

Soil Assessment and Remediation Work Plan

Shugart 25 Fed Com #001 Eddy County, NM API# 30-015-31454 *2RP-2474, *2RP-5454, *2RP-1031, *1RP-3245

Prepared For:

Devon Energy Corporation 6488 Seven Rivers Highway Artesia, NM 88210

Prepared By:

TALON/LPE 408 W. Texas Avenue Artesia, New Mexico 88210

March 25, 2020

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Mr. Jim Amos BLM Carlsbad Field Office 620 East Greene Street Carlsbad, NM 88220

Mr. Mike Bratcher **NMOCD District 2** 811 S. 1st Street Artesia, NM 88210

Subject: Soil Assessment and Remediation Work Plan Shugart 25 Fed Com #001 Eddy County, NM API# 30-015-31454

Dear Mr. Amos & Mr. Bratcher,

Devon Energy Corporation (Devon) has contracted Talon/LPE (Talon) to perform soil assessment and a remediation work plan for the above-referenced location. The results of our soil assessment and proposed remediation activities are contained herein.

Site Information

The Shugart 25 Fed Com #1 is located approximately forty (40) miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter K, Section 25, Township 18 South, and Range 31 East in Eddy County, New Mexico. More specifically, the latitude and longitude for the release are 32.7167778 North and -103.8251343 West. A site map is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Kermit-Berino fine sands, 0 to 3 percent slopes. See Appendix II for the referenced soil survey. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to middle Pleistocene in age and is comprised of alluvium and eolian sand deposits. Drainage courses in this area are well drained.

Ground Water and Site Characterization

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 430-feet below ground surface (BGS). See Appendix II for the referenced groundwater depth. This site is located within a low potential Karst area.

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If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater in Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 NMAC.

Approximate Dep	th to Groundwater 430 Feet/BGS
□Yes ⊠No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
□Yes ⊠No	Within 200 feet of any lakebed, sinkhole or playa lake
□Yes ⊠No	Within 300 feet from an occupied permanent residence, school, hospital, institution or church
□Yes ⊠No	Within 500 feet of a spring or a private, domestic freshwater well used by less than five households for domestic or stock watering purposes
□Yes ⊠No	Within 1000 feet of any freshwater well or spring
□Yes ⊠No	Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
□Yes ⊠No	Within 300 feet of a wetland
□Yes ⊠No	Within the area overlying a subsurface mine
□Yes ⊠No	Within an unstable area
□Yes ⊠No	Within a 100-year floodplain

Because the release did not occur in any of these areas and the depth to groundwater is greater than 100-feet in-depth, based on the site characterization data, the cleanup criteria for this site are as follows.

		Table I oils Impacted by a Release	
Depth below horizontal extents of release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
>100 feet	Total Chlorides***	EPA 300.0 or SM4500 CI B	20,000 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
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Descriptions

*2RP-1031. On February 2, 2012, the lease operator, upon arriving onto location, discovered a tank running over. An estimated 35 barrels (bbls) of oil and 20 bbls of produced water were released into the steel-lined containment. The 55 bbls of mixed fluids were recovered by a vac truck that had been dispatched.

*1RP-3245 & *2RP-2474 (Same Leak). On August 8, 2014, a leak occurred on a 3" ball valve on a poly transfer line causing an estimated 7 bbls of produced water to be released outside the containment of the tank battery. There was no produced water recovered and the line was repaired.

*2RP-5454. On May 13, 2019, a lovejoy on the water transfer pump failed to causing multiple leaks resulting in a total release of 106.6 bbls of produced water. 105 bbls of fluid were released inside the lined containment and were recovered. 1.6 bbls of fluid were released onto the location.

On November 27, 2019, a transfer pump failed causing a water tank to overflow. An estimated 400 bbls of produced water were released with the vac truck being able to recover the 400 bbls. All fluids were contained and retrieved within the steel-lined containment.

The initial	C-141's	are attached in	Appendix III.
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				Soll Sar	npling				
Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
NMOCD Table 1	L Closure Crite NMAC	ria 19.15.29	50 mg/kg	10 mg/kg		combined = mg/kg		2500 mg/kg	20,000 mg/kg
W. Composite	2/26/2020	0	ND	ND	ND	314	62.1	375.1	14900
N. Composite	2/26/2020	0	ND	ND	ND	42.9	ND	42.9	7600
E. Composite	2/26/2020	0	ND	ND	ND	401	157	558	6530
S. Composite	2/26/2020	0	ND	ND	ND	ND	ND	ND	47600
		0-1	ND	ND	ND	ND	ND	ND	9730
S-1	2/20/2020	2	ND	ND	ND	ND	ND	ND	432
	2/26/2020	3	ND	ND	ND	ND	ND	ND	192
		4	ND	ND	ND	ND	ND	ND	96
S-2	2/26/2020	0-1	ND	ND	ND	ND	ND	ND	1260
5-2	2/26/2020	2- R	ND	ND	ND	ND	ND	ND	368
		0-1	ND	ND	ND	ND	ND	ND	7330
6.2	2/20/2020	2	ND	ND	ND	ND	ND	ND	160
S-3	2/26/2020	3	ND	ND	ND	ND	ND	ND	80
1		4	ND	ND	ND	ND	ND	ND	32
S-4	2/20/2020	0-1	ND	ND	ND	ND	ND	ND	4160
5-4	2/26/2020	2- R	ND	ND	ND	ND	ND	ND	112
1999 - 1997 - 19		0-1	ND	ND	ND	ND	ND	ND	2000
S-5	2/26/2020	2	ND	ND	ND	ND	ND	ND	64
		3	ND	ND	ND	ND	ND	ND	48

Soil Sampling

ND-Analyte Not Detected

Proposed Remedial Actions

- The impacted area labeled S-Composite, which is comprised of a fivepoint composite sample taken from the south side of the containment wall, will be excavated to a depth of 1.0-feet deep.
- The bottom and sidewalls of the excavations will be advanced until field titration results for total chlorides are below Table 1 Closure Criteria 19.15.29 NMAC. Five-point composite samples will then be collected from the bottom and each side wall of the excavation. The samples will be laboratory analyzied for total chlorides via EPA Method 300.0 to verify field results before the excavation is backfilled.
- All of the excavated material will be hauled to Lea Land, LLC, a NMOCD approved solid waste disposal facility.
- The NMOCD will be notified via an email to be given the opportunity to be present for the liner inspection before this project is completed.
- A final closure report documenting the remedial actions and a Final C-141 will be provided to the NMOCD District II Artesia Office.

