Burnett Oil Company Inc. Jackson B #15

REMEDIATION WORK PLAN

NMNM2747

API No. 30-015-04038

Notice of Written Order: 08/04/2014

Unit L, Section 1, Township 17 South, Range 30 East

September 30th, 2014

Prepared by:

Environmental Department Diversified Field Service, Inc. 206 W Snyder Hobbs, NM 88240 Phone: (575)964-8394

Fax: (575)393-8396

BURNETT OIL COMPANY, INC.

Sol Hughes
Bureau of Land Management
Carlsbad Field Office
620 E. Greene Street
Carlsbad, NM 88220

RE: Burnett Oil Company – Jackson B #15
Unit L, Section 1, Township 17 South, Range 30 East
API No. 30-015-04038

Mr. Hughes,

Burnett Oil Company has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located northeast of Loco Hills NM, in Eddy County. Burnett received a Notice of Written Order dated 8/14/2014 stating that the Reclamation work on the site was not entirely successful. The following issues were found:

- Hydrocarbons and salt contamination was found on the site and also the road, which prevented vegetation growth.
 - The site must be delineated
 - Contaminated topsoil will need to be excavated, removed and backfilled with clean caliche.
 - Install a 20 mil liner if needed
 - Reseed site
- Place a berm along the southern edge running to the new Jackson B #57 to prevent traffic from disturbing the reclaimed area.
- Till and reseed the entire affected area

Site Assessment and Delineation

On September 9, 2014 DFSI personnel obtained surface and delineation samples of the leak area as well as mapping of the site. SP1 was delineated to 7'bgs below ground surface when augur refusal occurred, the 7'bgs sample was taken in to Cardinal Lab for confirmation. SP2 was delineated to 2'bgs and SP3 was delineated to 3'bgs, whereas both samples were confirmed below the regulated

BURNETT OIL COMPANY, INC.

levels for this site. The impacted area on this site was mapped showing a total of 3,506 square feet.

Field samples were taken on seven sample points, each sample was tested for chlorides levels and well as TPH during field testing. The TPH samples were performed using a Mini Rae Photoionization Detector (PID). All of samples except for SP1 were found under the BLM/NMOCD standards, the samples were taken to Cardinal Lab of Hobbs to obtain confirmation samples for chlorides and TPH. The results confirmed that bottom samples of each point were as follows:

SP1: 6'bgs – 1200 mg/kg chlorides, 2840 mg/kg DRO

SP1: 7'bgs - 1330 mg/kg chlorides, 2640 mg/kg DRO

SP2: 2'bgs – 624 mg/kg chlorides

SP3: 3'bgs – 96 mg/kg chlorides

DFSI has conducted a groundwater study of the area and has determined that according to the New Mexico Office of the State Engineer the average depth to groundwater for this area is 240 foot below ground surface. Therefore, no eminent danger of groundwater impact or threat to life is anticipated.

Conclusion

After careful review DFSI on behalf of Burnett Oil Company would like to propose the following:

Excavate the area of SP1 to 4' in total depth, haul the contaminated soil to an approved disposal site, line with a 20 mil liner and backfill with fresh imported topsoil. Rip and contour the areas of SP2 and SP3 then reseed the entire area with a native vegetation mixture as per the BLM's guidelines for returning the site to its natural state.

Side wall samples will be taken during the excavation procedure to ensure that all contaminates have been remediated. These samples will also will be taken to an approved lab for confirmation before backfilling will take place.

BURNETT OIL COMPANY, INC.

Following the approval of this plan and after the remediation has taken place, DFSI will submit all proper closure documentation to the NMOCD and BLM in accordance to the State and Federal Guidelines set forth.

Please feel free to contact me with any questions concerning this remediation plan request.

Sincerely,

Natalie Gladden

Environmental Director

Diversified Field Service, Inc.

