

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

Form C-141
 Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Dugan Production Corp	Contact: Rodger Mullins
Address PO Box 420, Farmington NM 87499-0420	Telephone No. (505)320-5443
Facility Name: Angels Gate 90	Facility Type: Gas well
Surface Owner: Federal	Mineral Owner: Federal
API No. 3004529394	

LOCATION OF RELEASE

Unit Letter G	Section 21	Township 24N	Range 8W	Feet from the 1340	North/South Line North	Feet from the 1400	East/West Line East	County San Juan
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Latitude: 36.30363 _ Longitude: -107.68233 _

NATURE OF RELEASE

Type of Release: Engine Oil	Volume of Release: Unk	Volume Recovered: Over 12yds contaminated soil.
Source of Release: Engine leakage	Date and Hour of Occurrence Historical	Date and Hour of Discovery 12-14-17 1300
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Discovered by BLM Casey Arnett.	
By Whom? BLM Casey Arnett	Date and Hour: Unk	
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.
 Describe Cause of Problem and Remedial Action Taken.* Engine leakage. Oil leaked through undetected crack in concrete pad under pump jack. Leaks repaired.

Describe Area Affected and Cleanup Action Taken.*
 Area under pump jack. Pump jack was removed. Contaminated soil under pump jack was removed and hauled to approved land farm and replaced with clean soil. **(On 06-06-18 a five point composite of soil samples was obtained from the excavation area by drilling down around the pump jack at an angle with a sample auger so as to retrieve samples from directly under the pump jack. Sample holes were approximately three feet deep which is slightly deeper than the bottom of the excavated area. Soil samples were sent to Cardinal laboratories in Hobbs, NM for analyses. (See attached lab results).)**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD 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, NMOCD 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: <i>Rodger V. Mullins</i>	OIL CONSERVATION DIVISION	
Printed Name: Rodger Mullins	Approved by Environmental Specialist: <i>Casey Arnett</i>	
Title: Environmental	Approval Date: 8/10/18	Expiration Date:
E-mail Address: rodger.mullins@duganproduction.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 04-23-18	Phone: (505)320-5443	

* Attach Additional Sheets If Necessary

#NCS 181235 1756

NMOCD
JUN 28 2018
DISTRICT III

12

June 26, 2018

MIKE SANDOVAL
DUGAN PRODUCTION
P. O. BOX 420
FARMINGTON, NM 87499

RE: ANGELS GATE #90

Enclosed are the results of analyses for samples received by the laboratory on 06/08/18 9:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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:DUGAN PRODUCTION
P. O. BOX 420
FARMINGTON NM, 87499Project: ANGELS GATE #90
Project Number: AROUND PUMPING UNIT
Project Manager: MIKE SANDOVAL
Fax To: (505) 327-4043Reported:
26-Jun-18 09:48

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ANGELS GATE #90	H801569-01	Soil	06-Jun-18 14:00	08-Jun-18 09:30

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DUGAN PRODUCTION P. O. BOX 420 FARMINGTON NM, 87499	Project: ANGELS GATE #90 Project Number: AROUND PUMPING UNIT Project Manager: MIKE SANDOVAL Fax To: (505) 327-4043	Reported: 26-Jun-18 09:48
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ANGELS GATE #90
H801569-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8060901	MS	09-Jun-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8060901	MS	09-Jun-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8060901	MS	09-Jun-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8060901	MS	09-Jun-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8060901	MS	09-Jun-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142 8060901 MS 09-Jun-18 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8060812	MS	08-Jun-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8060812	MS	08-Jun-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8060812	MS	08-Jun-18	8015B	

Surrogate: 1-Chlorooctane 85.6 % 41-142 8060812 MS 08-Jun-18 8015B

Surrogate: 1-Chlorooctadecane 94.3 % 37.6-147 8060812 MS 08-Jun-18 8015B

Green Analytical Laboratories
General Chemistry

% Dry Solids	95.6			%	1	B806196	LLG	25-Jun-18	EPA160.3/16 84	H2
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Total Metals by ICP

Arsenic	<10.0		10.0	mg/kg dry	100	B806182	JDA	22-Jun-18	6010B	
Barium	150		5.00	mg/kg dry	100	B806182	JDA	22-Jun-18	6010B	
Cadmium	<5.00		5.00	mg/kg dry	100	B806182	JDA	22-Jun-18	6010B	
Chromium	7.12		5.00	mg/kg dry	100	B806182	JDA	22-Jun-18	6010B	
Lead	<10.0		10.0	mg/kg dry	100	B806182	JDA	22-Jun-18	6010B	
Selenium	<20.0		20.0	mg/kg dry	100	B806182	JDA	22-Jun-18	6010B	
Silver	<1.00		1.00	mg/kg dry	100	B806182	JDA	22-Jun-18	6010B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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**ANGELS GATE #90
H801569-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
Total Mercury by CVAA

