

January 29, 2021

Mr. Mike Bratcher New Mexico Oil Conservation Division 811 South First Street Artesia, New Mexico 88210

RE: Closure Request
Pirate State BRY
Incident Number nRM2026530452
Lea County, New Mexico

Dear Mr. Bratcher:

Lucid Energy Group (Lucid) presents the following Closure Request detailing site assessment and soil sampling activities at the Pirate State BRY (Site) in Unit P, Section 16, Township 24 South, Range 34 East, in Lea County, New Mexico under surface ownership of the New Mexico State Land Office (NMSLO) (Figure 1). The purpose of the site assessment and soil sampling activities was to confirm the presence or absence of impacts to soil associated with a release of natural gas at the Site and subsequent excavation of impacted soil. Based on field observations, field screening, and laboratory analytical results from soil sampling activities, Lucid is submitting this Closure Request. Lucid requests no further action that may contribute to compromising the safety of field personnel and integrity of sensitive subsurface pipelines during active operations. Listed below is a brief summation of the Site details in Table 1.

Table 1: Site a	nd Release information
Name	Pirate State BRY
Company	Lucid Energy Delaware
Incident Number	nRM2026530452
Location	32.835193°, -104.273068°
Estimated Date of Release	9/10/2020
Date reported to NMOCD	9/14/2020
Landowner	NMSLO
Reported to	NMOCD District I and NMSLO
Source of Release	Pipeline
Released Material	Natural Gas
Released Volume	>500MCF
Recovered Volume	0 MCF
Net Release	>500MCF
Nearest Waterway	Intermittent stream ~1 mile north
Depth to Groundwater	Estimated to be >100' from NMOSE data



Nearest Domestic Water source	Greater than 1000'
Lucid Activity Dates	9/11/20, 9/16/20, 10/8/20

1.0 RELEASE BACKGROUND

On September 10, 2020 Lucid operations personnel noticed natural gas vapors emanating from the surface along the Pirate State BRY line. The released gases were observed with an OGI FLIR GF320 camera during non-routine LDAR inspections of nearby pipeline connections. Due to the initial site assessment showing no staining and no released liquids at surface Lucid delayed reporting this release. Once pipeline repair activities had exposed the affected pipeline, soil staining was observed at depth along the pipeline. Lucid personnel reviewed SCADA measurement reports and total gas loss was determined to be greater than 500 MCF, requiring OCD notification. Lucid attentively reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on September 14, 2020 which was received and assigned Incident Number nRM2026530452 on September 21, 2020. The Form C-141 is provided as Appendix A.

2.0 SITE CHARACTERIZATION

Lucid characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data attained from the New Mexico Office of the State Engineer (NMOSE). Groundwater well, C-03943-POD1, is located approximately 0.46 miles south of the Site and lists groundwater depth at 431 feet bgs. The Site is greater than 300 feet from any continuously flowing or significant watercourse. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake. The Site is greater than 300 feet from an occupied residence, school, hospital, institution, or church. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is located greater than 300 feet from a wetland. The Site is located in a lowpotential karst area. The surface soil geology of the Site is comprised of the Pyote and Maljamar series sands and the Berino-Cacique series sand. The Pyote series is described as a yellowish-red, fine grained, deep, well drained, moderately permeable soil formed in sandy and loamy sediments. The Maljamar series is described as a yellowish-red, fine-grained, well drained moderately sandy to sandy soil somewhat reworked by wind with a deep petrocalcic horizon typically occurring around 4 to 5 feet bgs. The Berino series is described as a reddish-brown, very deep, well drained loamy sands that formed in mixed alluvium. Sub surface geology encountered at the Site is correlative to the Piedmont alluvium and the Ogallala formation. During excavation of the Site the Pyote and Berino series was encountered throughout at 0 to 3 feet bgs. Caliche was encountered from depths of approximately 3 to 6 feet bgs. The nearest identified groundwater wells and potential receptors identified during site characterization are displayed in Figure 1. NMOSE groundwater data for surrounding wells is presented in Appendix C.



3.0 CLOSURE CRITERIA

Referencing NMOSE groundwater data from the nearby well, C-03943-POD1, Lucid remediated the Site according to the closure criteria relevant to groundwater depth of >100 feet bgs, listed in NMAC 19.15.29 Table 1 Closure Criteria (Closure Criteria). Based on the results of the site characterization, the following Closure Criteria apply:

• Benzene: 10 milligrams per kilogram (mg/kg)

Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

Total petroleum hydrocarbons TPH: 2,500 mg/kg

• Chloride: 20,000 mg/kg

4.0 INITIAL RESPONSE

During the response to the release on September 10, Lucid personnel depressurized nearby equipment in preparation for pipeline repairs. Due to the nature of the discovery and utilization of the FLIR camera for identification no known volumes were reported initially. Released volumes were later determined through review of nearby meter readings in the SCADA system for the previous six months. The subject pipeline was taken out of service, cut and capped at both east and west end connections. Hand auger soil samples were collected by a Lucid EHSR technician. The locations of samples are presented on Figure 2 and laboratory analytical results are summarized in Table 2. The complete laboratory analytical report is included in Appendix D. Volume calculations and meter readings are presented in Appendix E.

5.0 DELINEATION SOIL SAMPLING ACTIVITIES

On September 11, during pipeline repair activates, Lucid personnel conducted site investigative activities to evaluate the release extent and current conditions at the Site. Initial repair activities exposed the pipeline at approximately 4 feet bgs with total excavation depths at about 5 feet bgs. Surface staining in the immediate release area was visually observed at depth along approximately 10 feet of the pipeline. Pipeline construction personnel were instructed to remove as much stained soil as practicable for disposal utilizing hand shovels and a trackhoe. Impacted material was stockpiled on polyethylene liner for future disposal during remediation activities. Photographic documentation was conducted during the Site visit and a Photographic Log is included in Appendix B.

Lucid personnel conducted initial delineation activities to define the horizontal and vertical extent of the impacted area. Utilizing a hand auger, five soil samples (HA-1-N, HA-2-E, HA-3-S, HA-4-W, and B-5-C) were collected within the repair excavation at bottom and just outside of the sidewall extents to verify the presence or absence of soil impacts. All HA samples were collected at about 3 feet bgs and the bottom sample, B-5-C, was collected at about 5 feet bgs. Sample depths are approximations due to the subsurface geology and encountering caliche at 3-4 feet bgs.



Field screening was conducted at each sample for chloride using Hach® chloride QuanTab® test strips. Field screening was conducted at each sample for volatile organic compounds (VOCs) using a calibrated MiniRAE Lite+ photoionization detector (PID). The soil samples were placed directly into a pre-cleaned glass jar, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were shipped at or below 4 degrees Celsius (°C), under strict chain-of-custody (COC) procedures, to Hall Laboratories (Hall) in Albuquerque, New Mexico, for analysis of BTEX following United States EPA Method 8021B; TPH-GRO, TPH-DRO, and TPH-MRO following EPA Method 8015M/D; and/or chloride following EPA Method 300.0. The complete laboratory analytical report is included in Appendix D. Additionally, photographic documentation from delineation activities is also included in Appendix B.

6.0 REMEDIATION ACTIVITIES

On September 16, Lucid personnel and BDS Enterprises (BDS) began remedial excavation activities at the Site. Lucid remediated the Site in conjunction with the closure criteria relevant to groundwater depth of >100 feet bgs, listed in NMAC 19.15.29 Table 1. The closest permitted groundwater wells with depth to groundwater data are located approximately 0.46 mile south of the Site groundwater well data from NMOSE are listed in Appendix C.

During the initial remediation activities, the excavation bottom was expanded to a total depth of approximately 6 feet bgs. Expansion of the excavated depth was to address surface staining left in place underneath and around the pipeline after repairs. Sidewalls were also extended laterally approximately 2 feet to address surface staining. Analytical results for samples (B-5-C, B-7-C, and B-8-C) collected at the excavation bottom indicated that hydrocarbons and chlorides were not present at the sample depth of approximately 5 and 6 feet bgs, respectively.

During the week of November 23, clean locally sourced backfill material was staged onsite. Impacted material stockpiled onsite from repair activities and recently excavated material was disposed of at Northern Delaware Basin Landfill. During the week of November 30, the excavation was backfilled with local material. Lucid plans to reseed the site once seasonal temperatures have increased sufficiently to allow for effective seed germination and revegetation.

A total of eight final composite soil samples were collected throughout the excavation during the week of October 8. Composite soil samples were collected at <20′ lateral intervals encompassing ≤200 yd² of soil. Sidewall composite soil samples of the excavation were collected at depths between 2 and 6 feet bgs. Field screening was conducted for chloride using Hach® chloride QuanTab® test strips and for hydrocarbon VOCs using a calibrated MiniRAE Lite+ PID. The soil samples were placed directly into a precleaned glass jar, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were shipped at or below 4° C, under strict COC procedures, to Hall, for analysis of BTEX following United States EPA Method 8021B; TPH-GRO, TPH-DRO, and TPH-MRO following EPA Method 8015M/D; and/or chloride following EPA Method 300.0. The complete

4
Pirate State BRY
nRM2026530452



laboratory analytical report is included in Appendix D. Additionally, photographic documentation from remediation activities is also included in Appendix B.

7.0 ANALYTICAL

All release area boundary sample locations analyzed for chloride and hydrocarbon concentrations yielded concentrations below the Closure Criteria. All other delineation grab samples indicated BTEX, TPH-GRO, TPH-DRO, and Total TPH concentrations below the applicable Closure Criteria. Hydrocarbon and chloride impacts have been delineated vertically and laterally. All confirmatory composite samples collected from the excavation sidewalls and bottom indicate that chloride and hydrocarbon impacts have been successfully remediated to below the Closure Criteria. Soil sample analytical results are reported in Table 2. The complete laboratory analytical report is included in Appendix D.

8.0 CLOSURE REQUEST

Based on the analytical data indicating hydrocarbon and chloride impacts are delineated and the remediation of impacted material, Lucid respectfully requests closure of the Site and no further action associated with Incident Number nRM2026530452. Lucid will periodically monitor any altered Site configurations that may lead to the permanent removal of sensitive subsurface pipelines located within the subject area. Lucid will commence corrective action to address reseeding the Site closer to the spring season for more effective revegetation. If you have any questions or comments, please do not hesitate to contact Mr. Michael Gant at 314-330-7876.

Sincerely,

LUCID ENERGY GROUP

Michael Gant

Environmental Coordinator

cc: Ryan Mann, NMSLO

Emily Hernandez, NMOCD Robert Hamlet, NMOCD

Victoria Venegas, NMOCD



Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Location

Table 2 Soil Analytical Results

Appendix A Form C-141

Appendix B Photographic Log

Appendix C NMOSE Groundwater Data Appendix D Laboratory Analytical Report

Appendix E Volume Calculations/ Meter Readings



FIGURES

Received by OCD: 1/29/2021 4:02:14 PM Page 8 of 64 T 23 S R 35 E T 23 S R 33 E T 23 S R 34 E CRUZ OIL FIELD DRAW IELD 3609 ft Pirate State Site Location T 24 S R 35 E T 24 S R 33 E 3580 ft WOODLEY FLAT T 25 S R 33 E T 25 S R 34 E Winkler



Lucid Energy Group 201 South 4th Street Artesia, NM 88210



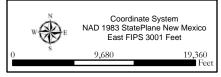
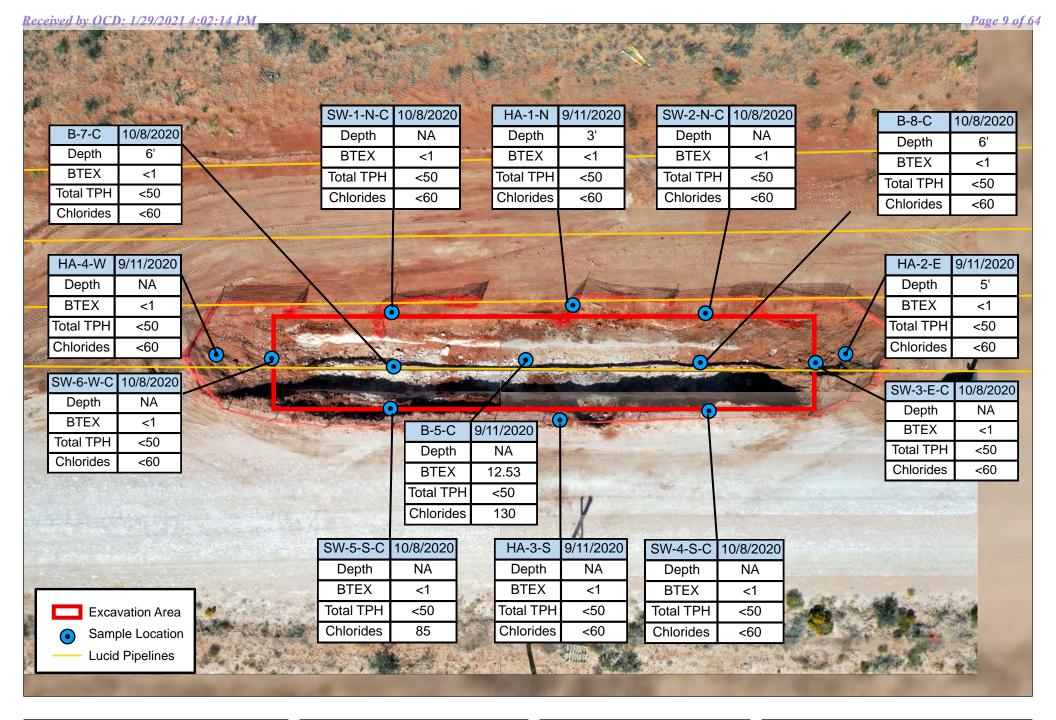


Figure 1: Site Location Map Pirate State BRY 6" Line Release Eddy County, NM 32.2119946°, -103.4673337°





Lucid Energy Group 201 South 4th Street Artesia, NM 88210

NOTES:

- 1. Analytical Values are given in mg/Kg (ppm).
- Analytical Values in yellow shading exceed NMED RRAL's.