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Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768.

Respectfully submitted,

TALON/LPE

Chris Jones

Project Manager

David J. Adkins District Manager

Attachments: Appendix I Site Map, Karst Map, TOPO Map & Location Map Appendix II Groundwater Data, Soil Survey & FEMA Flood Zone Appendix III Initial C-141's Appendix IV Laboratory Data

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APPENDIX I

SITE MAP

KARST MAP

ΤΟΡΟ ΜΑΡ

LOCATION MAP

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APPENDIX II

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE

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Page 12 of 49 mmwns.ose.state.nm.us/mmwrrs/ReportProxy?gueryData=%7B"report"%3A"waterColumn"%2C%0A"BasinDiv"%3A"true"%2C //VA basin...



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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer

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

replaced & no longer	O=orpha	aned,		,											
serves a water right file.)	C=the fi closed)	e is		(arte	rs ar		allest to	E 3=SW 4 (N	=SE) AD83 UTM in n	neters)	(Ir	n feet)	
		POD			0		,							,	
		Sub-			Q										Nater
POD Number	Code		County						-	X	Y		epthWellDe	epthWaterC	olumn
CP 00849 POD1		CP	LE	3	1	3	35	18S	31E	608012	3618757* 🌍	2722	300		
CP 00672		CP	LE		4	4	07	18S	32E	612475	3624947* 🌍	5040	524	430	94
CP 00672 CLW475398	0	CP	LE		4	4	07	18S	32E	612475	3624947* 🌍	5040	540	460	80
CP 00814 POD1		CP	LE		2	2	08	18S	32E	614074	3626168* 🌍	6920	480		
CP 00563 POD1		CP	LE	1	1	2	19	195	32E	612118	3613376* 🌍	7402	300		
CP 01656 POD2		CP	LE	3	4	3	17	195	32E	613364	3613648 🌍	7586	70		
CP 01656 POD1		CP	LE	З	4	3	17	195	32E	613368	3613646 🌍	7590	70		
CP 00829 POD1		CP	LE		2	4	16	195	31E	606165	3614009* 🌍	7592	120		
CP 01656 POD3		CP	LE	3	4	3	17	19S	32E	613374	3613633 🌍	7604	30		
CP 00640 POD1		CP	LE		2	2	19	19S	32E	612621	3613280* 🌍	7645	260	102	158
CP 00677		CP	LE		1	1	26	18S	32E	617750	3621373* 🌍	7695	700		
CP 01554 POD1		CP	LE	2	2	1	22	19S	31E	607166	3613354 🌍	7725	400		
CP 01554 POD2		CP	LE	2	2	1	22	195	31E	607165	3613322 🌍	7755	400		
											Aver	age Depth to	Water:	330 fe	eet
												Minimum I	Depth:	102 fe	eet
												Maximum I	Depth:	460 fe	eet
Record 13 Count: UTMNAD83 Radiu	s Search	(in met	ers):												
Easting (X): 61	0104.484		Nort	hing	g ()	():	3620	0499.2	205		Radius: 8000				
*UTM location was derive					-										

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.

1/23/20 11:07 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Map Unit Description: Kermit-Berino fine sands, 0 to 3 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

KM-Kermit-Berino fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4q Elevation: 3,100 to 4,200 feet Mean annual precipitation: 10 to 14 inches Mean annual air temperature: 60 to 64 degrees F Frost-free period: 190 to 230 days Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 50 percent Berino and similar soils: 35 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landform: Plains, alluvial fans Landform position (three-dimensional): Talf, rise Down-slope shape: Convex, linear Across-slope shape: Linear Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 7 inches: fine sand H2 - 7 to 60 inches: fine sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Excessively drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Salinity, maximum in profile: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: A Ecological site: Deep Sand (R042XC005NM) Hydric soil rating: No Map Unit Description: Kermit-Berino fine sands, 0 to 3 percent slopes---Eddy Area, New Mexico

Description of Berino

Setting

Landform: Fan piedmonts, plains Landform position (three-dimensional): Riser Down-slope shape: Convex Across-slope shape: Linear Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand H2 - 17 to 50 inches: fine sandy loam

H3 - 50 to 58 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 40 percent
Salinity, maximum in profile: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0

Available water storage in profile: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Ecological site: Loamy Sand (R042XC003NM) Hydric soil rating: No

Minor Components

Active dune land

Percent of map unit: 15 percent Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 15, Sep 15, 2019





gend		
ARD AREAS		REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FINDE LAYOU Without Base Flood Elevation (BFE) Zone A, V, 499 With BFE or Depth Zone AE, AO, AH, VE, AR RD AREAS Regulatory Floodway
AREAS OF		0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainag areas of less than one square mile <i>zone</i> future Conditions 1% Annual Chance Flood Hazard <i>zone X</i> Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i> Area with Flood Risk due to Levee <i>Zone D</i>
HER AREAS	NO SCREEN	Area of Minimal Flood Hazard Zone X Effective LOMRs Area of Undetermined Flood Hazard Zo
GENERAL	Ξ	Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
FEATURES	20.2 17.5 	Cross Sections with 1% Annual Chance Water Surface Elevation Dease Tode Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Profile Baseline
IAP PANELS		Digital Data Available N No Digital Data Available Unmapped
-0	The pin point s an aut	The pin displayed on the map is an approximp point selected by the user and does not represent an authoritative property location.
'his map complies with ligital flood maps if it is 'he basemap shown cor accuracy standards	s with F if it is i wn com	map complies with FEMA's standards for the use of tal flood maps if it is not void as described below. basemap shown complies with FEMA's basemap uracy standards
The flood hazard information is derived di authoritative NFHL web services provided vas exported on 1/23/2020 at 1:14:55 F effect changes or amendments subseque inne. The NFHL and effective information mecome superseded by new data over tim	nforma L web s L/23/20 nd effec ed by n	The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map vas exported on 1/23/2020 at 1:14:55 PM and does not effect changes or amendments subsequent to this date and inne. The NFHL and effective information may change or secome superseded by new data over time.
'his map image is void if the c lements do not appear: basei gegend, scale bar, map creatio IRM panel number, and FIRM IRM panel number, and FIRM inmapped and unmodernized egulatory purposes.	ap ci and and	oid if the one or more of the following map ear: basemap imagery, flood zone labels, and FIRM effective date. Map images for odernized areas cannot be used for