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Mercury	<0.105		0.105	mg/kg dry	500	B806191	LLG	22-Jun-18	EPA7471	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DUGAN PRODUCTION P. O. BOX 420 FARMINGTON NM, 87499	Project: ANGELS GATE #90 Project Number: AROUND PUMPING UNIT Project Manager: MIKE SANDOVAL Fax To: (505) 327-4043	Reported: 26-Jun-18 09:48
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Volatile Organic Compounds by EPA Method 8021 - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
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Batch 8060901 - Volatiles
Blank (8060901-BLK1) Prepared & Analyzed: 09-Jun-18

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.112		mg/kg	0.100		112	69.8-142			

LCS (8060901-BS1) Prepared & Analyzed: 09-Jun-18

Benzene	1.81	0.050	mg/kg	2.00		90.3	74.5-124			
Toluene	1.81	0.050	mg/kg	2.00		90.5	78.8-122			
Ethylbenzene	1.82	0.050	mg/kg	2.00		91.0	78.6-122			
Total Xylenes	5.73	0.150	mg/kg	6.00		95.4	79.7-123			
Surrogate: 4-Bromofluorobenzene (PID)	0.112		mg/kg	0.100		112	69.8-142			

LCS Dup (8060901-BSD1) Prepared & Analyzed: 09-Jun-18

Benzene	1.80	0.050	mg/kg	2.00		90.2	74.5-124	0.208	15.2	
Toluene	1.83	0.050	mg/kg	2.00		91.3	78.8-122	0.798	15.1	
Ethylbenzene	1.82	0.050	mg/kg	2.00		91.2	78.6-122	0.242	15.4	
Total Xylenes	5.71	0.150	mg/kg	6.00		95.2	79.7-123	0.244	15.2	
Surrogate: 4-Bromofluorobenzene (PID)	0.111		mg/kg	0.100		111	69.8-142			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DUGAN PRODUCTION P. O. BOX 420 FARMINGTON NM, 87499	Project: ANGELS GATE #90 Project Number: AROUND PUMPING UNIT Project Manager: MIKE SANDOVAL Fax To: (505) 327-4043	Reported: 26-Jun-18 09:48
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Petroleum Hydrocarbons by GC FID - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8060812 - General Prep - Organics										
Blank (8060812-BLK1) Prepared & Analyzed: 08-Jun-18										
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	41.8		mg/kg	50.0		83.7	41-142			
Surrogate: 1-Chlorooctadecane	48.0		mg/kg	50.0		96.0	37.6-147			
LCS (8060812-BS1) Prepared & Analyzed: 08-Jun-18										
GRO C6-C10	172	10.0	mg/kg	200		85.8	76.5-133			
DRO >C10-C28	172	10.0	mg/kg	200		85.9	72.9-138			
Total TPH C6-C28	343	10.0	mg/kg	400		85.8	78-132			
Surrogate: 1-Chlorooctane	46.5		mg/kg	50.0		92.9	41-142			
Surrogate: 1-Chlorooctadecane	57.4		mg/kg	50.0		115	37.6-147			
LCS Dup (8060812-BSD1) Prepared & Analyzed: 08-Jun-18										
GRO C6-C10	207	10.0	mg/kg	200		103	76.5-133	18.5	20.6	
DRO >C10-C28	211	10.0	mg/kg	200		105	72.9-138	20.5	20.6	
Total TPH C6-C28	417	10.0	mg/kg	400		104	78-132	19.5	18	QR-02
Surrogate: 1-Chlorooctane	54.5		mg/kg	50.0		109	41-142			
Surrogate: 1-Chlorooctadecane	65.1		mg/kg	50.0		130	37.6-147			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DUGAN PRODUCTION P. O. BOX 420 FARMINGTON NM, 87499	Project: ANGELS GATE #90 Project Number: AROUND PUMPING UNIT Project Manager: MIKE SANDOVAL Fax To: (505) 327-4043	Reported: 26-Jun-18 09:48
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General Chemistry - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B806196 - General Prep - Wet Chem

Duplicate (B806196-DUP1)	Source: H801569-01		Prepared: 22-Jun-18 Analyzed: 25-Jun-18							
% Dry Solids	95.8	%		95.6	0.177	20				

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DUGAN PRODUCTION P. O. BOX 420 FARMINGTON NM, 87499	Project: ANGELS GATE #90 Project Number: AROUND PUMPING UNIT Project Manager: MIKE SANDOVAL Fax To: (505) 327-4043	Reported: 26-Jun-18 09:48
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Total Metals by ICP - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B806182 - EPA 3050
Blank (B806182-BLK1)