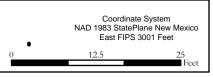


Figure 2: Sample Location Map Pirate State BRY 6" Line Release Eddy County, NM 32.2119946°, -103.4673337°



TABLES



Table 2 Soil Sample Analytical Results Pirate State BRY Lea County, NM

Sample ID	Depth (feet)	Date	Benzene	Toluene	Ethyl-benzene	Xylenes	ВТЕХ	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Chlorides
HA-1-N	3'	9/11/2020	< 0.024	< 0.047	< 0.047	< 0.095	<1	<4.7	<9.9	<49	<50	<60
HA-2-E	3'	9/11/2020	< 0.024	<0.048	<0.048	<0.095	<1	<4.8	<8.8	<44	<50	<60
HA-3-S	3'	9/11/2020	< 0.049	< 0.099	< 0.099	< 0.20	<1	<9.9	<9.8	<49	<50	<60
HA-4-W	3'	9/11/2020	< 0.024	<0.048	<0.048	<0.096	<1	<4.8	<9.9	<50	<50	<60
B-5-C	5'	9/11/2020	0.13	3.5	2.1	6.8	12.53	82	100	610	792	130
SW-1-N-C	NA	10/8/2020	< 0.024	< 0.049	< 0.049	< 0.097	<1	<4.9	<9.4	<47	<50	<60
SW-2-N-C	NA	10/8/2020	< 0.024	< 0.049	< 0.049	<0.098	<1	<4.9	<8.6	<43	<50	<60
SW-3-E-C	NA	10/8/2020	< 0.025	< 0.049	< 0.049	<0.098	<1	<4.9	<9.4	<47	<50	<60
SW-4-S-C	NA	10/8/2020	< 0.025	< 0.049	< 0.049	<0.098	<1	<4.9	<9.3	<47	<50	<60
SW-5-S-C	NA	10/8/2020	< 0.025	< 0.050	< 0.050	<0.10	<1	<5.0	<9.8	<49	<50	85
SW-6-W-C	NA	10/8/2020	< 0.025	< 0.050	< 0.050	<0.10	<1	<5.0	<9.8	<49	<50	<60
B-7-C	6'	10/8/2020	< 0.025	< 0.050	< 0.050	< 0.099	<1	<5.0	<9.5	<48	<50	<60
B-8-C	6'	10/8/2020	<0.025	<0.049	<0.049	<0.099	<1	<4.9	<9.7	<48	<50	<60
NMOCD Tabl	e 1 Closure	Limits	10		Total E	BTEX: 50			Total	TPH: 2500		20,000

Notes:

All sample results are in milligrams per kilogram

NMOCD = New Mexico Oil Conservation Division

Table 1 Closure Limits = In accordance with 19.15.29 Release Rule
NA = Not Analyzed

BTEX = Benzene, Toluene, Ethylbenzene, Xylenes
TPH = Total Petroleum Hydrocarbons
GRO = Gasoline Range Organics
DRO = Diesel Range Organics

MRO = Motor Oil Range Organics
Exceeds NMOCD limit



Appendix A

Form C-141

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

Responsible Party Lucid Energy Delaware				OGRID	OGRID 372422		
Contact Name Michael Gant				Contact	Contact Telephone 3143307876		
Contact email MGant@lucid-energy.com			.com	Incident	t # (assigned by OCD)		
Contact mail	ing address	201 South 4th	Street	,			
			Location	of Release	Source		
Latitude 32.212036° I			(NAD 83 in dec	Longitude	Longitude -103.467326° egrees to 5 decimal places)		
Site Name F	Pirate State	======================================		Site Typ	^e Natural gas pipeline		
Date Release	Discovered	9/10/2020			applicable)		
Unit Letter	Section	Township Range Cou			punty		
Р	16	T24S	R34E	Lea			
urface Owne			_ ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	l Volume of			
Crude Oil	I I I I I I I I I I I I I I I I I I I	Volume Release		carcalations of speci	Volume Recovered (bbls)		
Produced	Water	Volume Release	ed (bbls)		Volume Recovered (bbls)		
		Is the concentrate produced water	tion of dissolved c	hloride in the	☐ Yes ☐ No		
Condensa	ite	Volume Release			Volume Recovered (bbls)		
Natural G	re re	Volume Released (Mcf) >500 Mcf			Volume Recovered (Mcf) 0 Mcf		
Other (de	scribe)	Volume/Weight Released (provide units)		e units)	Volume/Weight Recovered (provide units)		
Cause of Relea		used by corrsic	on in the pipe w	/hich led to a μ	pinhole leak forming on the bottom of the pipe.		

Received by OCD: 1/29/2021 4:02:14 PM State of New Mexico
Page 2 Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	
release as defined by 19.15.29.7(A) NMAC?	The volume of natural gas lost is o	over 500 Mci.
☑ Yes ☐ No		
	otice given to the OCD? By whom? To wh cation was provided until the tota	om? When and by what means (phone, email, etc)? volume lost was calculated.
	Initial Ro	esponse
The responsible p	party must undertake the following actions immediatel	unless they could create a safety hazard that would result in injury
✓ The source of the rele	ease has been stopped.	
	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	l managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain v	vhy:
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	required to report and/or file certain release notinent. The acceptance of a C-141 report by the Cate and remediate contamination that pose a thre	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name: Michae		
Signature: MGant	-	Date: 9/14/2020
email: MGant@lucid-	energy.com	Telephone: 314-330-7876
OCD Only		
Received by:		Date:

Received by OCD: 1/29/2021 4:02:14 PM Form C-141 State of New Mexico Page 3 Oil Conservation Division

	Page 15 of 64
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?				
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?				
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 well Field data	ls.			
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.

Received by OCD: 1/29/2021 4:02:14 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 16 of C	64
Incident ID		
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Michael Gant	Title: Environmental Coordinator
Signature: MGant@lucid-energy.com	Date: 1/25/2021
email: MGant@lucid-energy.com	Telephone: 3143307876
OCD Only	
Received by:	Date:

Received by OCD: 1/29/2021 4:02:14 PM Form C-141 State of New Mexico Page 5 Oil Conservation Division

	Page 17 of 64
Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.
 ✓ Detailed description of proposed remediation technique ✓ Scaled sitemap with GPS coordinates showing delineation point ✓ Estimated volume of material to be remediated ✓ Closure criteria is to Table 1 specifications subject to 19.15.29. ✓ Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility
☑ Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Michael Gant	Title: Environmental Coordinator
Signature: MGant	Date: 1/25/2021
email: MGant@lucid-energy.com	Telephone: 3143307876
OCD Only	
Received by:	Date:
☐ Approved	Approval
Signature:	Date:

Received by OCD: 1/29/2021 4:02:14 PM Form C-141 State of New Mexico Page 6 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 followi	ing 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 of 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										
and regulations all operators are required to report and/or file of may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or refrestore, reclaim, and re-vegetate the impacted surface area to the accordance with 19.15.29.13 NMAC including notification to the										
Printed Name: Michael Gant	Title: Environmental Coordinator									
Signature: MGant	Date: 1/25/2021									
Signature: MGant email: MGant@iucid-energy.com	Telephone: 314-330-7876									
OCD Only										
Received by:	Date:									
	arty of liability should their operations have failed to adequately investigate and face water, human health, or the environment nor does not relieve the responsible and/or regulations.									
Closure Approved by:	Date:									
Printed Name:	Title:									



Appendix B

Photographic Log



Appendix B: Photographic Log 09/11/20-11/17/2020
Pirate State BRY Line



Infrared Image of Pipeline Looking North (9/10/20)



Initial Excavation Looking Northeast (9/11/20)



Initial Excavation Looking West (9/11/20)



Initial Excavation Looking East (9/11/20)



Appendix B: Photographic Log 09/11/20-11/17/2020
Pirate State BRY Line



Initial Excavation Looking Northwest (9/11/20)



Excavation Aerial (10/16/20)



Excavation Aerial (10/16/20)



Backfilled/Graded Site Looking West (11/17/20)



Appendix B: Photographic Log 09/11/20-11/17/2020 Pirate State BRY Line



Backfilled/Graded Site Looking East (11/17/20)



Backfilled/Graded Site Aerial (11/17/20)



Appendix C

Groundwater Data

Page 24 of 64 Received by OCD: 1/29/2021 4:02:14 PM

Pirate State BRY Groundwater Wells

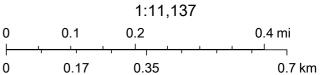


12/9/2020, 10:38:19 AM **GIS WATERS PODs**

- Active
- Pending

OSE District Boundary

SiteBoundaries



USDA FSA, GeoEye, Maxar, Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

X Y

C 03943 POD1

2 21 24S 34E 644523 3564266

Driller License:

SHADE TREE DRILLING

Driller Name: JUSTIN MULLINS

Drill Start Date: 04/21/2016 **Drill Finish Date:**

Driller Company:

04/24/2016

Plug Date:

Source:

Shallow

Log File Date: **Pump Type:**

04/25/2016

PCW Rcv Date: Pipe Discharge Size:

Estimated Yield:

5 GPM

Casing Size:

6.00

Depth Well:

610 feet

Depth Water:

431 feet

Water Bearing Stratifications:

39

Top Bottom Description

431 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

480 420

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

12/14/20 1:25 PM

POINT OF DIVERSION SUMMARY



Appendix D

Laboratory Analytical Reports



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

September 18, 2020

Michael Gant Lucid Energy Delaware 201 South 4th St. Artesia, NM 88210 TEL: FAX:

RE: Pirate State 3 OrderNo.: 2009696

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 5 sample(s) on 9/12/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 9/18/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: HA-1-N

Project: Pirate State 3
 Collection Date: 9/11/2020 11:30:00 AM

 Lab ID: 2009696-001
 Matrix: SOIL
 Received Date: 9/12/2020 8:08:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	9/17/2020 1:33:21 PM	55233
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/16/2020 2:26:36 PM	55150
Surr: BFB	101	70-130	%Rec	1	9/16/2020 2:26:36 PM	55150
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/16/2020 10:27:29 AM	55174
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/16/2020 10:27:29 AM	55174
Surr: DNOP	89.9	30.4-154	%Rec	1	9/16/2020 10:27:29 AM	55174
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	RAA
Benzene	ND	0.024	mg/Kg	1	9/16/2020 2:26:36 PM	55150
Toluene	ND	0.047	mg/Kg	1	9/16/2020 2:26:36 PM	55150
Ethylbenzene	ND	0.047	mg/Kg	1	9/16/2020 2:26:36 PM	55150
Xylenes, Total	ND	0.095	mg/Kg	1	9/16/2020 2:26:36 PM	55150
Surr: 1,2-Dichloroethane-d4	97.0	70-130	%Rec	1	9/16/2020 2:26:36 PM	55150
Surr: 4-Bromofluorobenzene	97.3	70-130	%Rec	1	9/16/2020 2:26:36 PM	55150
Surr: Dibromofluoromethane	110	70-130	%Rec	1	9/16/2020 2:26:36 PM	55150
Surr: Toluene-d8	103	70-130	%Rec	1	9/16/2020 2:26:36 PM	55150