APPENDIX III

INITIAL C-141's

. Released to Imaging: 9/20/2022 2:26:53 PM

ceived by OCD: 4/17/2020 12:05:58 PM	1					Page 17 of 4
<u>istrict I</u> 525 N French Dr., Hobbs, NM 88240 <u>istrict II</u>			New Mex and Natura	ico 1 Resources		Form C-141 Revised March 17, 1999
301 W Grand Avenue, Artesia, NM 88210 <u>istrict III</u> 300 R10 Brazos Road, Aztec, NM 87410 <u>istrict IV</u> 220 S. St. Franc1s Dr., Santa Fe, NM 87505	1220	Conserv South anta Fe	Submit 2 Copies to appropriat District Office in accordanc with Rule 116 on back side of form			
0-015-31454 Re	lease Notifi	cation	and Co	orrective A	ction	MAB
MLB1204749715	OI	PERAT	FOR		Initial Ro	
Name of Company Devon Energy	6137	(Contact	Roger Herna	ndez	
Address P. O. Box 250		1	Felephone	e No. 575-7	48-5238	
Artesia, NM 88211						
Facility Name Shugart 25 Fed #1		I	Facility T	ype Oil We	-11	
Surface Owner	Mineral	Owne	r		Lease	No.
	LOC	ATION	OF RE	LEASE		
Unit Letter Section Township Range 25 T18S 31E	1		South Line	Feet from the 1980	East/West Line West	County Eddy
	NAT	TURE	OF REL	EASE		
Type of Release 35 oil \$ 20 PW	14143	I UNL		Release 55bbls	Volume	Recovered 55bbls
Source of Release			The state of the state	Hour of Occurrence		Hour of Discovery 2/2/12,
Tank Overflow Was Immediate Notice Given?			2/2/12, 8:1	Whom?	8:19AM	
	□ No □ Not R	equired		e, BLM – Eddy C		atcher, OCD
By Whom? Was a Watercourse Reached?				Hour 2/3/12, 8:0 olume Impacting t		
	🖾 No			1 5		RECEIVED
If a Watercourse was Impacted, Describe Ful	ly.*					FEB 08 2012
N/A						FED VO LOIL
						NMOCD ARTESIA
Describe Cause of Problem and Remedial Ac Upon arrival at the Shugart 25-1, the lease op recovering 35 bbls of Oil and 20 bbls of wate	erator discovered a				s spill that was ke	ot within the containment,
Describe Area Affected and Cleanup Action 25x70, All Fluid was contained inside steel li						
I hereby certify that the information given ab regulations all operators are required to repor public health or the environment. The accept should their operations have failed to adequa or the environment. In addition, NMOCD ac federal, state, or local laws and/or regulations	t and/or file certain cance of a C-141 rep tely investigate and ceptance of a C-141	release no ort by the remediate	otifications a e NMOCD n e contaminat	and perform correct narked as "Final R ion that pose a thrap we the operator of	ctive actions for re- Report" does not re- reat to ground war responsibility for	eleases which may endanger elieve the operator of liability er, surface water, human health compliance with any other
Signature: Gracie Bustamante					SERVATION	N DIVISION
Printed Name: Gracie Bustamante			Approved by	DSimeduper	BORINT KIK	PT VN? C.18 C
				FED 1 0	0010	1
Title: Contract Field Tech			Approval Da	FEB 16 2	CUIZ Expiratio	n Date: NA
				of Approval: NIR	Expiratio	Attached

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 875

HOBBS OCD State of New Mexico Energy Minerals and Natural Resources

AUG 1 5 20 Pil Conservation Division 1220 South St. Francis Dr. Form C-141 Revised August 8, 2011

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

BECENTER Santa Fe, NM 87505

Release Notification and Corrective Action

	OPERATOR	Initial Report	Final Report
Name of Company Devon Energy	Contact Rudy Zuniga		
Address PO Box 250 Artesia, NM 88211	Telephone No. 575- 390-5435		
Facility Name Shugart 25 Federal Com 1	Facility Type Gas		

Surface Owner: Federal

Mineral Owner

API No. 30-015-31454

8-11-1 - 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	-		1		TION OF REI	LEASE		
Unit Letter K	Section 25	Township 18S	Range 31E	Feet from the 1980	North/South Line SOUTH	Feet from the 1980	East/West Line WEST	County EDDY

Latitude: ____ Longitude: ____

NATURE	OF RELEASE	
Type of Release Ball valve to load line left open	Volume of Release: 7 bbls	Volume Recovered: 0
ource of Release: Produced Water	Date and Hour of Occurrence 08/08/14 3:30 AM	Date and Hour of Discovery 08/08/14 3:30 AM
Vas Immediate Notice Given?	If YES, To Whom? Rudy Zuniga-Foreman/Hubert	Perry-Night Foreman/Randy Gladden- ruz-EHS/Roy White-Senior Production
y Whom? Freddy Ramirez/Jason Anderson – Night lease operators	Date and Hour: 08/08/14 3:30	AM
Vas a Watercourse Reached?	If YES, Volume Impacting the W	⁷ atercourse.
f a Watercourse was Impacted, Describe Fully.*		
Describe Area Affected and Cleanup Action Taken.* The area affected outside the facility was 7 feet wide by 12 feet long. J activities.	Diversified was contacted to perfo	orm the site assessment and soil sampling
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release ne public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate or the environment. In addition, NMOCD acceptance of a C-141 report d federal, state, or local laws and/or regulations.	otifications and perform corrective e NMOCD marked as "Final Repor e contamination that pose a threat to oes not relieve the operator of respo	actions for releases which may endanger " does not relieve the operator of liability o ground water, surface water, human health onsibility for compliance with any other
Signature: Shammy Ingram	OIL CONSER	RVATION DIVISION
Printed Name: Shammy Ingram	Approved by Environmental Specia	alist:
Litle: Field Admin Sunnart	Approval Date: 8-15-14	Expiration Date: 10-12-19

