

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

Page | 1

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

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.

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 florany other significant watercourse	wing watercourse or
□Yes ⊠No	Within 200 feet of any lakebed, sinkho	le or playa lake
□Yes ⊠No	Within 300 feet from an occupied perm school, hospital, institution or church	nanent residence,
□Yes ⊠No	Within 500 feet of a spring or a private well used by less than five households watering purposes	
□Yes ⊠No	Within 1000 feet of any freshwater wel	l or spring
□Yes ⊠No	Within incorporated municipal boundar municipal freshwater well field covered ordinance adopted pursuant to Section	l under a municipal
□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.

Soil Sampling

				Juli Jai					1
Sample ID	Sample	Depth	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl
NMOCD Table 1 Closure Criteria 19.15.29			mg/kg 50 mg/kg	mg/kg 10 mg/kg	1000	mg/kg combined = mg/kg	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
	7	0-1	ND	ND	ND	ND	ND	ND	9730
S-1 2/26/2020	2/26/2020	2	ND	ND	ND	ND	ND	ND	432
		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
3-2	2/20/2020	2- R	ND	ND	ND	ND	ND	ND	368
		0-1	ND	ND	ND	ND	ND	ND	7330
S-3	2/26/2020	2	ND	ND	ND	ND	ND	ND	160
3-3	2/20/2020	3	ND	ND	ND	ND	ND	ND	80
		4	ND	ND	ND	ND	ND	ND	32
S-4	2/26/2020	0-1	ND	ND	ND	ND	ND	ND	4160
5-4	2/20/2020	2- R	ND	ND	ND	ND	ND	ND	112
		0-1	ND	ND	ND	ND	ND	ND	2000
S-5	2/26/2020	2	ND	ND	ND	ND	ND	ND	64
	1000	3	ND	ND	ND	ND	ND	ND	48

ND-Analyte Not Detected

Page |4

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.

