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

State of New Mexico
Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

DENIED

Responsible Party Dugan Production Corp.	OGRID 006515
Contact Name Kevin Smaka	Contact Telephone 505-325-1821
Contact email kevin.smaka@duganproduction.com	Incident # *(assigned by OCD)* NCS1934449094
Contact mailing address PO Box 420, Farmington, NM 87499	

Location of Release Source

Latitude 36.11521 Longitude -107.65476
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Dorsey Com #90	Site Type Gas well location
Date Release Discovered 10/10/19	API# *(if applicable)* 30-045-33861

Unit Letter	Section	Township	Range	County
C	26	22N	8W	San Juan

Release dosnt meet Closure Requirments, Addtional Reasons on Page 6 of C-141.

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 20	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
Stuffing box began leaking due to normal wear and tear on equipment

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☐ The source of the release has been stopped.
☐ The impacted area has been secured to protect human health and the environment.
☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☐ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

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?	_____ (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ 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)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ 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?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☐ 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
Page 4

State of New Mexico
Oil Conservation Division

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: Kevin Smaka Title: Engineer

Signature: Kevin Smaka Date: 1-8-2020

email: _____ Telephone: 505-325-1821

OCD Only

Received by: _____ Date: _____

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

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: Kevin Smaka Title: Regulatory Engineer

Signature: Kevin Smaka Date: 12-12-19

email: _____ Telephone: 325-1821

OCD Only

Received by: _____ Date: _____

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: DENIED Date: _____

Printed Name: _____ Title: _____

Incorrect C-141 Type, Samples do not meet the Closure requirments due to Reclimation/Reveg of 600 mg/kg Since release is On pad, Operator may request deferral of impacts, however they must be fully delineated and a Remediation plan needs to be submitted requesting defferal. Operator must finish remediation or submit a complet rememdiation plan no later than June 29, 2020

Dorsey #90

Produced water spill closure Report

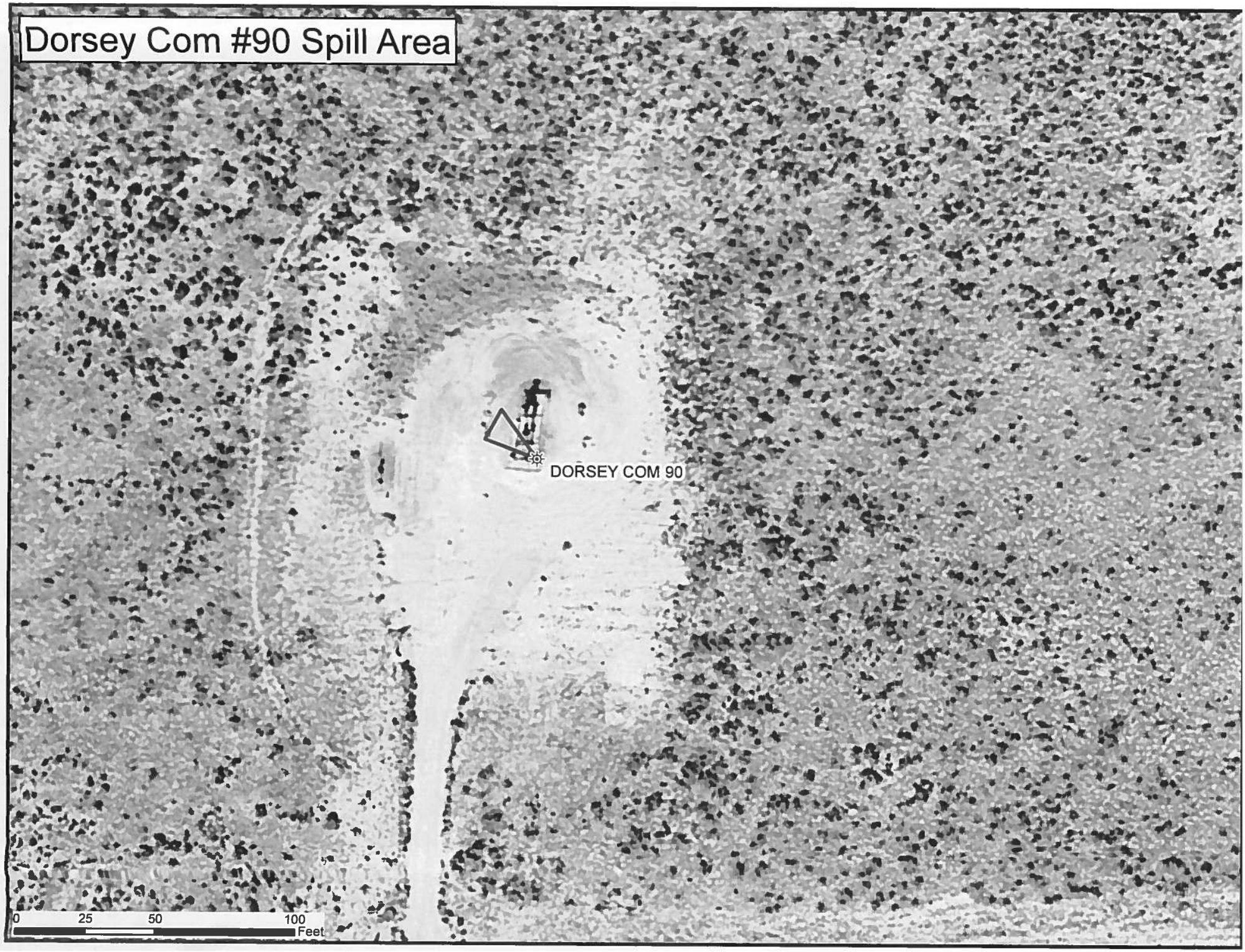
On 10-10-19 an inspector with the NMOCD notified us of a spill that was caused by a leaking stuffing box. The area was measured with a surveyor's wheel and it was estimated to be a triangular area with dimensions most nearly measuring 12' x 20'.