Title: Field Admin SupportApproval Date: 8-15-19Expiration Date: 10-17-19E-mail Address: Shammy.Ingram@dvn.comConditions of Approval:
STTC Sapple regord.Attached []Date: August 15, 2014Phone: 575-748-0174Pel/auto 8 reachive area areaAttached []* Attach Additional Sheets If NecessaryN no Co guides . Sufarit fritOgrid 6137
N 10-17 -14* Ogrid 6137C-141 by .10-17 -14N to 1422 75130
D 701422

ALIC 1 5 2014

District I 625 N. French District II						New Mex	ico NN I Resources	ARTES	ONSE IA DIST			Form C-141 August 8, 2011
11 S. First St., District III 000 Rio Brazos District IV	Road, Azte	c, NM 87410			Oil Conservation Division 1220 South St. Francis Dr.					044 ppropri cordance wi	ate Dist th 19.1	rict Office in 5.29 NMAC.
220 S. St. Fran	cis Dr., Santa	a Fe, NM 87505	5 .	Sa	anta Fe	, NM 875	05	RECEIVED				
101.2	1.1	10.00	Rele	ease Notific	catior	and Co	rrective A	ction				
7AB142	52410	401				OPERAT	TOR		Initi	al Report	П	Final Repor
		evon Energy		6137		Contact Ri	idy Zuniga					
		Artesia, NM					lo. 575- 390-54	35			·	
		rt 25 Federa	I Com I			Facility Typ	e Gas	and the second				
Surface Ow	ner: Feder	ral		Mineral (Dwner				API No	. 30-015-3	1454	
				LOCA	ATION	N OF REI	LEASE					
Unit Letter K	Section 25	Township 18S	Range 31E	Feet from the 1980	Langer Service	South Line	Feet from the 1980	East/Wes		County EDDY		
				Latitu	de:	Longitude				I		
01.3				NAT	TURE	OF REL	EASE					
		lve to load lin	ne left ope	n			Release: 7 bbls			Recovered: (
Source of Re	lease: Prod	luced Water					lour of Occurrenc 3:30 AM			Hour of Dis 3:30 AM		
Was Immedi	ate Notice (Yes 🗌] No 🗌 Not R	equired	If YES, To Rudy Zun Assistant		ibert Perr	y-Night HS/Roy	Foreman/F White-Sen	Randy (ladden- duction
By Whom? F	reddy Rar	nirez/Jason /	nderson	- Night lease op	erators	Date and H	lour: 08/08/14	3:30 AM				
Was a Water		ched?	Yes 🗵		crutoro		Jume Impacting		ourse.			
Describe Cau On August 8	se of Probl , 2014 at t	em and Reme he Shugart 2 itside the faci	dial Actio 5 Federal		red on a ced wate	3" ball valver recovered.	e on poly transfe Banta was calle	r line caus ed to repai	ing an r	estimated 7 bly line.	bbls of	produced
The area aff activities.	ected outsi		y was 7 fe	et wide by 12 fee								
regulations a public health should their or the enviro	Il operators or the envi operations l nment. In a	are required to a required to	o report a acceptan adequately OCD accept	e is true and com nd/or file certain ce of a C-141 rep y investigate and otance of a C-141	release n ort by th remediat	otifications a e NMOCD m e contaminat	nd perform corre- arked as "Final F ion that pose a the re the operator of	ctive actior Report" doe reat to grou responsibi	ns for re s not re and wate lity for o	leases which lieve the ope r, surface w compliance	may er erator of ater, hu with any	danger liability man health
Signature: S	hammy 1	ngram					OIL CON	SERVA	TION //	DIVISI	<u>N</u>	
Printed Nam	e: Shammy	/ Ingram				Approved by	Environmental S	Specialist:/	the	Ku		-
Title: Field	Admin Sup	port				Approval Da	te: 9/9/14	Ex	piration	Date:	VA	
E-mail Addr	ess: Shamr	ny.Ingram@	dvn.com			Conditions of	of Approval:			Attached		
Date: Augu	st 15, 2014		Phone:	575-748-0174		Remediation	per OCD Rule			1		
Attach Addi	tional She	ets If Neces	sary			SUBMIT REI	NEDIATION PRO	OPOSAL N	0		2F	3P-247

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

)

Page 20 of 49

Incident ID	NAB1914957336
District RP	2RP-5454
Facility ID	
Application ID	pAB1914956037

Release Notification

Responsible Party

OGRID 6137
Contact Telephone 575-748-0176
Incident # (assigned by OCD) NAB1914957336

Location of Release Source

Latitude 32.7167778

Longitude -103.8251343

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Shugart 25 Fed Com #001	Site Type Gas
Date Release Discovered 5/13/2019	API# (if applicable) 30-015-31454

Unit Letter	Section	Township	Range	County
K	25	18S	31E	Eddy

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) 106.6	Volume Recovered (bbls) 105
	Is the concentration of total dissolved solids (TDS) 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)
the	er transfer pump was leaking from lovejoy pump. Affected area inside containment 30 ainment 25'x10'x3/4". All fluid stayed on th	