206 West Snyder

Hobbs, NM 88240

Office: (575)964-8394

Mobile: (575)602-1786 Fax: (575)964-8396

Email: ngladden@diversifiedfsi.com

Attachments: Initial BLM Written Order

Site/Sample Map

atalie Gsladden

Sample Data

Lab Analytical Data

Certified Mail - Return Receipt Requested 70133020000158907310

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	Page		of	2
	IDE	VTIFIC.	ATIO)N
IID				***
Lease	NMN	M2747	,	***************************************
CA				***************************************
Unit			***************************************	
PA			**********	***************************************

Number <u>14-SH-110W</u>

NOTICE OF WRITTEN ORDER

The Authorized Officer has his Notice or 7 business da eported to the Bureau of L hall be issued an Incident of 163.1 and may also incur frame for correction. Section 109(d)(1) of the Fed 163.2(f)(1), provides that a rother written information maximum of 20 days.	and Managen of Noncompli civil penalties deral Oil and i any person what required by t ion shall requires see 43 CFR 31 2203 (see 43 C	nent Office at the ance (INC) in ac (43 CFR 3163.2) Gas Royalty Man on "knowingly or his part shall be est a State Direct 165.3). The State CFR 3165.4). Co	address shown above cordance with 43 CF. All self-certified contagement Act of 198 willfully " prepares, liable for a civil penal series of the Write Director review demand the above listed.	re. If you do R 3163.1(a). re 3163.1(a). rections mi 2, as implement maintains, of alty of up to see and Appeal ten Order. To a series of a Bureau of I	not comply as n Failure to compast be postmarked ented by the appr submits false, (25,000 per violation of the submits request must appealed to the and Manageme	oted above unde ply with the INC ed no later than to plicable provision inaccurate, or mation for each da at the filed within the Interior Board on an office for furth	n and reporting time frames prescribed time from receip r "Corrective Action to be C may result in assessments a he next business day after the soft the operating regulation is leading reports, notices, af y such violation continues, and the continues of Land Appeals, 801 North the her information.	of of this Notice and Completed By", you as outlined in 43 CFn he prescribed time as at Title 43 CFR Tidavits, records, da not to exceed a
The Authorized Officer has his Notice or 7 business da eported to the Bureau of L hall be issued an Incident of 163.1 and may also incur or arme for correction. Section 109(d)(1) of the Fed 163.2(f)(1), provides that a rother written information maximum of 20 days. Separation person contesting a decision of the propriate State Director (state 200, Arlington, VA 22 dignature of Bureau of Land M	and Managen of Noncompli civil penalties deral Oil and i any person what required by t ion shall requires see 43 CFR 31 2203 (see 43 C	nent Office at the ance (INC) in ac (43 CFR 3163.2) Gas Royalty Man on "knowingly or his part shall be est a State Direct 165.3). The State CFR 3165.4). Co	address shown above cordance with 43 CF. All self-certified contagement Act of 198 willfully " prepares, liable for a civil penal series of the Write Director review demand the above listed.	vith 43 CFR : Each stipulate, If you do FR 3163.1(a), corrections mu. 2, as implement a maintains, o alty of up to Stand Appeal tten Order. To ission may be discussed to Bureau of I	not comply as n Failure to compast be postmarked ented by the appr submits false, (25,000 per violation of the submits request must appealed to the and Manageme	oted above unde ply with the INC ed no later than to plicable provision inaccurate, or mation for each da at the filed within the Interior Board on to office for furth	receipt of the from receipt of Land Appeals, 801 North her information.	of of this Notice and Completed By", you as outlined in 43 CFn he prescribed time as at Title 43 CFR Tidavits, records, da not to exceed a
The Authorized Officer has his Notice or 7 business da eported to the Bureau of L hall be issued an Incident of 163.1 and may also incur orame for correction. Section 109(d)(1) of the Fed 163.2(f)(1), provides that a rother written information maximum of 20 days. The person contesting a decisi perioriate State Director (suite 300, Arlington, VA 22	and Managen of Noncompli civil penalties deral Oil and i any person what required by t ion shall requires see 43 CFR 31 2203 (see 43 C	nent Office at the ance (INC) in ac (43 CFR 3163.2) Gas Royalty Man on "knowingly or his part shall be est a State Direct 165.3). The State CFR 3165.4). Co	address shown above cordance with 43 CF. All self-certified conagement Act of 198 willfully "prepares, liable for a civil penal content of the Writer and the work of the work of the Writer and the work of the	vith 43 CFR 2 Each stipulat re. If you do PR 3163.1(a). orrections mu 2, as impleme, maintains, o alty of up to \$ and Appeal tten Order. T cision may be d Bureau of I	not comply as n Failure to compast be postmarked ented by the appr submits false, i25,000 per viola Rights This request must appealed to the and Manageme	oted above unde ply with the INC ed no later than to plicable provision inaccurate, or mation for each da at the filed within the Interior Board on to office for furth	receipt of the from receipt of Land Appeals, 801 North her information.	of of this Notice and Completed By", you as outlined in 43 CFn he prescribed time as at Title 43 CFR Tidavits, records, da not to exceed a