Subsequently the well was shut in, a temporary fence was built around the spills perimeter, the root cause of the leak was investigated and test holes were dug to determine how deep the water penetrated. It was determined less than 6'' of soil had been contaminated and this information was used in determining whether the spoil should be classified as major or minor. Based on this information it was determined approximately 22 bbl of water spilled on location.

From here Dugan commenced rehabilitation activities. Dugan spread 200 lbs of gypsum on the affected area and raked that into the soil. Dugan also spread 80 bbls of fresh water on the area to aid the chemical processes taking place between the gypsum and salts.

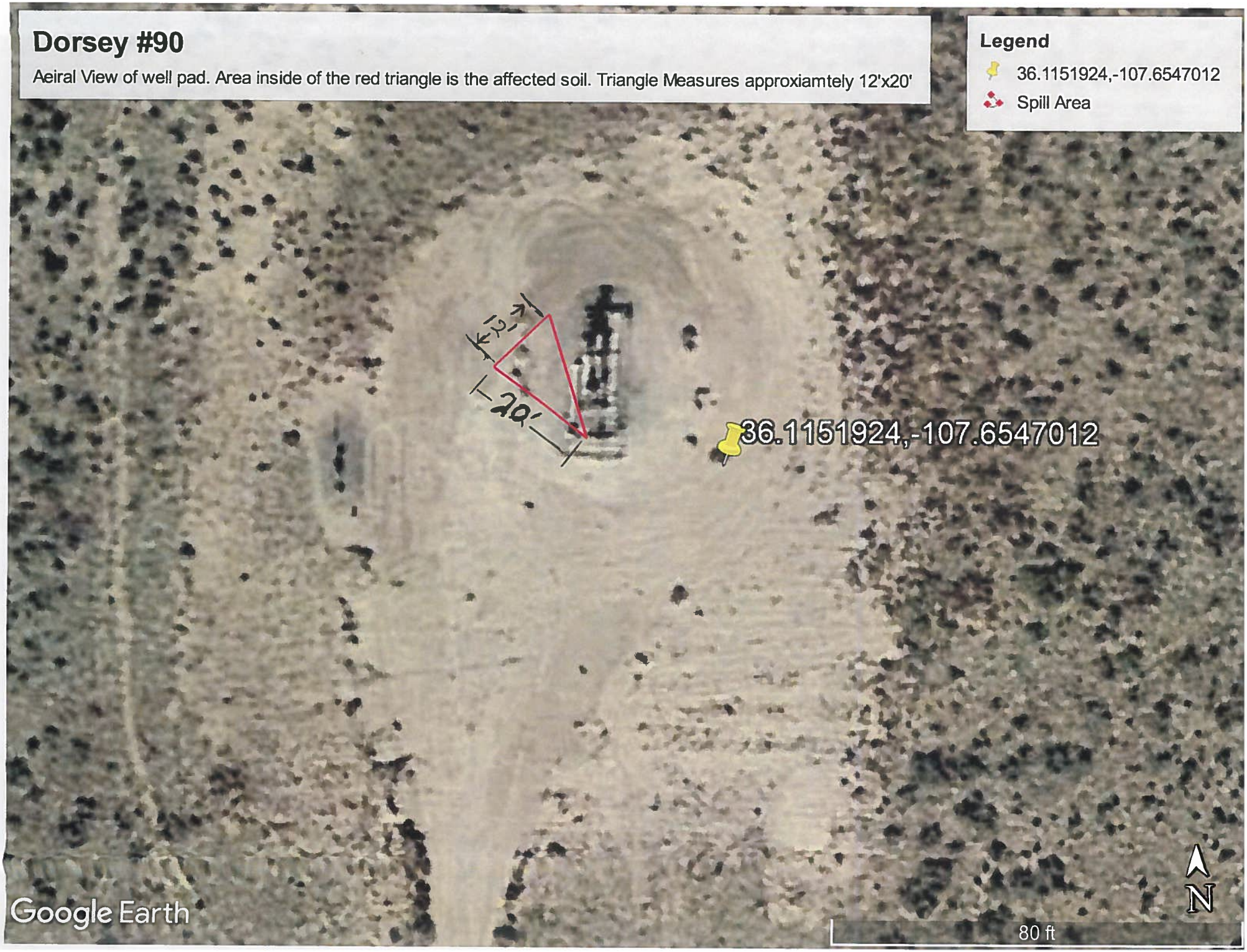
Once the soil looked better Dugan sent notices to the NM OCD and Farmington BLM that Dugan planned to sample the soils on the location as part of final closure. No agencies attended the sampling event.

