



GOODMAN 22 #4H
CLOSURE REPORT

API NO. 30-015-44366
RELEASE DATE: 05/20/2018
2RP-4787
INCIDENT ID: NAB1815939152
U/L K, SECTION 22, TOWNSHIP 19S, RANGE 25E
EDDY COUNTY

September 23, 2020

PREPARED BY:



#7 COMPRESS ROAD
ARTESIA, NM 88210



September 23, 2020

State of New Mexico Energy Minerals and Natural Resources Department
Oil Conservation Division – District II
C/O Mike Bratcher, Robert Hamlet, Victoria Venegas, Cristina Eads
811 S. First Street
Artesia, NM 88210

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

RE: Goodman 22 #4H – Closure Request
Date of Release: May 20, 2018
API No. 30-015-44366
U/L K, Section 22, Township 19S, Range 25E

To Whom it May Concern:

Spur Energy Partners has retained ESS (Energy Staffing and Services), Environmental & Regulatory Division to address the environmental compliance issued concerning the release detailed herein. Below you will find the site-specific information concerning the delineation and remediation process that has taken place at the Goodman 22 #4H location.

SITE BACKGROUND

The site is located in Eddy County, New Mexico; 13.99 miles southwest of Artesia, New Mexico. The release occurred when a truck loading crude oil on behalf of Holly-Frontier/Navajo Refinery overflowed the trailer tank on the subject location. The driver reported 30bbls of crude oil was released with no volume of fluid reported recovered by the trucking company. This release occurred during Percussion Operations and was later transferred to Spur Energy Partners, LLC. The release was called into Mike Bratcher and Crystal Weaver of the NMOCD on May 21st, 2018 at 9:35 a.m. A C141 form was submitted for record on June 5th of 2018 and was given a spill report number as 2RP-4787 and an incident number of NAB1815939152, which was submitted as record on June 5th, 2018.

GENERAL SITE CHARACTERISTICS

ESS conducted an extended groundwater study of the area, it has been determined that according to the New Mexico Office of the State Engineer, the depth to groundwater is 220' bgs, which is listed as RA 08986 and is the closest well within the 25 years of data. Please see the list below of groundwater wells found within 1147' from the site.

RA 02909: 520' (.098 miles) from the site, drilled in 1952 with groundwater at 130' bgs

RA 08986: 796' (.15 miles) from the site, drilled in 1995 with groundwater at 220' bgs

RA 03304: 1147' (0.21 miles) from the site, drilled in 1954 with groundwater at 60' bgs

Using the Table I, Closure Criteria for Soils Impacted by a Release dated 8/14/2018, this site falls under the site ranking of >100' bgs. Please see the chart below for the sampling criteria for this site:

Closure Criteria for Soil NMAC 19.15.29			
Depth	Constituent	Method	Limit
>100 feet	Chloride	EPA 300.0 OR SM4500 CL B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method	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

DISTANCE TO NEAREST POTABLE WATER WELL

Based on the review of the NMOSE Database, registered potable water wells are present within ½ a mile of the site. The closest well with viable water data in the last 25 years is the RA 08986, which measures .15 miles from the site. As seen on the OSE Map, two of the wells that are listed above fall inside the ½ mile radius of the Goodman 22 #4H and are listed below:

RA-02909 – drilled 1952 (domestic household well) shows to be .32 miles from the site and was originally drilled for oil test and is now used for stock purposes.

RA-08986 – drilled in 1995 (originally for irrigation), change of ownership moved to Yates Petroleum for prospecting or development of natural resource in 2001, permit was approved 12/03/2001. This well is .49 miles from the site.

Although the measurements from the NMOSE and OSE Pod Map are different these wells still fall within the ½ mile radius of the Goodman 22 #4H. With the information provided, it is safe to say that groundwater will not be a factor this site. Please see the OSE Map attached to this report.

DISTANCE TO NEAREST SURFACE WATER

Brantley Lake near Lakewood is the closest surface water to the Goodman 22 #4H. It is approximately 5.9 miles southeast of the site.

SOIL CHARACTERISTICS

According to the USDA Resources Conservation Service, the soil survey indicates the following (please see the soil map attached):

9.0% Reagan Loam, 0 to 3 percent slopes

KARST CHARACTERISTICS

ESS evaluated data from the NMOCD Share-Point for Karst Map Designations in reference to the Goodman 22 #4H. The site appears to be in the Medium Karst Area. Based on the site observations with the extent of the release margins, the potential for Karst formations in this area is of "medium potential". With the information provided in this report, Karst is a factor in determining the site characterization. Closure criteria moves to 0 to 51' depth to groundwater, please find the sampling closure criteria.

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

SOIL REMEDIAL/LINER ACTIONS LEVELS

ESS has provided sufficient data that this produced water release has impacted soil for the Goodman 22 #4H release and that the protocol is consistent with the remediation/abatement goals and objectives set forth in the NMOCD (New Mexico Oil Conservation Division) Closure Criteria for Soils Impacted by a Release, dated August 14, 2018.

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

Soil Sampling Procedures

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

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

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

Volatile Organics by EPA 8021B

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

Nonhalogenated Organics by EPA 8015D – GRO

- Gasoline Range Organics (C6-C10)

Nonhalogenated Organics by EPA 8015D – DRO/ORO

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

Anions by EPA 300.0/9056A

- Chloride

RELEASE INVESTIGATION DATA EVALUATION

Based on this release being caused by Holly Frontier/Navajo Refinery, the cleanup procedures were completed by them as a 3rd party incident. Percussion Energy hired White Buffalo Environmental to conduct delineation sampling to verify that proper remediation activities had taken place. Percussion Energy could not obtain direct information concerning the remediation activities. The remediation activities began immediately after the one call was placed and was remediated soon thereafter. The old rule delineation method was used to clean this site up as it was completed before the August 14th rule amendment.

On or before May 13, 2019, White Buffalo began delineation of the site. A total of ten vertical samples were placed and fully delineated. Each sample was tested in the field using the

titration method to test for Chloride contaminated soil and a PID meter to test for volatiles. As you can see in the sample data obtained by White Buffalo Environmental and confirmed by Cardinal Laboratories, the final samples met the NMOCD Rules and Regulations prior to the amendment dated August 14th, 2018. Below you will find the delineation sample data along with the lab analysis in yellow.

