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**

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

Form C-141
Revised April 3, 2017
Submit 1 Copy to appropriate District Office in AUL 2 I accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

						OPERA	IOK	Initia Initia	il Report	X F	inal Report
Name of Co	mpany Mo	errion Oil &	Gas Corp	poration	(Contact Phil	ana Thompson				
Address 610	Reilly A	ve Farmingto	on, NM 8	7401		Telephone N	No. 505-486-117	71			
Facility Nan	ne Hickma	an A 3			I	Facility Typ	e Historical rec	lamation (well pl	ugged 9/23/	(2003)	
Surface Own	ner BLM			Mineral C	wner B	LM		API No	. 30-045-29	9685	
						OF REI	LEASE	'			
Unit Letter	Section	Township	Range	Feet from the	North/S	South Line	Feet from the	East/West Line	County		
M	10	26N	12W	790	South		790	West	San Juan		
			Lat	itude 36.49763	87 L	ongitude -	08.1052856 NA	AD83			
				NAT	URE	OF REL					
Type of Relea							Release Unknow		Recovered 12		
Source of Rel							our of Occurrence		Hour of Disc		
Was Immedia Unknown (hi			Yes	No Not Re	quired		equired by BLM	Vanessa Fields 7/1	10/2017 of th	ie upcom	ing
By Whom? P	hilana Tho	mpson				Date and H	lour 7/10/2017				
Was a Watero							lume Impacting t	he Watercourse.			
			Yes 🗵	No							
If a Watercou	rse was Im	pacted, Descr	ibe Fully.	k							
		em and Reme Vell was plug									
During inspec	ction of his		d wells a s					photo & SUPO. The	e soil was rei	noved an	d taken to
regulations al public health should their of or the environ	I operators or the envi operations hament. In a	are required to ronment. The nave failed to a	o report and acceptant acc	nd/or file certain rece of a C-141 report investigate and retained of a C-141	elease no ort by the emediate	otifications as NMOCD m contaminati	nd perform correct arked as "Final R on that pose a three the operator of	inderstand that purs etive actions for rela eport" does not reli eat to ground water responsibility for co	eases which reve the oper r, surface was compliance w	may enda ator of lia ter, huma ith any o	anger ability an health
Signature:	Malla	well h	M		<u>'</u>	Approved by	OIL CON	SERVATION pecialist:	DIVISIO	N	_
Printed Name	: Philana T	hompson		/				Va	\mathcal{L}		>
Title: Regulat	tory Compl	iance Speciali	st		I	Approval Dat	C116 8:0	Expiration	Date:		
E-mail Addre	ess: pthomp	son@merrion	.bz			Conditions of	Approval:		Attached		
Date: 8/15/20		ne: 505-486-1					No.				
Attach Addit	tional She	ets If Necess	ary			NVF	17236	39426			

RECEIVED

JUL 28 2016 FORM APPROVED Form 3160-5 UNITED STATES OMB No. 1004-0137 (August 2007) DEPARTMENT OF THE INTERIOR Farmington Field Office Expires: July 31, 2010 51 Lease Serial No. SF080384B BUREAU OF LAND MANAGEMENTreau of Land Managem 6. If Indian, Allottee or Tribe Name Navajo SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals. 7. If Unit of CA/Agreement, Name and/or No. SUBMIT IN TRIPLICATE - Other instructions on page 2. 1. Type of Well 8. Well Name and No. Hickman A 3 Oil Well Other Gas Well 2. Name of Operator Merrion Oil & Gas Corporation 9. API Well No 30-045-29685 3a. Address 3b. Phone No. (include area code) 10. Field and Pool or Exploratory Area 610 Reilly Ave Farmington, NM 87401 505-486-1171 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 11. Country or Parish, State 790 FSL & 790 FWL S10 T26N, R12W San Juan County, NM 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Acidize Production (Start/Resume) Water Shut-Off ✓ Notice of Intent Fracture Treat ✓ Reclamation Well Integrity Alter Casing Casing Repair New Construction Recomplete Other Subsequent Report Change Plans Plug and Abandon Temporarily Abandon Plug Back Water Disposal Final Abandonment Notice Convert to Injection 13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.) The location was inspected on 3/31/2016 please see the attached SUPO of work to be done. 14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Philana Thompson Title Regulatory Compliance Specialist Date 07/28/2016 THIS SPACE FOR FEDERAL OR STATE OFFICE USE Approved by Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