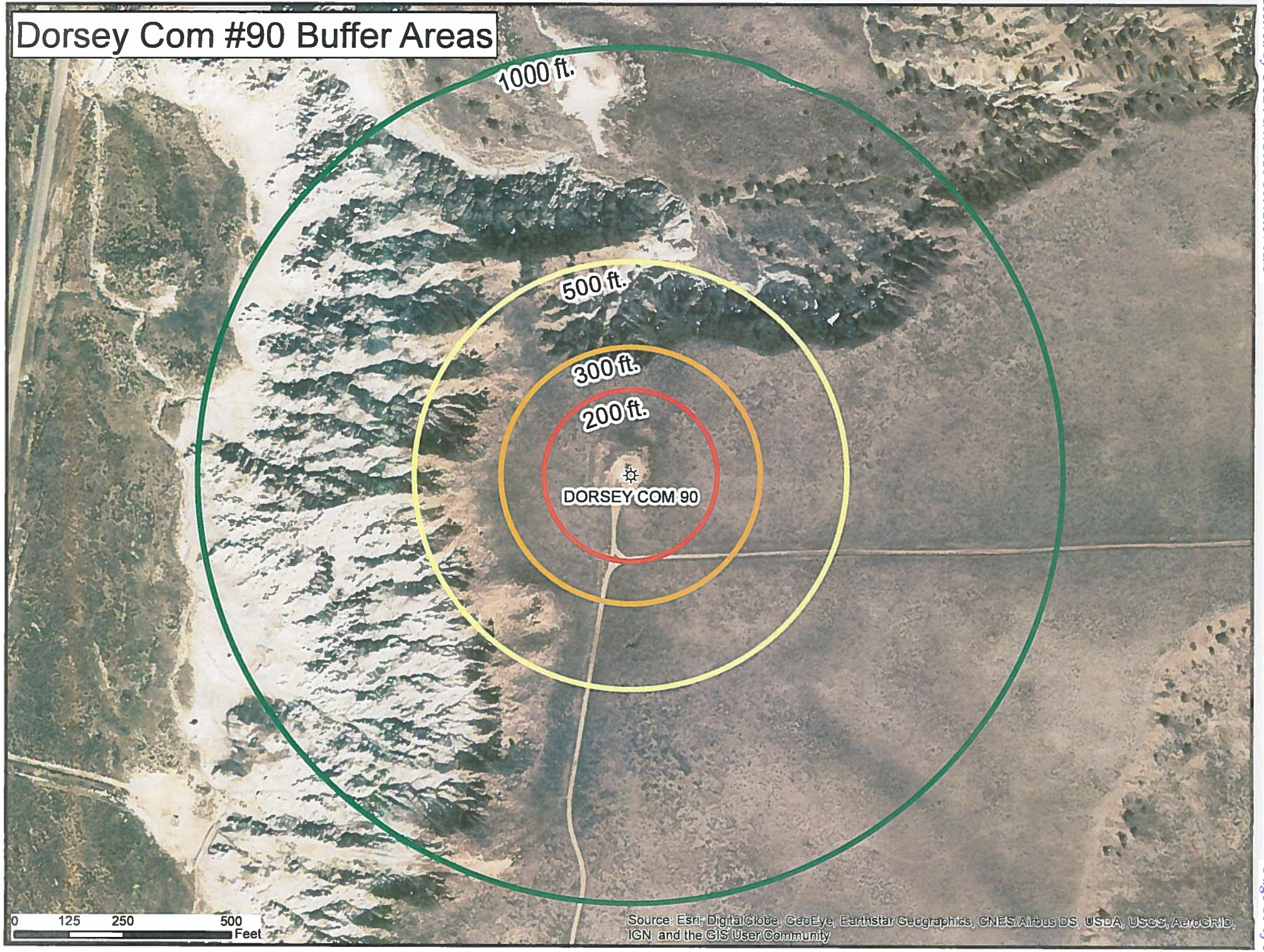
Dugan received results back that indicated all detected hydrocarbons and chlorides were within the limits indicated in NMAC 19.15.29 table 1 and based on Dugan's efforts to identify any sensitive areas (lakes, streams, dwellings, etc.) as directed in NMAC 19.15.29.12.c.4.a-h (various maps have been included to illustrate this). At this point the spill has been successful remediated, the root cause of the spill was corrected and the well was returned to production.