SP ID	Depth	Titre	PID	L-BTEX	L-DRO	L-ORO	L-GRO	L-TPH	L-CHL
SP 1	SURF	720							
	1'	160							
	2'	160							
	3'	320							
	4'	720		<0.300	<10	<10	<10	<30	672
SP 2	SURF	400							
	1'	320							
	2'	320		<0.300	<10	<10	<10	<30	48
SP 3	SURF	320							
	1'	480							
	2'	80							
	3'	240							
	4'	320		<0.300	<10	<10	<10	<30	96
SP 4	SURF	320							
	1'	320							
	2'	160		<0.300	<10	<10	<10	<30	32
SP 5	SURF	560							
	1'	400							
	2'	240		<0.300	15.9	<10	<10	35.9	32
SP 6	SURF	880							
	1'	480							
	2'	560		<0.300	<10	<10	<10	<30	448
SP 7	SURF	800							
	1'	340							
	2'	160		<0.300	<10	<10	<10	<30	64
SP 8	SURF	800							
	1'	320							
	2'	160		<0.300	<10	<10	<10	<30	16
SP 9	SURF	400							

	1'	240							
	2'	240		<0.300	<10	<10	<10	<30	84.8
SP 10	SURF	720							
	1'	560							
	2'	960							
	3'	240							
	4'	240							
	5'	160		<0.300	135	<10	<10	155	32
SW 1	SURF	240							
	1'	2470							
	2'	320		<0.300	548	269	<10	827	80
SW 2	SURF	480							
	1'	280							
	2'	480		<0.300	<10	<10	<10	<30	240
SW 3	SURF	480							
	1'	960							
	2'	640		<0.300	206	48	<10	264	624
SW 4	SURF	1520							
	1'	960							
	2'	640		<0.300	512	216	<10	738	624
SW 5	SURF	480							
	1'	480							
	2'	800		<0.300	783	250	<10	1043	672
SW 6	SURF	720							
	1'	720							
	2'	640							
	3'	480		<0.300	679	407	<10	1096	368

It was found that during the verification of remediation, the only areas left in place was at the berm of the facility and around the load lines. This would be SP1, SW1, SW4, SW5 and SW5. SW3 came in with elevated DRO and slightly elevated chlorides. There was not signs of contamination wicking back up at the surface of the pad or any visual indications of soil contamination.

With groundwater not being a factor, remediation being prior to the new rule, we would like to request closure of this site on behalf of Spur Energy (now owner and operator of the well). When the well is plugged and the facility is abandoned Spur Energy will make sure proper channels will be followed to ensure this site is in compliance at that time.

Please find the delineation and regulatory data attached herein. If you have any questions or concerns, about this closure request, please contact me at any time.

Sincerely,



Natalie Gladden

Director of Environmental and Regulatory Services

#7 Compress Road

Artesia, NM 88210

Cell: 575-390-6397

Email: natalie@energystaffingllc.com

Attachments:

Initial C141

Groundwater Data & Map

OSE POD Map

Soil Map and Information

Karst Map

Delineation Sample Data & Sample Map

Lab Analysis

Site Photos

Final C141

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

State of New Mexico
Energy Minerals and Natural Resources

JUN 05 2018

Form C-141
Revised April 3, 2017

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

Submit NMOCID appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

NAB1815439152 371255 OPERATOR ☒ Initial Report ☐ Final Report

Name of Company Percussion Petroleum Operating, LLC	Contact Eli Trevino
Address 919 Milam Street, Suite 2475 Houston, TX 77002	Telephone No. (575) 499-3993
Facility Name Goodman 22 #4H	Facility Type Private
Surface Owner Private	Mineral Owner Private
API No. 30-015-44366	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	22	19S	25E	2303'	South	2346'	West	Eddy

Latitude 32.64524 Longitude -104.473538 NAD83

NATURE OF RELEASE

Type of Release Produced oil	Volume of Release 30bbls	Volume Recovered
Source of Release Load line	Date and Hour of Occurrence 5/20/18 at 10:00 AM	Date and Hour of Discovery 5/20/18 at 10:00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher (NMOCID) and Crystal Weaver (NMOCID)	
By Whom? Toby Rhodes	Date and Hour 5/21/18 at 9:35 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.* No watercourse impacted.		
Describe Cause of Problem and Remedial Action Taken.* At approximately 10:00 AM on May 20, 2018, a truck loading crude oil on behalf of Holly-Frontier/Navajo Refining overflowed the trailer tank on the subject location. The driver reported the spill to be 30 bbls of crude oil.		
Describe Area Affected and Cleanup Action Taken.* The spill was outside of the containment area. Holly Frontier/Navajo Refining took responsibility and supervised immediate cleanup activities. Holly Frontier/Navajo Refining have the final count on volume recovered during cleanup.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCID 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 NMOCID marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCID acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: <u>mm</u>	OIL CONSERVATION DIVISION	
Printed Name: Michael Martin	Signed By: <u>[Signature]</u> Approved by Environmental Specialist:	
Title: Petroleum Engineer	Approval Date: <u>6/5/18</u>	Expiration Date: <u>N/A</u>
E-mail Address: Michael@percussionpetroleum.com	Conditions of Approval: <u>See Attached</u> Attached <input type="checkbox"/> <u>2RP-4787</u>	
Date: 6/5/2018	Phone: (713) 429-4249	

* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 6/05/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4787 has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 7/05/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us