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
 - 8 % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
 - E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 10

Date Reported: 9/18/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: HA-2-E

Project: Pirate State 3
 Collection Date: 9/11/2020 11:35:00 AM

 Lab ID: 2009696-002
 Matrix: SOIL
 Received Date: 9/12/2020 8:08:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	JMT
Chloride	ND	60	mg/Kg	20	9/17/2020 2:10:23 PM	55233
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst:	RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/16/2020 3:52:03 PM	55150
Surr: BFB	101	70-130	%Rec	1	9/16/2020 3:52:03 PM	55150
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	9/16/2020 10:37:09 AM	55174
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	9/16/2020 10:37:09 AM	55174
Surr: DNOP	96.3	30.4-154	%Rec	1	9/16/2020 10:37:09 AM	55174
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst:	RAA
Benzene	ND	0.024	mg/Kg	1	9/16/2020 3:52:03 PM	55150
Toluene	ND	0.048	mg/Kg	1	9/16/2020 3:52:03 PM	55150
Ethylbenzene	ND	0.048	mg/Kg	1	9/16/2020 3:52:03 PM	55150
Xylenes, Total	ND	0.095	mg/Kg	1	9/16/2020 3:52:03 PM	55150
Surr: 1,2-Dichloroethane-d4	95.5	70-130	%Rec	1	9/16/2020 3:52:03 PM	55150
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	9/16/2020 3:52:03 PM	55150
Surr: Dibromofluoromethane	105	70-130	%Rec	1	9/16/2020 3:52:03 PM	55150
Surr: Toluene-d8	101	70-130	%Rec	1	9/16/2020 3:52:03 PM	55150

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
 - 8 % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
 - E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 10

Date Reported: 9/18/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: HA-3-S

Project: Pirate State 3
 Collection Date: 9/11/2020 11:40:00 AM

 Lab ID: 2009696-003
 Matrix: SOIL
 Received Date: 9/12/2020 8:08:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	9/17/2020 2:22:43 PM	55233
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	9.9	mg/Kg	2	9/15/2020 7:33:58 PM	55150
Surr: BFB	102	70-130	%Rec	2	9/15/2020 7:33:58 PM	55150
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/16/2020 10:46:50 AM	55174
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/16/2020 10:46:50 AM	55174
Surr: DNOP	94.6	30.4-154	%Rec	1	9/16/2020 10:46:50 AM	55174
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.049	mg/Kg	2	9/15/2020 7:33:58 PM	55150
Toluene	ND	0.099	mg/Kg	2	9/15/2020 7:33:58 PM	55150
Ethylbenzene	ND	0.099	mg/Kg	2	9/15/2020 7:33:58 PM	55150
Xylenes, Total	ND	0.20	mg/Kg	2	9/15/2020 7:33:58 PM	55150
Surr: 1,2-Dichloroethane-d4	92.7	70-130	%Rec	2	9/15/2020 7:33:58 PM	55150
Surr: 4-Bromofluorobenzene	98.4	70-130	%Rec	2	9/15/2020 7:33:58 PM	55150
Surr: Dibromofluoromethane	105	70-130	%Rec	2	9/15/2020 7:33:58 PM	55150
Surr: Toluene-d8	104	70-130	%Rec	2	9/15/2020 7:33:58 PM	55150

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
 - E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 10

Date Reported: 9/18/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: HA-4-W

 Project:
 Pirate State 3
 Collection Date: 9/11/2020 11:45:00 AM

 Lab ID:
 2009696-004
 Matrix: SOIL
 Received Date: 9/12/2020 8:08:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	9/17/2020 2:35:03 PM	55233
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/15/2020 8:02:24 PM	55150
Surr: BFB	105	70-130	%Rec	1	9/15/2020 8:02:24 PM	55150
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/16/2020 10:56:32 AM	55174
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/16/2020 10:56:32 AM	55174
Surr: DNOP	122	30.4-154	%Rec	1	9/16/2020 10:56:32 AM	55174
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.024	mg/Kg	1	9/15/2020 8:02:24 PM	55150
Toluene	ND	0.048	mg/Kg	1	9/15/2020 8:02:24 PM	55150
Ethylbenzene	ND	0.048	mg/Kg	1	9/15/2020 8:02:24 PM	55150
Xylenes, Total	ND	0.096	mg/Kg	1	9/15/2020 8:02:24 PM	55150
Surr: 1,2-Dichloroethane-d4	91.0	70-130	%Rec	1	9/15/2020 8:02:24 PM	55150
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	9/15/2020 8:02:24 PM	55150
Surr: Dibromofluoromethane	106	70-130	%Rec	1	9/15/2020 8:02:24 PM	55150
Surr: Toluene-d8	101	70-130	%Rec	1	9/15/2020 8:02:24 PM	55150

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 10

Date Reported: 9/18/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: B-5-C

 Project:
 Pirate State 3
 Collection Date: 9/11/2020 11:50:00 AM

 Lab ID:
 2009696-005
 Matrix: SOIL
 Received Date: 9/12/2020 8:08:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	JMT
Chloride	130	60		mg/Kg	20	9/17/2020 2:47:23 PM	55233
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	82	24		mg/Kg	5	9/16/2020 5:46:07 PM	55150
Surr: BFB	103	70-130		%Rec	5	9/16/2020 5:46:07 PM	55150
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	1000	99		mg/Kg	10	9/16/2020 11:06:16 AM	55174
Motor Oil Range Organics (MRO)	610	500		mg/Kg	10	9/16/2020 11:06:16 AM	55174
Surr: DNOP	0	30.4-154	S	%Rec	10	9/16/2020 11:06:16 AM	55174
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst	RAA
Benzene	0.13	0.12		mg/Kg	5	9/16/2020 5:46:07 PM	55150
Toluene	3.5	0.24		mg/Kg	5	9/16/2020 5:46:07 PM	55150
Ethylbenzene	2.1	0.24		mg/Kg	5	9/16/2020 5:46:07 PM	55150
Xylenes, Total	6.8	0.48		mg/Kg	5	9/16/2020 5:46:07 PM	55150
Surr: 1,2-Dichloroethane-d4	98.6	70-130		%Rec	5	9/16/2020 5:46:07 PM	55150
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	5	9/16/2020 5:46:07 PM	55150
Surr: Dibromofluoromethane	107	70-130		%Rec	5	9/16/2020 5:46:07 PM	55150
Surr: Toluene-d8	100	70-130		%Rec	5	9/16/2020 5:46:07 PM	55150

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 10

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009696**

18-Sep-20

Client: Lucid Energy Delaware

Project: Pirate State 3

Sample ID: MB-55233 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 55233 RunNo: 71928

Prep Date: 9/17/2020 Analysis Date: 9/17/2020 SeqNo: 2518797 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-55233 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 55233 RunNo: 71928

Prep Date: 9/17/2020 Analysis Date: 9/17/2020 SeqNo: 2518798 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride 14 1.5 15.00 0 93.7 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 10

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

18-Sep-20

2009696

WO#:

Client: Lucid Energy Delaware

Project: Pirate State 3

Sample ID: 2009695-004AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: **BatchQC** Batch ID: 55174 RunNo: 71914 Prep Date: 9/15/2020 Analysis Date: 9/16/2020 SeqNo: 2517190 Units: mg/Kg %REC Analyte SPK value SPK Ref Val LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 9.1 45.29 16.79 100 47.4 62 136

 Surr: DNOP
 4.7
 4.529
 103
 30.4
 154

 Sample ID: 2009695-004AMSD
 SampType: MSD
 TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BatchQC Batch ID: 55174 RunNo: 71914

5.6

Prep Date: 9/15/2020 Analysis Date: 9/16/2020 SeqNo: 2517191 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 43.22 43.4 42 8.6 16.79 57.3 47.4 136 39.7 Surr: DNOP 60.5 30.4 2.6 4.322 154 0

Sample ID: LCS-55174 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 55174 RunNo: 71914 Analysis Date: 9/16/2020 Prep Date: 9/15/2020 SeqNo: 2517231 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Qual **PQL** LowLimit HighLimit Diesel Range Organics (DRO) 54 10 Λ 70 50.00 107 130

112

30.4

154

SampType: MBLK Sample ID: MB-55174 TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 55174 RunNo: 71914 Analysis Date: 9/16/2020 Prep Date: 9/15/2020 SeqNo: 2517233 Units: mq/Kq **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10

| Motor Oil Range Organics (MRO) | ND | 50 | Surr: DNOP | 13 | 10.00 | 127 | 30.4 | 154

5.000

Qualifiers:

Surr: DNOP

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 7 of 10

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009696**

18-Sep-20

Client: Lucid Energy Delaware

Project: Pirate State 3

Sample ID: Ics-55150	SampType: LCS4 TestCode: EPA Method 8260B: Volatiles Short List									
Client ID: BatchQC	Batcl	n ID: 55 1	150	RunNo: 71876						
Prep Date: 9/14/2020	Analysis D)ate: 9/	15/2020	S	SeqNo: 2	515702	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.9	80	120			
Toluene	0.98	0.050	1.000	0	97.8	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.5	80	120			
Xylenes, Total	3.1	0.10	3.000	0	105	80	120			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.1	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		106	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		109	70	130			
Surr: Toluene-d8	0.50		0.5000		101	70	130			
Sample ID: mb-55150	Samp1	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batcl	n ID: 55 1	150	F	RunNo: 7 ′	1876				
Prep Date: 9/14/2020	Analysis D	oate: 9/	15/2020	S	SeqNo: 2	515703	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.1	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		105	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		105	70	130			
Surr: Toluene-d8	0.50		0.5000		100	70	130			
Sample ID: 2009696-001ams	Sampl	SampType: MS4 TestCode: EPA Method 8260B: Volatiles Short List								

Sample ID: 2009696-001ams	SampType: MS4 TestCode: EPA Method 820							iles Short	List	
Client ID: HA-1-N	Batch	n ID: 55 1	150	F	RunNo: 7	1916				
Prep Date: 9/14/2020	Analysis D	ate: 9/	16/2020	8	SeqNo: 2	517240	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.024	0.9515	0	89.6	71.1	115			
Toluene	0.97	0.048	0.9515	0	102	79.6	132			
Ethylbenzene	1.0	0.048	0.9515	0	106	83.8	134			
Xylenes, Total	3.2	0.095	2.854	0	112	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.43		0.4757		89.8	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.4757		107	70	130			
Surr: Dibromofluoromethane	0.51		0.4757		106	70	130			
Surr: Toluene-d8	0.50		0.4757		105	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 10

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009696**

18-Sep-20

Client: Lucid Energy Delaware

Project: Pirate State 3

Sample ID: 2009696-001amsd	SampType: MSD4 TestCode: EPA Method 8260B: Volatiles Short List									
Client ID: HA-1-N	Batcl	Batch ID: 55150 RunNo: 71916								
Prep Date: 9/14/2020	Analysis D	Date: 9/	16/2020	5	SeqNo: 2517241 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.024	0.9737	0	88.1	71.1	115	0.662	20	
Toluene	0.95	0.049	0.9737	0	97.8	79.6	132	2.22	20	
Ethylbenzene	0.96	0.049	0.9737	0	98.3	83.8	134	5.14	20	
Xylenes, Total	3.0	0.097	2.921	0	103	82.4	132	5.66	20	
Surr: 1,2-Dichloroethane-d4	0.45		0.4869		93.3	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.50		0.4869		103	70	130	0	0	
Surr: Dibromofluoromethane	0.52		0.4869		106	70	130	0	0	
Surr: Toluene-d8	0.48		0.4869		97.9	70	130	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 10

Hall Environmental Analysis Laboratory, Inc.