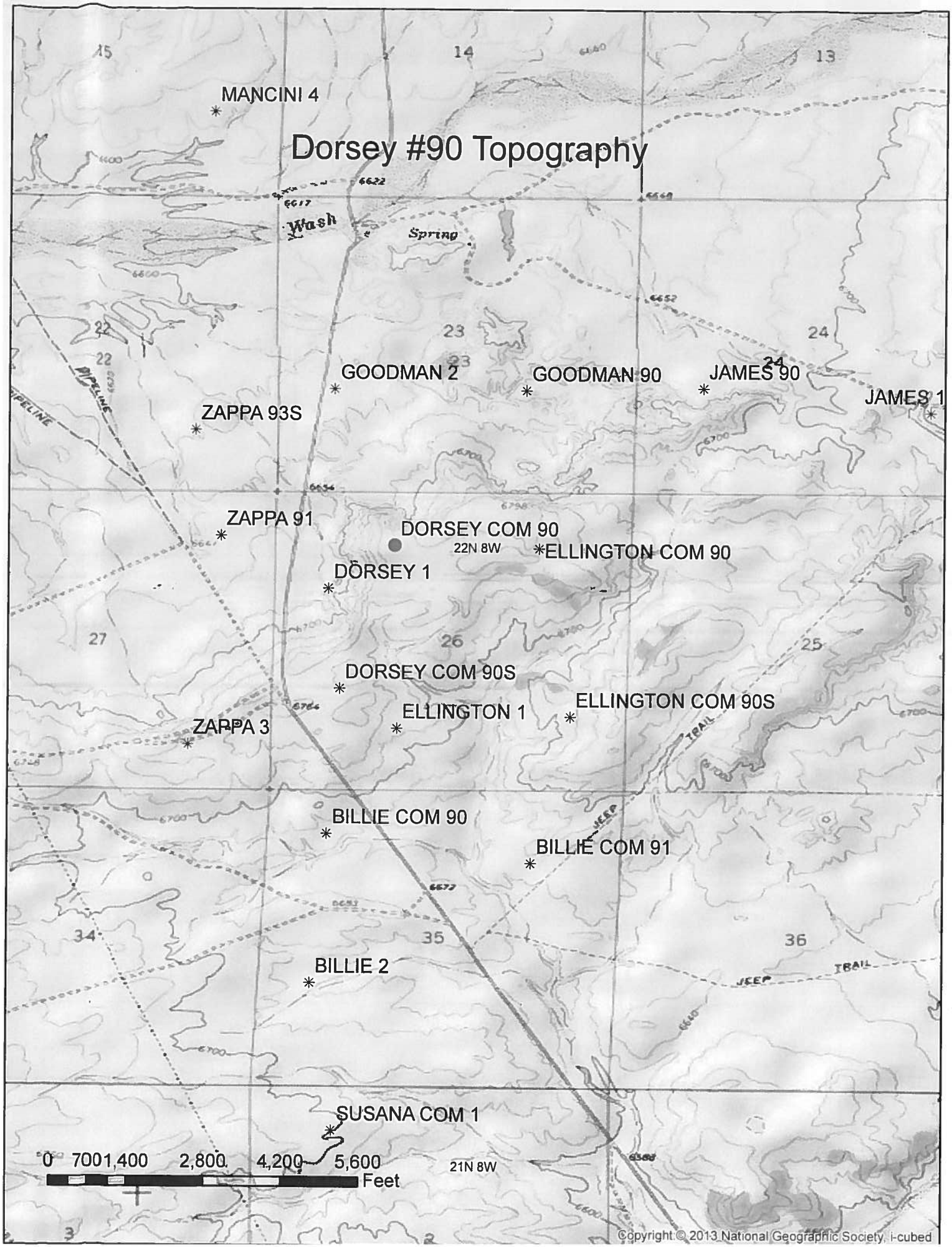


Dorsey #90

Aeiral View of well pad. Area inside of the red triangle is the affected soil. Triangle Measures approxiamtely 12'x20'

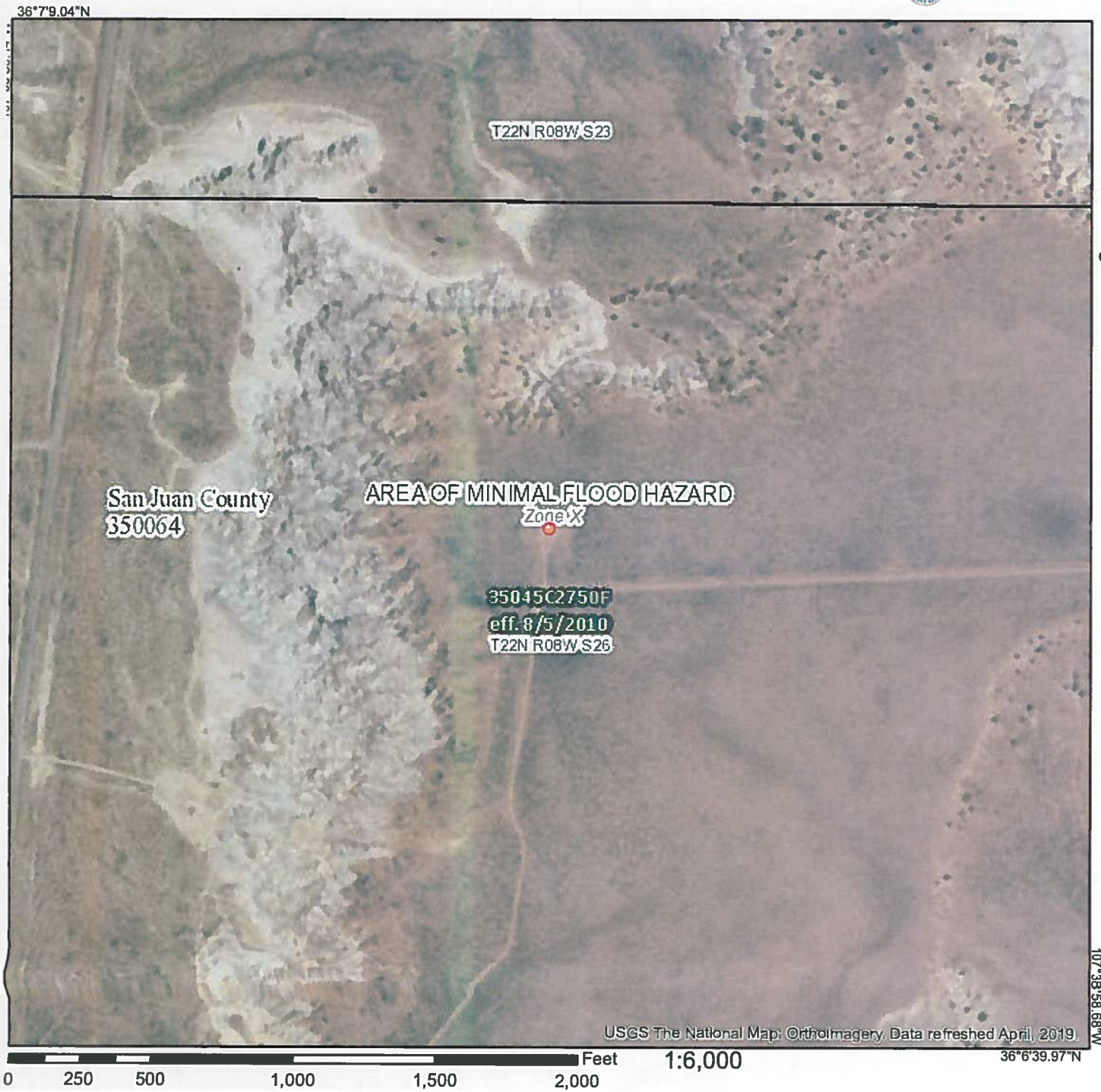





Dorsey #90 Topography
MANCINI 4
GOODMAN 2
GOODMAN 90
JAMES 90
JAMES 1
ZAPPA 93S
ZAPPA 91
DORSEY COM 90
22N 8W
ELLINGTON COM 90
DORSEY 1
DORSEY COM 90S
ELLINGTON 1
ELLINGTON COM 90S
ZAPPA 3
BILLIE COM 90
BILLIE COM 91
BILLIE 2
SUSANA COM 1
21N 8W
0 700 1,400 2,800 4,200 5,600
Feet
Wash
Spring
PIPELINE
JEEP TRAIL
Copyright © 2013 National Geographic Society, i-cubed

