

Puckett 13 Federal #008H Closure Report

API No. 30-015-39658 2RP-5683 Release Date: 09/03/2019

U/L P, Section 12, Township 17S, Range 31E Eddy County, New Mexico

> 06/05/2020 Prepared by:



7 W Compress Road Artesia, NM 88210 575-746-9547



May 05, 2020

New Mexico Energy, Minerals & Natural Resources NMOCD District II C/O Mike Bratcher, Robert Hamlet & Victoria Venegas 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 C/O Braidy Moulder 920 Memorial City Way, Suite 1000 Houston, TX 77024

SUBJECT:

Closure Report for Spur Energy Partners - Puckett 13 Federal #008H

API No. 30-015-39658

2RP-5683

U/L P, Section 12, Township 17S, Range 31E

Eddy County

To Whom It May Concern,

On behalf of Spur Energy Partners, Energy Staffing & Services (ESS) has prepared this CLOSURE REPORT that describes the assessment, delineation and remediation for the release associated with the Puckett 13 Federal #008H, dated September 3rd, 2019, with RP# 2RP-5683, with the Incident Number of NAB1930148648.

BACKGROUND

This site is located in Eddy County, New Mexico. The release was discovered on September 3rd, 2019. The release was caused by a corroded nipple on the transfer pump. The nipple has been replaced. Approximately 8bbls of produced water was released into the lined facility with overspray occurring in the pasture. A vacuum truck was dispatched to the site and approximately 7bbls of fluid was recovered, transported to an approved disposal facility. The area of impact

was approximately 424 sq. ft. in the overspray area outside the lined containment in the pasture.

GROUNDWATER RESEARCH

ESS has conducted a groundwater study of this area. It has been determined that according to the New Mexico Office of the State Engineer, the closest well to the site is 5,275' with no water depth. The closest three wells are listed below:

RA 12042 POD 1 is 5275' from the site with no water depth L 14207 POD 3 is 5284' from the site with 96'DGW RA 10175 is 5329' from the site with no water depth RA 10252 POD 1 is 5351' from the site with no water depth RA 12020 POD 1 is 5372' from the site with 81'DGW

With the data collected during the groundwater research protocol, there is verifiable record of groundwater in the vicinity of the site detailed herein. There is no eminent danger of groundwater impact found at this site.

The Closure Criteria for Soils Impacted by a Release is shown below, based on groundwater of 96'bgs falls into the 50-100' depth category. Please see the groundwater data and map attached.

DGW	Constituent	Method	Limit
51'-100'	Chloride	EPA 300.0 OR SM4500 CLB	10,000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 METHOD 8015M	2,500 mg/kg
	GRO + DRO	EPA SW-846 METHOD 8015M	1,000 mg/kg
	ВТЕХ	EPA SW-846 METHOD 8021B OR 8260B	50 mg/kg
	Benzene	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg

KARST RESEARCH

The Karst Mapping Data found for this site indicates that the site is located inside the low marked area in green. Please see the attached Karst Map. With the low karst determination, the Closure Criteria will be based on depth of groundwater which is listed in the above Closure Criteria for Soils Impacted by a Release.

DELINEATION AND REMEDIATION

On or about March 23rd, 2020, Hungry Horse, LLC dispatched a crew to the location to begin work. The site had been previously assessed, mapped, photographed and the pasture area was flagged and One-Called. The lined containment had to be hand excavated to remove the pea gravel that was placed on top of the liner. All of the impacted material that was removed from

the lined containment was stockpiled on plastic outside the containment and hauled to Lea Land for Disposal. The lined containment was then power-washed to remove all soil and any other materials. Witness of the liner inspection was submitted to the NMOCD. The liner was then inspected with no noted signs of tears or perforations. 3/8" pea gravel was hauled in and spread in the lined facility by hand shoveling.

On March 25, 2020, Hungry Horse, LLC began delineating the pasture area both vertically and horizontally. The site was sampled in 1' intervals by use of hand auger. Two (2) vertical sample points were set. The samples were tested in the field using the titration method as recommended by NMOCD. A PID Meter was also used to test for concentrations of TPH/BTEX. In the table below, you will find the surface samples as titrated in the field:

Ver Sam		
ID	Depth	Tit/Chl
SP 1	SURF	480
SP 2	SURF	160

Following the testing of surface samples, the site was fully delineated vertically to ascertain the depth of the impacted soil. Each sample was titrated in the field then jarred and sent to Envirotech Laboratory for confirmation. Below you will find the verified samples with the confirmed bottom hole samples by Envirotech Laboratories.

SP				L-					
ID	Depth	Titr	PID	BTEX	L-DRO	L-ORO	L-GRO	L-TPH	L-CHL
SP 1	SURF	480	TPH						
	1'	440	TPH						
	2'	400	ND						
	3'	400	ND						
	4'	320	ND	ND	ND	ND	ND	ND	ND
SP 2	SURF	160	TPH						
	1'	320	TPH						
	2'	240	ND						
	3'	320	ND						
	4'	320	ND	ND	ND	ND	ND	ND	ND

As evidenced by the table above, the attached sample data and the lab analytical results, the confirmed samples were well within the proscribed limits set forth in the Closure Criteria for Soil Impacted by a Release in the 50-100' range.

Following vertical delineation, the site was fully delineated horizontally to ascertain the outside edges of the impacted soil. Four (4) sidewalls were sampled using 1' increments. Each sample was titrated in the field, then jarred and sent to Envirotech Laboratory for confirmation. Below you will find the verified samples as confirmed by Envirotech.

As shown on the above table of horizontally delineated sidewalls, all of the confirmed samples were well within the proscribed limits set forth in the in the Closure Criteria for Soils Impacted by a Release in the 50-100' range.

SP ID	Depth	Titr	PID	L-BTEX	L-DRO	L-ORO	L-GRO	L-TPH	L-CHL
SW 1	SURF	560	ND						
	1'	240	ND						
	2'	240	ND	ND	ND	ND	ND	ND	ND
SW 2	SURF	240	ND						
	1'	160	ND						
	2'	160	ND	ND	ND	ND	ND	ND	ND
SW 3	SURF	400	ND						
	1'	240	ND						
	2'	240	ND	ND	ND	ND	ND	ND	ND
SW 4	SURF	440	ND						
	1'	400	ND						
	2'	320	ND	ND	ND	ND	ND	ND	ND

Upon receipt of the vertical and sidewall verified samples there was no cause to perform closure samples due to all samples coming back as ND or not detectible. The pasture area was excavated to 4'bgs. The impacted soil was hauled to Lea Landfill and clean soil was backhauled for backfill. The area was backfilled, leveled and contoured back to its natural state. This will prevent non-native plants and noxious weeds from invading the area. The area was then seeded with BLM #3 seed.

SCOPE OF SERVICES AND LIMITATIONS

The scope of services consisted of review of Hungry Horse site assessment, delineation and remediation as well as regulatory liaison and preparation of this Closure Report by ESS. All work has been performed in accordance with NMOCD Rules and Regulations for Spills and Releases dated August 14th, 2018 (19.15.29 NMAC).

On behalf of Spur Energy Partners and Energy Staffing & Services, we respectfully request closure on the release associated with the Puckett 13 Federal #008H. If you have questions or concerns, please address them to me, Natalie Gladden, Director of Environmental and Regulatory Services for Energy Staffing & Services. I can be contacted either via cell phone at (575) 390-6397 or via email at natalie@energystaffingllc.com.