18-Sep-20

2009696

WO#:

Client: Lucid Energy Delaware

Project: Pirate State 3

Sample ID: Ics-55150 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 55150 RunNo: 71876

Prep Date: 9/14/2020 Analysis Date: 9/15/2020 SeqNo: 2515733 Units: mg/Kg

Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 88.0 22 130 Surr: BFB 500 500.0 99.1 70 130

Sample ID: mb-55150 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 55150 RunNo: 71876

Prep Date: 9/14/2020 Analysis Date: 9/15/2020 SeqNo: 2515734 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 510 500.0 103 70 130

Sample ID: 2009696-002ams SampType: MS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: **HA-2-E** Batch ID: **55150** RunNo: **71916**

Prep Date: 9/14/2020 Analysis Date: 9/16/2020 SeqNo: 2517276 Units: mg/Kg

Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual **PQL** Gasoline Range Organics (GRO) 22 49.2 5.0 24.80 n 122

 Gasoline Range Organics (GRO)
 22
 5.0
 24.80
 0
 89.6
 49.2
 122

 Surr: BFB
 500
 496.0
 101
 70
 130

Sample ID: 2009696-002amsd SampType: MSD TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: **HA-2-E** Batch ID: **55150** RunNo: **71916**

Prep Date: 9/14/2020 Analysis Date: 9/16/2020 SeqNo: 2517277 Units: mg/Kg

%REC %RPD Result **PQL** SPK value SPK Ref Val LowLimit HighLimit **RPDLimit** Qual 22 Gasoline Range Organics (GRO) 4.8 24.22 0 90.0 49.2 122 1.91 20 500 Surr: BFB 484.5 104 70 130 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

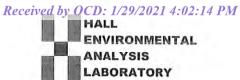
E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 10 of 10



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Lucid Energy Delaward	Work Order Numb	per: 200969	6	RcptNo	o: 1
Received By: Isaiah Ortiz	9/12/2020 8:08:00 /	AM	Inc	24	
Completed By: Isaiah Ortiz	9/12/2020 8:45:49 /	AM	I_C	246	
Reviewed By:	09/12/20 G	w 09/12/	+0		
Chain of Custody	9				
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In					
3. Was an attempt made to cool the same	ples?	Yes 🗸	No 🗌	NA 🗌	
4. Were all samples received at a tempe	rature of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗌		
6. Sufficient sample volume for indicated	test(s)?	Yes 🗸	No 🗌		
7. Are samples (except VOA and ONG) p	properly preserved?	Yes 🗸	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗸	NA 🗆	
9. Received at least 1 vial with headspac	e <1/4" for AQ VOA?	Yes	No 🗌	NA 🗹	
10. Were any sample containers received	broken?	Yes	No 🗸	#	
11. Does paperwork match bottle labels?	h a	Yes 🗸	No 🗆	# of preserved bottles checked for pH;	g//2/
(Note discrepancies on chain of custoon) 2. Are matrices correctly identified on Ch		Yes 🗸	No 🗌	Adjusted?	1 - 12 unless notet
3. Is it clear what analyses were requeste		Yes 🗸	No 🗆		
14. Were all holding times able to be met? (If no, notify customer for authorization		Yes 🗸	No 🗌	Checked by:	
Special Handling (if applicable)					
15. Was client notified of all discrepancies	s with this order?	Yes	No 🗌	NA 🗸	
Person Notified:	Date:				
By Whom:	Via:	eMail	Phone Fax	☐ In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:					
17. Cooler Information Cooler No Temp °C Condition 1 1.4 Good	n Seal Intact Seal No Not Present	Seal Date	Signed By		

Peived by OCD: 1/29/2021	:02:14 PM						Page 39 o
HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	8270 (Semi-VOA) Total Coliform (Present/Absent)						
HALL ENVI ANALYSIS www.hallenvironme kins NE - Albuquer 845-3975 Fax 50	RCRA 8 Metals C外F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA)	\times	X	X	×		
HALL ANAL ANAL ANW.hall 4901 Hawkins NE - Tel. 505-345-3975	PAHs by 8310 or 82705IMS						
₽ Hawki D5-34	EDB (Method 504.1)						
4901 H	8081 Pesticides/8082 PCB's			Ц			:S
4 -	BTEX / MTBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO)	XX	X	X	X		Remarks:
		\times	JM	X			<u>~</u>
50ml sh tet3	D No HEAL No. CO	100	38	600	000		Date Time 9 10 20 5<0 Date Time
R S	Inager: ALE CAN A C Preservative Type	TCE					Wilw. Via:
Standard	Project Manager:	402/2021				=	Received by:
Chain-of-Custody Record The control of the control of Address: On the control of	Debt - Cheray, Ctm	S 144.1.N	N.S.S.	1 HA.4.W	1850		Time: Relinquished by: Via: Date Time Remarks: TSO UMWIMM M 13 30 15 50 Time: Relinquished by: Via: Date Time
Client: Lucid Che Mailing Address: On R:	email or Fax#: woodvtre	11/20 1/30	32	1145	1150		Date: Time: Rel



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

October 19, 2020

Michael Gant Lucid Energy Delaware 201 South 4th St. Artesia, NM 88210 TEL: (575) 513-8988

FAX:

RE: Pirate State 3 OrderNo.: 2010551

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 8 sample(s) on 10/10/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 10/19/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: SW.1.N.C

 Project:
 Pirate State 3
 Collection Date: 10/8/2020 12:30:00 PM

 Lab ID:
 2010551-001
 Matrix: SOIL
 Received Date: 10/10/2020 7:30:00 AM

Analyses	Result	RL Qua	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGAN	NICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	10/13/2020 2:53:46 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/13/2020 2:53:46 PM
Surr: DNOP	75.4	30.4-154	%Rec	1	10/13/2020 2:53:46 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	10/15/2020 2:09:47 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JMR
Benzene	ND	0.024	mg/Kg	1	10/13/2020 3:51:59 AM
Toluene	ND	0.049	mg/Kg	1	10/13/2020 3:51:59 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/13/2020 3:51:59 AM
Xylenes, Total	ND	0.097	mg/Kg	1	10/13/2020 3:51:59 AM
Surr: 1,2-Dichloroethane-d4	91.3	70-130	%Rec	1	10/13/2020 3:51:59 AM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	10/13/2020 3:51:59 AM
Surr: Dibromofluoromethane	102	70-130	%Rec	1	10/13/2020 3:51:59 AM
Surr: Toluene-d8	97.1	70-130	%Rec	1	10/13/2020 3:51:59 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/13/2020 3:51:59 AM
Surr: BFB	106	70-130	%Rec	1	10/13/2020 3:51:59 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 12

Date Reported: 10/19/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: SW.2.N.C

 Project:
 Pirate State 3
 Collection Date: 10/8/2020 12:35:00 PM

 Lab ID:
 2010551-002
 Matrix: SOIL
 Received Date: 10/10/2020 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: mb
Diesel Range Organics (DRO)	ND	8.6	mg/Kg	1	10/13/2020 3:17:35 PM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	10/13/2020 3:17:35 PM
Surr: DNOP	76.6	30.4-154	%Rec	1	10/13/2020 3:17:35 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	10/15/2020 2:22:12 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	-				Analyst: JMR
Benzene	ND	0.024	mg/Kg	1	10/13/2020 4:20:31 AM
Toluene	ND	0.049	mg/Kg	1	10/13/2020 4:20:31 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/13/2020 4:20:31 AM
Xylenes, Total	ND	0.098	mg/Kg	1	10/13/2020 4:20:31 AM
Surr: 1,2-Dichloroethane-d4	91.1	70-130	%Rec	1	10/13/2020 4:20:31 AM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	10/13/2020 4:20:31 AM
Surr: Dibromofluoromethane	103	70-130	%Rec	1	10/13/2020 4:20:31 AM
Surr: Toluene-d8	101	70-130	%Rec	1	10/13/2020 4:20:31 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/13/2020 4:20:31 AM
Surr: BFB	105	70-130	%Rec	1	10/13/2020 4:20:31 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 12

Date Reported: 10/19/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: SW.3.E.C

 Project:
 Pirate State 3
 Collection Date: 10/8/2020 12:40:00 PM

 Lab ID:
 2010551-003
 Matrix: SOIL
 Received Date: 10/10/2020 7:30:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	10/13/2020 3:41:23 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/13/2020 3:41:23 PM
Surr: DNOP	123	30.4-154	%Rec	1	10/13/2020 3:41:23 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	10/15/2020 2:34:36 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	10/13/2020 4:49:02 AM
Toluene	ND	0.049	mg/Kg	1	10/13/2020 4:49:02 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/13/2020 4:49:02 AM
Xylenes, Total	ND	0.098	mg/Kg	1	10/13/2020 4:49:02 AM
Surr: 1,2-Dichloroethane-d4	89.9	70-130	%Rec	1	10/13/2020 4:49:02 AM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	10/13/2020 4:49:02 AM
Surr: Dibromofluoromethane	105	70-130	%Rec	1	10/13/2020 4:49:02 AM
Surr: Toluene-d8	103	70-130	%Rec	1	10/13/2020 4:49:02 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/13/2020 4:49:02 AM
Surr: BFB	102	70-130	%Rec	1	10/13/2020 4:49:02 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 12

Date Reported: 10/19/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: SW.4.S.C

 Project:
 Pirate State 3
 Collection Date: 10/8/2020 12:45:00 PM

 Lab ID:
 2010551-004
 Matrix: SOIL
 Received Date: 10/10/2020 7:30:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	10/13/2020 4:05:17 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/13/2020 4:05:17 PM
Surr: DNOP	82.5	30.4-154	%Rec	1	10/13/2020 4:05:17 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	10/15/2020 2:47:00 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	10/13/2020 5:17:34 AM
Toluene	ND	0.049	mg/Kg	1	10/13/2020 5:17:34 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/13/2020 5:17:34 AM
Xylenes, Total	ND	0.098	mg/Kg	1	10/13/2020 5:17:34 AM
Surr: 1,2-Dichloroethane-d4	94.5	70-130	%Rec	1	10/13/2020 5:17:34 AM
Surr: 4-Bromofluorobenzene	98.8	70-130	%Rec	1	10/13/2020 5:17:34 AM
Surr: Dibromofluoromethane	109	70-130	%Rec	1	10/13/2020 5:17:34 AM
Surr: Toluene-d8	99.5	70-130	%Rec	1	10/13/2020 5:17:34 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/13/2020 5:17:34 AM
Surr: BFB	101	70-130	%Rec	1	10/13/2020 5:17:34 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 12

Date Reported: 10/19/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: SW.5.S.C

 Project:
 Pirate State 3
 Collection Date: 10/8/2020 12:50:00 PM

 Lab ID:
 2010551-005
 Matrix: SOIL
 Received Date: 10/10/2020 7:30:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGAI	NICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	10/13/2020 4:29:05 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/13/2020 4:29:05 PM
Surr: DNOP	84.8	30.4-154	%Rec	1	10/13/2020 4:29:05 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	85	60	mg/Kg	20	10/15/2020 2:59:24 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	10/13/2020 5:46:06 AM
Toluene	ND	0.050	mg/Kg	1	10/13/2020 5:46:06 AM
Ethylbenzene	ND	0.050	mg/Kg	1	10/13/2020 5:46:06 AM
Xylenes, Total	ND	0.10	mg/Kg	1	10/13/2020 5:46:06 AM
Surr: 1,2-Dichloroethane-d4	92.0	70-130	%Rec	1	10/13/2020 5:46:06 AM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	10/13/2020 5:46:06 AM
Surr: Dibromofluoromethane	101	70-130	%Rec	1	10/13/2020 5:46:06 AM
Surr: Toluene-d8	97.8	70-130	%Rec	1	10/13/2020 5:46:06 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/13/2020 5:46:06 AM
Surr: BFB	99.9	70-130	%Rec	1	10/13/2020 5:46:06 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 12

Date Reported: 10/19/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: SW.6.W.C

 Project:
 Pirate State 3
 Collection Date: 10/8/2020 12:55:00 PM

 Lab ID:
 2010551-006
 Matrix: SOIL
 Received Date: 10/10/2020 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	10/13/2020 4:52:57 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/13/2020 4:52:57 PM
Surr: DNOP	83.6	30.4-154	%Rec	1	10/13/2020 4:52:57 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	10/15/2020 4:01:26 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	Γ				Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	10/13/2020 6:14:37 AM
Toluene	ND	0.050	mg/Kg	1	10/13/2020 6:14:37 AM
Ethylbenzene	ND	0.050	mg/Kg	1	10/13/2020 6:14:37 AM
Xylenes, Total	ND	0.10	mg/Kg	1	10/13/2020 6:14:37 AM
Surr: 1,2-Dichloroethane-d4	92.5	70-130	%Rec	1	10/13/2020 6:14:37 AM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	10/13/2020 6:14:37 AM
Surr: Dibromofluoromethane	105	70-130	%Rec	1	10/13/2020 6:14:37 AM
Surr: Toluene-d8	102	70-130	%Rec	1	10/13/2020 6:14:37 AM
EPA METHOD 8015D MOD: GASOLINE RANGE	į				Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/13/2020 6:14:37 AM
Surr: BFB	100	70-130	%Rec	1	10/13/2020 6:14:37 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 12