National Flood Hazard Layer FIRMette

FEMA



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) Zone A, V, A99
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Ar of 1% annual chance flood with avera depth less than one foot or with drain areas of less than one square mile Zon
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee. See Notes. Zone X
- Area with Flood Risk due to Levee Zone

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard Zone X
- Effective LOMRs
- Area of Undetermined Flood Hazard Z

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chanc
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

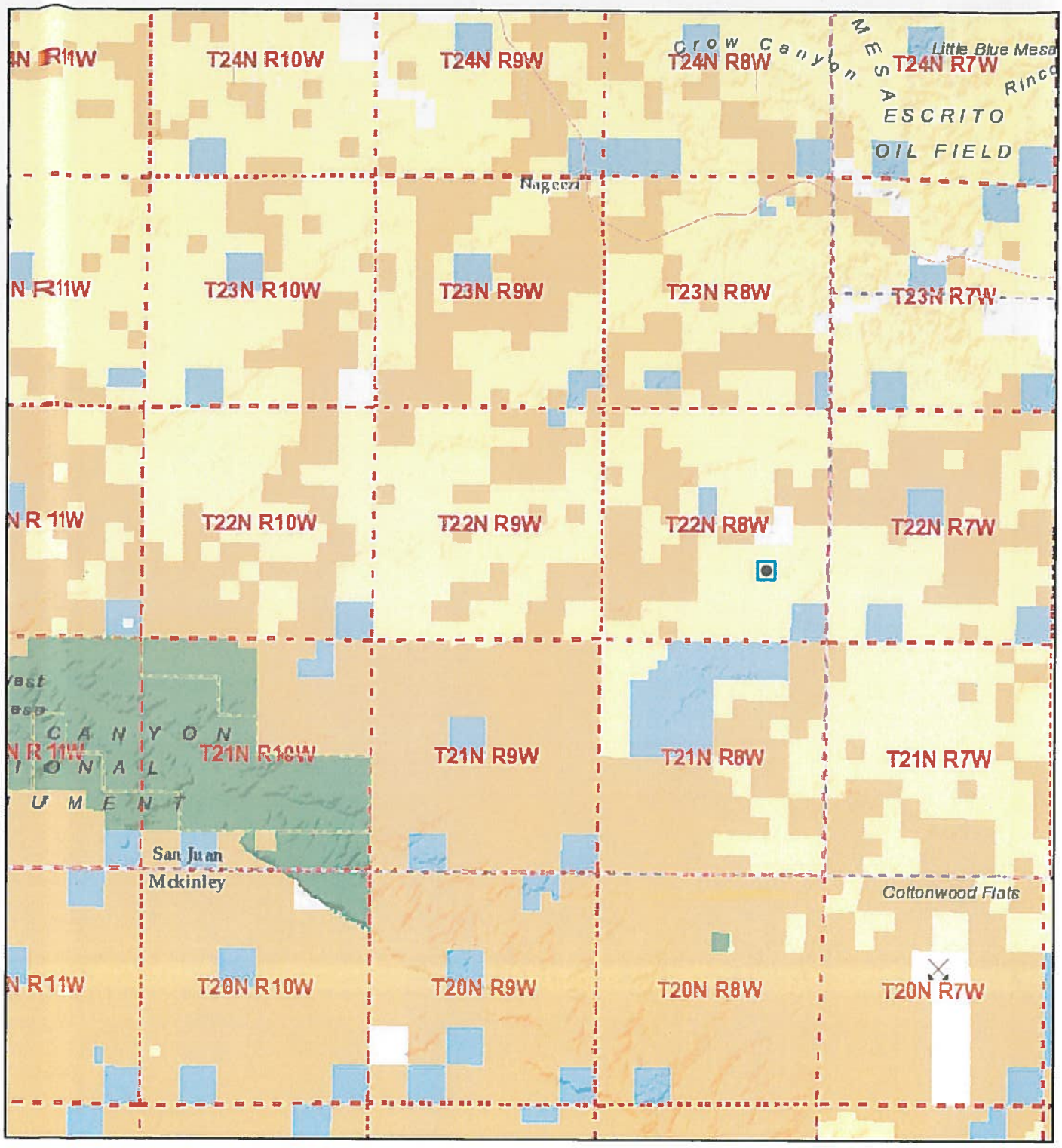
The pin displayed on the map is an approxima point selected by the user and does not repres an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/11/2019 at 4:50:44 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Active Mines in New Mexico



12/11/2019, 2:54:32 PM

1:288,895

0 2 4 8 mi

0 3 6 12 km

Registered Mines

Humate

U.S. Bureau of Land Management - New Mexico State Office, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

EMNRD MMD GIS Coordinator

NM Energy, Minerals and Natural Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795)

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

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 00948 EXPL		SJ	SJ	2	3	1	23	22N	08W	260863	4001404*	350	220	130
SJ 00949		SJ	SJ	1	4	4	14	22N	08W	261902	4002183*	2221		
SJ 00949 -S		SJ	SJ	1	3	2	01	22N	08W	263242	4006176*	2647	1106	1541
SJ 00949 EXPL		SJ	SJ	1	4	4	14	22N	08W	261902	4002183*	2245	790	1455
SJ 04335 POD1		SJ	SJ	1	4	4	14	22N	08W	261931	4002137	2230		

Average Depth to Water: **705 feet**
Minimum Depth: **220 feet**
Maximum Depth: **1106 feet**