eived by OCD: 4/17/202				Page 21 o
rm C-141	State of New Mexico		Incident ID	NAB1914957336
e 2	Oil Conservation Divis	sion	District RP	2RP-5454
			Facility ID	
			Application ID	pAB1914956037
Was this a major	If YES, for what reason(s) does the	e responsible party con	sider this a major release	?
release as defined by	This is considered a major			
19.15.29.7(A) NMAC?		op		
Yes 🗌 No				
If VES was immediate t	10tice given to the OCD? By whom?	To whom? When and	d by what means (phone,	email, etc)?
	ent to Debhorah Mckinne, C			
	Griswold from Wesley Mathew			0,,
		Marca Cartana		
	Initi	ial Response		
			anasta a safate barand that was	ild warmilt in inium
The responsible	e party must undertake the following actions im	imediately unless they could	create a sajety nazara that wol	lia result in injury
	lease has been stopped.			
The impacted area h	as been secured to protect human hea	lth and the environmer	nt.	
Released materials h	have been contained via the use of ber	rms or dikes, absorbent	pads, or other containme	ent devices.
All free liquids and	recoverable materials have been remo	oved and managed appi	ropriately.	
has begun, please attach within a lined containing I hereby certify that the inf regulations all operators ar public health or the environ failed to adequately invest addition, OCD acceptance	MAC the responsible party may common a narrative of actions to date. If responsible party may common a narrative of actions to date. If response to the second seco	medial efforts have be MAC), please attach all te to the best of my knowlease notifications and per t by the OCD does not relipse a threat to groundwate	en successfully complete information needed for of ledge and understand that p form corrective actions for ieve the operator of liability er, surface water, human hea	d or if the release occurre closure evaluation. ursuant to OCD rules and releases which may endanger should their operations have lth or the environment. In
and/or regulations. Printed Name: Kend	Ira DeHoyos	Title: EH	S Associate	
Signature: Kendr	a DeHoyos	Date: 5/2		
email: kendra.de	hoyos@dvn.com	Telephone	575-748-3371	
		relephone		

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	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID 6137
Contact Telephone 575-748-0176
Incident # (assigned by OCD)

Location of Release Source

Latitude 32.71680

Longitude -103.82510

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Shugart 25 Federal #1	Site Type Oil
Date Release Discovered 11/27/2019	API# (if applicable)

Unit Letter	Section	Township	Range	County
K	25	18S	31E	Eddy

Surface Owner: State E Federal Tribal Private (Name: _

Nature and Volume of Release

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 400	Volume Recovered (bbls) 400
	Is the concentration of total dissolved solids (TDS) 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)

rm C-141	State of New Mexico	Incident ID	
e 2	Oil Conservation Division	District RP	
0.2		Facility ID	
		Application ID	
	TEXTED 6 1 () to the new quille new	a consider this a major release?	
Was this a major release as defined by	If YES, for what reason(s) does the responsible part		
19.15.29.7(A) NMAC?	This is considered a major release beca	ause it is over 25 BBLS.	
Yes 🗌 No			
	notice given to the OCD? By whom? To whom? Wh		
	ent to blm_nm_cfo_spill@blm.gov, Robe	rt Hamlet, Jim Griswold, Victoria Vene	gas
and Mike Bratcher	from Amanda Davis on 11/27/2019.		
	Initial Respons	e	
771			
The responsible	Initial Respons e party must undertake the following actions immediately unless the		
	e party must undertake the following actions immediately unless the		
The source of the rel	e party must undertake the following actions immediately unless the	v could create a safety hazard that would result in injury	
The source of the relThe impacted area h	e party must undertake the following actions immediately unless the lease has been stopped.	y could create a safety hazard that would result in injury	
 The source of the rel The impacted area h Released materials h 	e party must undertake the following actions immediately unless the lease has been stopped. has been secured to protect human health and the environave been contained via the use of berms or dikes, abso	onment.	
 The source of the rel The impacted area h Released materials h 	e party must undertake the following actions immediately unless the lease has been stopped.	onment.	
 The source of the reliance The impacted area h Released materials h All free liquids and h 	e party must undertake the following actions immediately unless the lease has been stopped. has been secured to protect human health and the environave been contained via the use of berms or dikes, abso	onment.	
 The source of the reliance The impacted area h Released materials h All free liquids and h 	e party must undertake the following actions immediately unless the lease has been stopped. has been secured to protect human health and the envir have been contained via the use of berms or dikes, abso recoverable materials have been removed and manage	onment.	
 The source of the rel The impacted area h Released materials h All free liquids and h 	e party must undertake the following actions immediately unless the lease has been stopped. has been secured to protect human health and the envir have been contained via the use of berms or dikes, abso recoverable materials have been removed and manage	onment.	
 The source of the rel The impacted area h Released materials h All free liquids and t 	e party must undertake the following actions immediately unless the lease has been stopped. has been secured to protect human health and the envir have been contained via the use of berms or dikes, abso recoverable materials have been removed and manage	onment.	
 The source of the rel The impacted area h Released materials h All free liquids and t 	e party must undertake the following actions immediately unless the lease has been stopped. has been secured to protect human health and the envir have been contained via the use of berms or dikes, abso recoverable materials have been removed and manage	onment.	
 The source of the rel The impacted area h Released materials h All free liquids and h 	e party must undertake the following actions immediately unless the lease has been stopped. has been secured to protect human health and the envir have been contained via the use of berms or dikes, abso recoverable materials have been removed and manage	onment.	

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: Kendra DeHoyos	Title: EHS Associate	_
Signature: Kendra DeHoyos	Date: 12/4/2019	
email: kendra.dehoyos@dvn.com	Telephone: 575-748-3371	
OCD Only		
Received by:	Date:	



APPENDIX IV

LABORATORY DATA



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

March 05, 2020

CHRIS JONES

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SHUGART 25 FED 1

Enclosed are the results of analyses for samples received by the laboratory on 03/02/20 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

	02/26/2020
Sampling Date:	Soil
Sampling Condition:	Cool & Intact
Sample Received By:	Tamara Oldaker
	Sampling Type: Sampling Condition: Sample Received By:

Sample ID: W. COMP (H000660-01)

BTEX 8021B	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.89	94.6	2.00	3.00	
Toluene*	< 0.050	0.050	03/03/2020	ND	1.90	94.9	2.00	2.81	
Ethylbenzene*	< 0.050	0.050	03/03/2020	ND	1.91	95.4	2,00	2.84	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.52	92.0	6.00	2.81	
Total BTEX	<0.300	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIE 97.7 % 73.3-129

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14900	16.0	03/03/2020	ND	432	108	400	0.00	QM-07
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	314	10.0	03/03/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	62.1	10.0	03/03/2020	ND					
Surrogate: 1-Chlorooctane	86.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	100 9	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