Page | 5

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



<u>APPENDIX I</u>

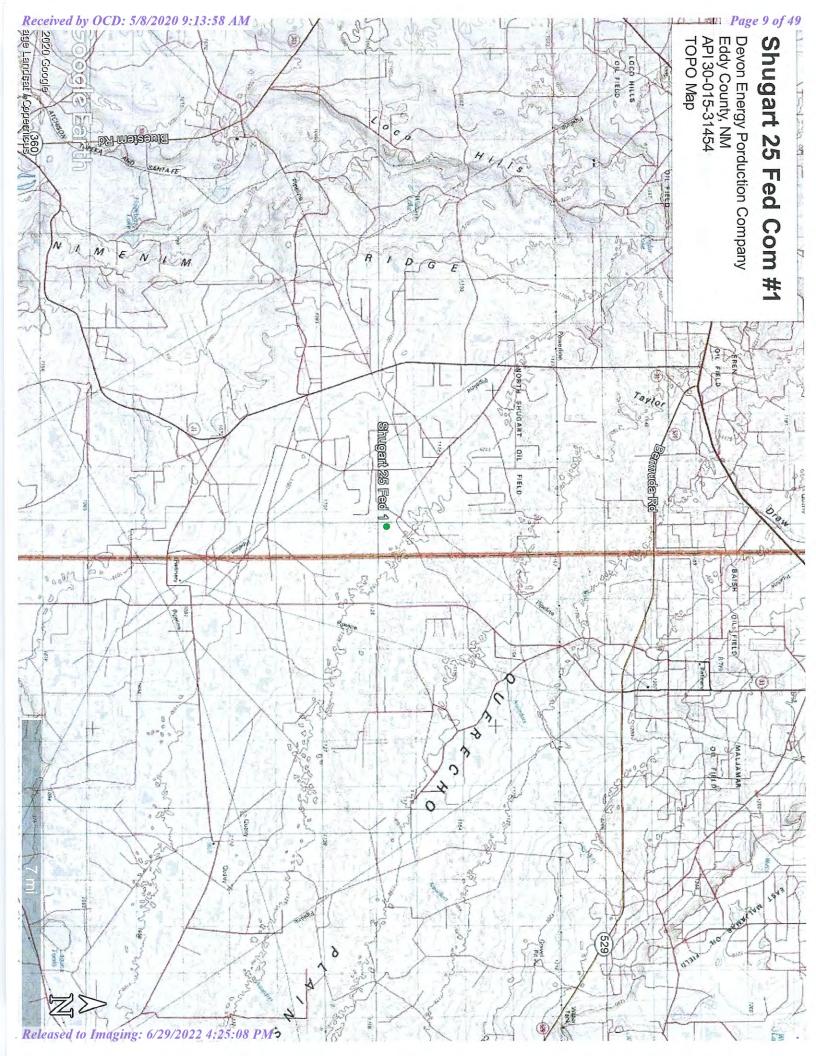
SITE MAP

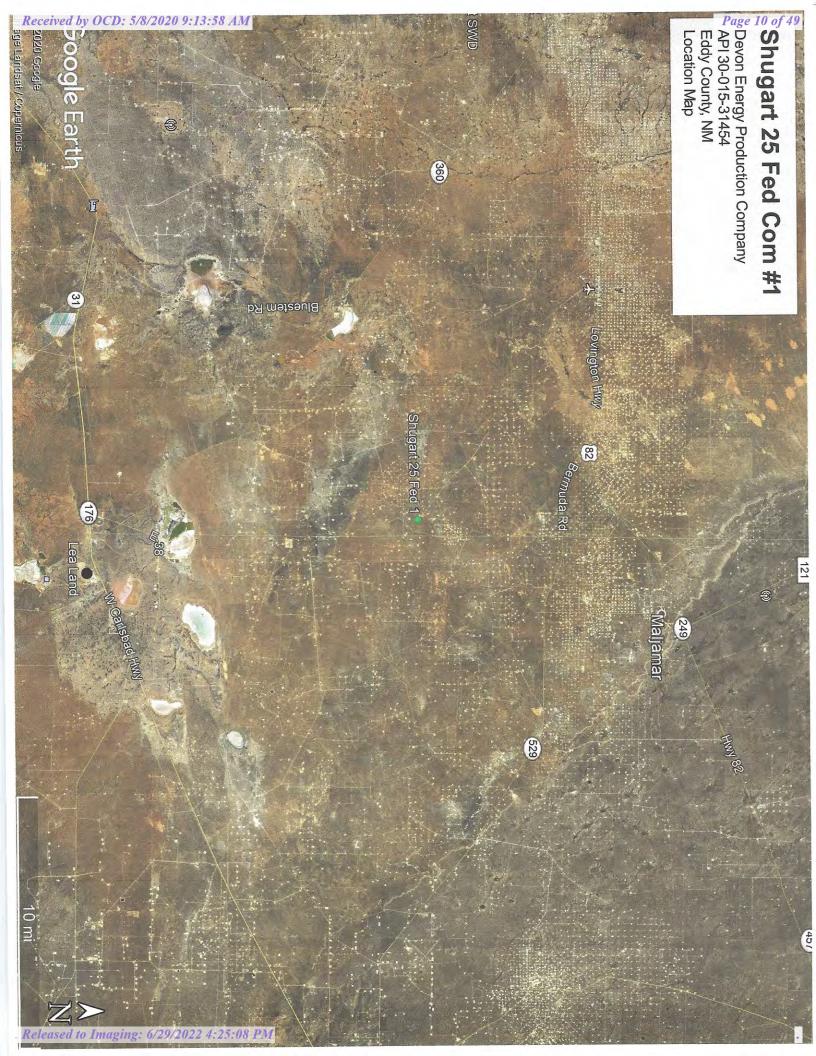
KARST MAP

TOPO MAP

LOCATION MAP









<u>APPENDIX II</u>

GROUNDWATER DATA

SOIL SURVEY

FEMA FLOOD ZONE



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

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

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

C=the file is closed)

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

(quarters are smallest to

largest)

(NAD83 UTM in meters)

(In feet)

		POD													
		Sub-		Q	Q	Q								V	Vater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Υ	DistanceDe	pthWellDep	thWaterCo	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	185	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	198	32E	613364	3613648	7586	70		
CP 01656 POD1		CP	LE	3	4	3	17	198	32E	613368	3613646 🌍	7590	70		
CP 00829 POD1		CP	LE		2	4	16	198	31E	606165	3614009*	7592	120		
CP 01656 POD3		CP	LE	3	4	3	17	198	32E	613374	3613633 🌍	7604	30		
CP 00640 POD1		CP	LE		2	2	19	198	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	198	31E	607166	3613354	7725	400		
CP 01554 POD2		CP	LE	2	2	1	22	198	31E	607165	3613322	7755	400		

Average Depth to Water:

330 feet

Minimum Depth:

102 feet

Maximum Depth:

460 feet

Record Count:

UTMNAD83 Radius Search (in meters):

Easting (X): 610104.484

Northing (Y): 3620499.205

Radius: 8000

*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.

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

Received by OCD: 5/8/2020 9:13:58 AM National Flood Hazard Layer FIRMette 250 Eddy/Gounty 350120 500 1,000 AREA OF MINIMAL FLOOD HAZARD 1,500 35015006750 Not Printed 2,000 Feet 1:6,000 32°42'45.27"N OTHER AREAS OF FLOOD HAZARD SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT SPECIAL FLOOD HAZARD AREAS Legend OTHER AREAS STRUCTURES | 1111111 Levee, Dike, or Floodwall MAP PANELS **FEATURES** GENERAL OTHER

Regulatory Floodway With BFE or Depth Zone AE, AO, AH, VE, AR

Without Base Flood Elevation (BFE) Zone A, V. A99



0.2% Annual Chance Flood Hazard, Area

Chance Flood Hazard Zone X Levee. See Notes, Zone X Future Conditions 1% Annual

Area with Reduced Flood Risk due to

Area with Flood Risk due to Levee Zone D

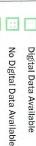
NO SCREEN Area of Minimal Flood Hazard Zone X

Area of Undetermined Flood Hazard Zon

Channel, Culvert, or Storm Sewer

Water Surface Elevation Cross Sections with 1% Annual Chance

Coastal Transect Baseline Limit of Study Base Flood Elevation Line (BFE) Coastal Transect Jurisdiction Boundary



Unmapped

Hydrographic Feature Profile Baseline

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below.
The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NIFHL web services provided by FEMA. This map was exported on 1/23/2020 at 1:14:55 PM and does not reflect changes or amendments subsequent to this date and time. The NIFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



APPENDIX III

INITIAL C-141's

Form C-141

<u>District I</u> 1625 N French Dr., Hobbs, NM 88240 District II 1301 W Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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