Record Count: 5

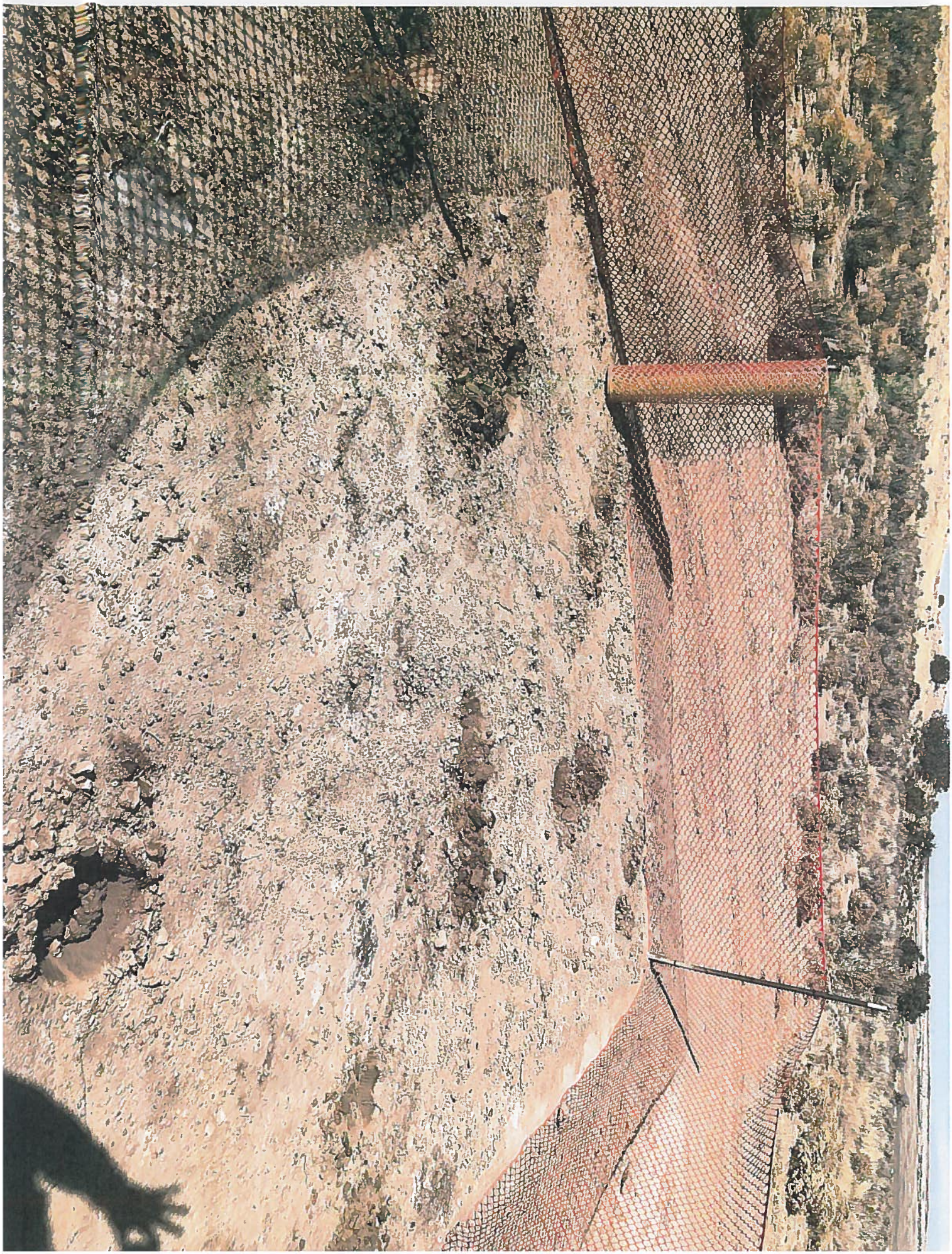
PLSS Search:

Township: 22N **Range:** 08W

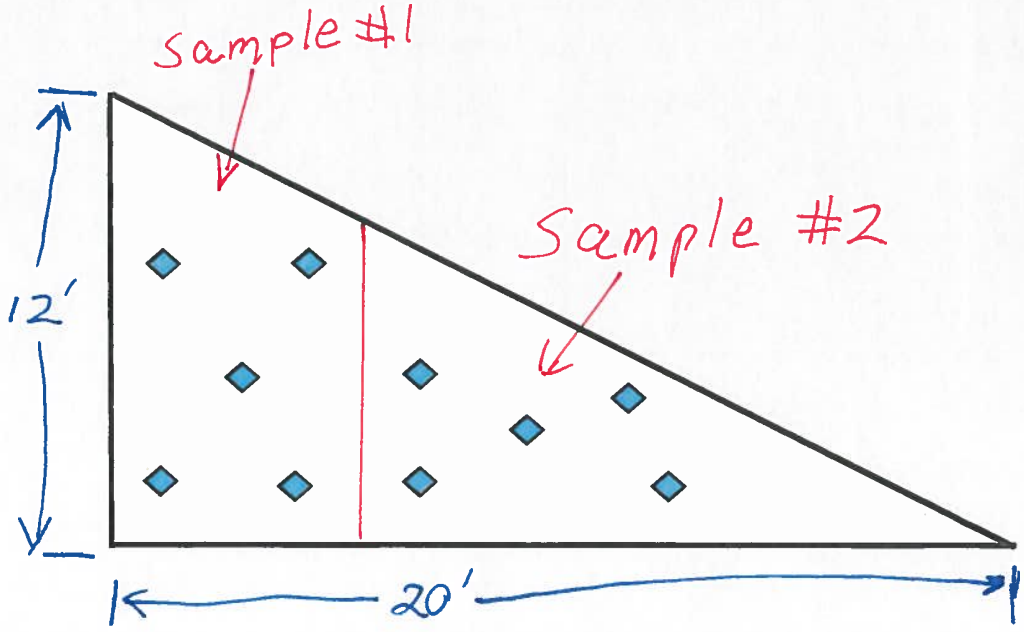
***UTM location was derived from PLSS - see Help**

12/11/19 2:59 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Dorsey #90 Sampling Diagram



envirotech
Analytical Laboratory

Analytical Report

Report Summary

Client: Dugan Production Corp.