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Celeg Ditreene-

Celey D. Keene, Lab Director/Quality Manager



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: N. COMP (H000660-02)

BTEX 8021B Analyzed By: MS mg/kg True Value QC RPD Qualifier BS % Recovery Method Blank Analyte Result Reporting Limit Analyzed 2.00 3.00 1.89 94.6 03/03/2020 ND Benzene* < 0.050 0.050 1.90 94.9 2.00 2.81 0.050 03/03/2020 ND Toluene* < 0.050 2.84 1.91 95.4 2.00 < 0.050 0.050 03/03/2020 ND Ethylbenzene* 2.81 92.0 6.00 03/03/2020 ND 5.52 0.150 Total Xylenes* <0.150 0.300 03/03/2020 ND Total BTEX <0.300

Surrogate: 4-Bromofluorobenzene (PIL 99.5 % 73.3-129

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC		_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	42.9	10.0	03/03/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/03/2020	ND				_	
Surrogate: 1-Chlorooctane	88.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	92.8	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldake
Project Location:	DEVON - LEA CO NM		

Sample ID: E. COMP (H000660-03)

BTEX 8021B mg/kg Analyzed By: MS Analyte Method Blank Result Reporting Limit Analyzed BS % Recovery True Value QC RPD Qualifier < 0.050 Benzene* 0.050 03/03/2020 ND 1.89 94.6 2.00 3.00 Toluene* 03/03/2020 1.90 < 0.050 0.050 ND 94.9 2.00 2.81 Ethylbenzene* < 0.050 0.050 03/03/2020 ND 1.91 95.4 2.00 2.84 Total Xylenes* < 0.150 0.150 03/03/2020 ND 5.52 92.0 6.00 2.81 Total BTEX < 0.300 0.300 03/03/2020 ND

Surrogate: 4-Bromofluorobenzene (PIL 99.5 % 73.3-129

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6530	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	401	10.0	03/03/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	157	10.0	03/03/2020	ND					
Surrogate: 1-Chlorooctane	87.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	103 9	42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S. COMP (H000660-04)

BTEX 8021B	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.89	94.6	2.00	3.00	
Toluene*	<0.050	0.050	03/03/2020	ND	1.90	94.9	2.00	2.81	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.91	95.4	2.00	2.84	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.52	92.0	6.00	2.81	
Total BTEX	<0.300	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIL 98.4 % 73.3-129

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	47600	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS				1.1.1	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/03/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/03/2020	ND					
Surrogate: 1-Chlorooctane	87.2	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	90.1	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager

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TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
		Sampling Type:	Soil
Reported:	03/05/2020	1 5 11	
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 1 0-1' (H000660-05)

BTEX 8021B Analyzed By: MS mg/kg True Value QC RPD Qualifier Reporting Limit Method Blank BS % Recovery Analyzed Analyte Result ND 95.9 2.00 1.68 03/03/2020 1.92 <0.050 0.050 Benzene* 03/03/2020 ND 1.92 96.1 2.00 1.45 Toluene* < 0.050 0.050 ND 97.7 2.00 1.78 Ethylbenzene* < 0.050 0.050 03/03/2020 1.95 93.8 6.00 2.14 03/03/2020 ND 5.63 Total Xylenes* 0.150 < 0.150 Total BTEX <0.300 0.300 03/03/2020 ND

Surrogate: 4-Bromofluorobenzene (PIL 99.0 % 73.3-129

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9730	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/03/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/03/2020	ND					
Surrogate: 1-Chlorooctane	91.2	% 44.3-14	14						

Surrogate: 1-Chlorooctadecane 93.4% 42.2-156

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Celey D. Keene, Lab Director/Quality Manager

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TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldake
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 1 2' (H000660-06)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.92	95.9	2.00	1.68	
Toluene*	<0.050	0.050	03/03/2020	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.95	97.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2.14	
Total BTEX	<0.300	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIL 99.8% 73.3-129

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC		-			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/03/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/03/2020	ND					
Surrogate: 1-Chlorooctane	85.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.9	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 1 3' (H000660-07)

BTEX 8021B	mg,	/kg	Analyze	a By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.92	95.9	2.00	1.68	
Toluene*	<0.050	0.050	03/03/2020	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.95	97.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2.14	
Total BTEX	<0.300	0.300	03/03/2020	ND					

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Surrogate: 4-Bromofluorobenzene (PIL 98.2 % 73.3-129

Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/03/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/03/2020	ND					
Surrogate: 1-Chlorooctane	92.2	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	94.1	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 1 4' (H000660-08)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.92	95.9	2.00	1.68	
Toluene*	<0.050	0.050	03/03/2020	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.95	97.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2.14	
Total BTEX	<0.300	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIL 99.0 % 73.3-129

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC	-				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/03/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/03/2020	ND					
Surrogate: 1-Chlorooctane	91.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.1	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 2 0-1' (H000660-09)

mg/kg		Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	03/03/2020	ND	1.92	95.9	2.00	1.68	
<0.050	0.050	03/03/2020	ND	1.92	96.1	2.00	1.45	
<0.050	0.050	03/03/2020	ND	1.95	97.7	2.00	1.78	
<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2.14	
<0.300	0.300	03/03/2020	ND					
	Result <0.050 <0.050 <0.050 <0.150	Result Reporting Limit <0.050	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIL 99.3 % 73.3-129

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC		_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	03/03/2020	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	03/03/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/03/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/03/2020	ND					
Surrogate: 1-Chlorooctane	87.0	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	88.4	% 42.2-15	56						

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Celey D. Keene, Lab Director/Quality Manager



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03/02/2020	Sampling Date:	02/26/2020
03/05/2020	Sampling Type:	Soil
SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
700794.304.01	Sample Received By:	Tamara Oldaker
DEVON - LEA CO NM		
	03/05/2020 SHUGART 25 FED 1 700794.304.01	03/05/2020Sampling Type:SHUGART 25 FED 1Sampling Condition:700794.304.01Sample Received By:

Sample ID: S - 2 2' R (H000660-10)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.92	95.9	2.00	1.68	
Toluene*	<0.050	0.050	03/03/2020	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.95	97.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2.14	
Total BTEX	<0.300	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIL 99.6% 73.3-129