Revised March 17, 1999

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

0-015-	3/454	C	Rele	ease Notific	cation	and Co	rrective A	ction		PASS		
	147497			Ol	PERAT				Rep	ort 🔀 Final Repo		
		y Devon E	nergy	6/37			Roger Herna					
Address	P.O. Bo	x 250				Felephone	No. 575-7	48-5238				
Artesia, N	NM 8821	1										
Facility N	Name Shi	ugart 25 Fe	ed #1		J	Facility T	ype Oil We	ell				
Surface C	Owner			Mineral	Owne	r		Le	ease N	No.		
				LOC	ATION	OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West I	ine	County		
	25	T18S	31E	1980	South		1980	West		Eddy		
	_l		L	NIAT	THOR	OF RELI	FACIF	1				
ype of Rele	'7 K	1 600	864	INAL	UKE		Release 55bbls	Vol	ıme Re	ecovered 55bbls		
Source of Re		01/ 926	rw				lour of Occurrence			Hour of Discovery 2/2/12,		
Tank Overflow						2/2/12, 8:1	9 AM	8:19				
Vas Immed	liate Notice		10.00		Tell M	If YES, To			48	i onn		
		\boxtimes	Yes [No Not R	lequired	Justin Frye	, BLM – Eddy C	County & Mik	e Brato	cher, OCD		
By Whom?						Date and Hour 2/3/12, 8:05 AM						
Vas a Wate	ercourse Rea	ched?	Yes 2	7 No		If YES, Vo	olume Impacting	the Watercour	rse.	RECEIVED		
f a Waterco	ourse was In	npacted, Descr	ribe Fully.	*						FEB 0 8 2012 NMOCD ARTESIA		
Upon arriva recovering 3 Describe Ar	al at the Shu 35 bbls of O		lease oper of water. Action Ta	ator discovered a Vacuum truck w ken.*				s spill that was	s kept v	within the containment,		
hereby cer egulations public healt should their or the environ	rtify that the all operator th or the env r operations conment. In	s information g s are required vironment. The have failed to	given abov to report a e acceptar adequatel OCD acce	e is true and com and/or file certain ace of a C-141 rep y investigate and	release n ort by the remediate	otifications a e NMOCD m e contaminat	nd perform corre- narked as "Final Ri ion that pose a thi	ctive actions f Report" does n reat to ground	for rele ot relie water,	uant to NMOCD rules and ases which may endanger eve the operator of liability surface water, human health ampliance with any other		
							OIL CON	SERVAT	ION	DIVISION		
Signature: (Gracie B	ustamante	2/					11	<i>i</i> /			
					1	Approved by	DSimeduperx	18/1/4 2) KARY	enter_		
rinted Name: Gracie Bustamante						Approval Date: FEB 1 6 2012 Expiration Date: NA						
	tract Field T	'ech				Approval Da	FEB 16 2	ZU1Z Expir	ation I	Date: NA		
Title: Cont	tract Field T	ech (575) 746-55	559			Approval Da	te: 16 Approval: NIA	Expir		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

HOSS OCD State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

AUG 1 5 20 Ppil Conservation Division

<u>District IV</u> I 220 S. St. Frai	ncis Dr., Santa	Fe, NM 87505	69=			h St. France Fe, NM 875						
		Ē					orrective A	ction			-	
			Here	abe I tolli	cano	OPERA'			al Damout	□ □ :1	Daniel	
Name of Co	omnany De	von Energy	,			Contact R			al Report	Final	Repo	
		Artesia, NN					No. 575- 390-54	35				
		t 25 Federa			-27	Facility Typ	-	33				
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burrace Ov	viici. I edel	aı			107. 7		Carlotte V	APINO). 30-015	31454		
LOCATION												
Unit Letter K	Section 25	Township 18S	Range 31E	Feet from the 1980	100000000000000000000000000000000000000	h/South Line SOUTH	Feet from the 1980	East/West Line WEST	County EDDY	è		
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				NAT	TURE	OF REL	EASE					
Type of Rele	ease Ball val	ve to load lin	e left ope	n_ 6	3 4 2 7 3 1 1 1	Volume of	Release: 7 bbls	Volume	Recovered:	0		
Source of Re	elease: Prod	uced Water		500		The same of the contract of the	lour of Occurrenc		Hour of Dis			
Was Immedi	inte Notice C	ivan?				08/08/14 If YES, To	3:30 AM	08/08/14	3:30 AN	I		
was mineur	rate Notice C	And the second second	Yes	No □ Not R	equired	Rudy Zur Assistant	iga-Foreman/Hu Foreman/Amanc	bert Perry-Night io Cruz-EHS/Roy CD/Jeff Roberts	White-Ser			
By Whom?	Freddy Ran	urez/Jason A	nderson -	- Night lease op	erators	Date and I	Hour: 08/08/14	3:30 AM				
Was a Watercourse Reached? ☐ Yes ☒ No						If YES, V	olume Impacting t	he Watercourse.				
On August	8, 2014 at th		Federal	#1, a leak occur				r line causing an d to repair the po		bbls of produ	uced	
Describe An The area af activities.	ea Affected a	and Cleanup A	Action Tak y was 7 fee	en.* et wide by 12 fee	et long.	Diversified v	was contacted to p	perform the site a	ssessment :	and soil samp!	ling	
regulations a public health should their or the enviro	all operators h or the envir operations h onment. In a	are required to ronment. The ave failed to	o report are acceptant adequately OCD accep	nd/or file certain ce of a C-141 reprinted investigate and	release ort by t remedia	notifications a he NMOCD nate contaminat	nd perform correct parked as "Final R ion that pose a thracter of the operator of	nderstand that pur tive actions for re eport" does not re eat to ground wate responsibility for a	leases which lieve the ope er, surface we compliance	n may endange erator of liabili ater, human he with any other	er ity ealth	
Signature:	Signature: Shammy Ingram						OIL CONSERVATION DIVISION					
Printed Nam	ne: Shammy	Ingram				Approved by Environmental Specialist:						
Title: Field	Admin Sup	port	6			Approval Da	ite: 8-15-14	Expiration	Date: 10	-17-14		
E-mail Add	ress: Shamn	ny.Ingram@e	dvn.com			Conditions of	f Approval:	eg ond.	Attache	d 🔲		
Date: Augu				575-748-0174		Peliand	i grachere	area as por	IRP-	3245		
Attach Add	itional She	ets If Necess	sary			N no Ce (-141	58 melhote 9 mdes . S. by 10-17-11	fait fiel	0g NT P 7	11 613 01422 75 01422	37 130	

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

State of New Mexico
Energy Minerals and Natural Resources

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

ARTESIA DISTRICT Revised August 8, 2011

Samuel Office in accordance with 19.15.29 NMAC.