The Authorized Officer has his Notice or 7 business da eported to the Bureau of L hall be issued an Incident of 163.1 and may also incur orame for correction. Section 109(d)(1) of the Fed 163.2(f)(1), provides that a rother written information maximum of 20 days. The person contesting a decisi perioriate State Director (suite 300, Arlington, VA 22	and Managen of Noncompli civil penalties deral Oil and i any person what required by t ion shall requires see 43 CFR 31 2203 (see 43 C	nent Office at the ance (INC) in ac (43 CFR 3163.2) Gas Royalty Man on "knowingly or his part shall be est a State Direct 165.3). The State CFR 3165.4). Co	address shown above cordance with 43 CF. All self-certified conagement Act of 198 willfully "prepares, liable for a civil penal content of the Writer and the work of the work of the Writer and the work of the	vith 43 CFR : Each stipulate, If you do FR 3163.1(a), corrections multiput and Appeal tten Order. To ision may be d Bureau of I	not comply as n Failure to compact be postmarked ented by the approximate submits false, i25,000 per violation of the request must appealed to the and Manageme	oted above unde ply with the INC ed no later than to plicable provision inaccurate, or mation for each da at the filed within the Interior Board on an office for furth	receipt of the from receipt of Land Appeals, 801 North her information.	of of this Notice and Completed By", you as outlined in 43 CFn he prescribed time as at Title 43 CFR Tidavits, records, da not to exceed a
The Authorized Officer has his Notice or 7 business da eported to the Bureau of L hall be issued an Incident of 163.1 and may also incur orame for correction. Section 109(d)(1) of the Fed 163.2(f)(1), provides that a rother written information maximum of 20 days. The person contesting a decisi perioriate State Director (suite 300, Arlington, VA 22	and Managen of Noncompli civil penalties deral Oil and i any person what required by t ion shall requires see 43 CFR 31 2203 (see 43 C	nent Office at the ance (INC) in ac (43 CFR 3163.2) Gas Royalty Man on "knowingly or his part shall be est a State Direct 165.3). The State CFR 3165.4). Co	address shown above cordance with 43 CF. All self-certified conagement Act of 198 willfully "prepares, liable for a civil penal content of the Writer and the work of the work of the Writer and the work of the	vith 43 CFR : Each stipulat re, If you do FR 3163.1(a). corrections mu. 2, as implementations, of alty of up to \$ and Appeal tten Order. T	not comply as n Failure to compact to compact be postmarked ented by the approximate submits false, i25,000 per violation. Rights	oted above unde ply with the INC ed no later than t blicable provision inaccurate, or mation for each da	receipt receipt receipt receipt receipt receipt receipt and result in assessments a she next business day after the receipt re	of of this Notice and Completed By", you as outlined in 43 CFn he prescribed time as at Title 43 CFR Tidavits, records, da not to exceed a
The Authorized Officer has his Notice or 7 business of a eported to the Bureau of L hall be issued an Incident of 163.1 and may also incur frame for correction.	and Managerr of Noncompli civil penalties deral Oil and	nent Office at the ance (INC) in ac (43 CFR 3163.2	address shown above cordance with 43 CF and the self-certified contagement Act of 198	vith 43 CFR 2 Each stipulative. If you do FR 3163.1(a). corrections mu.	not comply as n Failure to com- ast be postmarked	ply with the INC and no later than t	receive Action to be C may result in assessments a the next business day after the	of this Notice and Completed By", you as outlined in 43 CF are prescribed time
The Authorized Officer has his Notice or 7 business da eported to the Bureau of L hall be issued an Incident of 163.1 and may also incur trame for correction.	and Managenr of Noncompli civil penalties	nent Office at the ance (INC) in ac (43 CFR 3163.2	address shown above cordance with 43 CF). All self-certified c	with 43 CFR 3 Each stipulatore. If you do FR 3163.1(a). corrections ma	not comply as n Failure to com ast be postmarke	oted above unde ply with the INC ed no later than t	r "Corrective Action to be C may result in assessments a the next business day after the	of this Notice and Completed By", you as outlined in 43 CF he prescribed time
company Connents	***************************************							
- ompany Comments					***************************************			
Company Comments				•			Date	
Company Representative T				Signature			Date	
When the Written Order is		h, sign this notic	e and return to above	address.				
Reclamation work on nearly ready for final 1. There is hydrocarb (Remarks continued o	this site do abandonme	es not appea ent.	r to have been e				ht	
An onsite inspection orders, and BLM auth		rious are as r	ollows.					
08/04/2014 Remarks:			09/20/2014	<u> </u>		1 4	13 CFR 3162.5-1(c); PSR of (001
00/04/004	(24-11011	r clock)	Completed by		orrected		Authority Reference	
Date	Tir	me C	orrective Action to be		Date			
	The follow	ing condition(s) we	re found by Bureau of	Land Managen	ent Inspectors on	the date and at the	site(s) listed above	
Site Name	И	Well/Facility/FMF	1/4 1/4 Section	Township	Range	Meridian	County	State
***		Well/Facility/FMI	1/4 1/4 Section	Township	Range	Meridian	County	NM State
JACKSON Site Name	В	15	NWSW 1	Township 17S	Range 30E	Meridian NMP	County EDDY	State
Site Name	HU	GHES S Well/Facility/FMI	2 1/4 1/4 Section					
		.201.0072		Attn	Addr			
Inspector	575	.234.5972		Atte	ntion	101(1,4/0)	<u> </u>	
		BAD NM 8822	ΞΓ Ο	Add	ress	801 CHERI	RY STREET UNIT 9 RTH TX 76102-6881	
Telephone	CARLSE					BURNETT	OIL COMPANY INC	
Telephone	620 E GR	D FIELD OFF	ICE					