Date Reported: 10/19/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: B.7.C

 Project:
 Pirate State 3
 Collection Date: 10/8/2020 2:00:00 PM

 Lab ID:
 2010551-007
 Matrix: SOIL
 Received Date: 10/10/2020 7:30:00 AM

Analyses	Result	RL Qua	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	10/13/2020 5:16:54 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/13/2020 5:16:54 PM
Surr: DNOP	72.2	30.4-154	%Rec	1	10/13/2020 5:16:54 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	10/15/2020 4:13:51 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	10/13/2020 6:43:10 AM
Toluene	ND	0.050	mg/Kg	1	10/13/2020 6:43:10 AM
Ethylbenzene	ND	0.050	mg/Kg	1	10/13/2020 6:43:10 AM
Xylenes, Total	ND	0.099	mg/Kg	1	10/13/2020 6:43:10 AM
Surr: 1,2-Dichloroethane-d4	91.3	70-130	%Rec	1	10/13/2020 6:43:10 AM
Surr: 4-Bromofluorobenzene	99.5	70-130	%Rec	1	10/13/2020 6:43:10 AM
Surr: Dibromofluoromethane	100	70-130	%Rec	1	10/13/2020 6:43:10 AM
Surr: Toluene-d8	95.7	70-130	%Rec	1	10/13/2020 6:43:10 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/13/2020 6:43:10 AM
Surr: BFB	103	70-130	%Rec	1	10/13/2020 6:43:10 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 12

Date Reported: 10/19/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: B.8.C

 Project:
 Pirate State 3
 Collection Date: 10/8/2020 2:05:00 PM

 Lab ID:
 2010551-008
 Matrix: SOIL
 Received Date: 10/10/2020 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	10/13/2020 5:40:47 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/13/2020 5:40:47 PM
Surr: DNOP	85.9	30.4-154	%Rec	1	10/13/2020 5:40:47 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	10/15/2020 4:26:16 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	Т				Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	10/13/2020 7:11:40 AM
Toluene	ND	0.049	mg/Kg	1	10/13/2020 7:11:40 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/13/2020 7:11:40 AM
Xylenes, Total	ND	0.099	mg/Kg	1	10/13/2020 7:11:40 AM
Surr: 1,2-Dichloroethane-d4	87.8	70-130	%Rec	1	10/13/2020 7:11:40 AM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/13/2020 7:11:40 AM
Surr: Dibromofluoromethane	101	70-130	%Rec	1	10/13/2020 7:11:40 AM
Surr: Toluene-d8	98.2	70-130	%Rec	1	10/13/2020 7:11:40 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/13/2020 7:11:40 AM
Surr: BFB	106	70-130	%Rec	1	10/13/2020 7:11:40 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: **2010551**

19-Oct-20

Client: Lucid Energy Delaware

Project: Pirate State 3

Sample ID: MB-55848 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 55848 RunNo: 72692

Prep Date: 10/15/2020 Analysis Date: 10/15/2020 SeqNo: 2553253 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-55848 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: **LCSS** Batch ID: **55848** RunNo: **72692**

Prep Date: 10/15/2020 Analysis Date: 10/15/2020 SeqNo: 2553254 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.9 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 9 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: 2010551 19-Oct-20

Client: Lucid Energy Delaware

Project: Pirate State 3

Sample ID: MB-55773 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics PBS Client ID: Batch ID: 55773 RunNo: 72584 Prep Date: 10/12/2020 Analysis Date: 10/13/2020 SeqNo: 2549889 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 8.8 10.00 87.8 30.4 154

Sample ID: LCS-55773 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 55773 RunNo: 72584

Prep Date: 10/12/2020 Analysis Date: 10/13/2020 SeqNo: 2549890 Units: mg/Kg

SPK value SPK Ref Val %REC Analyte PQL LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 39 10 50.00 77.6 70 130 Surr: DNOP 4.1 5.000 81.1 30.4 154

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 10 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: **2010551**

19-Oct-20

Client: Lucid Energy Delaware

Project: Pirate State 3

Sample ID: Ics-55768	SampT	ype: LC	S4	PA Method	8260B: Volatiles Short List					
Client ID: BatchQC	Batch	n ID: 55 7	768	F	RunNo: 7 2	2604				
Prep Date: 10/11/2020	Analysis D	oate: 10	/12/2020	SeqNo: 2549302			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.7	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	105	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		86.8	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		101	70	130			
Surr: Toluene-d8	0.51		0.5000		101	70	130			

Sample ID: mb-55768	Samp ⁻	Гуре: МЕ	e: MBLK TestCode: EPA Method				8260B: Volatiles Short List				
Client ID: PBS	Batc	h ID: 55	768	F	RunNo: 7	2604					
Prep Date: 10/11/2020	Analysis [Date: 10	0/12/2020	SeqNo: 2549303			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.2	70	130				
Surr: 4-Bromofluorobenzene	0.54		0.5000		108	70	130				
Surr: Dibromofluoromethane	0.52		0.5000		103	70	130				
Surr: Toluene-d8	0.48		0.5000		96.0	70	130				

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 11 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: **2010551**

19-Oct-20

Client: Lucid Energy Delaware

Project: Pirate State 3

Sample ID: Ics-55768 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 55768 RunNo: 72604

Prep Date: 10/11/2020 Analysis Date: 10/12/2020 SeqNo: 2549385 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit 0 21 5.0 25.00 84.7 70 130

 Gasoline Range Organics (GRO)
 21
 5.0
 25.00
 0
 84.7
 70
 130

 Surr: BFB
 500
 500.0
 101
 70
 130

Sample ID: mb-55768 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 55768 RunNo: 72604

Prep Date: 10/11/2020 Analysis Date: 10/12/2020 SeqNo: 2549386 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 530 500.0 106 70 130

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 12



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Lucid Energy Delaware	Work Order Number: 201	0551		RcptNo: 1
Received By: Juan Rojas 1	0/10/2020 7:30:00 AM	4	- Laws &	
Completed By: Juan Rojas 1	0/10/2020 8:01:28 AM	1	Lang.	
Reviewed By:)		
Chain of Custody				
1. Is Chain of Custody complete?	Yes	V	No 🗌	Not Present
2. How was the sample delivered?	Cou	rier		
<u>Log In</u>				
3. Was an attempt made to cool the samples?	Yes	V	No 🗌	NA 🗆
4. Were all samples received at a temperature of	>0° C to 6.0°C Yes	V	No 🗆	NA 🗆
5. Sample(s) in proper container(s)?	Yes	V	No 🗌	
6. Sufficient sample volume for indicated test(s)?	Yes	V	No 🗆	
7. Are samples (except VOA and ONG) properly p	reserved? Yes	V	No 🗌	
8. Was preservative added to bottles?	Yes		No 🗸	NA 🗆
9. Received at least 1 vial with headspace <1/4" fo	r AQ VOA? Yes		No 🗌	NA 🗹
0. Were any sample containers received broken?	Yes		No 🗸	# of preserved
Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes	V	No 🗆	bottles checked for pH: (<2 or >12 unless noted)
2. Are matrices correctly identified on Chain of Cus	stody? Yes	✓	No 🗆	Adjusted?
3. Is it clear what analyses were requested?	Yes	\checkmark	No 🗆	/ 10 11
4. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes	V	No 🗆	Checked by: JR 10 10
pecial Handling (if applicable)			×	
5. Was client notified of all discrepancies with this	order? Yes		No 🗌	NA 🗹
Person Notified:	Date			
By Whom:	Via: eM	ail 🗌 Phon	e 🗌 Fax [In Person
Regarding:				
Client Instructions:				
16. Additional remarks:				
7. Cooler Information Cooler No Temp °C Condition Seal 1 0.3 Good	Intact Seal No Seal D	ate Sig	ned By	

CHIVIDORIMATA	. >		601		The second second																				Page :	
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d Time:	d 🗆 Rush	le:	e State			ader:	9	rel Gant	46	☑ Yes			Preservative Type	"TCE										Via:	Via:	Mr. C. Dir
Turn-Around T	X Standard	Project Name:	Pirate	Project #:		Project Manag		Michae	Sampler: 1	On Ice:	# of Coolers:	Cooler Temp(including CF):	Container Type and #	402Soilsar	1						_	_		Received by:	Received by:	My
Chain-of-Custody Record	ray	7	61.5	-1	7476	cid-erecay, com	7	☐ Level 4 (Full Validation)	☐ Az Compliance	11.			Sample Name	SW-1-N-C	SW. 2:11-C	SW-3-E-C	SW.4.5.C	SW.5.5.C	Sw. 6 W.C	B.7.C	B.8.C		· ·	hed by:	led by:	
-of-C	-veid Energy		S. On E		1220727	Magn	b						Matrix	S	_									Relinquished by:	Relinguished by	1
Shain	Luci		Mailing Address: On C		Div # euoHA	or Fax#: v	QA/QC Package:	ndard	Accreditation:	AC	☐ EDD (Type)		Time	1330	1235	1240	BHS	1250	1385	(4cc	1405		j	Date: Time:	Time:	100 100 mg
ease	Client:		Mailing:	1/11	Phone	email	QA/QC	□ Standard	Accred	□ NE			Date	16/8/20	_						_			Date:	Date:	11/9/20



Appendix E

Volume Calculations

Date	Input	Output	Difference (MCF)	% loss
12/6/2019	2,515.80	2,531.50	15.7	0.62%
12/7/2019		2,711.10		4.08%
12/8/2019	2,663.10	2,563.10	-100	-3.76%
12/9/2019			-406.2	-15.89%
12/10/2019		1,774.80	-485.7	-21.49%
12/11/2019		2,206.70	-372.8	-14.45%
12/12/2019		1,507.70	-641.5	-29.85%
12/13/2019		410.8	-766.4	-65.10%
12/14/2019	1,660.60	749.1	-911.5	-54.89%
12/15/2019	1,107.70	199	-908.7	-82.03%
12/16/2019	1,414.50	804.2	-610.3	-43.15%
12/17/2019	2,149.50	1,592.40	-557.1	-25.92%
12/18/2019	2,369.00	1,932.80	-436.2	-18.41%
12/19/2019	1,961.60	1,789.20	-172.4	-8.79%
12/20/2019		502.6		-65.18%
12/21/2019	1,650.90		-1027.8	-62.26%
12/22/2019			-428	-18.73%
12/23/2019	1,331.00	655.2	-675.8	-50.78%
12/24/2019	2,464.70	1,813.50	-651.2	-26.42%
12/25/2019	2,075.50	1,350.10	-725.4	-34.95%
12/26/2019	2,436.50	1,710.10	-726.4	-29.81%
12/27/2019	2,145.80	1,571.50	-574.4	-26.77%
12/28/2019	2,438.80	1,748.60	-690.3	-28.30%
12/29/2019	2,166.80	1,401.60	-765.2	-35.31%
12/30/2019	1,804.50	1,176.70	-627.8	-34.79%
12/31/2019	2,531.30	1,981.20	-550.1	-21.73%
1/1/2020	1,524.30	690.8	-833.5	-54.68%
1/2/2020	1,102.40	113.9	-988.5	-89.67%
	2,286.00			-25.97%
1/4/2020	2,435.30	1,668.60	-766.7	-31.48%
1/5/2020	2,192.70	1,198.60	-994.1	-45.34%
1/6/2020	1,781.90	802.7	-979.2	-54.95%
1/7/2020	2,839.30	2,325.60	-513.7	-18.09%
1/8/2020	2,490.70	1,986.10	-504.7	-20.26%
1/9/2020	2,218.00	1,370.70	-847.3	-38.20%
1/10/2020	2,460.30	2,082.40	-377.9	-15.36%
1/11/2020	1,677.40	897.1	-780.3	-46.52%
1/12/2020		120.8	-984.5	-89.07%
1/13/2020		119.5	-947.3	-88.80%
1/14/2020		120.6	-939.8	-88.63%
1/15/2020	1,081.00	115.6	-965.4	-89.31%
1/16/2020		942.3	-1222	-56.46%
1/17/2020		2,044.70	-761.7	-27.14%
1/18/2020			-759.8	-27.05%
1/19/2020	1,356.80	152	-1204.8	-88.79%