	Andread Bur AC								
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS		nii.				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/04/2020	ND	192	96.0	200	1,25	
EXT DRO >C28-C36	<10.0	10.0	03/04/2020	ND					
Surrogate: 1-Chlorooctane	90.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	92.4	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager

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TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 3 0-1' (H000660-11)

BTEX 8021B	mg.	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.92	95.9	2.00	1.68	
Toluene*	<0.050	0.050	03/03/2020	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.95	97.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2.14	
Total BTEX	<0.300	0.300	03/03/2020	ND					

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Surrogate: 4-Bromofluorobenzene (PIE 99.6 % 73.3-129

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC		_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7330	16.0	03/03/2020	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	03/04/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/04/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/04/2020	ND					
Surrogate: 1-Chlorooctane	87.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.1	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager


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Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 3 2' (H000660-12)

BTEX 8021B	mg,	/kg	Analyze	а ву: мъ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.92	95.9	2,00	1.68	
Toluene*	<0.050	0.050	03/03/2020	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.95	97.7	2,00	1.78	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2.14	
Total BTEX	<0.300	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIL 99.3 % 73.3-129

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/03/2020	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	03/04/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/04/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/04/2020	ND					
Surrogate: 1-Chlorooctane	89.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.1	% 42.2-15	6						

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Celeg to there

Celey D. Keene, Lab Director/Quality Manager



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Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 3 3' (H000660-13)

BTEX 8021B Analyzed By: MS mg/kg Method Blank BS % Recovery True Value QC RPD Qualifier Reporting Limit Analyzed Analyte Result 0.050 03/03/2020 ND 1.92 95.9 2.00 1.68 Benzene* < 0.050 Toluene* < 0.050 0.050 03/03/2020 ND 1.92 96.1 2.00 1.45 Ethylbenzene* 0.050 03/03/2020 ND 1.95 97.7 2.00 1.78 < 0.050 Total Xylenes* 03/03/2020 ND 93.8 6.00 2.14 5.63 < 0.150 0.150 Total BTEX < 0.300 0.300 03/03/2020 ND

Surrogate: 4-Bromofluorobenzene (PIL 98,8 % 73.3-129

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC	_			_	_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/03/2020	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	03/04/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/04/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/04/2020	ND					
Surrogate: 1-Chlorooctane	84.0	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	85.6	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 3 4' (H000660-14)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.92	95.9	2.00	1.68	
Toluene*	<0.050	0.050	03/03/2020	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.95	97.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2.14	
Total BTEX	<0.300	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIL 99.8 % 73.3-129

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/03/2020	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	03/04/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/04/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/04/2020	ND					
Surrogate: 1-Chlorooctane	83.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	85.8	% 42.2-15	6						

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Celez to there-

Celey D. Keene, Lab Director/Quality Manager



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 4 0-1' (H000660-15)

BTEX 8021B mg/kg Analyzed By: MS Analyte Analyzed Method Blank True Value QC RPD Qualifier Result **Reporting Limit** BS % Recovery 03/03/2020 Benzene* < 0.050 0.050 ND 1.92 95.9 2.00 1.68 Toluene* < 0.050 0.050 03/03/2020 ND 1.92 96.1 2.00 1.45 Ethylbenzene* < 0.050 0.050 03/03/2020 ND 1.95 97.7 2.00 1.78 Total Xylenes* 03/03/2020 ND 6.00 < 0.150 0.150 5.63 93.8 2.14 Total BTEX <0.300 0.300 03/03/2020 ND

Surrogate: 4-Bromofluorobenzene (PIL 98.7 % 73.3-129

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	03/03/2020	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	03/04/2020	ND	181	90.6	200	0.385	
DRO >C10-C28*	<10.0	10.0	03/04/2020	ND	192	96.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	03/04/2020	ND					
Surrogate: 1-Chlorooctane	84.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.2	% 42.2-15	6						

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Celleg Di Freena

Celey D. Keene, Lab Director/Quality Manager



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 4 2' R (H000660-16)

BTEX 8021B Analyzed By: MS mg/kg Analyte Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Result **Reporting Limit** 0.050 03/03/2020 ND 1.92 95.9 2.00 1.68 Benzene* < 0.050 Toluene* < 0.050 0.050 03/03/2020 ND 1.92 96.1 2.00 1.45 Ethylbenzene* < 0.050 0.050 03/03/2020 ND 1.95 97.7 2.00 1.78 Total Xylenes* 03/03/2020 6.00 < 0.150 0.150 ND 5.63 93.8 2.14 Total BTEX 03/03/2020 ND <0.300 0.300

Surrogate: 4-Bromofluorobenzene (PIE 99.2 % 73.3-129

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: AC		_		_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2020	ND	171	85.7	200	3.17	
DRO >C10-C28*	<10.0	10.0	03/04/2020	ND	182	90.8	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	03/04/2020	ND					
Surrogate: 1-Chlorooctane	74.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	80.4	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 5 0-1' (H000660-17)

BTEX 8021B Analyzed By: MS mg/kg True Value QC RPD Qualifier Method Blank BS % Recovery Analyzed Analyte Result Reporting Limit 2.00 1.68 ND 1.92 95.9 0.050 03/03/2020 Benzene* < 0.050 1.92 96.1 2.00 1.45 Toluene* < 0.050 0.050 03/03/2020 ND 1.78 2.00 Ethylbenzene* < 0.050 0.050 03/03/2020 ND 1.95 97.7 6.00 2,14 03/03/2020 ND 93.8 Total Xylenes* 5.63 <0.150 0.150 Total BTEX <0.300 0.300 03/03/2020 ND

Surrogate: 4-Bromofluorobenzene (PIL 100 % 73.3-129

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2020	ND	177	88.5	200	0.342	
DRO >C10-C28*	<10.0	10.0	03/04/2020	ND	166	82.8	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	03/04/2020	ND					
Surrogate: 1-Chlorooctane	82.0	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	84.6	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager





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Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		

Sample ID: S - 5 2' (H000660-18)