P&A Reclamation Plan

PURPOSE AND SCOPE

The purpose of this Reclamation Plan is to ensure final reclamation of the Hickman A #3 well pad site and associated access road based on the BLM/Merrion Oil & Gas on-site inspection conducted on 3/31/16 and in accordance with Onshore Order #1 and the FFO Bare Soil Reclamation Procedures.

PROPOSED RECLAMATION PLAN

Merrion Oil & Gas Corporation will comply with the requirements in accordance with the approved Sundry Notice associated with this submittal.

- Contact BLM 48 hours prior to commencing earthwork.
- Reclamation to be completed within 1 year of plugging date. (N/A, plugged 9/23/03)
- Remove all underground production piping. (Completed at the time of original reclamation)
- Remove Power poles, rectifier and radio equipment. (Completed at the time of original reclamation)
- Remove all rig anchors on the location. (Completed at the time of original reclamation)
- Strip available topsoil from areas that will be disturbed during the reclamation of this well site.
- Remove all gravel on well pad surface. Gravel may be used as fill material at the base of the cut slope to re-establish the natural topography.
- Use fill material on the location to reconstruct natural topography. If enough fill material is available, excess material will be used to build up the access road AFTER ripping the road base to eliminate surface compaction hard pan.
- Per Farmington BLM Environmental Protections Specialist, and inspection conducted on 3/31/16
 - o DHM needs API
 - o Remove gravel
 - o Remove contaminated soils
 - o Remove piping and facilities
 - o Fill In pond
 - o Recontour
 - o Rip & Re- Seed

NOTE: NO disturbance will occur outside the areas currently disturbed by the well location access road boundaries.

- After location has been re-contoured, rip, disk and seed the location with a disk type seed drill.
- Install a sign on seeded areas, i.e. Seeded Area -- Do Not Disturb.

Waste Material Handling and Disposal

All surface equipment and trash, if any, will be removed from the location and disposed of at an approved waste disposal facility.

If contaminated soil is discovered during the reclamation of this well location, Merrion Oil & Gas Corporation will follow NTL 93-1 "Guidelines for Unlined Surface Impoundments Closure" for testing requirements and allowable threshold limits.

Surface Reconstruction and Stabilization

The long term objective of final reclamation is to set the course for eventual ecosystem restoration including the restoration of natural vegetation. Merrion Oil & Gas Corporation will avoid disturbance to the mature vegetation that has become well established on the pad perimeter to the extent practicable, and will focus reclamation efforts toward de-compaction, removing sharp, angular features to more closely approximate the natural contours, re-establishing natural drainage patterns, and re-vegetating the abandoned well pad and associated access road.

Well Pad Reclamation

(Note: some steps may occur in a different sequence than listed below or may occur simultaneously as the case may be):

- 1. The following activities would take place before commencing with any dirt work to restore the pad surface:
 - The BLM Authorized Officer will be notified at least 48 hours prior to construction;
 - Pre-construction conditions will be documented and pictures taken from the four cardinal directions for future reference;
 - The P&A marker will remain as is. All pertinent well information is permanently imprinted onto the marker for future reference.
 - Temporary and/or permanent stormwater and erosion control BMPs will be employed at appropriate locations around the pad as dictated by local drainage patterns and expected areas of disturbance and slopes AND across the access road. BMP selection will be determined by local factors and will be a combination of sediment and erosions controls that are deemed effective and low maintenance. Straw wattles, diversion ditches, mulch, soil blankets, and/or other suitable BMPs may be used in various combinations, as appropriate, during and after construction activities;
 - Remove all gravel on well pad surface. Gravel may be used at the base of the cut slope underneath the fill material to re-establish the natural topography; except for red rock.
 - Use fill material to reconstruct natural topography.
 - If enough fill material is available, excess material will be used to build up the access road (which is lower in depth than the natural grade due to compaction and erosion)