1/20/2020	1,404.20	105.4	-1298.8	-92.50%
1/21/2020	1,428.70	507.9	-920.8	-64.45%
1/22/2020	2,700.60	1,091.50	-1609	-59.58%
1/23/2020		543.5	-1264.9	
1/24/2020		815	-1558.8	-65.67%
1/25/2020		65.6	-1192.6	
1/26/2020			-1140	-44.69%
1/27/2020			-385.9	
1/28/2020		2,560.90	-364.3	
1/29/2020			-572.4	
1/30/2020			-544.3	
1/31/2020		100.9	-967.2	-90.55%
2/1/2020			-550.1	-22.39%
2/2/2020			-408.7	-14.89%
2/3/2020			-656	-34.91%
2/4/2020		1,323.60	-698.1	
2/5/2020		20	-967.7	-97.98%
2/6/2020		1,161.00	-866.5	
2/7/2020			-578.9	-24.66%
2/8/2020		1,887.10	-520.8	-21.63%
2/9/2020		2,283.10	-391.8	
2/10/2020			-588.1	-27.07%
2/11/2020		534	-1349.8	
2/12/2020			-656.4	-25.92%
2/13/2020			-645.9	-37.95%
2/14/2020		873	-862.7	-49.70%
2/15/2020		133.7	-977.2	-87.96%
2/16/2020			-886.2	-50.32%
2/17/2020		832.1	-845	-50.39%
2/18/2020		0	-1007.2	-100%
2/19/2020			-1009.9	
2/20/2020		0	-1004.9	-100%
2/21/2020	984.5	4.1	-980.4	-99.58%
2/22/2020	987.8	166	-821.8	-83.19%
2/23/2020	980	0	-980	-100%
2/24/2020	980.8	0	-980.8	-100%
2/25/2020			-714.6	-30.86%
2/26/2020			-552.5	-19.70%
2/27/2020		618.5	-868.6	-58.41%
2/28/2020	979.1	0	-979.1	-100%
2/29/2020		1,080.50	-846.5	-43.93%
3/1/2020	2,918.60	2,359.00	-559.6	-19.17%
3/2/2020			-549.8	-18.39%
3/3/2020	2,976.40	2,367.40	-608.9	-20.46%
3/4/2020	1,918.30	1,144.90	-773.3	-40.31%
3/5/2020	2,393.00	1,507.10	-885.8	-37.02%
3/6/2020	3,040.40	2,393.10	-647.2	-21.29%
			<u>-</u>	

3/7/2020			-764.3	
3/8/2020	2,115.40	1,298.40	-817	-38.62%
3/9/2020	3,038.60	2,500.70	-538	-17.71%
3/10/2020	2,674.90	2,039.00	-635.9	-23.77%
3/11/2020	1,980.50	1,204.30	-776.2	-39.19%
3/12/2020	2,065.90	1,193.60	-872.3	-42.22%
3/13/2020	2,145.30	1,351.90	-793.4	-36.98%
3/14/2020	979.3	0	-979.3	-100%
3/15/2020	1,049.00	0	-1049	-100%
3/16/2020	1,006.70	0	-1006.7	-100%
3/17/2020	974.4	0	-974.4	-100%
3/18/2020	1,177.60	217.6	-960	-81.52%
3/19/2020			-675.9	
3/20/2020			-628.5	-24.78%
3/21/2020			-565.4	
3/22/2020		2,095.70	-620.6	-22.85%
3/23/2020		1,714.60	-648.8	
3/24/2020		1,706.90	-682.4	
3/25/2020			-718.3	
3/26/2020		2,213.60	-606.1	
3/27/2020		1,558.50	-710.7	-31.32%
3/28/2020		263.2	-1140.9	
3/29/2020	967.5	0	-967.5	-100%
3/30/2020		696.9	-880.8	
3/31/2020			-696.4	
4/1/2020		1,887.00	-707.7	-27.28%
4/2/2020			-590.7	
4/3/2020			-592.1	-19.09%
4/4/2020			-654.2	
4/5/2020			-587.3	-19.40%
4/6/2020				
4/7/2020			-569.1	
4/8/2020			-575.3	-20.58%
4/9/2020	-	-	-574.8	
4/10/2020			-584.6	
4/11/2020			-578.3	-20.40%
4/11/2020		2,262.60	-601.4	-20.40%
4/13/2020		2,268.80	-578.9	-20.33%
4/13/2020			-619.3	-21.71%
4/15/2020			-579.7	-21.71%
4/15/2020			-576.1	-19.83%
4/17/2020			-536.3	-19.83%
			-536.3 -717.2	
4/18/2020		1,662.30		-30.14%
4/19/2020		2,375.90	-570.5	-19.36%
4/20/2020		1,970.30	-621.3	-23.97%
4/21/2020			-693.5	-26.39%
4/22/2020	2,979.60	2,375.70	-603.9	-20.27%

4/23/2020	3,026.00	2,430.20	-595.8	-19.69%
4/24/2020	2,768.30	2,138.70	-629.6	-22.74%
4/25/2020	3,063.00	2,489.50	-573.4	-18.72%
4/26/2020		2,301.30	-634.8	-21.62%
4/27/2020	2,763.50	1,862.30	-901.2	-32.61%
4/28/2020	2,959.40	2,235.00	-724.4	-24.48%
4/29/2020	3,057.40	2,456.00	-601.4	-19.67%
4/30/2020		1,532.80	-807.3	-34.50%
5/1/2020		2,644.60	-379.4	-12.55%
5/2/2020	3,172.20	2,571.40	-600.8	-18.94%
5/3/2020	3,212.20	2,624.20	-587.9	-18.30%
	2,528.10	1,981.20	-546.9	-21.63%
	362.7	205.6	-346.9	-43.30%
5/5/2020				
5/6/2020	42.8	0.4	-42.4	-99.04%
5/7/2020	41	0.1	-40.9	-99.64%
5/8/2020	39.9	1.4	-38.4	-96.42%
	1,034.10	0.4	-1033.7	-99.96%
5/10/2020	880	0	-879.9	-100%
5/11/2020	857.8	0	-857.8	-100%
5/12/2020	1,010.40	0.3	-1010.1	-99.97%
5/13/2020	980.1	12.2	-967.9	-98.76%
5/14/2020	1,027.20	0	-1027.2	-100%
5/15/2020	964.2	2.6	-961.5	-99.73%
5/16/2020	1,056.40	7.8	-1048.6	-99.27%
5/17/2020	1,053.00	14	-1039	-98.67%
5/18/2020	1,026.90	1.3	-1025.6	-99.87%
5/19/2020	1,035.60	0	-1035.6	-100%
5/20/2020	1,041.20	0	-1041.2	-100%
5/21/2020	1,040.40	0	-1040.4	-100%
5/22/2020	1,034.60	0	-1034.6	-100%
5/23/2020	1,030.70	0	-1030.7	-100%
5/24/2020		0	-1030	-100%
5/25/2020	1,035.20	0	-1035.2	-100%
5/26/2020	1,029.00	0	-1029	-100%
5/27/2020	1,023.00	0	-1023	-100%
5/28/2020	1,023.50	0	-1023.5	-100%
5/29/2020	995.5	0	-995.5	-100%
5/30/2020	980.3	0	-980.3	-100%
5/31/2020	979.8	0	-979.8	-100%
6/1/2020	971.9	0	-971.9	-100%
6/2/2020	986.7	12.9	-973.7	-98.69%
6/3/2020	966.6	0	-966.6	-100%
6/4/2020	1,674.80	616.5	-1058.2	-63.19%
6/5/2020		966.7	-966.2	-49.99%
		2,389.40	-580.2	-49.55% -19.54%
6/6/2020	2,969.60			
6/7/2020	2,652.50	2,020.10	-632.4	-23.84%
6/8/2020	2,784.70	1,848.70	-936	-33.61%