New Mexico Office of the State Engineer

Wells with Well Log Information

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

POD		q q q												Log File	Depth	Depth			License
POD Number	Code	Subbasin	County	Source	64164	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Date	Well	Water	Driller	Number	
RA 02909		RA	ED	Shallow	1 3	22	19S	25E	548864	3611989*	<input type="checkbox"/>	520	06/26/1952	07/05/1952	08/11/1952	188	130	A.F. SMITH	
RA 08986		RA	ED	Shallow	1 3 3	22	19S	25E	548825	3611507	<input type="checkbox"/>	796	05/15/1995	05/15/1995	05/17/1995	320	220	GLENN'S WATER WELL SERVICE	421
RA 03304		RA	ED	Shallow	1	27	19S	25E	549081	3610973*	<input type="checkbox"/>	1147	10/13/1954	10/15/1954	11/22/1954	130	60	BEATTY, J.R.	62
RA 05450		RA	CH	Shallow	4 2	15	19S	25E	550057	3614015*	<input type="checkbox"/>	2049	07/16/1968	07/21/1968	08/21/1969	204	80		464
RA 05900		RA	ED	Shallow	2 2	16	19S	25E	548442	3614424*	<input type="checkbox"/>	2521	03/18/1974	03/19/1974	03/25/1974	185	95		460
RA 03018		RA	ED		3 2 4	34	19S	25E	549987	3608639*	<input type="checkbox"/>	3496		02/01/1953	08/26/1953	530		ABBOTT BROS.	46
RA 09295		RA	ED	Shallow	4 3 4	13	19S	25E	552979	3613115*	<input type="checkbox"/>	3748	10/20/1996	10/30/1996	11/19/1996	250	85	CAMPBELL DRILLING	1259
RA 06418		RA	ED	Shallow	1 2 3	17	19S	25E	545925	3613710*	<input type="checkbox"/>	3815	12/11/1978	12/18/1978	12/26/1978	120	72		406
RA 09293		RA	ED	Shallow	3 4 4	13	19S	25E	553180	3613114*	<input type="checkbox"/>	3941	11/07/1996	11/14/1996	11/26/1996	250	60	CAMPBELL DRILLING	1259
RA 09294		RA	ED	Shallow	3 4 4	13	19S	25E	553180	3613114*	<input type="checkbox"/>	3941	10/10/1996	10/16/1996	11/19/1996	194	76	CAMPBELL DRILLING	1259
RA 05333		RA	ED	Shallow	2 2	09	19S	25E	548430	3616046*	<input type="checkbox"/>	4075	04/18/1967	05/05/1967	05/12/1967	315	260	EXISTING WELL	353
RA 10496		RA	ED	Shallow	3 3 4	25	19S	25E	552801	3609865*	<input type="checkbox"/>	4079	04/01/2004	04/04/2004	04/14/2004	110	40	MARTIN, DELFORD	1064
RA 10155		RA	ED	Shallow	4 3 4	25	19S	25E	553001	3609865*	<input type="checkbox"/>	4249	05/26/2002	06/01/2002	06/07/2002	225	60	MARTIN, DELFORD	1064
RA 12222 POD1		RA	ED		2 4 2	30	19S	25E	545284	3610884	<input type="checkbox"/>	4263	02/24/2015	02/24/2015	06/06/2015			ATKINS, JACKIE D.	1249
RA 08611		RA	ED	Shallow	1 1 1	19	19S	26E	553583	3612909*	<input type="checkbox"/>	4287	10/22/1993	11/20/1993	11/24/1993	235	90	CAMPBELL DRILLING	1259
RA 04726		RA	ED	Shallow	3 2	19	19S	25E	544825	3612390*	<input type="checkbox"/>	4561	12/05/1962	12/20/1962	11/08/1962	390	310		62
RA 03942		RA	ED	Shallow	3 2 4	30	19S	25E	545141	3610277*	<input type="checkbox"/>	4603	10/03/1958	10/08/1958	10/20/1958	270	222		62
RA 08612		RA	ED	Shallow	1 2 1	19	19S	26E	553989	3612912*	<input type="checkbox"/>	4687	12/10/1993	12/17/1993	12/30/1993	221	80	CAMPBELL DRILLING	1259
RA 04208		RA	ED	Shallow	2 4	03	19S	25E	550036	3616845*	<input type="checkbox"/>	4808	04/15/1960	04/19/1960	02/02/1961	110		CALVIN DAVIS	
RA 07026		RA	ED	Shallow	3 3	30	19S	26E	553699	3609975*	<input type="checkbox"/>	4809	12/09/1982	12/30/1982	07/05/1983	135	105	EXISTING WELL	749
RA 09988		RA	ED	Shallow	2 4 1	19	19S	26E	554190	3612507*	<input type="checkbox"/>	4832	11/20/2000	03/02/2001	03/15/2001	100	65	HUDSON, FRITZ	885

Record Count: 21

UTMNAD83 Radius Search (in meters):

Easting (X): 549376

Northing (Y): 3612081.7

Radius: 5000

*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.

9/23/20 9:26 AM

WELLS WITH WELL LOG INFORMATION




New Mexico Office of the State Engineer **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	RA 02909	1	3	22	19S	25E	548864	3611989*	

Driller License:**Driller Company:**

Driller Name: A.F. SMITH

Drill Start Date: 06/26/1952

Drill Finish Date: 07/05/1952

Plug Date:

Log File Date: 08/11/1952

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 8.63

Depth Well: 188 feet

Depth Water: 130 feet

Water Bearing Stratifications:

Top	Bottom	Description
1	2	3

120	130	Sandstone/Gravel/Conglomerate
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*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.

9/23/20 9:26 AM

Page 1 of 1

POD SUMMARY - RA 02909




New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
RA 08986		1 3 3	22	19S	25E	548825	3611507 

Driller License: 421 **Driller Company:** GLENN'S WATER WELL SERVICE

Driller Name: GLENN'S WATER WELL SERVICE

Drill Start Date: 05/15/1995	Drill Finish Date: 05/15/1995	Plug Date:
Log File Date: 05/17/1995	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size:	Depth Well: 320 feet	Depth Water: 220 feet

Meter Number: 4314	Meter Make: HALLIBURTON
Meter Serial Number: 2ST23206	Meter Multiplier: 1.0000
Number of Dials: 6	Meter Type: Diversion
Unit of Measure: Barrels 42 gal.	Return Flow Percent:
Usage Multiplier:	Reading Frequency: Quarterly (No Reading Expected)

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
01/01/2001	2000	160500	A	PRT		0
03/01/2001	2000	180000	A	RPT		2.513
12/31/2001	2001	180960	A	RPT		0.124
04/01/2002	2002	180960	A	RPT		0
06/30/2002	2002	180960	A	RPT		0
09/30/2002	2002	180960	A	RPT		0
04/01/2003	2003	180960	A	RPT		0
08/15/2003	2003	180960	A	tw		0
09/30/2003	2003	180960	A	tw		0
12/31/2003	2003	180960	A	tw		0
07/01/2004	2004	180960	A	sj		0
10/01/2004	2004	180960	A	sj		0
12/31/2004	2004	180960	A	sj		0
09/30/2005	2005	180960	A	RPT		0