Sincerely,

Natalie Gladden

Director of Environmental & Regulatory Services

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Energy Staffing & Services

7 W Compress Road

Artesia, NM 88210

ATTACHMENTS

C-141

Groundwater Data

Groundwater Map

Karst Map

Site Map

Sample Data

Sample Map

Laboratory Analytical Results

Photo Pages

Final C141



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	
District RP	2RP-5683
Facility ID	
Application ID	pAB1930148364

18DW3-190912-C-1410 **Release Notification**

Responsible Party

Responsible	Party			OGRID	OGRID						
Contact Nam	ne			Contact T	Contact Telephone						
Contact emai	il			Incident #	Incident # (assigned by OCD)						
Contact mail	ing address			<u> </u>							
			Location	of Release S	Source						
Latitude				Longitude							
(NAD 83 in decimal degrees to 5 decimal places)											
Site Name				Site Type							
Date Release	Discovered			API# (if ap	pplicable)						
Unit Letter	Section	Township	Range	Cou	nty	_					
Surface Owner	r: State	☐ Federal ☐ Tr	ribal Drivata ()	Nama		,					
Surface Owner	i. State	redelal 11	ibai 🔲 Fiivate (1	vame)					
			Nature and	d Volume of	Release						
	Materia	l(s) Released (Select al	ll that annly and attach	calculations or specifi	e justification for th	ne volumes provided below)					
Crude Oil		Volume Release		curculations of specifi	lations or specific justification for the volumes provided below) Volume Recovered (bbls)						
Produced	Water	Volume Release	ed (bbls)		Volume Recovered (bbls)						
			tion of dissolved c	hloride in the	Yes 1	No					
	4.	produced water			W. L. D.	1(11)					
Condensa		Volume Release				overed (bbls)					
Natural G		Volume Release				overed (Mcf)					
Other (de	scribe)	Volume/Weight	Released (provide	e units)	Volume/We	ight Recovered (provide units)					
- an I											
Cause of Rele	ease										

Pagi	a Q	af	5
r ug	6 0	UJ	J

Incident ID	
District RP	2RP-5683
Facility ID	
Application ID	nAB1930148364

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the respon	sible party consider this a major release?							
If VFS, was immediate n	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?							
II 1E3, was illinediate in	once given to the OCD. By whom: To wi	oni: when and by what means (phone, email, etc):							
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 rele	ease 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.									
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.							
regulations all operators are public health or the environr failed to adequately investig	required to report and/or file certain release notinent. The acceptance of a C-141 report by the Cate and remediate contamination that pose a thre	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws							
Printed Name:		Title:							
Signature:	Opeant	Date:							
		Telephone:							
OCD Only									
Received by: Amalia	Bustamante	Date: 10/28/2019							



Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 595210.9 **Northing (Y):** 3633965.3 **Radius:** 1000

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/17/20 11:19 AM WELLS WITH WELL LOG INFORMATION



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 POD Number Subbasin County Source 6416 4 Sec Tws Rng RA 11914 POD1 RA Shallow 2 4 2 20 17S 30E 594801 3632002

Distance Start Date 2005 03/19/2013

Finish Date Date 03/19/2013 04/09/2013

Log File

Depth Depth Well Water Driller 80 JOHN NORRIS

Number 1682

License

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 595210.9

any particular purpose of the data.

Northing (Y): 3633965.3

Radius: 5000

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for

WELLS WITH WELL LOG INFORMATION 6/17/20 11:20 AM



Wells with Well Log Information

(A CLW#### in the POD suffix indicates the POD has been replaced

(R=POD has been replaced, O=orphaned,

& no longer serves a water right	C=the fi	île is	(quar	ters are 1=				(NAD8	3 UTM in meters))			(in fe	et)	
C C		POD			qqq							Log File	Depth		License
POD Number RA 12042 POD1	Code	Subbasin RA	County	Source			Tws Rng 17S 32E	X 614891	Y 3631181	Distance Start Date 5275 11/13/2013	Finish Date 11/22/2013		Well 400	Water Driller CRASS, DARRELL (LD)	Number 1261
L 14207 POD3		L	LE	Shallow			16S 37E	606117	3636977	5284 10/03/2016		12/12/2016	240	96 WHITE, JOHN W	1456
RA 10175		RA	LE	Shallow	2 1	28	17S 32E	614814	3631005*	5329 02/04/2002	02/04/2002	03/06/2002	158	EADES, ALAN	1044
RA 12522 POD1		RA	LE	Shallow	3 3 4	21	17S 32E	614941	3631122	5351 07/25/2017	07/26/2017	08/22/2017	100	WHITE, JOHN W	1456
RA 12020 POD1		RA	LE	Shallow	2 2 1	28	17S 32E	614828	3630954	5372 09/24/2013	09/25/2013	10/07/2013	120	81 WHITE, JOHN (LD)	1456
RA 12522 POD2		RA	LE	Shallow	2 2 1	28	17S 32E	614949	3631098	5372 07/24/2017	07/26/2017	08/22/2017	100	WHITE, JOHN W	1456
RA 12522 POD3		RA	LE	Shallow	4 4 3	28	17S 32E	614980	3631093	5400 07/20/2017	07/26/2017	08/22/2017	100	WHITE, JOHN W	1456
RA 12521 POD1		RA	LE	Shallow	3 3 4	21	17S 32E	615127	3631271	5407 07/21/2017	07/26/2017	08/22/2017	105	92 WHITE, JOHN W	1456
RA 08855		RA	LE		4 1 1	10	17S 32E	616061	3635742*	5433 07/28/1994	08/04/1994	08/10/1994	158	J & K DRILLING	1235
RA 12020 POD3		RA	LE	Shallow	2 1 2	28	17S 32E	615152	3631019	5580 07/13/2015	07/15/2015	08/10/2015	112	83 WHITE, JOHN W	1456
RA 12721 POD1		RA	LE		3 2 3	28	17S 32E	614645	3630141	5814 04/18/2019	04/19/2019	05/15/2019	125	JOHN W WHITE	1456
<u>L 13050 POD1</u>		L	LE	Shallow	2 2 1	10	17S 32E	616463	3635945*	5872 12/23/1961	01/01/1962	01/18/1962	156	132 ALDREDGE, C.O.	79
RA 12721 POD2		RA	LE	Shallow	1 1 4	28	17S 32E	615055	3630407	5909 04/18/2019	04/19/2019	05/15/2019	124	75 JOHN W WHITE	1456
RA 12436 POD1		RA	LE	Shallow	2 2 1	10	17S 32E	616556	3635929	5959 01/04/2017	01/09/2017	01/13/2017	160	125 TAYLOR, ROY A.	1626
<u>L 04021 POD3</u>		L	LE	Shallow	3 4	03	17S 32E	616761	3636252*	6242 07/28/1999	07/28/1999	08/30/1999	247	ALAN EADES	1044
RA 12721 POD3		RA	LE	Shallow	2 3 4	28	17S 32E	615417	3629979	6466 04/18/2019	04/19/2019	05/15/2019	115	JOHN W WHITE	1456
RA 12721 POD4		RA	LE		1 1 2	33	17S 32E	615055	3629589	6499 04/18/2019	04/19/2019	05/15/2019	140	JOHN W WHITE	1456
RA 12721 POD5		RA	LE	Shallow	2 4 4	28	17S 32E	615650	3629961	6647 04/27/2020	04/28/2020	05/18/2020	130	124 WHITE, JOHNNOWN.GENER	1456
<u>L 04021 S</u>		L	LE	Shallow	2 4 4	03	17S 32E	617262	3636354*	6751 01/21/2002	01/24/2002	02/05/2002	260	ALAN EADES	1044
RA 12721 POD7		RA	LE		1 3 2	33	17S 32E	615064	3629198	6804 04/28/2020	04/28/2020	05/18/2020	130	WHITE, JOHNNOWN.GENER	1456
RA 12721 POD6		RA	LE		1 2 2	33	17S 32E	615530	3629431	6936 04/28/2020	04/28/2020	05/18/2020	130	WHITE, JOHNNOWN.GENER	1456
<u>L 13047 POD1</u>		L	LE			11	17S 32E	618187	3635254*	7451	09/10/1947	01/13/1959	140	BURKE	
<u>L 03852 X</u>	R	L	LE	Shallow	4 4 4	13	16S 31E	610749	3642526*	8044 06/21/1963	07/02/1963	07/08/1963	333	299 F.M. OSBOURN	353
<u>L 06557</u>		L	LE	Shallow	1 4	21	16S 32E	615089	3641466*	8209 07/01/1969	07/03/1969	07/09/1969	295	210 MURRELL ABBOTT	46
<u>L 03980 S</u>		L	LE	Shallow	4 4 4	02	17S 32E	618870	3636170*	8268 09/21/1962	10/12/1962	11/07/1962	255	179	79
<u>CP 00566 POD1</u>		CP	LE	Shallow	4 4 1	04	18S 32E	614960	3627280*	8329 06/01/1977	06/03/1977	06/13/1977	133	65 ABBOTT, MURRELL	46
RA 11590 POD3		RA	ED		3 1 2	32	17S 31E	603932	3629260	8607 01/22/2010	01/22/2010	04/23/2010	60		225