RECEIVED

			Rele	ease Notific	cation	and Co	rrective A	Section 1	LCLIVL	U		
NAB142	5241	401				OPERAT	OR			al Report		Final Report
		von Energy	,	10137		Contact Ru	dy Zuniga					
		Artesia, NM					lo. 575- 390-5 4	135				
Facility Na	me Shugai	rt 25 Federa	l Com 1		1	Facility Typ	e Gas					
Surface Ow	mer: Feder	ral		Mineral (Owner				API No	. 30-015-	31454	
				LOCA	ATION	OF REI	LEASE					
Unit Letter K	Section 25	Township 18S	Range 31E	Feet from the 1980	North/	South Line OUTH	Feet from the 1980	S. 12-4147 July	Vest Line EST	County EDDY		
						_Longitude				1		
m cn.	N. 11				TURE	OF RELI						
Source of Re	ase Ball va	lve to load lir	ie left ope	n			Release: 7 bbls			Recovered:		
Source of Ke	elease: Prod	ucea water		÷		08/08/14	our of Occurrence 3:30 AM	ce	08/08/14	Hour of Dis 3:30 AM		
Was Immedi	ate Notice (Given?				If YES, To			20100117	2.00 / 111	-	
	-		Yes [No Not R	equired	Assistant I	iga-Foreman/Hi Foreman/Amand Mike Bratcher-C	cio Cruz	-EHS/Roy	White-Ser		
By Whom? I	Freddy Ran	nirez/Jason A	nderson	- Night lease op	erators		lour: 08/08/14	3:30 A				
Was a Water	course Read		Yes 🗵	No		If YES, Vo	lume Impacting	the Wate	ercourse.			
On August	8, 2014 at th		5 Federal	n Taken.* #1, a leak occur re was no produc							bbls of	f produced
		and Cleanup and Cleanup de the facility		ken.* et wide by 12 fee	et long. l	Diversified w	as contacted to	perforn	1 the site a	ssessment :	and soil	sampling
regulations a public health should their or the environ	all operators or the envi operations honment. In a	are required to ronment. The nave failed to	o report a acceptan adequatel OCD acce	e is true and comp nd/or file certain ce of a C-141 rep y investigate and ptance of a C-141	release nort by the remediate	otifications a e NMOCD m e contaminati	nd perform corre arked as "Final F on that pose a th	ctive act Report" or reat to g	ions for re- loes not re- round water	eases which lieve the oper, surface w	n may e erator o vater, hu	ndanger f liability ıman health
							OIL CON	SERV	ATION	DIVISI	QN	- inmuting country
Signature: S	shammy li	ngram							11	//		
Printed Nam	e: Shammy	Ingram				Approved by	Environmental S	Specialis	1://Ze	& u		
Title: Field	Admin Sup	port				Approval Da	te: 9/9/14	/	Expiration	Date: /	NA	/
E-mail Addr	ress: Shamn	ny.Ingram@	dvn.com			Condisions	of Annequali			Attache	дП	
Date: Augu				575-748-0174			of Approval: oper OCD Rule	& Guid	elines.	Attache	чЦ	
Attach Add	itional She	ets If Neces	sary	•		SUBMIT REM	MEDIATION PRO	OPOSA	LNO		21	3P-2474

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

Release Notification

Responsible Party

Responsible I	Party Devor	n Energy Product	ion Company	OGRID 61	OGRID ₆₁₃₇			
Contact Nam			,	Contact Telephone 575-748-0176				
		davis@dvn.com	1	Incident#	(assigned by OCD) NAB19	14957336		
		6488 Seven Riv						
			Location of	of Release So	nurce			
atitude 32	.716777	78			-103.8251343			
Site Name Sh	nugart 25 f	Fed Com #001		Site Type C	Gas			
Date Release				API# (if app	licable) 30-015-31454			
Unit Letter	Section	Township	Range	Coun	ty			
K	25	18S	31E	Edd	ly			
	Materia	al(s) Released (Select al	Nature and that apply and attach of	2,10,10,10,10,10,10,10,10,10	justification for the volumes pro	ovided below)		
Crude Oi		Volume Release			Volume Recovered (bbls)			
Produced	Water	Volume Release	d (bbls) 106.6		Volume Recovered (bbls) 105			
			ion of total dissolv water >10,000 mg/		DS) Yes No			
Condensa	ate	Volume Release	d (bbls)		Volume Recovered (bb	ls)		
☐ Natural C	Gas	Volume Release	d (Mcf)		Volume Recovered (Me	ef)		
Other (de	escribe)	Volume/Weight	Released (provide	units)	Volume/Weight Recovered (provide units)			
Cause of Re	the p	er transfer pum Jump. Affected Jainment 25'x10	area inside co	intainment 30	'x60'x5". Affected a	k from multiple spots or rea outside of		