6/9/2020 2,635.90 1,920.30 -715.5 -27.15% 6/10/2020 3,192.10 2,657.60 -534.5 -16.74% 6/11/2020 3,251.30 2,677.30 -574 -17.65% 6/12/2020 3,133.30 2,449.90 -688.4 -21.96% 6/13/2020 3,614.60 3,054.60 -560 -15.49% 6/15/2020 3,577.60 2,998.60 -579 -16.18% 6/16/2020 1,011.10 17.9 -993.2 -98.23% 6/18/2020 3,039.80 2,285.40 -754.3 -24.82% 6/18/2020 3,039.80 2,285.40 -754.3 -24.82% 6/18/2020 3,593.00 2,288.90 -620.9 -17.69% 6/19/2020 3,459.80 2,713.80 -746 -21.56% 6/20/2020 3,612.60 3,084.50 -528.1 -14.62% 6/21/2020 3,531.30 3,016.10 -515.2 -14.59% 6/22/2020 3,531.30 3,016.10 -515.2 -14.59% 6/23/2020 3,533.30 3,016.10 -515.2 -14.59% 6/24/2020 3,533.00 2,991.80 -5331.9 -15.09% 6/24/2020 3,480.50 2,961.70 -518.8 -14.91% 6/26/2020 1,266.20 309 -957.2 -75.60% 6/27/2020 991.4 0 -991.4 -100% 6/28/2020 3,436.50 2,961.70 -518.8 -14.91% 6/26/2020 3,436.50 2,961.70 -518.8 -14.91% 6/26/2020 3,454.60 2,999.60 -524.9 -15.20% 6/30/2020 3,335.90 2,888.00 -692.5 -20.79% 7/1/2020 3,435.60 2,996.0 -524.9 -15.20% 6/30/2020 3,343.05 0,268.80 -692.5 -20.79% 7/1/2020 3,435.60 2,996.10 -444.1 -13.01% 7/2/2020 3,433.00 2,807.40 -435.7 -13.43% 7/5/2020 3,433.20 2,969.10 -444.1 -13.01% 7/2/2020 3,433.20 2,969.10 -444.1 -13.01% 7/2/2020 3,433.20 2,969.10 -444.1 -13.01% 7/2/2020 3,433.20 2,969.10 -444.1 -13.01% 7/1/2020 3,294.30 2,827.20 -467.1 -14.18% 7/5/2020 3,433.00 2,807.40 -435.7 -13.43% 7/1/2020 3,243.00 2,807.40 -435.7 -13.43% 7/1/2020 3,243.00 2,807.40 -435.7 -13.43% 7/1/2020 3,243.00 2,807.40 -435.7 -13.43% 7/1/2020 3,243.00 2,807.40 -435.7 -13.43% 7/1/2020 3,243.00 2,807.40 -435.7 -13.43% 7/1/2020 3,263.90 2,883.80 -446.3 -13.05% 7/11/2020 3,263.90 2,883.80 -446.3 -13.05% 7/11/2020 3,263.90 2,883.80 -446.3 -13.36% 7/15/2020 3,264.90 2,823.10 -439.9 -13.48% 7/11/2020 3,265.90 2,823.10 -439.9 -13.48% 7/11/2020 3,265.90 2,823.10 -439.9 -13.48% 7/11/2020 3,265.90 2,823.10 -439.9 -13.48% 7/11/2020 3,265.90 2,826.90 -426.7 -12.95% 7/11/2020 3,265.90 2,826.90 -426.7 -12.95% 7/11/2020 3,265.90 2,866.90 -426.7 -12.95% 7/11/2020 3,265.90 2,866.90					
6/11/2020 3,251.30 2,677.30 -574 -17.65% 6/12/2020 3,139.30 2,449.90 -689.4 -21.96% 6/13/2020 3,454.50 2,864.80 -589.8 -17.07% 6/14/2020 3,614.60 3,054.60 -560 -15.49% 6/15/2020 3,577.60 2,998.60 -579 -16.18% 6/16/2020 1,011.10 17.9 -993.2 -98.23% 6/17/2020 3,039.80 2,285.40 -754.3 -24.82% 6/18/2020 3,599.80 2,888.90 -620.9 -17.69% 6/19/2020 3,459.80 2,713.80 -746 -21.56% 6/20/2020 3,612.60 3,084.50 -528.1 -14.62% 6/21/2020 3,573.90 3,037.90 -535.9 -15% 6/22/2020 3,531.30 3,016.10 -515.2 -14.59% 6/22/2020 3,531.30 3,016.10 -515.2 -14.59% 6/22/2020 3,531.30 3,016.10 -515.2 -14.59% 6/24/2020 3,362.40 2,791.90 -570.5 -16.97% 6/25/2020 3,480.50 2,961.70 -518.8 -14.91% 6/26/2020 1,266.20 309 -957.2 -75.60% 6/27/2020 991.4 0 -991.4 -100% 6/28/2020 3,454.60 2,929.60 -524.9 -15.20% 6/29/2020 3,454.60 2,929.60 -524.9 -15.20% 6/30/2020 3,365.40 2,999.60 -524.9 -15.20% 6/29/2020 3,454.60 2,929.60 -523.3 -17.06% 7/2/2020 3,454.60 2,929.60 -523.3 -17.06% 7/2/2020 3,456.60 2,926.00 -523.3 -17.06% 7/2/2020 3,456.60 2,926.00 -523.3 -17.06% 7/2/2020 3,456.60 2,926.00 -523.3 -17.06% 7/2/2020 3,456.60 2,926.00 -523.3 -17.06% 7/2/2020 3,456.60 2,926.00 -444.1 -13.01% 7/4/2020 3,294.30 2,827.20 -4467.1 -14.18% 7/5/2020 3,264.80 1,986.60 -573.3 -17.06% 7/2/2020 3,456.60 2,928.40 -438.2 -13.02% 7/6/2020 3,243.00 2,827.20 -4467.1 -14.18% 7/5/2020 3,264.80 1,987.40 -438.2 -13.02% 7/8/2020 3,243.00 2,827.20 -443.5 -13.43% 7/7/2020 2,955.20 2,512.00 -443.5 -13.43% 7/12/2020 3,035.70 2,584.80 -450.9 -14.85% 7/11/2020 3,035.70 2,584.80 -450.9 -14.85% 7/11/2020 3,262.90 2,823.10 -433.5 -13.35% 7/11/2020 3,262.90 2,823.10 -433.5 -13.35% 7/11/2020 3,265.00 2,823.10 -433.9 -13.28% 7/11/2020 3,265.00 2,823.10 -433.9 -13.28% 7/11/2020 3,265.00 2,823.10 -433.5 -13.35% 7/11/2020 3,265.00 2,823.10 -439.9 -13.48% 7/11/2020 3,265.00 2,823.10 -439.9 -13.48% 7/11/2020 3,265.00 2,823.10 -439.9 -13.48% 7/11/2020 3,265.00 2,823.10 -439.9 -13.48% 7/11/2020 3,265.00 2,826.30 -450.2 -13.74% 7/11/2020 3,265.00 2,826.30 -450.2 -13.74% 7/11/2020 3,265.00 2,826.	6/9/2020	2,635.90	1,920.30	-715.5	-27.15%
6/12/2020 3,139.30 2,449.90 -689.4 -21.96% 6/13/2020 3,454.50 2,864.80 -589.8 -17.07% 6/14/2020 3,614.60 3,054.60 -560 -15.49% 6/15/2020 3,577.60 2,998.60 -579 -16.18% 6/16/2020 1,011.10 17.9 -993.2 -98.23% 6/17/2020 3,039.80 2,285.40 -754.3 -24.82% 6/18/2020 3,593.80 2,288.90 -620.9 -17.69% 6/19/2020 3,459.80 2,713.80 -746 -21.56% 6/20/2020 3,612.60 3,084.50 -528.1 -14.62% 6/21/2020 3,533.70 3,037.90 -535.9 -15% 6/23/2020 3,523.70 2,991.80 -531.9 -15.09% 6/24/2020 3,480.50 2,961.70 -518.8 -14.91% 6/25/2020 3,480.50 2,991.00 -570.5 -516.97% 6/25/2020 1,266.20 309 -957.2 -75.60%	6/10/2020	3,192.10	2,657.60	-534.5	-16.74%
6/13/2020 3,454.50 2,864.80 -589.8 -17.07% 6/14/2020 3,614.60 3,054.60 -560 -15.49% 6/15/2020 3,577.60 2,998.60 -579 -16.18% 6/16/2020 1,011.10 17.9 -993.2 -98.23% 6/17/2020 3,039.80 2,285.40 -754.3 -24.82% 6/18/2020 3,599.80 2,888.90 -620.9 -17.69% 6/19/2020 3,612.60 3,084.50 -528.1 -14.62% 6/21/2020 3,573.90 3,037.90 -535.9 -15% 6/22/2020 3,531.30 3,016.10 -515.2 -14.59% 6/23/2020 3,362.40 2,791.90 -570.5 -16.97% 6/26/2020 3,480.50 -957.2 -75.60% 6/22/2020 3,480.50 2,991.80 -531.9 -15.09% 6/24/2020 3,340.50 2,961.70 -518.8 -14.91% 6/22/2020 3,480.50 2,961.70 -518.8 -14.91% 6/	6/11/2020	3,251.30	2,677.30	-574	-17.65%
6/14/2020 3,614.60 3,054.60 -560 -15.49% 6/15/2020 3,577.60 2,998.60 -579 -16.18% 6/16/2020 1,011.10 17.9 -993.2 -98.23% 6/17/2020 3,599.80 2,888.90 -620.9 -17.69% 6/19/2020 3,459.80 2,713.80 -746 -21.56% 6/20/2020 3,612.60 3,084.50 -528.1 -14.62% 6/21/2020 3,573.90 3,037.90 -535.9 -15% 6/23/2020 3,523.70 2,991.80 -531.9 -15.09% 6/23/2020 3,523.70 2,991.80 -531.9 -15.09% 6/24/2020 3,480.50 2,961.70 -518.8 -14.91% 6/26/2020 1,266.20 309 -957.2 -75.60% 6/27/2020 991.4 0 -991.4 -100% 6/28/2020 2,129.00 1,324.30 -804.7 -37.80% 6/29/2020 3,454.60 2,929.60 -524.9 -15.20*	6/12/2020	3,139.30	2,449.90	-689.4	-21.96%
6/15/2020 3,577.60 2,998.60 -579 -16.18% 6/16/2020 1,011.10 17.9 -993.2 -98.23% 6/17/2020 3,039.80 2,285.40 -754.3 -24.82% 6/18/2020 3,509.80 2,888.90 -620.9 -17.69% 6/19/2020 3,612.60 3,084.50 -528.1 -14.62% 6/21/2020 3,531.30 3,016.10 -515.2 -14.59% 6/22/2020 3,531.30 3,016.10 -515.2 -14.59% 6/23/2020 3,523.70 2,991.80 -570.5 -16.97% 6/25/2020 3,480.50 2,961.70 -518.8 14.91% 6/26/2020 1,266.20 309 -957.2 -75.60% 6/27/2020 991.4 0 -991.4 -100% 6/28/2020 2,129.00 1,324.30 -804.7 -37.80% 6/29/2020 3,454.60 2,929.60 -524.9 -15.20% 6/30/2020 3,405.60 2,961.20 -444.3 -13.05%	6/13/2020	3,454.50	2,864.80	-589.8	-17.07%
6/16/2020 1,011.10 17.9 -993.2 -98.23% 6/17/2020 3,039.80 2,285.40 -754.3 -24.82% 6/18/2020 3,509.80 2,888.90 -620.9 -17.69% 6/19/2020 3,612.60 3,084.50 -528.1 -14.62% 6/21/2020 3,531.30 3,016.10 -515.2 -14.59% 6/22/2020 3,531.30 3,016.10 -515.2 -14.59% 6/22/2020 3,523.70 2,991.80 -570.5 -16.97% 6/23/2020 3,62.40 2,791.90 -570.5 -16.97% 6/25/2020 3,480.50 2,961.70 -518.8 -14.91% 6/26/2020 1,266.20 309 -957.2 -75.60% 6/27/2020 991.4 0 -991.4 -100% 6/28/2020 2,129.00 1,324.30 -804.7 -37.80% 6/29/2020 3,454.60 2,929.60 -524.9 -15.20% 6/30/2020 3,305.0 2,638.00 -692.5 -20.79%	6/14/2020	3,614.60	3,054.60	-560	-15.49%
6/17/2020 3,039.80 2,285.40 -754.3 -24.82% 6/18/2020 3,509.80 2,888.90 -620.9 -17.69% 6/19/2020 3,612.60 3,084.50 -528.1 -14.62% 6/21/2020 3,573.90 3,037.90 -535.9 -15% 6/22/2020 3,531.30 3,016.10 -515.2 -14.59% 6/23/2020 3,523.70 2,991.80 -531.9 -15.09% 6/24/2020 3,362.40 2,791.90 -570.5 -16.97% 6/25/2020 3,480.50 2,961.70 -518.8 -14.91% 6/26/2020 1,266.20 309 -957.2 -75.60% 6/27/2020 3,454.60 2,929.60 -524.9 -15.20% 6/30/2020 3,359.90 2,786.60 -573.3 17.06% 7/1/2020 3,413.20 2,961.20 -444.3 13.05% 7/3/2020 3,413.20 2,969.10 -444.1 13.01% 7/4/2020 3,294.30 2,827.20 -467.1 -41.8%	6/15/2020	3,577.60	2,998.60	-579	-16.18%
6/18/2020 3,509.80 2,888.90 -620.9 -17.69% 6/19/2020 3,459.80 2,713.80 -746 -21.56% 6/20/2020 3,612.60 3,084.50 -528.1 -14.62% 6/21/2020 3,573.90 3,037.90 -535.9 -15% 6/22/2020 3,531.30 3,016.10 -515.2 -14.59% 6/23/2020 3,523.70 2,991.80 -531.9 -15.09% 6/24/2020 3,362.40 2,791.90 -570.5 -16.97% 6/25/2020 3,480.50 2,961.70 -518.8 -14.91% 6/26/2020 1,266.20 309 -957.2 -75.60% 6/27/2020 991.4 0 -991.4 -100% 6/28/2020 2,129.00 1,324.30 -804.7 -37.80% 6/29/2020 3,454.60 2,929.60 -524.9 -15.20% 6/30/2020 3,405.60 2,961.20 -444.3 -13.05% 7/1/2020 3,435.90 2,786.60 -573.3 17.06%	6/16/2020	1,011.10	17.9	-993.2	-98.23%