BLM Remarks, continued

- it. This contamination appears to be preventing vegetation.
- a. The zone of the contaminated soil on this site must be delineated by chemical testing.
- b. Contaminated topsoil will need to be excavated, removed, and replaced with clean material.

 c. If excavation is not sufficient to eliminate contaminant, a caliche and/or 20-mm polyliner may be necessary to cap off deeply-penetrating, subsurface contaminant and isolate it from clean topsoil.
- d. After all contaminant has been eliminated and/or isolated from topsoil, reseed with BLM LPC/Shinnery Site Seed Mixture.
- ~43 CFR 3162.5-1(c)
- 2. This site needs a berm along the southern edge of road running to the new Jackson B 57 to prevent more contamination and/or vehicle traffic.
- ~PSR of 001*
- 3. Overall, desirable vegetation, on the reclaimed areas, appears to be about 10-20% density with respect to the background, undisturbed vegetation. This vegetation is comprised of mostly grasses, with some annual weeds. Revegetation CANNOT be deemed successful at this time. Please, till and reseed site with BLM LPC/Shinnery Site Seed Mixture.
- ~PSR of 001*

*PSR of OO1: Plans for Surface Reclamation Section of Onshore Oil and Gas Order no. 1
http://www.blm.gov/style/medialib/blm/wo/MINERALS_REALTY_AND_RESOURCE_PROTECTION_/energy/onshore_order_videos.Par.62610.File.dat/Onshore_Order_No_1_The_Order.pdf

Please, plan to address these issues before the abatement date. If you are unable to have all the issues addressed by the abatement date and/or have any questions about this notice, please, contact me by the information below.

Attn: Sol Hughes Bureau of Land Management CFO Environmental Protection Division 620 E. Greene Street Carlsbad, NM 88220