Samples Received: 11/19/2019
Job Number: 06094-0177
Work Order: P911100
Project Name/Location: Dorsey Com #90

Report Reviewed By: Walter Hinchman Date: 11/26/19

Walter Hinchman, Laboratory Director

NELAP ACCREDITED TNI LABORATORY

Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

envirotech
Analytical Laboratory

Dugan Production Corp.	Project Name:	Dorsey Com #90	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Mike Sandoval	11/26/19 14:19

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Dorsey Com #90 #1	P911100-01A	Soil	11/19/19	11/19/19	Glass Jar, 4 oz.
	P911100-01B	Soil	11/19/19	11/19/19	Glass Jar, 4 oz.
Dorsey Com #90 #2	P911100-02A	Soil	11/19/19	11/19/19	Glass Jar, 4 oz.
	P911100-02B	Soil	11/19/19	11/19/19	Glass Jar, 4 oz.

envirotech
Analytical Laboratory

Dugan Production Corp.	Project Name:	Dorsey Com #90	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Mike Sandoval	11/26/19 14:19

Dorsey Com #90 #1
P911100-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947028	11/20/19	11/24/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947028	11/20/19	11/24/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947028	11/20/19	11/24/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947028	11/20/19	11/24/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947028	11/20/19	11/24/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947028	11/20/19	11/24/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*97.7 %*		*50-150*	*1947028*	*11/20/19*	*11/24/19*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1947035	11/20/19	11/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947035	11/20/19	11/22/19	EPA 8015D	
Surrogate: n-Nonane		*106 %*		*50-200*	*1947035*	*11/20/19*	*11/22/19*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947028	11/20/19	11/24/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.7 %*		*50-150*	*1947028*	*11/20/19*	*11/24/19*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**2060**	20.0	mg/kg	1	1947031	11/20/19	11/21/19	EPA 300.0/9056A	
Total Petroleum Hydrocarbons by 418.1									
Total Petroleum Hydrocarbons	ND	40.0	mg/kg	1	1948011	11/26/19	11/26/19	EPA 418.1	

Sample #1 Results

envirotech
Analytical Laboratory

Dugan Production Corp.	Project Name:	Dorsey Com #90	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Mike Sandoval	11/26/19 14:19

Dorsey Com #90 #2
P911100-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1947028	11/20/19	11/24/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1947028	11/20/19	11/24/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1947028	11/20/19	11/24/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1947028	11/20/19	11/24/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1947028	11/20/19	11/24/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1947028	11/20/19	11/24/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*96.8 %*		*50-150*	*1947028*	*11/20/19*	*11/24/19*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**32.8**	25.0	mg/kg	1	1947035	11/20/19	11/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1947035	11/20/19	11/22/19	EPA 8015D	
Surrogate: n-Nonane		*108 %*		*50-200*	*1947035*	*11/20/19*	*11/22/19*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1947028	11/20/19	11/24/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.8 %*		*50-150*	*1947028*	*11/20/19*	*11/24/19*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**224**	20.0	mg/kg	1	1947031	11/20/19	11/21/19	EPA 300.0/9056A	
Total Petroleum Hydrocarbons by 418.1									
Total Petroleum Hydrocarbons	ND	40.0	mg/kg	1	1948011	11/26/19	11/26/19	EPA 418.1	

Sample #2 Results

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Dugan Production Corp.	Project Name:	Dorsey Com #90	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Mike Sandoval	11/26/19 14:19

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1947028 - Purge and Trap EPA 5030A										
Blank (1947028-BLK1)				Prepared: 11/20/19 1 Analyzed: 11/23/19 1						
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	*7.88*		"	*8.00*		*98.5*	*50-150*			
LCS (1947028-BS1)				Prepared: 11/20/19 1 Analyzed: 11/23/19 1						
Benzene	5.68	0.0250	mg/kg	5.00		114	70-130			
Toluene	5.76	0.0250	"	5.00		115	70-130			
Ethylbenzene	5.68	0.0250	"	5.00		114	70-130			
p,m-Xylene	11.3	0.0500	"	10.0		113	70-130			
o-Xylene	5.66	0.0250	"	5.00		113	70-130			
Total Xylenes	17.0	0.0250	"	15.0		113	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8.04*		"	*8.00*		*101*	*50-150*			
Matrix Spike (1947028-MS1)		**Source: P911096-01**		Prepared: 11/20/19 1 Analyzed: 11/23/19 1						
Benzene	5.10	0.0250	mg/kg	5.00	ND	102	54.3-133			
Toluene	5.21	0.0250	"	5.00	ND	104	61.4-130			
Ethylbenzene	5.12	0.0250	"	5.00	ND	102	61.4-133			
p,m-Xylene	10.2	0.0500	"	10.0	ND	102	63.3-131			
o-Xylene	5.08	0.0250	"	5.00	ND	102	63.3-131			
Total Xylenes	15.3	0.0250	"	15.0	ND	102	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	*8.04*		"	*8.00*		*101*	*50-150*			
Matrix Spike Dup (1947028-MSD1)		**Source: P911096-01**		Prepared: 11/20/19 1 Analyzed: 11/23/19 1						
Benzene	5.13	0.0250	mg/kg	5.00	ND	103	54.3-133	0.634	20	
Toluene	5.21	0.0250	"	5.00	ND	104	61.4-130	0.0710	20	
Ethylbenzene	5.13	0.0250	"	5.00	ND	103	61.4-133	0.234	20	
p,m-Xylene	10.2	0.0500	"	10.0	ND	102	63.3-131	0.137	20	
o-Xylene	5.10	0.0250	"	5.00	ND	102	63.3-131	0.422	20	
Total Xylenes	15.3	0.0250	"	15.0	ND	102	63.3-131	0.232	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.86*		"	*8.00*		*98.3*	*50-150*			