**YTD Meter Amounts:	Year	Amount
	2000	2.513
	2001	0.124
	2002	0
	2003	0

****YTD Meter Amounts: Year Amount**

2004	0
2005	0

Meter Number:	8259	Meter Make:	HALIBURTON
Meter Serial Number:	2 ST 23206	Meter Multiplier:	1.0000
Number of Dials:	6	Meter Type:	Diversion
Unit of Measure:	Barrels 42 gal.	Return Flow Percent:	
Usage Multiplier:	0.00	Reading Frequency:	Quarterly (No Reading Expected)

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
10/01/2004	2004	180960	A	sj		0

****YTD Meter Amounts: Year Amount**

2004	0
------	---



New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	RA 03304				1	27	19S 25E	549081	3610973*

Driller License: 62	Driller Company: BEATTY, J.R.	
Driller Name: BEATTY, J.R.		
Drill Start Date: 10/13/1954	Drill Finish Date: 10/15/1954	Plug Date:
Log File Date: 11/22/1954	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 7.00	Depth Well: 130 feet	Depth Water: 60 feet

Water Bearing Stratifications:	Top	Bottom	Description
	90	100	Sandstone/Gravel/Conglomerate
	103	118	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	90	118

*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.

9/23/20 9:27 AM





Page 1 of 1

POD SUMMARY - RA 03304

SPUR ENERGY PARTNERS

GOODMAN 22 #4H
GROUNDWATER MAP

Legend

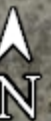
-  GOODMAN 22 #4H
-  RA 02909 - 520' FROM SITE - 130'DGW
-  RA 03304 - 1147' FROM SITE - 60'DGW
-  RA 08986 - 796' FROM SITE - 220'DGW

GOODMAN 22 #4H

RA 02909 - 520' FROM SITE - 130'DGW

RA 08986 - 796' FROM SITE - 220'DGW

RA 03304 - 1147' FROM SITE - 60'DGW



USE PUD LOCATIONS

Points of Diversion visible at 1:19,000 with 1,000 features per view

water rights look up



104.464 32.646 Degrees

Soil Map—Eddy Area, New Mexico
(GOODMAN 22 #4H)



Natural Resources
Conservation Service


Web Soil Survey
National Cooperative Soil Survey

9/24/2020
Page 1 of 3

Soil Map—Eddy Area, New Mexico
(GOODMAN 22 #4H)


MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 16, Jun 8, 2020

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

Date(s) aerial images were photographed: Feb 27, 2020—Feb 28, 2020

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

Soil Map—Eddy Area, New Mexico

GOODMAN 22 #4H





Map Unit Legend

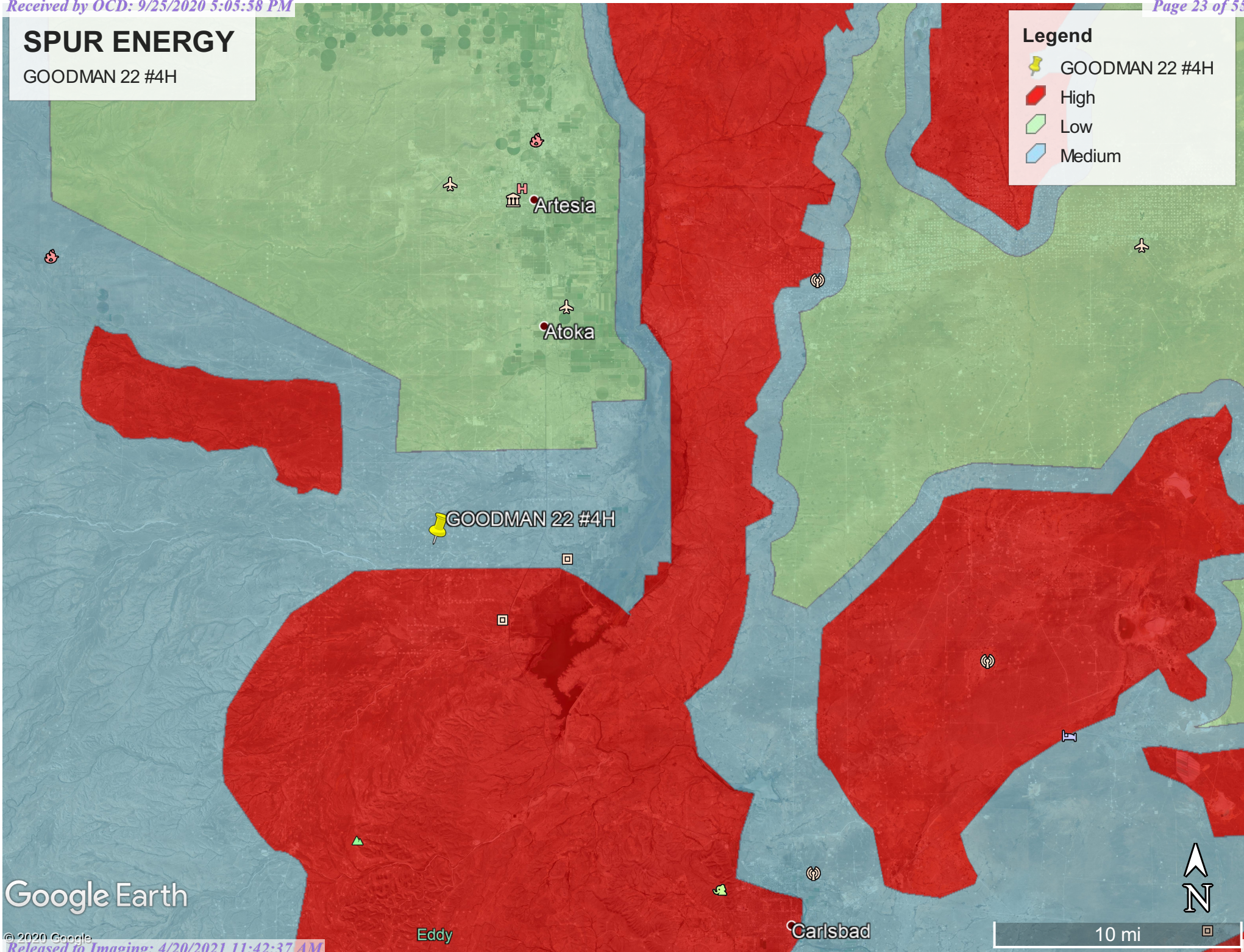
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RA	Reagan loam, 0 to 3 percent slopes	9.0	100.0%
Totals for Area of Interest		9.0	100.0%