Prepared: 21-Jun-18 Analyzed: 22-Jun-18

Lead	ND	10.0	mg/kg dry							
Arsenic	ND	10.0	mg/kg dry							
Cadmium	ND	5.00	mg/kg dry							
Chromium	ND	5.00	mg/kg dry							
Selenium	ND	20.0	mg/kg dry							
Barium	ND	5.00	mg/kg dry							
Silver	ND	1.00	mg/kg dry							

LCS (B806182-BS1)

Prepared: 21-Jun-18 Analyzed: 22-Jun-18

Arsenic	405	10.0	mg/kg dry	400		101	80-120			
Silver	9.39	1.00	mg/kg dry	10.0		93.9	80-120			
Cadmium	182	5.00	mg/kg dry	200		91.0	80-120			
Barium	194	5.00	mg/kg dry	200		96.8	80-120			
Selenium	690	20.0	mg/kg dry	800		86.2	80-120			
Chromium	194	5.00	mg/kg dry	200		97.0	80-120			
Lead	187	10.0	mg/kg dry	200		93.3	80-120			

LCS Dup (B806182-BSD1)

Prepared: 21-Jun-18 Analyzed: 22-Jun-18

Arsenic	398	10.0	mg/kg dry	400		99.5	80-120	1.62	20	
Chromium	196	5.00	mg/kg dry	200		97.9	80-120	0.855	20	
Lead	187	10.0	mg/kg dry	200		93.3	80-120	0.00627	20	
Selenium	686	20.0	mg/kg dry	800		85.7	80-120	0.558	20	
Barium	195	5.00	mg/kg dry	200		97.6	80-120	0.818	20	
Cadmium	184	5.00	mg/kg dry	200		92.1	80-120	1.27	20	
Silver	9.40	1.00	mg/kg dry	10.0		94.0	80-120	0.144	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DUGAN PRODUCTION P. O. BOX 420 FARMINGTON NM, 87499	Project: ANGELS GATE #90 Project Number: AROUND PUMPING UNIT Project Manager: MIKE SANDOVAL Fax To: (505) 327-4043	Reported: 26-Jun-18 09:48
-----------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------	------------------------------

Total Mercury by CVAA - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B806191 - EPA 7471
Blank (B806191-BLK1)

Prepared & Analyzed: 22-Jun-18

Mercury ND 0.0002 mg/kg wet

LCS (B806191-BS1)

Prepared & Analyzed: 22-Jun-18

Mercury 0.0018 0.0002 mg/kg wet 0.00200 87.9 85-115

LCS Dup (B806191-BSD1)

Prepared & Analyzed: 22-Jun-18

Mercury 0.0021 0.0002 mg/kg wet 0.00200 105 85-115 18.0 20

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- H2 Sample analysis performed past hold time specified by the method.
- 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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(970) 247-4220
Fax: (970) 247-4227

service@greenanalytical.com or dzufeit@greenanalytical.com
75 Suttle St Durango, CO 81303

Company Name(optional): <i>Angus Production</i>		Bill to (if different):		ANALYSIS REQUEST <i>Betex, ToH, Benz, Metals</i> <i>6-10.5 Method</i>												
Project Contact Person: <i>Michael Sanderson</i>		P.O. #:														
Address:		Company:														
City:	State:	Zip:	Attn:													
Phone #:		Address:														
Email:		City:														
Project Name(optional): <i>Angels Gate #90</i>		State:												Zip:		
Project Number(optional): <i>Around Pumping unit</i>		Phone #:														
Sampler Name (Print):		Fax or Email:														
For Lab Use	Sample Name or Location	Collected		Matrix (check one)						# of containers						
		Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	OTHER :	No preservation (generally)	HNO ₃	HCl	H ₂ SO ₄	Other:	Other:	Other:
<i>H801569-</i>	<i>1 Angels Gate #90</i>	<i>6-6-18</i>	<i>2:00</i>													

PLEASE NOTE: GAL'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 the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion. In no event shall GAL 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 services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>[Signature]</i>	Date: <i>6/6/18</i> Time: <i>16:40</i>	Received By: <i>Christina Clark</i>	ADDITIONAL REMARKS: Report to State? (Circle) Yes No
Relinquished By: <i>Christina Clark</i>	Date: <i>6/7/18</i> Time: <i>16:00</i>	Received By: <i>Fed Ex</i>	
Relinquished By:	Date: <i>6-8-18</i> Time: <i>9:30</i>	Received By: <i>[Signature]</i>	
Delivered By: (Circle One)	Temperature at receipt: <i>3.5°C</i>	CHECKED BY: <i>[Signature]</i>	
Sampler - UPS - FedEx - Kangaroo - Other: <i>Corrected</i>	<i>3.45°C</i>	<i>5.1°C #75 on 19</i>	<i>u TO.</i>

† GAL cannot always accept verbal changes. Please fax or email written change requests.
* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.