Form C-141

Page 2

State of New Mexico Oil Conservation Division

	0)
Incident ID	NAB1914957336
District RP	2RP-5454
Facility ID	
Application ID	pAB1914956037

Was this a major release as defined by 19.15.29.7(A) NMAC? Yes No			
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email notification sent to Debhorah Mckinne, Crystal Weaver, Robert Hamlet, Victoria Venegas, Mi Bratcher and Jim Griswold from Wesley Mathews on 5/13/19. Initial Response The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury The source of the release has been secured to protect human health and the environment. Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. All free liquids and recoverable materials have been removed and managed appropriately. If all the actions described above have not been undertaken, explain why: Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remehas begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release ow within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. Thereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules are regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may end 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 are required to report and/or file certain release notifications and perform corrective actions for releases which may end public health or the environment.			
FYES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email notification sent to Debhorah Mckinne, Crystal Weaver, Robert Hamlet, Victoria Venegas, Mistracher and Jim Griswold from Wesley Mathews on 5/13/19. Initial Response Initial Response The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury The source of the release has been scoured to protect human health and the environment. Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. All free liquids and recoverable materials have been removed and managed appropriately. If all the actions described above have not been undertaken, explain why: Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediate heat of the containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. Thereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules are regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may end 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.		This is considered a major s	spill because it is over 25 BBLS.
FYES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Imail notification sent to Debhorah Mckinne, Crystal Weaver, Robert Hamlet, Victoria Venegas, Mi Iratcher and Jim Griswold from Wesley Mathews on 5/13/19. Initial Response The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury The source of the release has been stopped. The impacted area has been secured to protect human health and the environment. Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. All free liquids and recoverable materials have been removed and managed appropriately. fall the actions described above have not been undertaken, explain why: Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remeas begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release or within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation in the pose at the actions and perform corrective actions for releases which may endublic health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations are required to report and/or file certain release notifications and perform corrective actions for releases which may endublic health or the environment.			
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Initial Response Interesponsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury The source of the release has been stopped. The impacted area has been secured to protect human health and the environment. Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. All free liquids and recoverable materials have been removed and managed appropriately. fall the actions described above have not been undertaken, explain why: Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remeans begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release or within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. The report of that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules are required to report and/or file certain release notifications and perform corrective actions for releases which may end sublic health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations alied to addeduately investigate and remediate containmation that propose a threat to groundwater, surface water, human health or the environment.			
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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 are regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endepublic health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.	has begun, please attach	a narrative of actions to date. If ren	nedial efforts have been successfully completed or if the release occurre
addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local land/or regulations.	hereby certify that the infregulations all operators are bublic health or the environaled to adequately investigated in, OCD acceptance	formation given above is true and complete required to report and/or file certain releasement. The acceptance of a C-141 report bigate and remediate contamination that pos	e to the best of my knowledge and understand that pursuant to OCD rules and ase notifications and perform corrective actions for releases which may endanger by the OCD does not relieve the operator of liability should their operations have se a threat to groundwater, surface water, human health or the environment. In
Printed Name: Kendra DeHoyos Title: EHS Associate	Printed Name: Kend	lra DeHoyos	Title: EHS Associate
Signature: Kendra DeHoyos Date: 5/21/2019			
kendra.dehoyos@dvn.com Telephone: 575-748-3371	email: kendra.de	hoyos@dvn.com	Telephone: <u>575-748-3371</u>
OCD Only Received by: Amalia Bustamante Date: 5/29/2019		a Rustamanto	5/29/2019

District I
1625 N. French Dr., Hobbs, NM 88240
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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

	Party Devon	Energy Product	ion Company	OGRID 61	37			
Contact Nam				Contact Telephone 575-748-0176				
		davis@dvn.com	1	Incident # (assigned by OCD)				
		6488 Seven Riv						
atitude 32	.71680		Location of	Longitude .	-103.82510			
Site Name St	nugart 25 F	-ederal #1		Site Type C	Dil			
		11/27/2019		API# (if app				
Unit Letter	Section	Township	Range	Coun	Co			
K	25	18S	31E	Edd	ly			
			Nature and V	olume of I				
	Materia	l(s) Released (Select all	Nature and V	olume of I	Release justification for the volumes provided below) Volume Recovered (bbls)			
Crude Oi	Materia 1	l(s) Released (Select all Volume Released	Nature and V that apply and attach calcud (bbls)	olume of I	justification for the volumes provided below) Volume Recovered (bbls)			
	Materia 1	l(s) Released (Select all Volume Released Volume Released Is the concentrati	Nature and V that apply and attach calculd (bbls) d (bbls) 400 ion of total dissolved s	olume of I	justification for the volumes provided below)			
Crude Oi	Materia 1 1 Water	l(s) Released (Select all Volume Released Volume Released Is the concentrati	Nature and V that apply and attach calculd (bbls) d (bbls) 400 ion of total dissolved swater >10,000 mg/l?	olume of I	Volume Recovered (bbls) Volume Recovered (bbls)			
Crude Oi	Materia 1 I Water ate	Volume Released Volume Released Volume Released Is the concentration the produced with the produced	Nature and V that apply and attach calculd (bbls) d (bbls) 400 ion of total dissolved swater >10,000 mg/l? d (bbls)	olume of I	iustification for the volumes provided below) Volume Recovered (bbls) Volume Recovered (bbls) 400 Yes No			
Crude Oi Produced Condensa	Materia 1 I Water ate Gas	Volume Released Is the concentration the produced volume Released Volume Released Volume Released Volume Released	Nature and V that apply and attach calculd (bbls) d (bbls) 400 ion of total dissolved swater >10,000 mg/l? d (bbls)	olume of I	justification for the volumes provided below) Volume Recovered (bbls) Volume Recovered (bbls) 400 Yes No Volume Recovered (bbls)			