 AFTER ripping the road base to eliminate surface compaction hard pan;
 - Those areas where healthy, mature, and weed-free vegetation has established along the pad perimeter will remain undisturbed to the extent possible;
 - Natural drainage patterns will be restored, as practical, as near as possible to predisturbance conditions;
 - The pad surface will be ripped by Bulldozer or Grader to reduce compaction and to establish a suitable root zone in preparation for topsoil replacement;
 - Topsoil will be redistributed across the pad surface and disked to prepare the soil for seeding;
 - After location has been re-contoured, rip, disk and seed the location and access road with a disk type seed drill;
 - All disturbed areas will be seeded in accordance with the FFO Bare Soil Reclamation Procedures.

Access Road Reclamation

Upon completion of all well pad reclamation activities, the associated access road will be reclaimed using much the same methods as described above. The road will be ripped and scarified to reduce compaction, and any sharp or angular cuts or fills would be restored as near as possible to pre-disturbance contours. Natural drainage patterns will be restored, to the extent practical, as near as possible to pre-disturbance conditions. NO disturbance will occur outside the areas currently disturbed by the access road boundaries.

Established vegetation along the roadsides will remain undisturbed where possible to encourage native plant growth onto the new disturbance and to maintain erosion and sediment control. Straw wattles and/or diversion ditches will be placed at appropriate locations along the road as needed to prevent sediment transport to local drainages. Other suitable BMPs may be used in various combinations, as appropriate, during and after construction activities.

All disturbed areas will be re-seeded in accordance with BLM FFO Bare Soil Reclamation Procedures.

To discourage future use of the road, a temporary fence consisting of woven wire fence at and across the access road leading to the well site at the intersection of the main road and take off point(s) to discourage access on rehabilitated access road and will serve as a barricade to discourage access to the newly reclaimed road and will be left in place until the road & well pad have been stabilized.

A sign will be installed on the fence, i.e. "Seeded Area -- Do Not Disturb" or equivalent.

Re-establishing Surface Hydrology

Natural drainage patterns will be restored as near as possible to pre-construction conditions, except where restoring the natural drainage will cause excessive disturbance and disrupt the natural rehabilitation processes that have already established. In those areas, additional means for ensuring proper drainage, such as water bars or diversion ditches, may be employed.

Eroded areas will be filled in using fill material from the well location and Best Management Practices (BMP's) for Storm water pollution prevention such as silt traps, excelsior mats, wattles/sediment control logs and straw distributed on the surface and crimped or harrowed into the soil after drill seeding.

Given that the well pad will effectively be inaccessible following road reclamation and because the only potential pollution source will be runoff sediment; the temporary stormwater BMPs will be removed upon completion of construction activities. Drainage, sediment, and erosion controls will be managed through vegetative practices and/or biodegradable materials (i.e. soil blankets, straw wattles, crimped straw, mulch, brush and woody debris, pocking, etc..).

All drainage, sediment, and erosion controls will be implemented in accordance with Merrion Oil & Gas standard Stormwater Management Plan.

Site Preparation, Soil Management and Handling

Prior to seeding, all disturbed areas will be left with a rough surface to facilitate moisture and seed retention, and vegetative slash/brush will be placed at expected discharge areas to minimize sediment transport. The topsoil in the area is generally deep and no soil amendments are expected or proposed.