SPUR ENERGY

GOODMAN 22 #4H

Legend

-  GOODMAN 22 #4H
-  High
-  Low
-  Medium



Google Earth

Company Name: PERCUSSIONLocation Name: GOODMAN 22 #4HRelease Date: 5/20/2018

SP ID	Depth	Titr	PID	L-BTEX	L-DRO	L-ORO	L-GRO	L-TPH	L-CHL	Soil	Notes
SP 1	SURF	720									TPH
	1'	160									TPH
	2'	160									TPH
	3'	320									TPH
	4'	720		<0.300	<10	<10	<10	<30	672		TPH
SP 2	SURF	400									
	1'	320									
	2'	320		<0.300	<10	<10	<10	<30	48		
SP 3	SURF	320									
	1'	480									
	2'	80									TPH
	3'	240									TPH
	4'	320		<0.300	<10	<10	<10	<30	96		
SP 4	SURF	320									
	1'	320									
	2'	160		<0.300	<10	<10	<10	<30	32		
SP 5	SURF	560									
	1'	400									
	2'	240		<0.300	15.9	<10	<10	35.9	32		
SP 6	SURF	880									
	1'	480									
	2'	560		<0.300	<10	<10	<10	<30	448		
SP 7	SURF	800									
	1'	340									
	2'	160		<0.300	<10	<10	<10	<30	64		

SP 8	SURF	800									
	1'	320									
	2'	160		<0.300	<10	<10	<10	<30	16		
SP 9	SURF	400									
	1'	240									
	2'	240		<0.300	<10	<10	<10	<30	84.8		
SP 10	SURF	720									
	1'	560									
	2'	960									
	3'	240									
	4'	240									
	5'	160		<0.300	135	<10	<10	155	32		
SW 1	SURF	240									
	1'	2470									
	2'	320		<0.300	548	269	<10	827	80		
SW 2	SURF	480									
	1'	280									
	2'	480		<0.300	<10	<10	<10	<30	240		
SW 3	SURF	480									
	1'	960									
	2'	640		<0.300	206	48	<10	264	624		
SW 4	SURF	1520									
	1'	960									
	2'	640		<0.300	512	216	<10	738	624		
SW 5	SURF	480									
	1'	480									

	2'	800		<0.300	783	250	<10	1043	672		
SW 6	SURF	720									
	1'	720									
	2'	640									
	3'	480		<0.300	679	407	<10	1096	368		

SPUR ENERGY PARTNERS, LLC GOODMAN 22 #4H SAMPLE MAP

SAMPLE POINT GPS:

SP1: 32.644913 -104.473455
SP2: 32.644950 -104.473512
SP3: 32.644969 -104.473572
SP4: 32.645026 -104.473619
SP5: 32.645026 -104.473676
SP6: 32.644917 -104.473404
SP7: 32.644946 -104.473452
SP8: 32.644978 -104.473499
SP9: 32.645008 -104.473554
SP10: 32.644990 -104.473620

SIDEWALL SAMPLE POINT GPS:

SW1: 32.644893 -104.473424
SW2: 32.644960 -104.473429
SW3: 32.645038 -104.473591
SW4: 32.645035 -104.473707
SW5: 32.644976 -104.473617
SW6: 32.644927 -104.473497

IMPACTED AREA: 1711 SQ. FT.



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

May 15, 2019

JERRY MATTHEWS

WHITE BUFFALO

8908 YALE AVE #210

TULSA, OK 74137

RE: GOODMAN 22 4H

Enclosed are the results of analyses for samples received by the laboratory on 05/14/19 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

WHITE BUFFALO
 JERRY MATTHEWS
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received: 05/14/2019
 Reported: 05/15/2019
 Project Name: GOODMAN 22 4H
 Project Number: NONE GIVEN
 Project Location: PERCUSSION

Sampling Date: 05/13/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 - 4 (H901751-01)

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	05/14/2019	ND	1.69	84.6	2.00	0.329	
Toluene*	<0.050	0.050	05/14/2019	ND	1.82	91.0	2.00	0.0328	
Ethylbenzene*	<0.050	0.050	05/14/2019	ND	1.76	88.1	2.00	0.892	
Total Xylenes*	<0.150	0.150	05/14/2019	ND	5.33	88.9	6.00	0.390	
Total BTEx	<0.300	0.300	05/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	672	16.0	05/15/2019	ND	400	100	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	05/15/2019	ND	214	107	200	0.131	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	227	113	200	1.75	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					

Surrogate: 1-Chlorooctane 81.7 % 41-142

Surrogate: 1-Chlorooctadecane 89.9 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

WHITE BUFFALO
 JERRY MATTHEWS
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received: 05/14/2019
 Reported: 05/15/2019
 Project Name: GOODMAN 22 4H
 Project Number: NONE GIVEN
 Project Location: PERCUSSION

Sampling Date: 05/13/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 - 2 (H901751-02)

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	05/14/2019	ND	1.69	84.6	2.00	0.329	
Toluene*	<0.050	0.050	05/14/2019	ND	1.82	91.0	2.00	0.0328	
Ethylbenzene*	<0.050	0.050	05/14/2019	ND	1.76	88.1	2.00	0.892	
Total Xylenes*	<0.150	0.150	05/14/2019	ND	5.33	88.9	6.00	0.390	
Total BTEX	<0.300	0.300	05/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	48.0	16.0	05/15/2019	ND	400	100	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	05/15/2019	ND	214	107	200	0.131	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	227	113	200	1.75	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					

Surrogate: 1-Chlorooctane 78.3 % 41-142

Surrogate: 1-Chlorooctadecane 82.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

WHITE BUFFALO
 JERRY MATTHEWS
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received: 05/14/2019
 Reported: 05/15/2019
 Project Name: GOODMAN 22 4H
 Project Number: NONE GIVEN
 Project Location: PERCUSSION

Sampling Date: 05/13/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 - 4 (H901751-03)