BTEX 8021B Analyzed By: MS mg/kg Analyte RPD Result **Reporting Limit** Analyzed Method Blank BS Qualifier % Recovery True Value QC Benzene* 03/03/2020 < 0.050 0.050 ND 1.92 95.9 2.00 1.68 Toluene* < 0.050 0.050 03/03/2020 ND 1.92 96.1 2.00 1.45 Ethylbenzene* < 0.050 0.050 03/03/2020 ND 1.95 97.7 2.00 1.78 Total Xylenes* <0.150 03/03/2020 0.150 ND 5.63 93.8 6.00 2.14 Total BTEX < 0.300 0.300 03/03/2020 ND

Surrogate: 4-Bromofluorobenzene (PIL 99.6 % 73.3-129

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2020	ND	177	88.5	200	0.342	
DRO >C10-C28*	<10.0	10.0	03/04/2020	ND	166	82.8	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	03/04/2020	ND					
Surrogate: 1-Chlorooctane	85.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.0	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	03/02/2020	Sampling Date:	02/26/2020
Reported:	03/05/2020	Sampling Type:	Soil
Project Name:	SHUGART 25 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.304.01	Sample Received By:	Tamara Oldaker
Project Location:	DEVON - LEA CO NM		
	Reported: Project Name: Project Number:	Reported:03/05/2020Project Name:SHUGART 25 FED 1Project Number:700794.304.01	Reported:03/05/2020Sampling Type:Project Name:SHUGART 25 FED 1Sampling Condition:Project Number:700794.304.01Sample Received By:

Sample ID: S - 5 3' (H000660-19)

BTEX 8021B	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2020	ND	1.92	95.9	2.00	1.68	
Toluene*	<0.050	0.050	03/03/2020	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	03/03/2020	ND	1.95	97.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	03/03/2020	ND	5.63	93.8	6.00	2.14	
Total BTEX	<0.300	0.300	03/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PIL 98.7 % 73.3-129

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/04/2020	ND	177	88.5	200	0.342	
DRO >C10-C28*	<10.0	10.0	03/04/2020	ND	166	82.8	200	2.68	
EXT DRO >C28-C36	<10.0	10.0	03/04/2020	ND					
Surrogate: 1-Chlorooctane	87.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.1	% 42.2-15	6						

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Celley D. Freene -

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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.
2	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Hall Environmental Analys	is Laboratory,	Inc.				Analytical Report Lab Order 2003045 Date Reported: 3/5/2020).
CLIENT: Talon ArtesiaProject: Devon State Jr 1Lab ID: 2003045-008	Matrix: SOIL		Collect		e: 2/2	8 0' 8/2020 10:10:00 AM /2020 9:00:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CJS
Chloride	ND	60		mg/Kg	20	3/3/2020 12:39:19 PM	50837
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANICS					Analyst:	CLP
Diesel Range Organics (DRO)	29000	950		mg/Kg	100	3/3/2020 2:19:33 PM	50823
Motor Oil Range Organics (MRO) Surr: DNOP	15000 0	4800 55.1-146	S	mg/Kg %Rec		3/3/2020 2:19:33 PM 3/3/2020 2:19:33 PM	50823 50823
EPA METHOD 8015D: GASOLINE RAN	GE					Analyst:	NSB
Gasoline Range Organics (GRO) Surr: BFB	460 621	20 66.6-105	S	mg/Kg %Rec	5 5	3/3/2020 10:58:47 AM 3/3/2020 10:58:47 AM	G66977 G66977
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	0.11	0.099		mg/Kg	5	3/3/2020 10:58:47 AM	B66977
Toluene	1.1	0.20		mg/Kg	5	3/3/2020 10:58:47 AM	B66977
Ethylbenzene	1.8	0.20		mg/Kg	5	3/3/2020 10:58:47 AM	B66977
Xylenes, Total	12	0.40		mg/Kg	5	3/3/2020 10:58:47 AM	B66977
Surr: 4-Bromofluorobenzene	115	80-120		%Rec	5	3/3/2020 10:58:47 AM	B66977

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 20

	401 East Mariland, Hobbs, Nill (678) 393-2226 FAX (575) 393- (678) 393-2226 FAX (575) 393- PAGINES: TALON CPE Project Marrager: CHQ15 ToNES Address: 408 (J. TEXAS Ave Giv: ARTESIA Project Marrager: CHQ1-Q77 Project Name: SHUL-AQT AS FED Project Name: MILLHAEL Coll ISA Project Name: SHUL-AQT AS FED Project Name: MILLHAEL Coll ISA Project Name: SHUL-AQT AS FED Proj	Received By: R	P.O. #: TBOTAH - Set Gompany: TRLOAN (4 Address: Phone #: Phone #:	TOTAL CHLORIDES	AND ANALY ddf Photo
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Inelivered Ex; (Circle Cine) Time: 40 Intelivered Str. (Circle Cine) Sampler - LiPs - Bus - Other: S.3 4/13 Example Condition Oliter Circle Cine)	Relinitished Bry 196 - 1956	f be de	PLEASE NOTE: Unbling and Durnages. Conditable liability and olicity exclusive rainedy for any claim ariging whether based in contractor ford, shall be imited in the amount analysis. All claims in advises and the second shall be imited in the amount and the second shall be imited in the amount and the second shall be imited in the seco				n	4. 0~1	: 6	5-5		1 0			FOR #	THE COLUMNY Phone St.	State: Zip:	DI Project Owner: DEUBN	275-631-6977 Fax # Addre	TESIA State: NM Zin: 88210 Attn: C.J.	YOU (N. TEXAS AVE. Gompa	ALL CHRIS JONES P.O. 带	LALON CPE	NS		Laboratories .	
PG gord	Photte Restift: D Yes D No Add'l Photte #: Fax Restift: T Yes D No - Add'l Fax #: REMARKS;	0	Prob Not New York Inc.	-	1	2: 40pm	2:300	2:10	2:000		1	20 1:30 VVV	ы Втех Трн Тотасн	SAMPLING	_	30			0		N LPC	Print of the second	ANALYSIS RECORDER	•	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST		

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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

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	5031
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By Condition Condition Date 6/9/2022 jharimon None

Action 5031