Final Reclamation Inspection/Monitoring - Environmental

Case #: Lease #: SF080384B Operator: MERRION Present: Yes 🗵 No [Multi-Well Location Yes No	\\A	Well Name: Well #: HICK API #: 30-045 Well Status: I	29685	
			F	Plugged Date:	09/23/200	3
Twn: 26N Rng: 12W	County: SAN JUAN			Facility ID:		
Sec: 10 Qtr:	State: NM			Facility Name	:	
N/S Foot: 790' S E/W Foot: 210' W	Lat: Long:			H2S: Yes		
Surface Owner: BIA			I	nspection Act	ivity: ES/ S	SA
Present: Yes No 🗆						
Office Time: .5 Travel Tim	ne: 1 Inspec	ction Time: .25		Trips: 1		
	spection Close Date: 4/11/201		Inspe	ctor: Bullock		
	•		-			
Inspected: Well/Facility Location ⊠; Roa	ad □; Pipeline □; Power	Line : Other [
			Met	Not	N/A	Order/
Inspection Items				Met	1	INC
1. All Facilities Removed for Final Reclama (Including cement, surface and shallow pipes gates, cattleguards, trash, etc.)		s, culverts,				
Surfacing Material Removed from Location	on and Road					
3. Free of Oil or Salt-Contaminated Soil	on unu roud			AND WHEN IN THE PROPERTY AND THE PERSON NAMED IN		
			manufacture and		named in contrast or the purpose	
4. Compacted Areas Ripped/Disked (Location						
5. All Original Disturbance Areas Recontour	red Back to Original Contour					
6. Adequate Topsoil Replaced		116				
7. Seeded Drill Seeded Broadcast S	Seeded Other	4				
8. Adequate Surface Roughness		100				
9. Erosion and Runoff Controlled Metho	ds	19				
10. Mulch Type						
11. Reclamation Fence: Follow-up needed	to ensure fence removal? Yes	□ No ⊠				
12. Dry-hole Marker:				The second		
Surface Monumented 🖂						
Subsurface Monumented (preferred)		1				
13. Free of Noxious or Invasive Weeds						
Treatment Needed Yes \(\square\) No \(\square\)						
Species Present		4				
14. Revegetation Success & Desired Species						
Density/Cover Measurement and %	Species Types and %					
Reference Site Density/Cover Measurement : Reference Site Species Types and %	and %					
Transect Sheets Completed Yes No		3				
15. Overall Site Stability (Wind & Water En	rosion Subsidence Vegetation	2)				
16. Split Estate: Surface Owner Consultatio		.,	Ö			
17. Other: (Describe)	is concurrence	1.72				
			Ш			
Summary: All Reclamation Work According to the A	nnroyed Reclamation Plan	RIM				
Policy and Successful	pproved Rectalitation Flair C	~ DLIVI				
Final Reclamation Approvable - Yes	No 🛛					

Comments, Inspection/Monitoring Results, and Additional Actions Necessary:

- REMOVE NNG-
- RECONTOUR
- REMOVE CONTAMINATED SOILS
- API ON DHM V deal
- REMOVE PIPING / FACILITIES
- RIP & RESEED
- FILL IN POND

Original Disturbance Acres/V	Vell:	Meets Final Reclamation Stand	dards Acres/Well:
(including location, roads, and	pipelines):		
Follow-up Requirements: Choose an item.	Correct problem by: Click here to enter a date.	Next Inspection date: Click here to enter a date.	Date AFMSS updated: Click here to enter a date.

Order/INC No.

The Privacy Act of 1974 and the regulations in 43 CFR 2.48(d) require that you be furnished the following information.

Authority: 30 U.S.C. 181 et seq.; 43 CFR 3160; Onshore Oil and Gas Order No. 1.

Principal purpose: The BLM uses this information to document and track compliance with the terms of a Federal permit and to contact permittees and affected parties.

Routine uses: (1) Document and track compliance with permit conditions. (2) Gather contact information for permittees and parties affected by the permit, for example, split estate surface owners. (3) Track monitoring data. (4) Information from the record and/or the record will be transferred to appropriate Federal, State, or local

agencies when relevant to civil, criminal, or regulatory investigations or prosecutions.

Effect of not providing information: Disclosure of the information is voluntary; however, failure to provide the requested information may impede individual participation.

	Final Reclamation ES – Photo Log
PHOTO NUMBER	PHOTO INFORMATION
1.	DHM
2.	DHM
3.	DHM
4.	DHM
5.	FACILITIES
6.	FACILITIES
7.	VEGETATION
8.	