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	05/14/2019	ND	1.69	84.6	2.00	0.329		
Toluene*	<0.050	0.050	05/14/2019	ND	1.82	91.0	2.00	0.0328		
Ethylbenzene*	<0.050	0.050	05/14/2019	ND	1.76	88.1	2.00	0.892		
Total Xylenes*	<0.150	0.150	05/14/2019	ND	5.33	88.9	6.00	0.390		
Total BTEX	<0.300	0.300	05/14/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	05/15/2019	ND	400	100	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	05/15/2019	ND	214	107	200	0.131	
DRO >C10-C28*	37.2	10.0	05/15/2019	ND	227	113	200	1.75	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					

Surrogate: 1-Chlorooctane 93.5 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

WHITE BUFFALO
 JERRY MATTHEWS
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received: 05/14/2019
 Reported: 05/15/2019
 Project Name: GOODMAN 22 4H
 Project Number: NONE GIVEN
 Project Location: PERCUSSION

Sampling Date: 05/13/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 - 2 (H901751-04)

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	05/14/2019	ND	1.69	84.6	2.00	0.329	
Toluene*	<0.050	0.050	05/14/2019	ND	1.82	91.0	2.00	0.0328	
Ethylbenzene*	<0.050	0.050	05/14/2019	ND	1.76	88.1	2.00	0.892	
Total Xylenes*	<0.150	0.150	05/14/2019	ND	5.33	88.9	6.00	0.390	
Total BTEX	<0.300	0.300	05/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	32.0	16.0	05/15/2019	ND	400	100	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	05/15/2019	ND	214	107	200	0.131	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	227	113	200	1.75	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					

Surrogate: 1-Chlorooctane 91.5 % 41-142

Surrogate: 1-Chlorooctadecane 95.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

WHITE BUFFALO
 JERRY MATTHEWS
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received: 05/14/2019
 Reported: 05/15/2019
 Project Name: GOODMAN 22 4H
 Project Number: NONE GIVEN
 Project Location: PERCUSSION

Sampling Date: 05/13/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 - 2 (H901751-05)

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	05/14/2019	ND	1.69	84.6	2.00	0.329		
Toluene*	<0.050	0.050	05/14/2019	ND	1.82	91.0	2.00	0.0328		
Ethylbenzene*	<0.050	0.050	05/14/2019	ND	1.76	88.1	2.00	0.892		
Total Xylenes*	<0.150	0.150	05/14/2019	ND	5.33	88.9	6.00	0.390		
Total BTEX	<0.300	0.300	05/14/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	32.0	16.0	05/15/2019	ND	400	100	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	05/15/2019	ND	214	107	200	0.131	
DRO >C10-C28*	15.9	10.0	05/15/2019	ND	227	113	200	1.75	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					

Surrogate: 1-Chlorooctane 92.5 % 41-142

Surrogate: 1-Chlorooctadecane 95.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

WHITE BUFFALO
 JERRY MATTHEWS
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received: 05/14/2019
 Reported: 05/15/2019
 Project Name: GOODMAN 22 4H
 Project Number: NONE GIVEN
 Project Location: PERCUSSION

Sampling Date: 05/13/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 - 2 (H901751-06)

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	05/14/2019	ND	1.69	84.6	2.00	0.329	
Toluene*	<0.050	0.050	05/14/2019	ND	1.82	91.0	2.00	0.0328	
Ethylbenzene*	<0.050	0.050	05/14/2019	ND	1.76	88.1	2.00	0.892	
Total Xylenes*	<0.150	0.150	05/14/2019	ND	5.33	88.9	6.00	0.390	
Total BTEX	<0.300	0.300	05/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	448	16.0	05/15/2019	ND	400	100	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	05/15/2019	ND	214	107	200	0.131	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	227	113	200	1.75	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					

Surrogate: 1-Chlorooctane 88.4 % 41-142

Surrogate: 1-Chlorooctadecane 91.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

WHITE BUFFALO
 JERRY MATTHEWS
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received: 05/14/2019
 Reported: 05/15/2019
 Project Name: GOODMAN 22 4H
 Project Number: NONE GIVEN
 Project Location: PERCUSSION

Sampling Date: 05/13/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 7 - 2 (H901751-07)

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	05/14/2019	ND	1.69	84.6	2.00	0.329	
Toluene*	<0.050	0.050	05/14/2019	ND	1.82	91.0	2.00	0.0328	
Ethylbenzene*	<0.050	0.050	05/14/2019	ND	1.76	88.1	2.00	0.892	
Total Xylenes*	<0.150	0.150	05/14/2019	ND	5.33	88.9	6.00	0.390	
Total BTEX	<0.300	0.300	05/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	64.0	16.0	05/15/2019	ND	400	100	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	05/15/2019	ND	214	107	200	0.131	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	227	113	200	1.75	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					

Surrogate: 1-Chlorooctane 92.7 % 41-142

Surrogate: 1-Chlorooctadecane 96.7 % 37.6-147

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Analytical Results For:

WHITE BUFFALO
 JERRY MATTHEWS
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received: 05/14/2019
 Reported: 05/15/2019
 Project Name: GOODMAN 22 4H
 Project Number: NONE GIVEN
 Project Location: PERCUSSION

Sampling Date: 05/13/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 8 - 2 (H901751-08)

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	05/14/2019	ND	1.69	84.6	2.00	0.329	
Toluene*	<0.050	0.050	05/14/2019	ND	1.82	91.0	2.00	0.0328	
Ethylbenzene*	<0.050	0.050	05/14/2019	ND	1.76	88.1	2.00	0.892	
Total Xylenes*	<0.150	0.150	05/14/2019	ND	5.33	88.9	6.00	0.390	
Total BTEX	<0.300	0.300	05/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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	16.0	16.0	05/15/2019	ND	400	100	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	05/15/2019	ND	214	107	200	0.131	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	227	113	200	1.75	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					

Surrogate: 1-Chlorooctane 89.5 % 41-142

Surrogate: 1-Chlorooctadecane 94.0 % 37.6-147

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Analytical Results For:

WHITE BUFFALO
 JERRY MATTHEWS
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received: 05/14/2019
 Reported: 05/15/2019
 Project Name: GOODMAN 22 4H
 Project Number: NONE GIVEN
 Project Location: PERCUSSION

Sampling Date: 05/13/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 9 - 2 (H901751-09)

