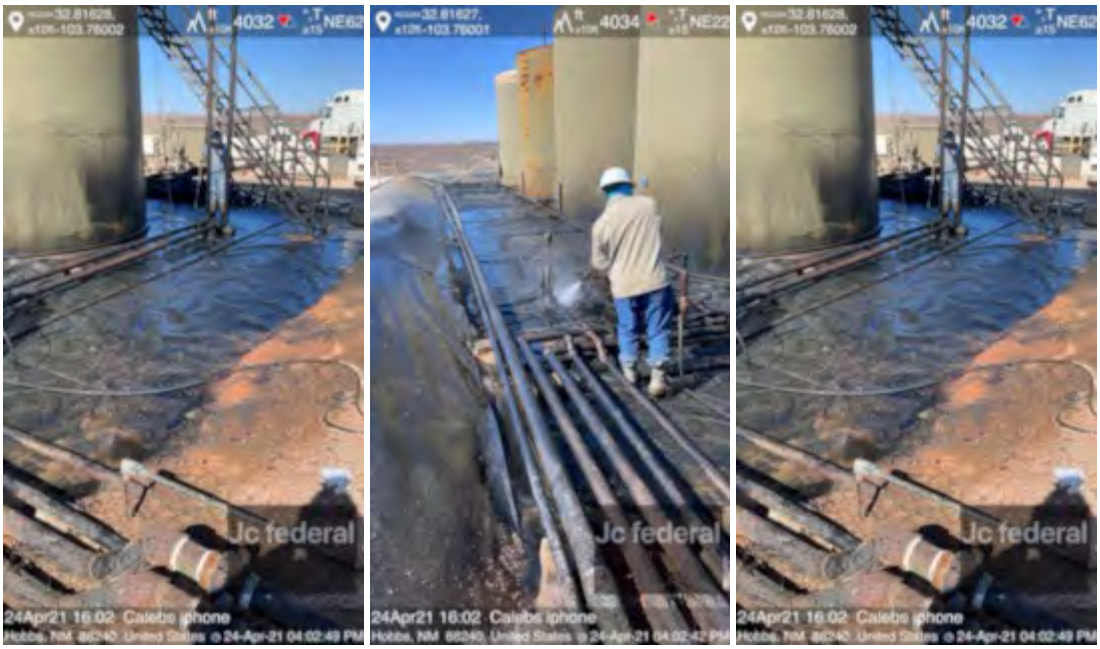
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Jc federal
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Jc federal
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Jc federal
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Jc federal
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Jc federal
25Apr21 08:29 Calebs iphone


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Hobbs, NM 88240, United States 26-Apr-21 14:01:19


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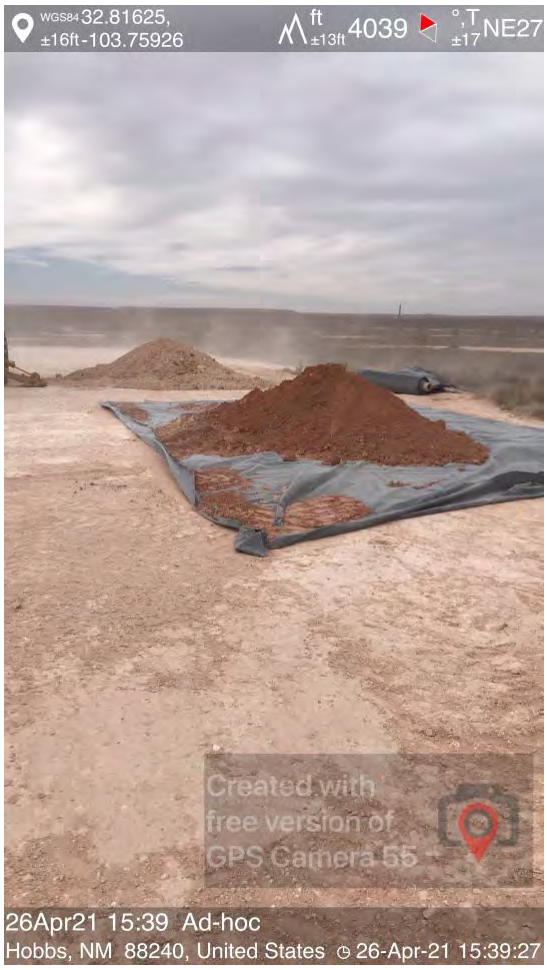
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Hobbs, NM 88240, United States 03-May-21 19:09:57


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°,T
±15 E78
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free version of
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32.82113, -103.95692 Spur Energy 03-May-21 18:34:21 Hobbs, NM 88240, United States
Hobbs, NM 88240, United States 03-May-21 18:34:21

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2111658280
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

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State of New Mexico
Oil Conservation Division

Incident ID	NAPP2111658280
District RP	
Facility ID	
Application ID	

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

Printed Name: Natalie Gladden Title: Director of Environmental and Regulatory

Signature: Natalie Gladden Date: 7/27/22

email: natalie@energystaffingllc.com Telephone: 5753906397

OCD Only

Received by: Jocelyn Harimon Date: 11/15/2022

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State of New Mexico
Oil Conservation Division

Incident ID	NAPP2111658280
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Natalie Gladden Title: Director of Environmental and Regulatory

Signature: Natalie Gladden Date: 7/27/22

email: natalie@energystaffingllc.com Telephone: 575-390-6397

OCD Only

Received by: Jocelyn Harimon Date: 11/15/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 189233

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 189233
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A.	3/2/2023