Photo 7



Photo 8





Analytical Report

Report Summary

Client: Merrion Oil & Gas

Chain Of Custody Number:

Samples Received: 7/20/2017 10:18:00AM

Job Number: 03048-0009 Work Order: P707032

Project Name/Location: Hickman A #3

Report Reviewed By:	Walter Hindung Off	Date:	7/27/17	
	Walter Hinchman, Laboratory Director			
	Tim Cain, Quality Assurance Officer	Date:	7/27/17	

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



610 Reilly Ave.

Farmington NM, 87401

Project Name:

Hickman A #3

Project Number: Project Manager: 03048-0009

Philana Thompson

Reported: 27-Jul-17 09:11

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
#4	P707032-01A	Solid	07/20/17	07/20/17	Glass Jar, 4 oz.

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11 17 17

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Ph (970) 259-0615 Fr (800) 362-1879

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Page 2 of 10



Project Name:

Hickman A #3 03048-0009

610 Reilly Ave.

Project Number:

Reported:

Farmington NM, 87401

Project Manager:

Philana Thompson

27-Jul-17 09:11

#4 P707032-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1729016	07/20/17	07/20/17	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1729016	07/20/17	07/20/17	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	I	1729016	07/20/17	07/20/17	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1729016	07/20/17	07/20/17	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1729016	07/20/17	07/20/17	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1729016	07/20/17	07/20/17	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	ı	1729016	07/20/17	07/20/17	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.5 %	50-1	50	1729016	07/20/17	07/20/17	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1729016	07/20/17	07/20/17	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1729018	07/20/17	07/20/17	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.4 %	50-1	50	1729016	07/20/17	07/20/17	EPA 8015D	
Surrogate: n-Nonane	· -	91.4 %	50-2	200	1729018	07/20/17	07/20/17	EPA 8015D	
Anions by 300.0							. <u></u>		
Chloride	58.8	20.0	mg/kg	1	1730003	07/24/17	07/24/17	EPA 300.0	
Total Petroleum Hydrocarbons by 418.1									
Total Petroleum Hydrocarbons	ND	40.0	mg/kg	1	1729020	07/21/17	07/21/17	EPA 418.1	

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Project Name:

Hickman A #3

610 Reilly Ave. Farmington NM, 87401 Project Number: Project Manager: 03048-0009 Philana Thompson Reported: 27-Jul-17 09:11

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1729016 - Purge and Trap EPA 5030)A									
Blank (1729016-BLK1)				Prepared &	Analyzed:	20-Jul-17				
Benzene	ND	0.10	mg/kg		•					
Toluene	ND	0.10	•							
Ethylbenzene	ND	0.10	-							
p,m-Xylene	ND	0.20	•							
o-Xylene	ND	0.10	-							
Total Xylenes	ND	0.10	•							
Total BTEX	ND	0.10	-							
Surrogate: 4-Bromochlorobenzene-PID	7.94		•	8.00		99.3	50-150			
LCS (1729016-BS1)				Prepared &	Analyzed:	20-Jul-17				
Benzene	5.39	0.10	mg/kg	5.00		108	70-130			
Toluene	5.28	0.10	•	5.00		106	70-130			
Ethylbenzene	5.26	0.10	•	5.00		105	70-130			
p,m-Xylene	10.5	0.20	•	10.0		105	70-130			
o-Xylene	5.15	0.10	•	5.00		103	70-130			
Total Xylenes	15.6	0.10	•	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.06		•	8.00		101	50-150			
Matrix Spike (1729016-MS1)	Source	e: P707031-	01	Prepared &	Analyzed:	20-Jul-17				
Benzene	5.17	0.10	mg/kg	5.00	ND	104	54.3-133			
Toluene	5.07	0.10	•	5.00	ND	101	61.4-130			
Ethylbenzene	5.05	0.10	•	5.00	ND	101	61.4-133			
p,m-Xylene	10.0	0.20	•	10.0	ND	100	63.3-131			
o-Xylene	4.94	0.10	•	5.00	ND	98.8	63.3-131			
Total Xylenes	15.0	0.10	•	15.0	ND	99.9	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8.00			8.00		100	50-150			
Matrix Spike Dup (1729016-MSD1)	Source	e: P707031-	01	Prepared 8	Analyzed:	20-Jul-17			<u></u>	
Benzene	5.02	0.10	mg/kg	5.00	ND	100	54.3-133	3.07	20	
Toluene	4.94	0.10	•	5.00	ND	98.8	61.4-130	2.62	20	
Ethylbenzene	4.92	0.10	•	5.00	ND	98.5	61.4-133	2.53	20	
p,m-Xylene	9.80	0.20		10.0	ND	98.0	63.3-131	2.37	20	
o-Xylene	4.83	0.10	•	5.00	ND	96.6	63.3-131	2.27	20	
Total Xylenes	14.6	0.10		15.0	ND	97.6	63.3-131	2.34	20	
Surrogate: 4-Bromochlorobenzene-PID	8.01		•	8.00		100	50-150			