Received by OCD: 6/17/2020	1:31:	39 PM	LE	Shallow	1 3 26	16S 32E	617521	3639880*	8639 03/22/1955	03/23/1955	03/24/1955	324	280 MURRELL ABBOTT	Page 12 of 51
RA 11911 POD1		RA	LE	Shallow	1 3 1 24	17S 32E	619192	3632296	8695 06/11/2013	06/11/2013	06/21/2013	35	NORRIS, JOHN D. (LD)	1682
<u>L 03587</u>		L	LE	Shallow	1 2 4 35	16S 32E	618647	3638383*	8785 06/08/1959	06/22/1959	07/09/1959	282	210 ALDREDGE, C.O.	79
<u>L 03587 S</u>		L	LE	Shallow	3 4 2 35	16S 32E	618642	3638586*	8873 01/02/1962	01/28/1962	02/12/1962	269	215 ALDREDGE, C.O.	79
<u>L 04737 POD3</u>		L	LE	Shallow	3 3 36	16S 32E	619048	3637777	8904 01/17/2014	01/20/2014	03/20/2014	304	214 BILL W. WHALEY	1472
<u>L 03980 S2</u>		L	LE	Shallow	3 2 3 01	17S 32E	619470	3636581*	8944 02/18/1960	03/03/1960	03/25/1960	225	175	79
<u>L 06400</u>		L	LE	Shallow	1 3 3 36	16S 32E	619054	3637985*	8989 12/10/1968	12/13/1968	03/05/1969	330	BOB CRANE	
L 03852 POD5	R	L	LE	Shallow	2 3 2 13	16S 31E	610387	3643470	8996 11/22/1964	12/13/1964	12/17/1964	328	295 F.M. OSBOURN	353
RA 11590 POD4		RA	ED		4 1 1 32	17S 31E	603308	3629253	9115 01/21/2010	01/22/2010	04/23/2010	55		225
<u>L 03587 S2</u>		L	LE	Shallow	2 2 35	16S 32E	618738	3639089*	9199 08/17/1966	08/18/1966	09/01/1966	299	192 ABBOTT, FLOYD	46
<u>L 03852 X2</u>		L	LE	Shallow	3 2 2 13	16S 31E	610535	3643733*	9254 12/01/1961	01/31/1962	01/02/1963	330	287 CLYDE J. TIDWELL	320
<u>L 08084 POD6</u>		L	LE	Shallow			618663	3639335	9261 12/08/2015	01/22/2016	01/22/2016	295	235 CALEB CURRY	1632
L 08084 POD5		L	LE	Shallow	4 1 4 26	16S 32E	618425	3639788*	9309 08/20/1984	08/25/1984	08/28/1984	296	165 ABBOTT, MURRELL	46
L 03587 S4		L	LE	Shallow	1 4 4 26	16S 32E	618632	3639590*	9371 11/02/1977	11/08/1977	11/10/1977	289	220 ABBOTT, FLOYD	46
L 08084 POD7		L	LE	Shallow			618393	3640052	9436 12/21/2015	01/22/2016	01/22/2016	295	230 CALEB CURRY	1632
<u>RA 11590 POD1</u>		RA	ED		2 1 3 32	17S 31E	603315	3628545	9533 01/20/2010	01/26/2010	04/23/2010	158		225
<u>L 03852</u>	R	L	LE	Shallow	2 2 2 14	16S 31E	609126	3643913*	9574 05/22/1963	06/05/1963	06/11/1963	370	314 FLOYD M. OSBOURN	353
<u>CP 00672</u>		CP	LE	Shallow	4 4 07	18S 32E	612475	3624947*	9685 07/17/1992	08/07/1992	08/12/1992	524	430 ABBOTT, MURRELL	46
<u>CP 00672 CLW475398</u>	О	CP	LE	Shallow	4 4 07	18S 32E	612475	3624947*	9685 01/22/1985	01/29/1985	02/08/1985	540	460 FELKINS, LARRY	882
L 08084 POD4		L	LE	Shallow	2 26	16S 32E	618522	3640492*	9804 08/05/1991	08/20/1991	08/22/1991	303	233 ABBOTT, MURRELL	46
L 08084 S3		L	LE	Shallow	2 26	16S 32E	618522	3640492*	9804 10/20/2001	10/30/2001	11/29/2001	305	205 KIDD, GARY	854
<u>L 05494</u>		L	LE	Shallow	36	16S 32E	619758	3638489*	9836 05/01/1965	05/06/1965	05/19/1965	303	200 EDWARD B. BURKE	111

Record Count: 49

UTMNAD83 Radius Search (in meters):

Easting (X): 610775.25 **Northing (Y):** 3634481.7 **Radius:** 10000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/17/20 9:50 AM WELLS WITH WELL LOG INFORMATION



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 12042 POD1

614891 3631181



Driller License: 1261

Driller Company: DARRELL CRASS DRILLING CO., INC

Driller Name: CRASS, DARRELL (LD)

Drill Start Date: 11/13/2013

Drill Finish Date:

11/22/2013

Plug Date:

Log File Date:

12/12/2013

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

10.00

Depth Well:

400 feet

Depth Water:

Water Bearing Stratifications:

Top Bottom Description

10 30 Sandstone/Gravel/Conglomerate



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

L 14207 POD3

2 3 3 31 16S 37E

606117 3636977

ð

Driller License: 1456

Driller Company: WHITE DRILLING COMPANY

Driller Name:

WHITE, JOHN W

12/12/2016

Drill Start Date: 10/03/2016

Drill Finish Date: PCW Rcv Date:

10/12/2016

Plug Date:

Source:

Shallow

Log File Date: Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 4.00

Depth Well: 240 feet

Depth Water:

96 feet

Water Bearing Stratifications:	Тор	Bottom	Description
	75	140	Sandstone/Gravel/Conglomerate
	140	200	Sandstone/Gravel/Conglomerate
	200	205	Sandstone/Gravel/Conglomerate
	205	218	Sandstone/Gravel/Conglomerate
	218	236	Sandstone/Gravel/Conglomerate
	236	237	Sandstone/Gravel/Conglomerate
	237	240	Sandstone/Gravel/Conglomerate
Casing Borforations:	Ton	Rottom	

Casing Perforations:

Top Bottom

90 220



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

RA 10175

28 17S 32E

614814 3631005*



Driller License:

1044

Driller Company: EADES WELL DRILLING & PUMP SERVICE

Driller Name:

EADES, ALAN

Drill Start Date: 02/04/2002

Drill Finish Date:

02/04/2002

Plug Date: Source:

Shallow

Log File Date:

03/06/2002

PCW Rcv Date: Pipe Discharge Size:

Estimated Yield:

Pump Type: Casing Size:

5.75 **Depth Well:**

158 feet

Depth Water:

Water Bearing Stratifications:

Top Bottom Description

87 89 Shallow Alluvium/Basin Fill 89 Shallow Alluvium/Basin Fill

116 124 Shallow Alluvium/Basin Fill

Casing Perforations:

Top Bottom

158 118

Meter Number:

5380

Meter Make:

SENSUS

Meter Serial Number: 560656282

Meter Multiplier:

10.0000

Number of Dials:

6

Meter Type:

Diversion

Unit of Measure:

Gallons

170 A

Return Flow Percent:

Usage Multiplier: Reading Frequency: Annual

Meter Readings (in Acre-Feet)

Read Date Year Mtr Reading Flag **Rdr Comment** 03/20/2002 2002 Α **RPT** 0 05/06/2002 2002

RPT

PRT

ch

02/13/2003 2002 2410 A 02/01/2005 2004 3420 A Mtr Amount

0 0.005

0.069 0.031

**YTD Meter Amounts: Year

Amount

2002 0.074

2004

0.031

*UTM location was derived from PLSS - see Help

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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

RA 12522 POD1

X

21 17S 32E

614941 3631122

Driller License: 1456

4.00

Driller Company: WHITE DRILLING COMPANY

Driller Name:

WHITE, JOHN W

Drill Start Date: 07/25/2017

Drill Finish Date:

07/26/2017

Plug Date:

Shallow

Log File Date:

08/22/2017 **PCW Rcv Date:** Source:

Estimated Yield:

Pump Type: Casing Size: Pipe Discharge Size:

Depth Well:

100 feet

Depth Water:

Water Bearing Stratifications:

Top Bottom Description

78 86

86 Sandstone/Gravel/Conglomerate Sandstone/Gravel/Conglomerate

97

Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

70

100



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

RA 12020 POD1

X

28 17S 32E

614828 3630954

Driller License: 1456 Driller Company: WHITE DRILLING COMPANY

Driller Name: WHITE, JOHN (LD)

10/07/2013

Drill Start Date: 09/24/2013

Drill Finish Date: PCW Rcv Date:

09/25/2013

Plug Date:

Source: Shallow

Log File Date: **Pump Type:**

Pipe Discharge Size:

Estimated Yield:

Casing Size: Depth Well: 2.00

120 feet

Depth Water: 81 feet

Water Bearing Stratifications:

Top Bottom Description

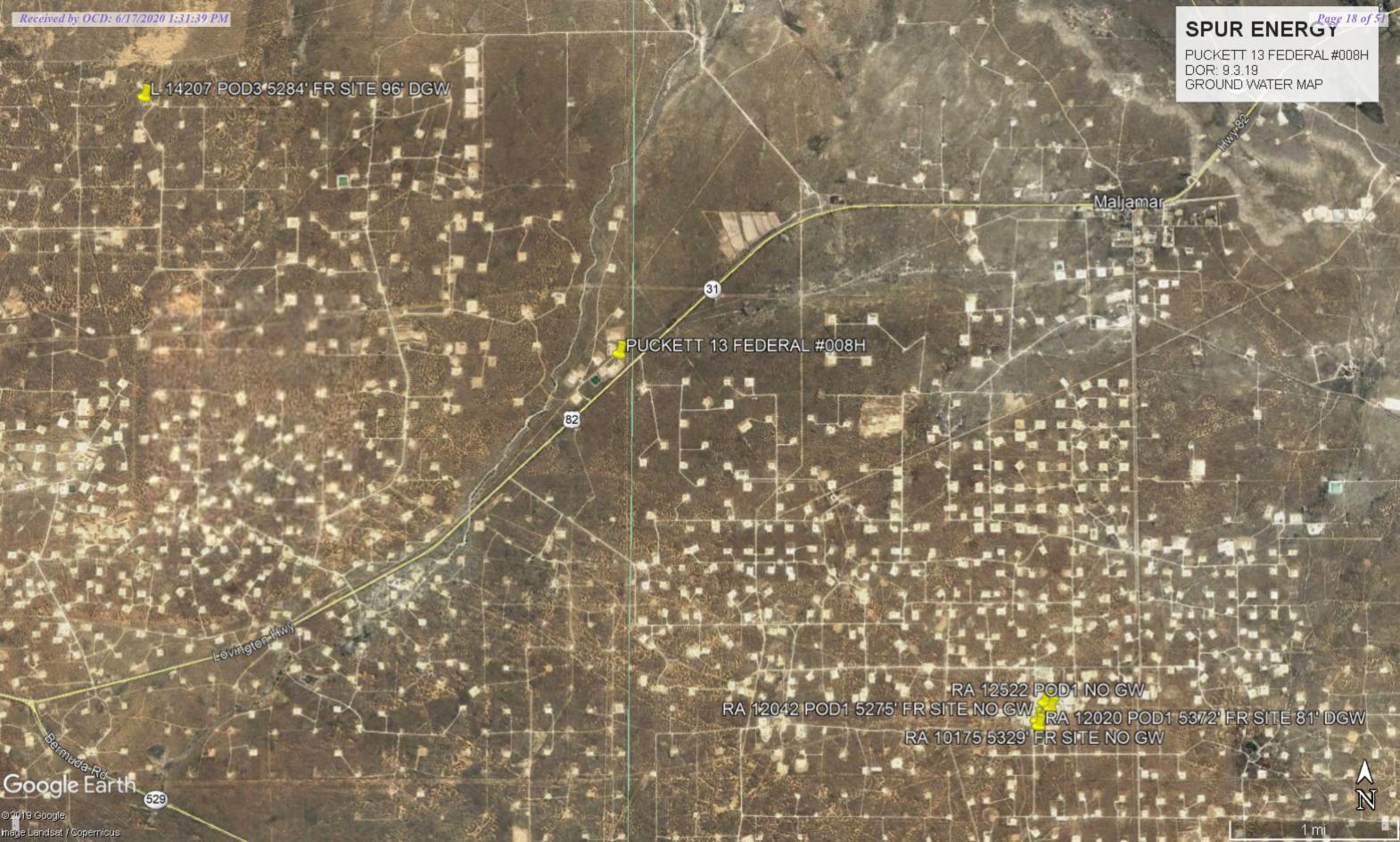
70 111 Sandstone/Gravel/Conglomerate

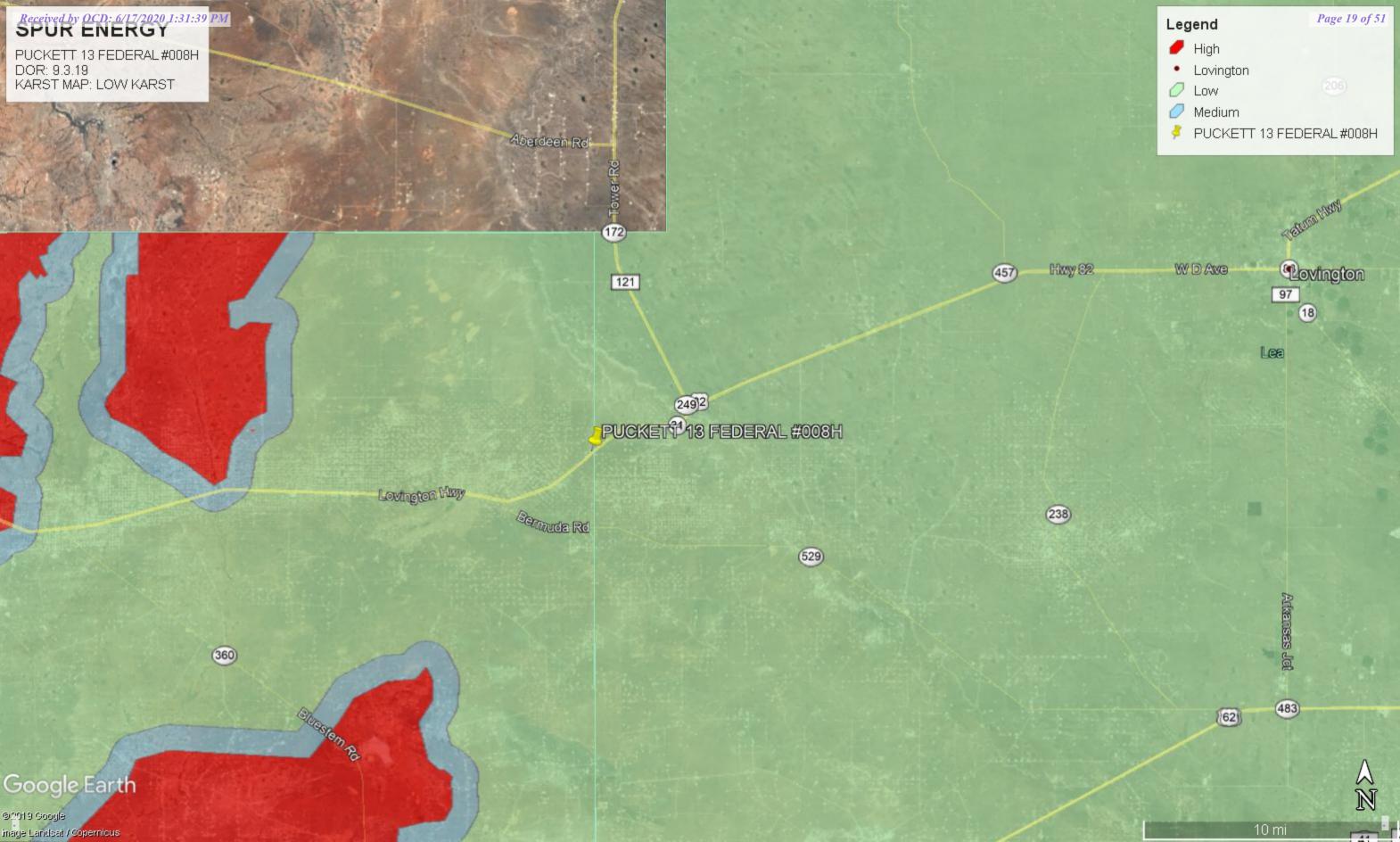
111 Shale/Mudstone/Siltstone 120

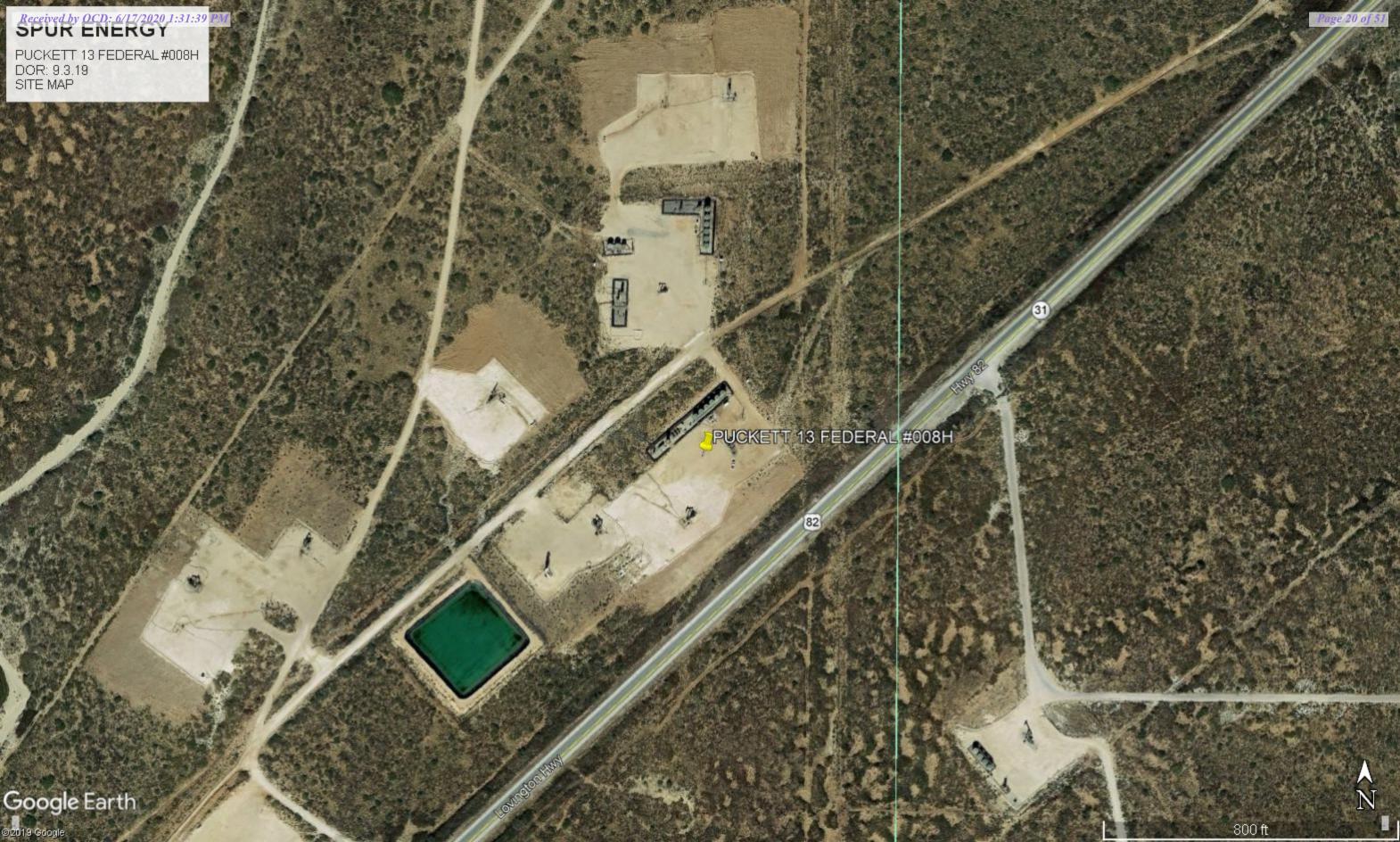
Casing Perforations:

Top Bottom

75 110







Company Name: SPUR LOCATION NAME: PUCKETT 13 FED #08 BTY Release Date: 6/8/2018

SP ID	Depth	Titr	PID	L-BTEX	L-DRO	L-ORO	L-GRO	L-TPH	L-CHL	Soil	Notes
SP 1	SURF	480	TPH								
	1'	440	TPH								
	2'	400	ND								
	3'	400	ND								
	4'	320	ND	ND	ND	ND	ND	ND	ND		LAB
SP 2	SURF	160	ТРН								
	1'	320	TPH								
	2'	240	ND								
	3'	320	ND								
	4'	320	ND	ND	ND	ND	ND	ND	ND		LAB
SW 1	SURF	560									
	1'	240									
	2'	240	ND	ND	ND	ND	ND	ND	ND		LAB
SW 2	SURF	240									
	1'	160									
	2'	160	ND	ND	ND	ND	ND	ND	ND		LAB
SW 3	SURF	400	ND								
	1'	240	ND								
	2'	240	ND	ND	ND	ND	ND	ND	ND		LAB
SW 4	SURF	440	ND								
	1'	400									
	2'	320		ND	ND	ND	ND	ND	ND		LAB
<u> </u>	1	-		<u> </u>							





Analytical Report

Report Summary

Client: Spur

Samples Received: 3/27/2020 Job Number: 19054-0003 Work Order: P003124

Project Name/Location: Puckett 13 Fed

Report Reviewed By:	Waltet Hardenan	Date:	3/30/20	

Walter Hinchman, Laboratory Director



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SpurProject Name:Puckett 13 FedPO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Natalie Gladden03/30/20 12:36

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1-4'	P003124-01A	Soil	03/25/20	03/27/20	Glass Jar, 4 oz.
SP2-4'	P003124-02A	Soil	03/25/20	03/27/20	Glass Jar, 4 oz.
SW1-2'	P003124-03A	Soil	03/25/20	03/27/20	Glass Jar, 4 oz.
SW2-2'	P003124-04A	Soil	03/25/20	03/27/20	Glass Jar, 4 oz.
SW3-2'	P003124-05A	Soil	03/25/20	03/27/20	Glass Jar, 4 oz.
SW4-2'	P003124-06A	Soil	03/25/20	03/27/20	Glass Jar, 4 oz.

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Labadmin@envirotech-inc.com

envirotech-inc.com



PO Box 1058 Project Number: 19054-0003 Reported: 03/30/20 12:36 Hobbs NM, 88240 Project Manager: Natalie Gladden

SP1-4' P003124-01 (Solid)

		P0031	24-01 (50)	iia)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-	150	2013020	03/27/20	03/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2013004	03/27/20	03/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2013004	03/27/20	03/27/20	EPA 8015D	
Surrogate: n-Nonane		93.9 %	50	200	2013004	03/27/20	03/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.1 %	50-	150	2013020	03/27/20	03/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2013018	03/27/20	03/27/20	EPA 300.0/9056A	

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PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Natalie Gladden03/30/20 12:36

SP2-4' P003124-02 (Solid)

		Reporting	24 02 (50	<i>y</i>					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-	150	2013020	03/27/20	03/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OF	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2013004	03/27/20	03/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2013004	03/27/20	03/27/20	EPA 8015D	
Surrogate: n-Nonane		96.8 %	50	200	2013004	03/27/20	03/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	50-	150	2013020	03/27/20	03/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2013018	03/27/20	03/27/20	EPA 300.0/9056A	

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PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Natalie Gladden03/30/20 12:36

SW1-2' P003124-03 (Solid)

		1 0051	24-03 (30	maj					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		107 %	50	-150	2013020	03/27/20	03/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	aO .								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2013004	03/27/20	03/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2013004	03/27/20	03/27/20	EPA 8015D	
Surrogate: n-Nonane		93.4 %	50	-200	2013004	03/27/20	03/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.3 %	50-	-150	2013020	03/27/20	03/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2013018	03/27/20	03/27/20	EPA 300.0/9056A	

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PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Natalie Gladden03/30/20 12:36

SW2-2' P003124-04 (Solid)

			24-04 (Soli	d)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-1.	50	2013020	03/27/20	03/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	D/ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2013004	03/27/20	03/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2013004	03/27/20	03/27/20	EPA 8015D	
Surrogate: n-Nonane		94.2 %	50-2	00	2013004	03/27/20	03/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO)								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.2 %	50-1.	50	2013020	03/27/20	03/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2013018	03/27/20	03/27/20	EPA 300.0/9056A	

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PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Natalie Gladden03/30/20 12:36

SW3-2' P003124-05 (Solid)

		1 0051	24-03 (30)	iiu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %	50-	150	2013020	03/27/20	03/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OF	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2013004	03/27/20	03/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2013004	03/27/20	03/27/20	EPA 8015D	
Surrogate: n-Nonane		94.4 %	50-2	200	2013004	03/27/20	03/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.1 %	50	150	2013020	03/27/20	03/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2013018	03/27/20	03/27/20	EPA 300.0/9056A	

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envirotech Analytical Laboratory

Spur Project Name: Puckett 13 Fed

PO Box 1058 Project Number: 19054-0003 Reported: 03/30/20 12:36 Hobbs NM, 88240 Project Manager: Natalie Gladden

SW4-2' P003124-06 (Solid)

		F0031	24-00 (50)	iia)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-	150	2013020	03/27/20	03/27/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	aO .								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2013004	03/27/20	03/27/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2013004	03/27/20	03/27/20	EPA 8015D	
Surrogate: n-Nonane		111 %	50-	200	2013004	03/27/20	03/27/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2013020	03/27/20	03/27/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.5 %	50-	150	2013020	03/27/20	03/27/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2013018	03/27/20	03/27/20	EPA 300.0/9056A	

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PO Box 1058 Project Number: 19054-0003 Reported: Hobbs NM, 88240 Project Manager: Natalie Gladden 03/30/20 12:36