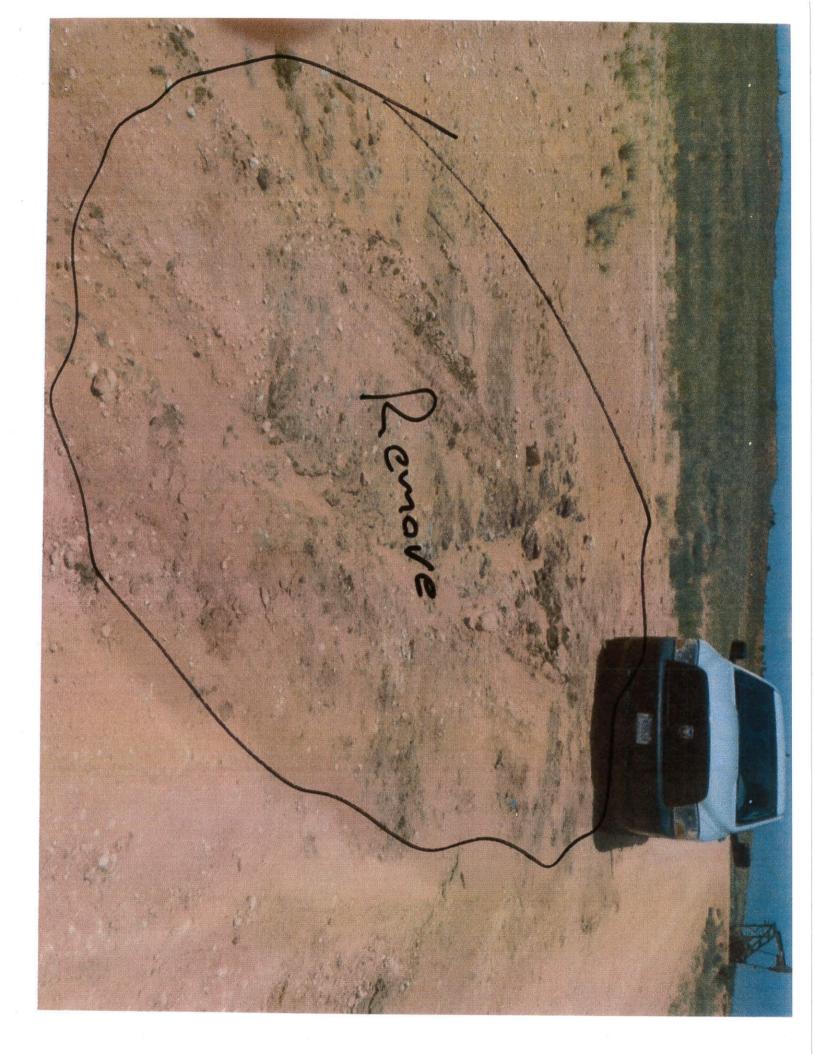
Office: 575.234.5951 Fax: 575.885.9264 Email: shughes@blm.gov

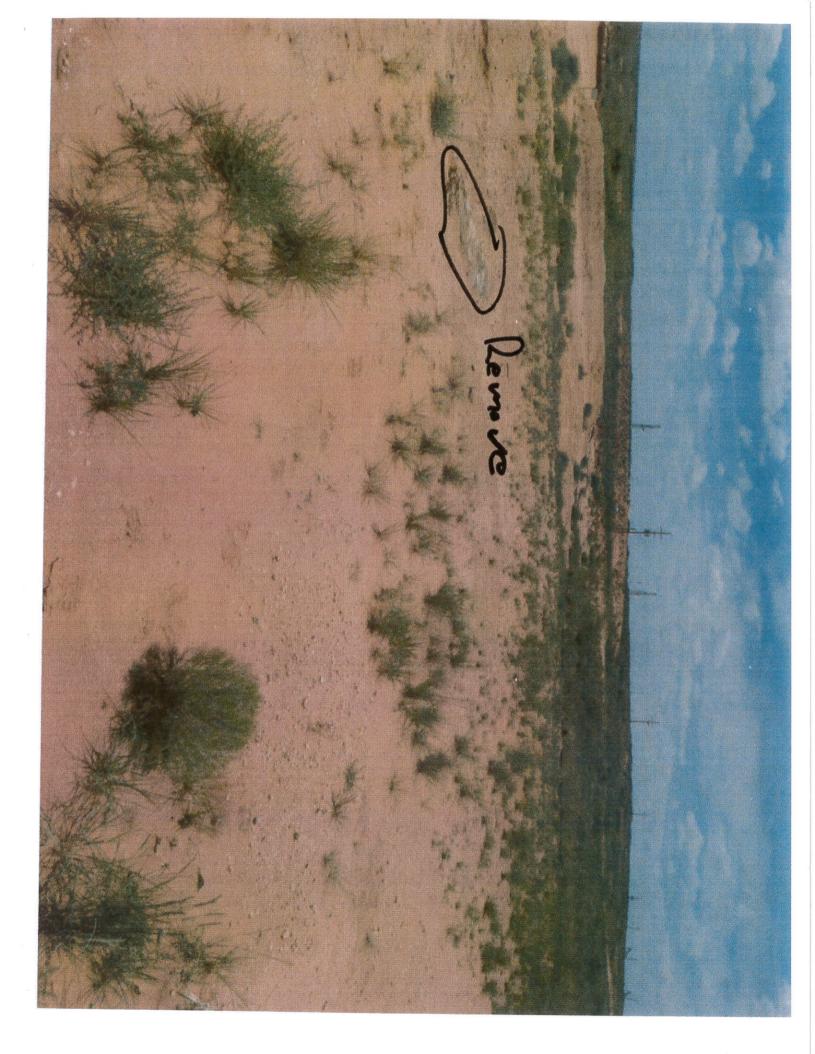


Google earth

feet ______2000 meters 700

A





Seed Mixture for LPC Sand/Shinnery Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