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	05/14/2019	ND	1.69	84.6	2.00	0.329	
Toluene*	<0.050	0.050	05/14/2019	ND	1.82	91.0	2.00	0.0328	
Ethylbenzene*	<0.050	0.050	05/14/2019	ND	1.76	88.1	2.00	0.892	
Total Xylenes*	<0.150	0.150	05/14/2019	ND	5.33	88.9	6.00	0.390	
Total BTEX	<0.300	0.300	05/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	16.0	16.0	05/15/2019	ND	400	100	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	05/15/2019	ND	214	107	200	0.131	
DRO >C10-C28*	84.8	10.0	05/15/2019	ND	227	113	200	1.75	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					

Surrogate: 1-Chlorooctane 93.5 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Analytical Results For:

WHITE BUFFALO
 JERRY MATTHEWS
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received: 05/14/2019
 Reported: 05/15/2019
 Project Name: GOODMAN 22 4H
 Project Number: NONE GIVEN
 Project Location: PERCUSSION

Sampling Date: 05/13/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 10 - 5 (H901751-10)

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	05/14/2019	ND	1.69	84.6	2.00	0.329	
Toluene*	<0.050	0.050	05/14/2019	ND	1.82	91.0	2.00	0.0328	
Ethylbenzene*	<0.050	0.050	05/14/2019	ND	1.76	88.1	2.00	0.892	
Total Xylenes*	<0.150	0.150	05/14/2019	ND	5.33	88.9	6.00	0.390	
Total BTEX	<0.300	0.300	05/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	32.0	16.0	05/15/2019	ND	400	100	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	05/15/2019	ND	214	107	200	0.131	
DRO >C10-C28*	135	10.0	05/15/2019	ND	227	113	200	1.75	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					

Surrogate: 1-Chlorooctane 93.1 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Analytical Results For:

WHITE BUFFALO
 JERRY MATTHEWS
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received: 05/14/2019
 Reported: 05/15/2019
 Project Name: GOODMAN 22 4H
 Project Number: NONE GIVEN
 Project Location: PERCUSSION

Sampling Date: 05/13/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 1 - 2 (H901751-11)

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	05/14/2019	ND	1.69	84.6	2.00	0.329	
Toluene*	<0.050	0.050	05/14/2019	ND	1.82	91.0	2.00	0.0328	
Ethylbenzene*	<0.050	0.050	05/14/2019	ND	1.76	88.1	2.00	0.892	
Total Xylenes*	<0.150	0.150	05/14/2019	ND	5.33	88.9	6.00	0.390	
Total BTEX	<0.300	0.300	05/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 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	80.0	16.0	05/15/2019	ND	400	100	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	05/15/2019	ND	214	107	200	0.131	
DRO >C10-C28*	548	10.0	05/15/2019	ND	227	113	200	1.75	
EXT DRO >C28-C36	269	10.0	05/15/2019	ND					

Surrogate: 1-Chlorooctane 95.5 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Analytical Results For:

WHITE BUFFALO
 JERRY MATTHEWS
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received: 05/14/2019
 Reported: 05/15/2019
 Project Name: GOODMAN 22 4H
 Project Number: NONE GIVEN
 Project Location: PERCUSSION

Sampling Date: 05/13/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 2 - 2 (H901751-12)

BTX 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	05/15/2019	ND	1.69	84.6	2.00	0.329	
Toluene*	<0.050	0.050	05/15/2019	ND	1.82	91.0	2.00	0.0328	
Ethylbenzene*	<0.050	0.050	05/15/2019	ND	1.76	88.1	2.00	0.892	
Total Xylenes*	<0.150	0.150	05/15/2019	ND	5.33	88.9	6.00	0.390	
Total BTX	<0.300	0.300	05/15/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	240	16.0	05/15/2019	ND	400	100	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	05/15/2019	ND	214	107	200	0.131	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	227	113	200	1.75	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					

Surrogate: 1-Chlorooctane 89.3 % 41-142

Surrogate: 1-Chlorooctadecane 93.2 % 37.6-147

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Analytical Results For:

WHITE BUFFALO
 JERRY MATTHEWS
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received: 05/14/2019
 Reported: 05/15/2019
 Project Name: GOODMAN 22 4H
 Project Number: NONE GIVEN
 Project Location: PERCUSSION

Sampling Date: 05/13/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 3 - 2 (H901751-13)

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	05/15/2019	ND	1.69	84.6	2.00	0.329	
Toluene*	<0.050	0.050	05/15/2019	ND	1.82	91.0	2.00	0.0328	
Ethylbenzene*	<0.050	0.050	05/15/2019	ND	1.76	88.1	2.00	0.892	
Total Xylenes*	<0.150	0.150	05/15/2019	ND	5.33	88.9	6.00	0.390	
Total BTEX	<0.300	0.300	05/15/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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	624	16.0	05/15/2019	ND	400	100	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	05/15/2019	ND	195	97.7	200	3.22	
DRO >C10-C28*	206	10.0	05/15/2019	ND	183	91.5	200	3.40	
EXT DRO >C28-C36	48.0	10.0	05/15/2019	ND					

Surrogate: 1-Chlorooctane 88.9 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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Analytical Results For:

WHITE BUFFALO
 JERRY MATTHEWS
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received: 05/14/2019
 Reported: 05/15/2019
 Project Name: GOODMAN 22 4H
 Project Number: NONE GIVEN
 Project Location: PERCUSSION

Sampling Date: 05/13/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 4 - 2 (H901751-14)

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	05/15/2019	ND	1.69	84.6	2.00	0.329	
Toluene*	<0.050	0.050	05/15/2019	ND	1.82	91.0	2.00	0.0328	
Ethylbenzene*	<0.050	0.050	05/15/2019	ND	1.76	88.1	2.00	0.892	
Total Xylenes*	<0.150	0.150	05/15/2019	ND	5.33	88.9	6.00	0.390	
Total BTEX	<0.300	0.300	05/15/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	624	16.0	05/15/2019	ND	400	100	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	05/15/2019	ND	195	97.7	200	3.22	
DRO >C10-C28*	512	10.0	05/15/2019	ND	183	91.5	200	3.40	
EXT DRO >C28-C36	216	10.0	05/15/2019	ND					

Surrogate: 1-Chlorooctane 85.3 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

WHITE BUFFALO
 JERRY MATTHEWS
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received: 05/14/2019
 Reported: 05/15/2019
 Project Name: GOODMAN 22 4H
 Project Number: NONE GIVEN
 Project Location: PERCUSSION

Sampling Date: 05/13/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 5 - 2 (H901751-15)