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2013020 - Purge and Trap EPA 5030A										
Blank (2013020-BLK1)				Prepared &	Analyzed:	03/27/20 1				
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.29		"	8.00		104	50-150			
LCS (2013020-BS1)				Prepared &	Analyzed:	03/27/20 1				
Benzene	4.98	0.0250	mg/kg	5.00		99.5	70-130			
Toluene	5.12	0.0250	"	5.00		102	70-130			
Ethylbenzene	5.07	0.0250	"	5.00		101	70-130			
p,m-Xylene	10.1	0.0500	"	10.0		101	70-130			
o-Xylene	5.04	0.0250	"	5.00		101	70-130			
Total Xylenes	15.1	0.0250	"	15.0		101	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.49		"	8.00		106	50-150			
Matrix Spike (2013020-MS1)	Sou	rce: P003122-	01	Prepared: (03/27/20 1 A	Analyzed: 0	3/27/20 2			
Benzene	4.72	0.0250	mg/kg	5.00	ND	94.4	54.3-133			
Toluene	4.88	0.0250	"	5.00	ND	97.6	61.4-130			
Ethylbenzene	4.81	0.0250	"	5.00	ND	96.2	61.4-133			
p,m-Xylene	9.54	0.0500	"	10.0	ND	95.4	63.3-131			
o-Xylene	4.74	0.0250	"	5.00	ND	94.8	63.3-131			
Total Xylenes	14.3	0.0250	"	15.0	ND	95.2	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.39		"	8.00		105	50-150			
Matrix Spike Dup (2013020-MSD1)	Sou	rce: P003122-	01	Prepared: ()3/27/20 1 A	Analyzed: (3/27/20 2			
Benzene	4.86	0.0250	mg/kg	5.00	ND	97.3	54.3-133	3.02	20	
Toluene	4.98	0.0250	"	5.00	ND	99.7	61.4-130	2.10	20	
Ethylbenzene	4.92	0.0250	"	5.00	ND	98.5	61.4-133	2.36	20	
p,m-Xylene	9.76	0.0500	"	10.0	ND	97.6	63.3-131	2.38	20	
o-Xylene	4.88	0.0250	"	5.00	ND	97.7	63.3-131	2.99	20	
Total Xylenes	14.6	0.0250	"	15.0	ND	97.7	0-200	2.58	200	
Surrogate: 4-Bromochlorobenzene-PID	8.37		"	8.00		105	50-150			

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PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Natalie Gladden03/30/20 12:36

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2013004 - DRO Extraction EPA 3570										
Blank (2013004-BLK1)				Prepared &	k Analyzed:	03/27/20 ()			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	53.5		"	50.0		107	50-200			
LCS (2013004-BS1)				Prepared &	k Analyzed:	03/27/20 ()			
Diesel Range Organics (C10-C28)	433	25.0	mg/kg	500		86.6	38-132			
Surrogate: n-Nonane	46.9		"	50.0		93.9	50-200			
Matrix Spike (2013004-MS1)	Sou	rce: P003122-	01	Prepared &	ն Analyzed:	03/27/20 ()			
Diesel Range Organics (C10-C28)	722	25.0	mg/kg	500	311	82.2	38-132			
Surrogate: n-Nonane	24.8		"	25.0		99.4	50-200			
Matrix Spike Dup (2013004-MSD1)	Sou	rce: P003122-	01	Prepared: (03/27/20 0 A	Analyzed: (03/27/20 1			
Diesel Range Organics (C10-C28)	719	25.0	mg/kg	500	311	81.5	38-132	0.471	20	
Surrogate: n-Nonane	25.1		"	25.0		101	50-200			

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RPD

Limit

20

Notes

%REC

Limits

70-130

50-150

RPD

2.33

Analyte

Gasoline Range Organics (C6-C10)

Surrogate: 1-Chloro-4-fluorobenzene-FID

Spur Project Name: Puckett 13 Fed

Result

49.3

7.09

PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Natalie Gladden03/30/20 12:36

Reporting

Limit

20.0

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Units

Spike

Level

50.0

8.00

Source

Result

ND

%REC

88.7

Blank (2013020-BLK1)				Prepared &	Analyzed:	03/27/20 1	1
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.12		"	8.00		89.0	50-150
LCS (2013020-BS2)				Prepared &	Analyzed:	03/27/20	1
Gasoline Range Organics (C6-C10)	46.3	20.0	mg/kg	50.0		92.5	70-130
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		"	8.00		89.1	50-150
Matrix Spike (2013020-MS2)	Source	e: P003122-	01	Prepared: 0	3/27/20 1 A	Analyzed: (03/27/20 2
Gasoline Range Organics (C6-C10)	50.5	20.0	mg/kg	50.0	ND	101	70-130
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		"	8.00		89.4	50-150
rogate: 1-Chloro-4-fluorobenzene-FID atrix Spike Dup (2013020-MSD2)		e: P003122-		8.00 Prepared: 0	2/27/20 1		

mg/kg

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PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Natalie Gladden03/30/20 12:36

Reporting

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Spike

Source

%REC

RPD

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2013018 - Anion Extraction EPA 30	0.0/9056A									
Blank (2013018-BLK1)		Prepared & Analyzed: 03/27/20 1								
Chloride	ND	20.0	mg/kg							
LCS (2013018-BS1)				Prepared & Analyzed: 03/27/20 1						
Chloride	249	20.0	mg/kg	250		99.4	90-110			
Matrix Spike (2013018-MS1)	Source	Source: P003124-01			Prepared & Analyzed: 03/27/20 1					
Chloride	251	20.0	mg/kg	250	ND	101	80-120			
Matrix Spike Dup (2013018-MSD1)	Source	Source: P003124-01			Prepared & Analyzed: 03/27/20 1					
Chloride	252	20.0	mg/kg	250	ND	101	80-120	0.314	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 my differ slightly.

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24 Hour Emergency Response Phone (800) 362-1879 Labadmin@envirotech-inc.com



PO Box 1058Project Number:19054-0003Reported:Hobbs NM, 88240Project Manager:Natalie Gladden03/30/20 12:36

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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						1 1 1 1	1 1 1 1	1 1	
Additional Instructions:				No.					
I, (field sampler), attest to the validity and author			ring with or intentionally mislabelling the samp	ole location, date or		Samples requiring thermal pr	reservation must be received or	n ice the day they are sampled or	
time of collection is considered fraud and may l	e grounds for legal action	n. Sampled by:				received packed in ice at an a	avg temp above 0 but less than	6 °C on subsequent days.	
Relinquished by: (Signature)	3/24/20	Time DSS	Received by: (Signature)	Date 3. 26.2	Time	Received on ice	Lab Use On	lý.	
Relinquished by (Signature)	3.26.2026	Time /305	Received by: (Signature)	Date 3/271	Time	T1	9		
Relinguished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C	<u>12</u> ∐	<u>18.55 T3.</u>	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other					Container Type: g = glass n = poly/plastic ag ambar glass VOA				
Note: Samples are discarded 30 days after	results are reported u	inless other arrange	ements are made. Hazardous samples wil	Il be returned to client	t or disposed of at	the client expense. The rep	ort for the analysis of th	ne above samples is applicable	