10/4010	
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	11bs/A

lh/acre

Species

5lbs/A

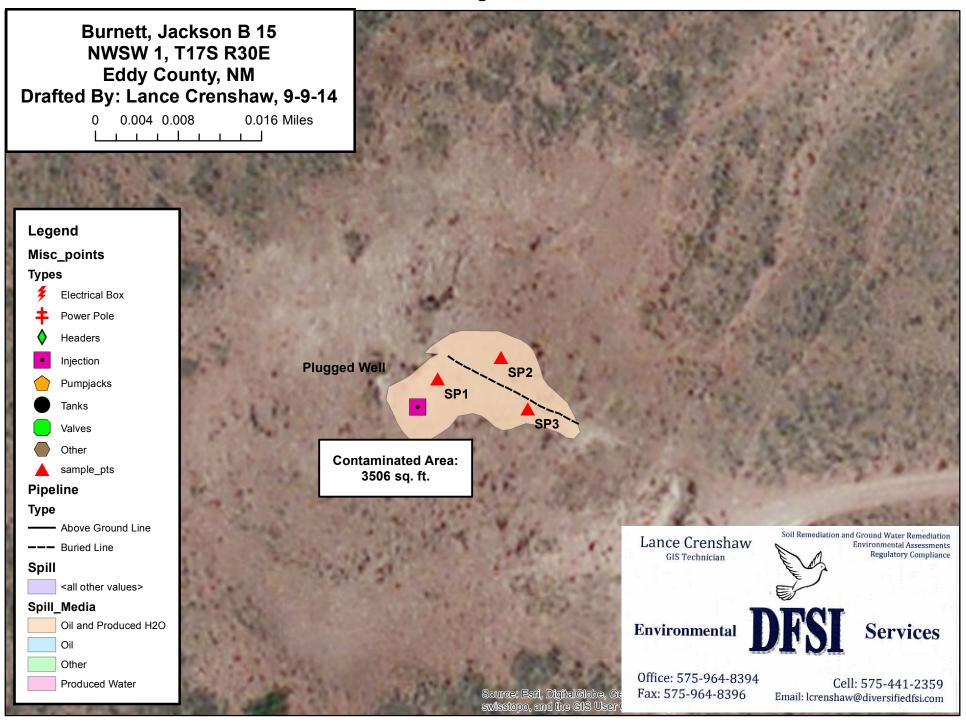
Pounds of seed x percent purity x percent germination = pounds pure live seed

^{**}Four-winged Saltbush

^{*} This can be used around well pads and other areas where caliche cannot be removed.

^{*}Pounds of pure live seed:

Site Diagram



Company Name:Burnett Oil GasSP Date:9/8/14Location Name:Jackson B 15Rel Date:

SP1	CHL	TPH	SP2	CHL	TPH	SP3	CHL	TPH	SP4	CHL	TPH	SP5	CHL	TPH
urf	1299	286.3	surf	774	3.5	surf	524	2.7						
L'	3049	192.4	1'	449	1.9	1'	449	1.3						
2'	4128	45.6	2'	374	2.3	2'	299	1						
) '	2799	32.1	2'	624	0	2'	96							
ļ'	1824	10.1				3'	96	0						
;'	3274	3.7												
;'	1274	6.1												
7'	1274	4.5												
5'	1200	2840												
,,	1330	2680												
Augur Ref	usal													
-														
-														

SP6	CHL	TPH	SP7	CHL	TPH	SP8	CHL	TPH	SP9	CHL	TPH	SP10	CHL	TPH
									⅃					
									⅃					
									⅃					
									⅃					
									⅃ ┃ <u></u>					
						4			↓					
									_					
									_					
									_					
									_					
									_					
									_					
									⅃					
									⅃					
			_						⅃			_		
									_					
								1						

SP11	CHL	TPH	SP12	CHL	TPH	SP13	CHL	TPH	SP14	CHL	TPH	SP15	CHL	TPH
			-						1					-
			-						1					+-
									┨ ├───					_
									-			-		
			_											
			→ 											
														-
			-						1					+
			+						1					_
									- -					
			_						┥ ├──					
			_											
									1					

SP16	CHL	TPH	SP17	CHL	TPH	SP18	CHL	TPH	SP19	CHL	TPH	SP20	CHL	TPH



September 15, 2014

NATALIE GLADDEN

DIVERSIFIED FIELD SERVICES, INC.