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major		e responsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	This is considered a major	release because it is over 25 BBLS.
Yes No		
		? To whom? When and by what means (phone, email, etc)?
Email notification s and Mike Bratcher	ent to blm_nm_cfo_spill@bl from Amanda Davis on 11/2	lm.gov, Robert Hamlet, Jim Griswold, Victoria Venegas 27/2019.
	Init	ial Response
The responsible	e party must undertake the following actions in	mmediately unless they could create a safety hazard that would result in injury
■ The source of the re	lease has been stopped.	
■ The impacted area h	as been secured to protect human he	alth and the environment.
Released materials l	nave been contained via the use of be	rms or dikes, absorbent pads, or other containment devices.
All free liquids and	recoverable materials have been rem	oved and managed appropriately.
has begun, please attack within a lined containm. I hereby certify that the in regulations all operators at public health or the environ failed to adequately investi-	a a narrative of actions to date. If reent area (see 19.15.29.11(A)(5)(a) No formation given above is true and complete required to report and/or file certain relement. The acceptance of a C-141 reportigate and remediate contamination that p of a C-141 report does not relieve the open	mence remediation immediately after discovery of a release. If remediation temedial efforts have been successfully completed or if the release occurred MAC), please attach all information needed for closure evaluation. The tet to the best of my knowledge and understand that pursuant to OCD rules and lease notifications and perform corrective actions for releases which may endanger to by the OCD does not relieve the operator of liability should their operations have ose a threat to groundwater, surface water, human health or the environment. In perator of responsibility for compliance with any other federal, state, or local laws Title: EHS Associate
		Date: 12/4/2019
Signature: Kendr		
email: kendra.de	house adun com	Telephone: 575-748-3371
	iloyos@dvii.com	Telephone:
OCD Only	enoyos@dvii.com	Telephone:
	enoyos@dvii.com	



APPENDIX IV

LABORATORY DATA



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 accredited 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed By: MS

Received:

BTEX 8021B

03/02/2020

Reported:

03/05/2020

Project Name:

SHUGART 25 FED 1

Project Number:

700794.304.01

86.5 %

100 %

44.3-144

42.2-156

Project Location:

Sampling Date:

02/26/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

DEVON - LEA CO NM

Sample ID: W. COMP (H000660-01)

	51	-3							
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	97.7	% 73.3-12	9						
Chloride, SM4500Cl-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	
				ND					

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Surrogate: I-Chlorooctane

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Page 2 of 23



Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To: (575) 745-8905

Received:

BTEX 8021B

03/02/2020

Reported:

03/05/2020 SHUGART 25 FED 1 Project Name:

Project Number:

700794.304.01

mg/kg

DEVON - LEA CO NM

Sampling Date:

Sampling Type:

02/26/2020

Sampling Condition:

Soil Cool & Intact

Tamara Oldaker

Analyzed By: MS

Sample Received By:

Project Location:

Sample ID: N. COMP (H000660-02)

A CONTRACTOR OF THE PROPERTY O									
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	99.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	% 44.3-1-	14						
Surrogate: 1-Chlorooctadecane	92.8	% 42.2-12	56						

Cardinal Laboratories

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Page 3 of 23



Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

(575) 745-8905 Fax To:

Received: Reported:

Project Name:

03/02/2020 03/05/2020

103 %

42.2-156

SHUGART 25 FED 1 700794.304.01

Project Number: Project Location: DEVON - LEA CO NM Sampling Date:

02/26/2020

Sampling Type: Sampling Condition:

Soil Cool & Intact

Sample Received By: Tamara Oldaker

Sample ID: E. COMP (H000660-03)

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	1.89	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	99.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d 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	
				ND					

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Page 4 of 23



Analytical Results For:

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

Fax To:

02/26/2020

Reported:

Received:

BTEX 8021B

03/02/2020 03/05/2020 Sampling Date: Sampling Type:

Soil

Project Name:

SHUGART 25 FED 1

Sampling Condition:

Cool & Intact

Project Number:

700794.304.01

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

DEVON - LEA CO NM

Sample ID: S. COMP (H000660-04)

TPH 8015M	mg,	/kg	Analyze	d By: MS					
Chloride	47600	16.0	03/03/2020	ND	432	108	400	0.00	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Surrogate: 4-Bromofluorobenzene (PIL	98.4	% 73.3-12	9						
Total BTEX	<0.300	0.300	03/03/2020	ND					
Total Xylenes*	< 0.150	0.150	03/03/2020	ND	5.52	92.0	6.00	2.81	
Ethylbenzene*	< 0.050	0.050	03/03/2020	ND	1.91	95.4	2.00	2.84	
Toluene*	< 0.050	0.050	03/03/2020	ND	1.90	94.9	2.00	2.81	
Benzene*	<0.050	0.050	03/03/2020	ND	1.89	94.6	2.00	3.00	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Analyzed By: MS

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 87.2% 44.3-144 Surrogate: 1-Chlorooctadecane 90.1% 42.2-156

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Page 5 of 23



Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

03/02/2020

03/05/2020

Reported: Project Name: Project Number:

SHUGART 25 FED 1 700794.304.01

Project Location:

DEVON - LEA CO NM

Sampling Date: 02/26/2020 Soil

Sampling Type: Sampling Condition:

Cool & Intact Tamara Oldaker Sample Received By:

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

BTEX 8021B	mg	/kg	Analyz	ed By: MS
Analyte	Result	Reporting Limit	Analyzed	Method Bl