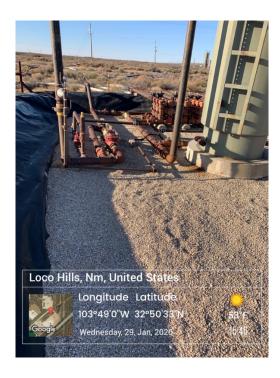


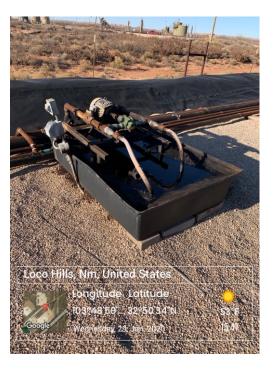
5795 US Highway 54, Farmington, NM 87401

Ph (505) 632-1881; Fx (505) 632-1865

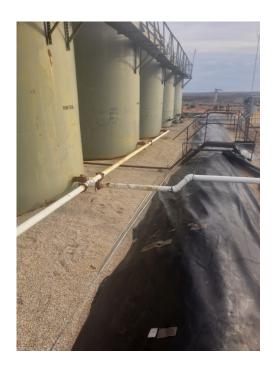
envirotech-inc.com labadmin@envirotech-inc.com 



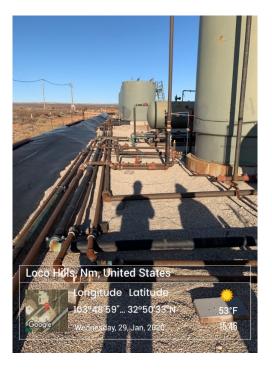


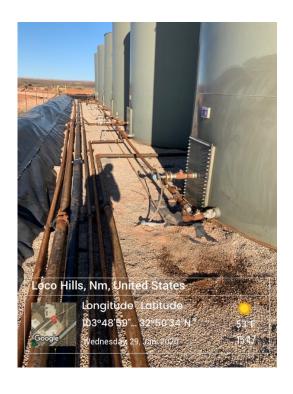


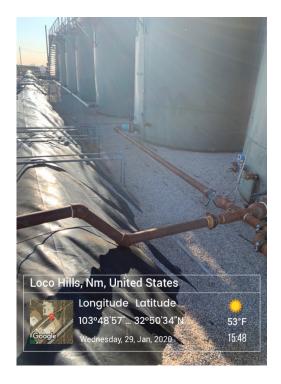


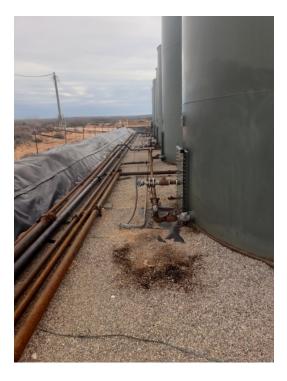




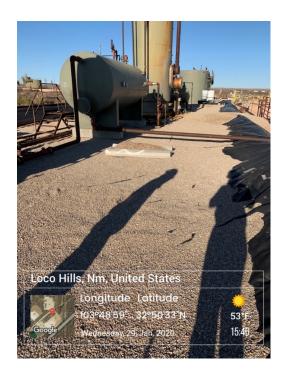


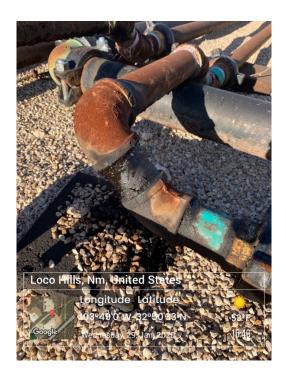


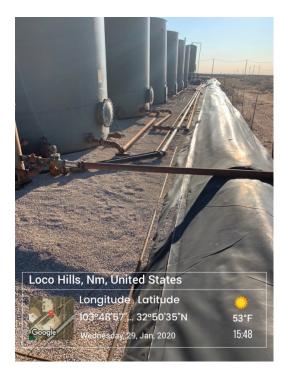
















SPUR ENERGY PUCKETT 13 FEDERAL #008H DURING PHOTOS









SPUR ENERGY PUCKETT 13 FEDERAL #008H DURING PHOTOS









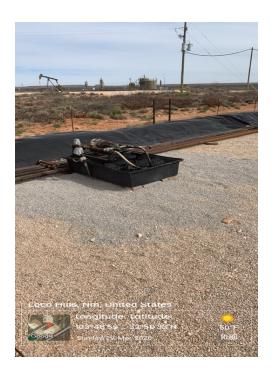
SPUR ENERGY PUCKETT 13 FEDERAL #008H DURING PHOTOS

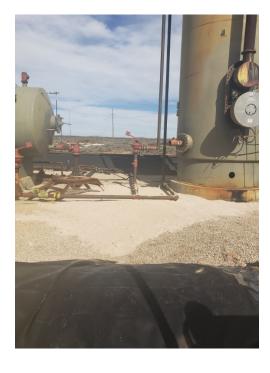


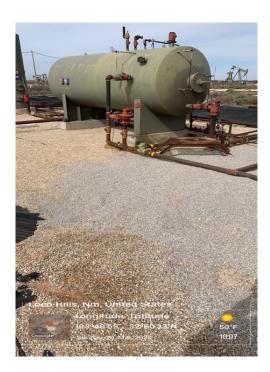


SPUR ENERGY PUCKETT 13 FEDREAL #008H FINAL PHOTOS





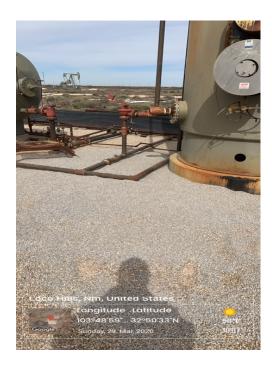


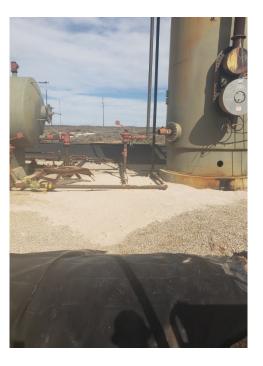


SPUR ENERGY PUCKETT 13 FEDREAL #008H FINAL PHOTOS

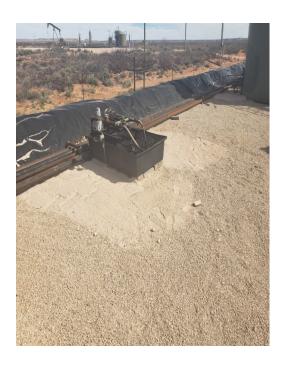








SPUR ENERGY PUCKETT 13 FEDREAL #008H FINAL PHOTOS



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Boring or excavation logs

Topographic/Aerial maps

Photographs including date and GIS information

☐ Laboratory data including chain of custody

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Incident ID	
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?	96' (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 		
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release		

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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Oil Conservation Division

Page 4

Page 49 of 51 Incident ID 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: Patric Galadden Date: 6/17/20		
email: natalie@energystaffing.com Telephone:575-390-6397		
OCD Only		
Received by: Date:		

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Incident ID

District RP

Facility ID

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Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.		
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 		
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.		
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.		
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health, the environment, or groundwater.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Natalie Gladden Title: Director of Environmental & Regulatory Signature:		
OCD Only		
Received by: Date:		
Approved		
Signature: Date:		

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Incident ID
District RP
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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: Date: Date			
OCD Only			
Received by: Da	te:		
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:		