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Dugan Production Corp.	Project Name:	Dorsey Com #90	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Mike Sandoval	11/26/19 14:19

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1947035 - DRO Extraction EPA 3570										
Blank (1947035-BLK1)				Prepared: 11/20/19 1 Analyzed: 11/21/19 0						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	*56.0*		"	*50.0*		*112*	*50-200*			
LCS (1947035-BS1)				Prepared: 11/20/19 1 Analyzed: 11/21/19 0						
Diesel Range Organics (C10-C28)	498	25.0	mg/kg	500		99.5	38-132			
Surrogate: n-Nonane	*51.6*		"	*50.0*		*103*	*50-200*			
Matrix Spike (1947035-MS1)	**Source: P911096-01**			Prepared: 11/20/19 1 Analyzed: 11/21/19 1						
Diesel Range Organics (C10-C28)	517	25.0	mg/kg	500	ND	103	38-132			
Surrogate: n-Nonane	*57.6*		"	*50.0*		*115*	*50-200*			
Matrix Spike Dup (1947035-MSD1)	**Source: P911096-01**			Prepared: 11/20/19 1 Analyzed: 11/21/19 1						
Diesel Range Organics (C10-C28)	525	25.0	mg/kg	500	ND	105	38-132	1.48	20	
Surrogate: n-Nonane	*54.5*		"	*50.0*		*109*	*50-200*			

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Dugan Production Corp.	Project Name:	Dorsey Com #90	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Mike Sandoval	11/26/19 14:19

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1947028 - Purge and Trap EPA 5030A										
Blank (1947028-BLK1)				Prepared: 11/20/19 1 Analyzed: 11/23/19 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.89*		"	*8.00*		*86.1*	*50-150*			
LCS (1947028-BS2)				Prepared: 11/20/19 1 Analyzed: 11/23/19 1						
Gasoline Range Organics (C6-C10)	51.5	20.0	mg/kg	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.32*		"	*8.00*		*91.5*	*50-150*			
Matrix Spike (1947028-MS2)		**Source: P911096-01**		Prepared: 11/20/19 1 Analyzed: 11/23/19 1						
Gasoline Range Organics (C6-C10)	51.9	20.0	mg/kg	50.0	ND	104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.23*		"	*8.00*		*90.4*	*50-150*			
Matrix Spike Dup (1947028-MSD2)		**Source: P911096-01**		Prepared: 11/20/19 1 Analyzed: 11/23/19 1						
Gasoline Range Organics (C6-C10)	50.8	20.0	mg/kg	50.0	ND	102	70-130	2.21	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.20*		"	*8.00*		*90.0*	*50-150*			

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Dugan Production Corp.	Project Name:	Dorsey Com #90	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Mike Sandoval	11/26/19 14:19

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1947031 - Anion Extraction EPA 300.0/9056A										
Blank (1947031-BLK1)				Prepared & Analyzed: 11/20/19 1						
Chloride	ND	20.0	mg/kg							
LCS (1947031-BS1)				Prepared & Analyzed: 11/20/19 1						
Chloride	252	20.0	mg/kg	250		101	90-110			
Matrix Spike (1947031-MS1)		Source: P911101-01		Prepared & Analyzed: 11/20/19 1						
Chloride	647	20.0	mg/kg	250	365	113	80-120			
Matrix Spike Dup (1947031-MSD1)		Source: P911101-01		Prepared & Analyzed: 11/20/19 1						
Chloride	519	20.0	mg/kg	250	365	61.4	80-120	21.9	20	M2, R3

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Dugan Production Corp.	Project Name:	Dorsey Com #90	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Mike Sandoval	11/26/19 14:19

Total Petroleum Hydrocarbons by 418.1 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1948011 - 418 Freon Solid Extraction										
Blank (1948011-BLK1)				Prepared: 11/26/19 0 Analyzed: 11/26/19 1						
Total Petroleum Hydrocarbons	ND	40.0	mg/kg							
LCS (1948011-BS1)				Prepared: 11/26/19 0 Analyzed: 11/26/19 1						
Total Petroleum Hydrocarbons	960	40.0	mg/kg	1000		96.0	80-120			
Matrix Spike (1948011-MS1)		Source: P911099-01		Prepared: 11/26/19 0 Analyzed: 11/26/19 1						
Total Petroleum Hydrocarbons	1040	40.0	mg/kg	1000	42.0	99.4	70-130			
Matrix Spike Dup (1948011-MSD1)		Source: P911099-01		Prepared: 11/26/19 0 Analyzed: 11/26/19 1						
Total Petroleum Hydrocarbons	1030	40.0	mg/kg	1000	42.0	98.4	70-130	0.970	30	

QC Summary Report
Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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Dugan Production Corp.	Project Name:	Dorsey Com #90	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Mike Sandoval	11/26/19 14:19

Notes and Definitions

R3	The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

Page 1 of 1

Client:	Dugan Production
Project:	Dorsey Com # 90
Project Manager:	Mike Sandoval
Address:	
City, State, Zip	
Phone:	505-330-0929
Email:	

Report Attention

Report due by:	
Attention:	
Address:	
City, State, Zip	
Phone:	
Email:	

Lab Use Only

Lab WO#	Job Number
P911100	06094-0177

TAT: 1D | 3D

EPA Program: RCRA | CWA | SDWA

State: NM | CO | UT | AZ

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1	Remarks
12:30	11-19-19	S	1	Dorsey Com # 90 #1	1								
12:35	11-19-19	S	1	Dorsey Com # 90 #2	2								

Analysis and Method

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Michael Sandoval

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11-19-19	2:45	Raina Lopez	11/19/19	14:45
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only

Received on ice: (Y) / N

T1 ____ T2 ____ T3 ____

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other ____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech Analytical Laboratory

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