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	Analyzed 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-Chlorooctane Surrogate: 1-Chlorooctadecane 91.2%

93.4%

42.2-156

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Page 6 of 23



Analytical Results For:

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

Received: Reported: 03/02/2020

03/05/2020

SHUGART 25 FED 1 700794.304.01

Project Number: Project Location:

Project Name:

DEVON - LEA CO NM

Sampling Date:

02/26/2020

Sampling Type: Sampling Condition: Soil

Sample Received By:

Cool & Intact

Tamara Oldaker

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

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	99.8	% 73.3-12	9						
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	14						
Surrogate: 1-Chlorooctadecane	87.9	% 42.2-15	56						

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Page 7 of 23



Analytical Results For:

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

Received:

03/02/2020

Reported: Project Name: 03/05/2020 SHUGART 25 FED 1 700794.304.01

Project Number: Project Location:

DEVON - LEA CO NM

Sampling Date:

Sampling Type: Sampling Condition:

Sample Received By:

02/26/2020 Soil

Cool & Intact

Tamara Oldaker

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

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

98.2 %

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	192	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

92.2%

44.3-144

Surrogate: 1-Chlorooctadecane

94.1%

42.2-156

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Page 8 of 23



Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

(575) 745-8905 Fax To:

Received: Reported: 03/02/2020 03/05/2020

Project Number:

Project Name: SHUGART 25 FED 1 700794.304.01 Project Location: DEVON - LEA CO NM Sampling Date:

02/26/2020 Soil

Sampling Type: Sampling Condition: Sample Received By:

Cool & Intact

Tamara Oldaker

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

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 0.050 <0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	Result Reporting Limit Analyzed <0.050 0.050 03/03/2020 <0.050 0.050 03/03/2020 <0.050 0.050 03/03/2020 <0.150 0.150 03/03/2020	Result Reporting Limit Analyzed Method Blank <0.050 0.050 03/03/2020 ND <0.050 0.050 03/03/2020 ND <0.050 0.050 03/03/2020 ND <0.150 0.150 03/03/2020 ND	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

99.0%

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	96.0	16.0	03/03/2020	ND	432	108	400	0.00	
ТРН 8015М	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 Surrogate: 1-Chlorooctadecane 91.2%

44.3-144

93.1%

42.2-156

Cardinal Laboratories

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Page 9 of 23



Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received: Reported: 03/02/2020

03/05/2020

Project Name: Project Number: SHUGART 25 FED 1 700794.304.01

88.4%

42.2-156

Project Location:

DEVON - LEA CO NM

Sampling Date:

02/26/2020

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg/l	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	99.3 9	% 73.3-12	9						
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	
		10.0	03/03/2020	ND	192	96.0	200	1.25	
DRO >C10-C28*	<10.0	10.0	400 M20 PACE						

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Page 10 of 23



Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To: (575) 745-8905

Received:

BTEX 8021B

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

mg/kg

Sample Received By:

Tamara Oldaker

Analyzed By: MS

Project Location: DEVON - LEA CO NM

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

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	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	368	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	Qualifie
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	14						
Surrogate: 1-Chlorooctadecane	92.4	% 42.2-15	6						

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Page 11 of 23



Analytical Results For:

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

Fax To:

Received:

03/02/2020

Reported: Project Name: 03/05/2020 SHUGART 25 FED 1

Project Number:

700794.304.01

Project Location: DEVON - LEA CO NM Sampling Date:

02/26/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

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	99.6	% 73.3-12	9						
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	14						
Surrogate: 1-Chlorooctadecane	89.1	% 42.2-15	6						

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Page 12 of 23



Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To: (575) 745-8905

Received:

BTEX 8021B

03/02/2020

Reported:

03/05/2020

Project Name: Project Number: SHUGART 25 FED 1 700794.304.01

mg/kg

Project Location:

DEVON - LEA CO NM

Sampling Date:

02/26/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

		-							
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	% 73.3-12	9						
Chloride, SM4500CI-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	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	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	% 44.3-1-	14						
Surrogate: 1-Chlorooctadecane	91.1	% 42.2-15	56						

Analyzed By: MS

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Page 13 of 23



Analytical Results For:

TALON LPE CHRIS JONES 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed By: MS

Received:

03/02/2020

Reported:

03/05/2020

Project Name:

SHUGART 25 FED 1 700794.304.01

mg/kg

84.0%

85.6%

44.3-144

42.2-156

Project Number: Project Location:

DEVON - LEA CO NM

Sampling Date:

02/26/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B	
------------	--

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	98,8 %	% 73.3-12	9						
Chloride, SM4500CI-B	mg/l	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	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	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					

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Surrogate: 1-Chlorooctane
Surrogate: 1-Chlorooctadecane

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Page 14 of 23



Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To: (575) 745-8905

Received:

03/02/2020

Reported: 03/05/2020

Project Name: Project Number: SHUGART 25 FED 1 700794.304.01

Project Location:

DEVON - LEA CO NM

Sampling Date:

02/26/2020 Soil

Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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	Qualifie
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					

Chloride, SM4500Cl-B	mg/kg	Analyzed 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	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	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% 44.3-144 Surrogate: 1-Chlorooctadecane 85.8 % 42.2-156

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Page 15 of 23



Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

(575) 745-8905 Fax To:

Received:

03/02/2020

Sampling Date:

02/26/2020

Reported:

03/05/2020

Sampling Type: Sampling Condition:

Soil Cool & Intact

Project Name: Project Number: SHUGART 25 FED 1 700794.304.01

Sample Received By:

Tamara Oldaker

Project Location:

DEVON - LEA CO NM

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

BTFX	8021B
DILA	OULID

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, 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		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	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%

44.3-144

Surrogate: 1-Chlorooctadecane

87.2 %

42.2-156

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Page 16 of 23



Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To: (575) 745-8905

Received: Reported: 03/02/2020

Sampling Date:

02/26/2020

03/05/2020

Sampling Type:

BS

% Recovery

Blank

Soil

True Value QC

Project Name:

SHUGART 25 FED 1

Sampling Condition:

Cool & Intact

Project Number:

700794.304.01

Sample Received By:

Tamara Oldaker

RPD

Qualifier

Project Location:

DEVON - LEA CO NM

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

80.	21B	mg	Analyzed By: MS			
	Analyte	Result	Reporting Limit	Analyzed	Method E	

Benzene* 0.050 03/03/2020 ND 1.92 95.9 2.00 1.68 < 0.050 1.45 Toluene* < 0.050 0.050 03/03/2020 ND 1.92 96.1 2.00 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 < 0.300 0.300 03/03/2020 ND

Surrogate: 4-Bromofluorobenzene (PIL

99.2%

73.3-129

Chloride, SM4500CI-B	mg	mg/kg		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%

44.3-144

Surrogate: 1-Chlorooctadecane

80.4%

42.2-156

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Page 17 of 23



Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received: Reported:

Project Name:

03/02/2020 03/05/2020

SHUGART 25 FED 1

Project Number: Project Location: 700794.304.01

DEVON - LEA CO NM

Sampling Date:

02/26/2020

Soil

Sampling Condition: Sample Received By:

Sampling Type:

Cool & Intact

Tamara Oldaker

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

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

100 %

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	2000	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	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 %

44.3-144

Surrogate: 1-Chlorooctadecane

84.6%

42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celego Freeze

Celey D. Keene, Lab Director/Quality Manager

Page 18 of 23



Analytical Results For:

TALON LPE **CHRIS JONES** 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed By: MS

Received:

03/02/2020

Sampling Date:

02/26/2020

Reported:

BTEX 8021B

03/05/2020

Sampling Type:

Soil Cool & Intact

Project Name:

SHUGART 25 FED 1 700794.304.01

Sampling Condition: Sample Received By:

Tamara Oldaker

Project Number:

mg/kg

Project Location: DEVON - LEA CO NM

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

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	% 73.3-12	9						
Chloride, SM4500CI-B	oride, SM4500Cl-B mg/kg		Analyzed 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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Page 19 of 23



Analytical Results For:

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 - 5 3' (H000660-19)

BTEX 8021B

mg/kg

Analyzed By: MS

lyte	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					
ly	rte	<0.050 <0.050 <0.050 <0.150	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Surrogate: 4-Bromofluorobenzene (PIL

98.7%

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	48.0	16.0	03/03/2020	ND	432	108	400	0.00	
TPH 8015M mg/kg		/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	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: I-Chlorooctane

87.9 %

44.3-144

Surrogate: 1-Chlorooctadecane

91.1%

42.2-156

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Page 20 of 23



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.

Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 21 of 23

CLIENT: Talon Artesia

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Analytical Report

Lab Order 2003045

Date Reported: 3/5/2020

3/3/2020 10:58:47 AM

3/3/2020 10:58:47 AM

3/3/2020 10:58:47 AM

3/3/2020 10:58:47 AM

B66977

B66977

B66977

B66977

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S-8 0'

 Project:
 Devon State Jr 1
 Collection Date: 2/28/2020 10:10:00 AM

 Lab ID:
 2003045-008
 Matrix: SOIL
 Received Date: 3/3/2020 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 3/3/2020 12:39:19 PM 50837 EPA METHOD 8015M/D: DIESEL RANGE 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) 15000 4800 mg/Kg 100 3/3/2020 2:19:33 PM 50823 Surr: DNOP 0 55.1-146 %Rec 100 3/3/2020 2:19:33 PM S 50823 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) 460 20 mg/Kg 5 3/3/2020 10:58:47 AM G66977 Surr: BFB 621 66.6-105 S %Rec 5 3/3/2020 10:58:47 AM G66977 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene 0.11 0.099 mg/Kg 5 3/3/2020 10:58:47 AM B66977

1.1

1.8

12

115

0.20

0.20

0.40

80-120

mg/Kg

mg/Kg

mg/Kg

%Rec

5

5

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 Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

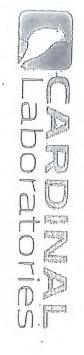
J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 8 of 20

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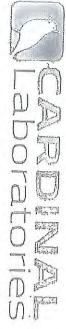


101 East Warland, Hobbs, NW 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: 1 BLON CPF

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	The state of the s	TALON CPE				AMALYSIS SISTEMA	
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	Address: 408	W. TEXAS AVE	,	Company: Think I se	70		
	GIVE ARTESIA	B State: NM	1 Zip: 68210				
	Phone ※ 515-651-6977	(63)-6977 Fax: 株:		Address:			
e.	Project崇 706	Project崇: TOD 1941 - 304 . DI Project Owners	TORUGA TIES	Gity			
	Project Name: SHUKBLT	11		Siate: Zib:	Š		
	Project Location	Project Location: LEA_COLINITY		*	IIE.	÷,	
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	Delivered By:	(Circle One)	Sample Condition	HO HO			
	Sampler - UPS -	Bus - Other: 5.35 .	ANS Pres Pres	4 Chinas		U	34

f Gardinal cannot accept verbal changes. Please fax written.changes to (675) 393-2326



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

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575-631-6977 Fax#:
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 8160

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	8160
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jharimon	None	6/29/2022