P. O. BOX 5966

HOBBS, NM 88241

RE: JACKSON B #15

Enclosed are the results of analyses for samples received by the laboratory on 09/12/14 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

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:

DIVERSIFIED FIELD SERVICES, INC.
NATALIE GLADDEN
P. O. BOX 5966
HOBBS NM, 88241

Fax To: (575) 393-2981

Received: 09/12/2014 Sampling Date: 09/10/2014

Reported: 09/15/2014 Sampling Type: Soil Project Name: JACKSON B #15 Sampling Condition: Coo

Project Name: JACKSON B #15 Sampling Condition: Cool & Intact
Project Number: PO#16466 Sample Received By: Jodi Henson

Project Location: BURNETT OIL & GAS

Sample ID: SP 1 @ 6' (H402844-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	09/12/2014	ND	400	100	400	0.00		
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	09/12/2014	ND	179	89.5	200	4.85		
DRO >C10-C28	2840	100	09/12/2014	ND	179	89.6	200	8.57		
Surrogate: 1-Chlorooctane	103	% 65.2-14	0							

Surrogate: 1-Chlorooctane 103 % 65.2-140
Surrogate: 1-Chlorooctadecane 236 % 63.6-154

Sample ID: SP 1 @ 7' (H402844-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	09/12/2014	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	09/12/2014	ND	179	89.5	200	4.85	

Surrogate: 1-Chlorooctane 103 % 65.2-140 Surrogate: 1-Chlorooctadecane 208 % 63.6-154

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Analytical Results For:

DIVERSIFIED FIELD SERVICES, INC. NATALIE GLADDEN P. O. BOX 5966 HOBBS NM, 88241

Fax To: (575) 393-2981

Received: 09/12/2014 Sampling Date: 09/10/2014

Reported: 09/15/2014 Sampling Type: Soil

Project Name: JACKSON B #15 Sampling Condition: Cool & Intact
Project Number: PO#16466 Sample Received By: Jodi Henson

Project Location: BURNETT OIL & GAS

Sample ID: SP 2 @ 2' (H402844-03)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 16.0 09/12/2014 ND 400 100 400 0.00 624

Sample ID: SP 3 @ 3' (H402844-04)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte Result % Recovery Chloride 96.0 16.0 09/12/2014 400 400 0.00 ND 100

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

120 TO		BILL 10	ANALYSIS REQUEST
Project Manager:	The second secon	P.O. #: 16466	- 1
Address:		Company: DFSI	
City: State:	Zip:	Attn: Michae Patterson	
Phone #: Fax #:		Address:	
Project #: Project Owner:		City:	
Project Name:		State: Zip:	
Project Location: Jackson 8#15	Eddy CO	Phone #:	
Sampler Name: MA \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0	Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	AB OR (C)OME NTAINERS UNDWATER TEWATER DGE	/BASE: COOL	
HABZOHA	# CON GROU WAST	ICE / C	4
1 SPICE 6	7	9-10-14 10:00	2
2 St. 1@7'	-	×	
5 SEAD 2.	_	9-10-14 10:20	
4 SP3@ 3.	×	X 9-10-14 10:30 X	
PLEASE NOTE: Lidabity and Damayes. Candinal's liability and client's exclusive remedy for any clean arising whether based in contract or toot, shall be finited to the amount poid by the cheen for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and occurred by Cardinal willin 30 days after comparison of the gradicable.	any claim arising whether based in contract or deerned waived unless made in writing and i	or tort, shall be imited to the amount pold by the chent for the received by Cardinal within 30 days after completion of the applicable	

+ Cardinal cannot accent verhal channes Blease fav written channes to IETEI 2029226

3HZ

Sample Condition
Cool Intact
Lives Lives
No No

Ngladden@diversifiedfsi.com Rpons@diversifiedfsi.com

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Time:

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes☐ Yes

O No

Add'l Phone #: Add'l Fax #:

E-mail Results To:

Relinquished By

Relinquished B