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envirotech-inc.com



Farmington NM, 87401

Project Name:

Hickman A #3

610 Reilly Ave.

Project Number: Project Manager: 03048-0009

Philana Thompson

Reported: 27-Jul-17 09:11

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1729016 - Purge and Trap EPA 5030A										
Blank (1729016-BLK1)				Prepared &	Analyzed:	20-Jul-17				
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: I-Chloro-4-fluorobenzene-FID	7.62		•	8.00		95.2	50-150			
LCS (1729016-BS1)				Prepared &	Analyzed:	20-Jul-17				
Gasoline Range Organics (C6-C10)	59.1	20.0	mg/kg	60.9		97.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		•	8.00		93.1	50-150	_		
Matrix Spike (1729016-MS1)	Sou	rce: P707031-	01	Prepared 8	Analyzed:	20-Jul-17				
Gasoline Range Organics (C6-C10)	58.7	20.0	mg/kg	60.9	ND	96.4	70-130			
Surrogate: I-Chloro-4-fluorobenzene-FID	7.69			8.00		96.2	50-150			
Matrix Spike Dup (1729016-MSDI)	Sou	rce: P707031-	01	Prepared 8	Analyzed:	20-Jul-17				
Gasoline Range Organics (C6-C10)	\$6.9	20.0	mg/kg	60.9	ND	93.4	70-130	3.12	20	
Surrogate: I-Chloro-4-fluorobenzene-FID	7.65		•	8.00		95.6	50-150			

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Page 5 of 10



Mcrrion Oil & Gas 610 Reilly Ave.

Farmington NM, 87401

Project Name:

Hickman A #3

Project Number:
Project Manager:

03048-0009 Philana Thompson Reported: 27-Jul-17 09:11

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1729018 - DRO Extraction EPA 3570			_							
Blank (1729018-BLK1)				Prepared &	Analyzed:	20-Jul-17				
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: n-Nonane	44.1		•	50.0		88.1	50-200			
LCS (1729018-BS1)				Prepared 8	k Analyzed:	20-Jul-17				
Diesel Range Organics (C10-C28)	461	25.0	mg/kg	500		92.3	38-132			
Surrogate: n-Nonane	40.8		•	50.0		81.6	50-200			
Matrix Spike (1729018-MS1)	Sou	rce: P707031-	01	Prepared 8	k Analyzed:	20-Jul-17			_	
Diesel Range Organics (C10-C28)	1220	25.0	mg/kg	500	217	200	38-132			SPKI
Surrogate: n-Nonane	48.8		•	50.0		97.5	50-200			
Matrix Spike Dup (1729018-MSD1)	Sou	rce: P707031-	01	Prepared 8	k Analyzed:	20-Jul-17				
Diesel Range Organics (C10-C28)	634	25.0	mg/kg	500	217	83.2	38-132	63.1	20	DI
Surrogale: n-Nonane	49.8		•	50.0		99.6	50-200			

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Farmington NM, 87401

Project Name:

255

Hickman A #3

610 Reilly Ave.

Chloride

Project Number: Project Manager: 03048-0009

Philana Thompson

250

ND

80-120

0.0235

Reported: 27-Jul-17 09:11

Anions by 300.0 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1730003 - Anion Extraction EPA 300.0										
Blank (1730003-BLK1)				Prepared &	k Analyzed:	24-Jul-17				
Chloride	ND	20.0	mg/kg							
LCS (1730003-BS1)				Prepared &	k Analyzed:	24-Jul-17				
Chloride	256	20.0	mg/kg	250		102	90-110			
Matrix Spike (1730003-MS1)	Sour	rce: P707031-	-01	Prepared &	k Analyzed:	24-Jul-17				
Chloride	255	20.0	mg/kg	250	ND	102	80-120			
Matrix Spike Dup (1730003-MSD1)	Sour	rce: P707031-	01	Prepared &	k Analyzed:	24-Jul-17				

20.0 mg/kg

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Merrion Oil & Gas 610 Reilly Ave.

Farmington NM, 87401

Project Name:

Hickman A #3

Project Number: Project Manager: 03048-0009 Philana Thompson

Reported: 27-Jul-17 09:11

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 1729020 - 418 Freon Extraction										
Blank (1729020-BLK1)				Prepared &	Analyzed:	21-Jul-17				
Total Petroleum Hydrocarbons	ND	40.0	mg/kg							
LCS (1729020-BS1)				Prepared &	Analyzed:	21-Jul-17				
Total Petroleum Hydrocarbons	950	40.0	mg/kg	1000		95.0	80-120			
Matrix Spike (1729020-MS1)	Sou	rce: P707032-	01	Prepared &	k Analyzed:	21-Jul-17				
Total Petroleum Hydrocarbons	988	40.0	mg/kg	1000	ND	98.8	70-130			
Matrix Spike Dup (1729020-MSD1)	Sou	rce: P707032-	01	Prepared &	Analyzed:	21-Jul-17				
Total Petroleum Hydrocarbons	1010	40.0	mg/kg	1000	ND	101	70-130	2.20	30	

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Project Name:

Hickman A #3

610 Reilly Ave.

Project Number:

03048-0009

Farmington NM, 87401

Project Manager:

Philana Thompson

Reported: 27-Jul-17 09:11

Notes and Definitions

SPK1 The spike re

The spike recovery is outside of quality control limits.

Di

Duplicates or Matrix Spike Duplicates or Laboratory Control Sample Duplicates Relative Percent Difference is outside of control limits.

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

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Client: Marrion Oil 1-yas	Merrion Oil 1-Gos				b Use Only	Analysis and Method lab Only												
Project: Aickman At 3 Sampler: Das Calles			1d 3d	PT	Lab WO# 7032	5			0)er	Correct Cont/Prsrv (s) Y/N Page 10 of			
Phone: 505 - 520 - 9 /96	12				048-0009	801	-	_	300.0		7			E	t/Prs			
Phone: \$05-320-9796 Email(s): Thompson Project Manager: P. Thompson	· DZ	_	Pag	A Marie Strategies of	/	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	by	tals	e 91(Lab Number	8			
•	1	Sample Time		Containers		\overline{\overl	X by	by	Chloride by 300.0	TCLP Metals	CO Table 910-1	SOT			rect			
Sample ID	Sample Date		Matrix	QTY - Vol/1	YPE/Preservative	GR(TPH T							3			
井七	7/20/1	9;40 AM	S	1-glassy	4004 / COUL	/	1	/	V					1	Y			
Relinquished by: (Signature) Signature) Date Time 7/2017 10:18AM	Received by: (Signature)			Date 7/20/17	142990				Received on Ice Y / N									
Relinquished by: (Signature) Date Time	Received	by: (Signa)	luce)	Date	Time T1	T2T3 G Temp °C <u> </u>							-					
Sample Mateix: \$ - Soil, \$d - Solid, \$g - Sludge, A - Aqueous, O - Other					Container Type: g	- glas	s, p -	poly	/plas	A PERSONAL PROPERTY.	g - a	mber	glass					
**Samples requiring thermal preservation must be received on ice the day th					THE RESERVE TO SHARP FOR THE PARTY OF THE PA	on sul	seque	ent da	ys.									
Sample(s) dropped off after hours to a secure drop off area.		Chain of	Custody		ginfo: cooler-Ay													



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