BTX 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	05/15/2019	ND	1.69	84.6	2.00	0.329	
Toluene*	<0.050	0.050	05/15/2019	ND	1.82	91.0	2.00	0.0328	
Ethylbenzene*	<0.050	0.050	05/15/2019	ND	1.76	88.1	2.00	0.892	
Total Xylenes*	<0.150	0.150	05/15/2019	ND	5.33	88.9	6.00	0.390	
Total BTX	<0.300	0.300	05/15/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	672	16.0	05/15/2019	ND	400	100	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	05/15/2019	ND	195	97.7	200	3.22	
DRO >C10-C28*	783	10.0	05/15/2019	ND	183	91.5	200	3.40	
EXT DRO >C28-C36	250	10.0	05/15/2019	ND					

Surrogate: 1-Chlorooctane 93.8 % 41-142

Surrogate: 1-Chlorooctadecane 130 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

WHITE BUFFALO
 JERRY MATTHEWS
 8908 YALE AVE #210
 TULSA OK, 74137
 Fax To:

Received: 05/14/2019
 Reported: 05/15/2019
 Project Name: GOODMAN 22 4H
 Project Number: NONE GIVEN
 Project Location: PERCUSSION

Sampling Date: 05/13/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 6 - 3 (H901751-16)

BTX 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	05/15/2019	ND	1.69	84.6	2.00	0.329	
Toluene*	<0.050	0.050	05/15/2019	ND	1.82	91.0	2.00	0.0328	
Ethylbenzene*	<0.050	0.050	05/15/2019	ND	1.76	88.1	2.00	0.892	
Total Xylenes*	<0.150	0.150	05/15/2019	ND	5.33	88.9	6.00	0.390	
Total BTX	<0.300	0.300	05/15/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 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	368	16.0	05/15/2019	ND	400	100	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	05/15/2019	ND	195	97.7	200	3.22	
DRO >C10-C28*	679	10.0	05/15/2019	ND	183	91.5	200	3.40	
EXT DRO >C28-C36	407	10.0	05/15/2019	ND					

Surrogate: 1-Chlorooctane 92.6 % 41-142

Surrogate: 1-Chlorooctadecane 124 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in cursive script, appearing to read "C. D. Keene", written in black ink.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Percession Petroleum		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Devy Matthews		Company: White Buffalo Env.					
Address:		Attn:					
City:	State:	Zip:					
Phone #:	Fax #:	Address: 401 E. Broadway					
Project #:	Project Owner:	City:	State: NM Zip: 88240				
Project Name:	Project Location: Goodman 22 4H		Phone #:	Fax #:			
Sample Name: Kathryn Montaner			Phone #:	Fax #:			
FOR LAB USE ONLY		PRESERV		SAMPLING			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL
				SLUDGE	OTHER:	ACID/BASE:	ICE / COOL
				OTHER:			
				DATE	TIME		
H901751	1 SP14	1	1	5/13/19	9:30	Chlorides	
8502-2	1	1	1	9:41	9:41	BTEX	
5303-4	1	1	1	10:12	10:12	TPH	
4504-2	1	1	1	10:56	10:56		
5305-2	1	1	1	11:08	11:08		
6506-2	1	1	1	11:23	11:23		
1507-2	1	1	1	11:40	11:40		
8508-2	1	1	1	11:54	11:54		
9509-2	1	1	1	2:00	2:00		
10510-5	1	1	1	2:30	2:30		

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Relinquished By: Kathryn Montaner	Date: 5-14-19	Received By: Monica Bladsky
Time: 15:00		
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -3.9° #97	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) TS

REMARKS: **Ymold: natalie.gladson@whitebuffalo.com**
monique.careto@whitebuffalo.com
Kathryn Montaner@whitebuffalo.com

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

CARDINAL
Laboratoires

Yes

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

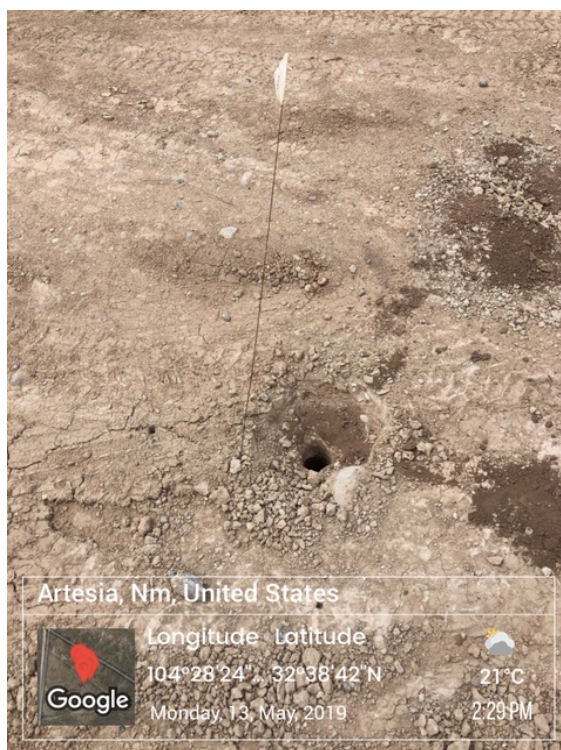
+ Cardinal cannot accept verbal changes Please for written changes to (K7E) 202-2326



**GOODMAN 22 #4H
SITE PHOTOS**









Form C-141

State of New Mexico
Oil Conservation Division

Page 3

Incident ID	
District RP	
Facility ID	
Application ID	

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>220'</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

Form C-141

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: Natalie Gladden Title: Director of Environmental & RegulatorySignature:  Date: 9/24/20email: natalie@energystaffingllc.com Telephone: 575-390-6397**OCD Only**

Received by: _____ Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 6

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

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

Signature:  Date: 9/24/20


email: natalie@energystaffingllc.com

Telephone: 575-390-6397

OCD Only

Received by: Chad Hensley Date: 04/20/2021

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

Closure Approved by:  Date: 04/20/2021

Printed Name: Chad Hensley Title: Environmental Specialist Advanced

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

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

CONDITIONS

Action 10368

CONDITIONS OF APPROVAL

Operator: SPUR ENERGY PARTNERS LLC Suite 500 Houston, TX77024	9655 Katy Freeway	OGRID: 328947	Action Number: 10368	Action Type: C-141
OCD Reviewer chensley	Condition None			