6/19/2020 3,459.80 2,713.80 -746 -21.56% 6/20/2020 3,612.60 3,084.50 -528.1 -14.62% 6/21/2020 3,573.90 3,037.90 -535.9 -15% 6/22/2020 3,531.30 3,016.10 -515.2 -14.59% 6/23/2020 3,523.70 2,991.80 -531.9 -15.09% 6/24/2020 3,362.40 2,791.90 -570.5 -16.97% 6/25/2020 3,480.50 2,961.70 -518.8 -14.91% 6/26/2020 1,266.20 309 -957.2 -75.60% 6/27/2020 991.4 0 -991.4 -100% 6/28/2020 2,129.00 1,324.30 -804.7 -37.80% 6/29/2020 3,454.60 2,929.60 -524.9 -15.20% 6/30/2020 3,330.50 2,638.00 -692.5 -20.79% 7/1/2020 3,454.60 2,928.60 -573.3 -17.06% 7/2/2020 3,413.20 2,969.10 -444.1 -13.01%	6/17/2020	3,039.80	2,285.40	-754.3	-24.82%
6/20/2020 3,612.60 3,084.50 -528.1 -14.62% 6/21/2020 3,573.90 3,037.90 -535.9 -15% 6/22/2020 3,531.30 3,016.10 -515.2 -14.59% 6/23/2020 3,523.70 2,991.80 -531.9 -15.09% 6/24/2020 3,362.40 2,791.90 -570.5 -16.97% 6/25/2020 3,480.50 2,961.70 -518.8 -14.91% 6/26/2020 1,266.20 309 -957.2 -75.60% 6/27/2020 991.4 0 -991.4 -100% 6/28/2020 2,129.00 1,324.30 -804.7 -37.80% 6/29/2020 3,454.60 2,929.60 -524.9 -15.20% 6/30/2020 3,330.50 2,638.00 -692.5 -20.79% 7/1/2020 3,405.60 2,961.20 -444.3 -13.05% 7/3/2020 3,413.20 2,969.10 -444.1 -13.01% 7/4/2020 3,294.30 2,827.20 -467.1 -41.18%	6/18/2020	3,509.80	2,888.90	-620.9	-17.69%
6/21/2020 3,573.90 -535.9 -15% 6/22/2020 3,531.30 3,016.10 -515.2 -14.59% 6/23/2020 3,523.70 2,991.80 -531.9 -15.09% 6/24/2020 3,362.40 2,791.90 -570.5 -16.97% 6/25/2020 3,480.50 2,961.70 -518.8 -14.91% 6/26/2020 1,266.20 309 -957.2 -75.60% 6/27/2020 991.4 0 -991.4 -100% 6/28/2020 2,129.00 1,324.30 -804.7 -37.80% 6/29/2020 3,454.60 2,929.60 -524.9 -15.20% 6/30/2020 3,330.50 2,638.00 -692.5 -20.79% 7/1/2020 3,359.90 2,786.60 -573.3 -17.06% 7/2/2020 3,413.20 2,969.10 -444.1 -13.01% 7/4/2020 3,294.30 2,827.20 -467.1 -14.18% 7/5/2020 3,366.60 2,928.40 -438.2 -13.02% 7/8/2020	6/19/2020	3,459.80	2,713.80	-746	-21.56%
6/22/2020 3,531.30 3,016.10 -515.2 -14.59% 6/23/2020 3,523.70 2,991.80 -531.9 -15.09% 6/24/2020 3,362.40 2,791.90 -570.5 -16.97% 6/25/2020 3,480.50 2,961.70 -518.8 -14.91% 6/26/2020 1,266.20 309 -957.2 -75.60% 6/27/2020 991.4 0 -991.4 -100% 6/28/2020 2,129.00 1,324.30 -804.7 -37.80% 6/29/2020 3,454.60 2,929.60 -524.9 -15.20% 6/30/2020 3,330.50 2,638.00 -692.5 -20.79% 7/1/2020 3,345.60 2,928.60 -573.3 -17.06% 7/2/2020 3,405.60 2,961.20 -444.3 -13.05% 7/3/2020 3,413.20 2,969.10 -444.1 -13.01% 7/4/2020 3,294.30 2,827.20 -467.1 -14.18% 7/5/2020 3,243.00 2,807.40 -435.7 -13.43% 7/7/2020 2,955.20 2,512.00 -443.2 -15% <	6/20/2020	3,612.60	3,084.50	-528.1	-14.62%
6/23/2020 3,523.70 2,991.80 -531.9 -15.09% 6/24/2020 3,362.40 2,791.90 -570.5 -16.97% 6/25/2020 3,480.50 2,961.70 -518.8 -14.91% 6/26/2020 1,266.20 309 -957.2 -75.60% 6/27/2020 991.4 0 -991.4 -100% 6/28/2020 2,129.00 1,324.30 -804.7 -37.80% 6/29/2020 3,454.60 2,929.60 -524.9 -15.20% 6/30/2020 3,330.50 2,638.00 -692.5 -20.79% 7/1/2020 3,405.60 2,969.10 -444.3 -13.05% 7/3/2020 3,413.20 2,969.10 -444.1 -13.01% 7/4/2020 3,294.30 2,827.20 -467.1 -14.18% 7/5/2020 3,366.60 2,928.40 -438.2 -13.02% 7/6/2020 3,243.00 2,807.40 -435.7 -13.43% 7/7/2020 2,955.20 2,512.00 -443.2 -15% 7/8/2020 3,142.70 2,699.20 -443.5 -14.11% <t< td=""><td>6/21/2020</td><td>3,573.90</td><td>3,037.90</td><td>-535.9</td><td>-15%</td></t<>	6/21/2020	3,573.90	3,037.90	-535.9	-15%
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7/6/2020 3,243.00 2,807.40 -435.7 -13.43% 7/7/2020 2,955.20 2,512.00 -443.2 -15% 7/8/2020 3,142.70 2,699.20 -443.5 -14.11% 7/9/2020 1,083.20 196.7 -886.5 -81.84% 7/10/2020 2,664.80 2,185.60 -479.2 -17.98% 7/11/2020 3,035.70 2,584.80 -450.9 -14.85% 7/12/2020 2,194.80 1,525.90 -668.9 -30.48% 7/13/2020 3,283.20 2,844.70 -438.5 -13.35% 7/14/2020 3,340.10 2,893.80 -446.3 -13.36% 7/15/2020 3,262.90 2,823.10 -439.9 -13.48% 7/16/2020 3,253.50 2,811.30 -442.3 -13.59% 7/17/2020 3,282.30 2,832.00 -450.3 -13.72% 7/18/2020 3,276.50 2,826.30 -450.2 -13.74% 7/20/2020 3,267.40 2,818.10 -449.3 -13.75% 7/21/2020 3,285.20 2,848.70 -436.5 -13.29%	7/4/2020	3,294.30	2,827.20	-467.1	-14.18%
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7/8/2020 3,142.70 2,699.20 -443.5 -14.11% 7/9/2020 1,083.20 196.7 -886.5 -81.84% 7/10/2020 2,664.80 2,185.60 -479.2 -17.98% 7/11/2020 3,035.70 2,584.80 -450.9 -14.85% 7/12/2020 2,194.80 1,525.90 -668.9 -30.48% 7/13/2020 3,283.20 2,844.70 -438.5 -13.35% 7/14/2020 3,340.10 2,893.80 -446.3 -13.36% 7/15/2020 3,262.90 2,823.10 -439.9 -13.48% 7/16/2020 3,253.50 2,811.30 -442.3 -13.59% 7/17/2020 3,282.30 2,832.00 -450.3 -13.72% 7/18/2020 3,276.50 2,826.30 -450.2 -13.74% 7/19/2020 3,291.50 2,854.40 -437.1 -13.28% 7/20/2020 3,267.40 2,818.10 -449.3 -13.75% 7/21/2020 3,285.20 2,848.70 -436.5 -13.29% 7/22/2020 3,208.20 2,776.00 -432.2 -13.47%	7/6/2020	3,243.00	2,807.40	-435.7	-13.43%
7/9/2020 1,083.20 196.7 -886.5 -81.84% 7/10/2020 2,664.80 2,185.60 -479.2 -17.98% 7/11/2020 3,035.70 2,584.80 -450.9 -14.85% 7/12/2020 2,194.80 1,525.90 -668.9 -30.48% 7/13/2020 3,283.20 2,844.70 -438.5 -13.35% 7/14/2020 3,340.10 2,893.80 -446.3 -13.36% 7/15/2020 3,262.90 2,823.10 -439.9 -13.48% 7/16/2020 3,253.50 2,811.30 -442.3 -13.59% 7/17/2020 3,282.30 2,832.00 -450.3 -13.72% 7/18/2020 3,276.50 2,826.30 -450.2 -13.74% 7/20/2020 3,267.40 2,818.10 -449.3 -13.28% 7/21/2020 3,285.20 2,848.70 -436.5 -13.29% 7/22/2020 3,296.50 2,869.70 -426.7 -12.95% 7/23/2020 3,208.20 2,776.00 -432.2 -13.47% 7/24/2020 3,176.20 2,742.20 -434 -13.67%<	7/7/2020	2,955.20	2,512.00	-443.2	-15%
7/10/2020 2,664.80 2,185.60 -479.2 -17.98% 7/11/2020 3,035.70 2,584.80 -450.9 -14.85% 7/12/2020 2,194.80 1,525.90 -668.9 -30.48% 7/13/2020 3,283.20 2,844.70 -438.5 -13.35% 7/14/2020 3,340.10 2,893.80 -446.3 -13.36% 7/15/2020 3,262.90 2,823.10 -439.9 -13.48% 7/16/2020 3,253.50 2,811.30 -442.3 -13.59% 7/17/2020 3,282.30 2,832.00 -450.3 -13.72% 7/18/2020 3,276.50 2,826.30 -450.2 -13.74% 7/19/2020 3,291.50 2,854.40 -437.1 -13.28% 7/20/2020 3,267.40 2,818.10 -449.3 -13.75% 7/21/2020 3,285.20 2,848.70 -436.5 -13.29% 7/22/2020 3,296.50 2,869.70 -426.7 -12.95% 7/23/2020 3,208.20 2,776.00 -432.2 -13.47% 7/24/2020 3,176.20 2,742.20 -434 -13.	7/8/2020	3,142.70	2,699.20	-443.5	-14.11%
7/11/2020 3,035.70 2,584.80 -450.9 -14.85% 7/12/2020 2,194.80 1,525.90 -668.9 -30.48% 7/13/2020 3,283.20 2,844.70 -438.5 -13.35% 7/14/2020 3,340.10 2,893.80 -446.3 -13.36% 7/15/2020 3,262.90 2,823.10 -439.9 -13.48% 7/16/2020 3,253.50 2,811.30 -442.3 -13.59% 7/17/2020 3,282.30 2,832.00 -450.3 -13.72% 7/18/2020 3,276.50 2,826.30 -450.2 -13.74% 7/19/2020 3,291.50 2,854.40 -437.1 -13.28% 7/20/2020 3,267.40 2,818.10 -449.3 -13.75% 7/21/2020 3,285.20 2,848.70 -436.5 -13.29% 7/22/2020 3,296.50 2,869.70 -426.7 -12.95% 7/23/2020 3,208.20 2,776.00 -432.2 -13.47% 7/24/2020 3,176.20 2,742.20 -434 -13.67%	7/9/2020	1,083.20	196.7	-886.5	-81.84%
7/12/2020 2,194.80 1,525.90 -668.9 -30.48% 7/13/2020 3,283.20 2,844.70 -438.5 -13.35% 7/14/2020 3,340.10 2,893.80 -446.3 -13.36% 7/15/2020 3,262.90 2,823.10 -439.9 -13.48% 7/16/2020 3,253.50 2,811.30 -442.3 -13.59% 7/17/2020 3,282.30 2,832.00 -450.3 -13.72% 7/18/2020 3,276.50 2,826.30 -450.2 -13.74% 7/19/2020 3,291.50 2,854.40 -437.1 -13.28% 7/20/2020 3,267.40 2,818.10 -449.3 -13.75% 7/21/2020 3,285.20 2,848.70 -436.5 -13.29% 7/22/2020 3,296.50 2,869.70 -426.7 -12.95% 7/23/2020 3,208.20 2,776.00 -432.2 -13.47% 7/24/2020 3,176.20 2,742.20 -434 -13.67%	7/10/2020	2,664.80	2,185.60	-479.2	-17.98%
7/13/2020 3,283.20 2,844.70 -438.5 -13.35% 7/14/2020 3,340.10 2,893.80 -446.3 -13.36% 7/15/2020 3,262.90 2,823.10 -439.9 -13.48% 7/16/2020 3,253.50 2,811.30 -442.3 -13.59% 7/17/2020 3,282.30 2,832.00 -450.3 -13.72% 7/18/2020 3,276.50 2,826.30 -450.2 -13.74% 7/19/2020 3,291.50 2,854.40 -437.1 -13.28% 7/20/2020 3,267.40 2,818.10 -449.3 -13.75% 7/21/2020 3,285.20 2,848.70 -436.5 -13.29% 7/22/2020 3,296.50 2,869.70 -426.7 -12.95% 7/23/2020 3,208.20 2,776.00 -432.2 -13.47% 7/24/2020 3,176.20 2,742.20 -434 -13.67%	7/11/2020	3,035.70	2,584.80	-450.9	-14.85%
7/14/2020 3,340.10 2,893.80 -446.3 -13.36% 7/15/2020 3,262.90 2,823.10 -439.9 -13.48% 7/16/2020 3,253.50 2,811.30 -442.3 -13.59% 7/17/2020 3,282.30 2,832.00 -450.3 -13.72% 7/18/2020 3,276.50 2,826.30 -450.2 -13.74% 7/19/2020 3,291.50 2,854.40 -437.1 -13.28% 7/20/2020 3,267.40 2,818.10 -449.3 -13.75% 7/21/2020 3,285.20 2,848.70 -436.5 -13.29% 7/22/2020 3,296.50 2,869.70 -426.7 -12.95% 7/23/2020 3,208.20 2,776.00 -432.2 -13.47% 7/24/2020 3,176.20 2,742.20 -434 -13.67%	7/12/2020	2,194.80	1,525.90	-668.9	-30.48%
7/15/2020 3,262.90 2,823.10 -439.9 -13.48% 7/16/2020 3,253.50 2,811.30 -442.3 -13.59% 7/17/2020 3,282.30 2,832.00 -450.3 -13.72% 7/18/2020 3,276.50 2,826.30 -450.2 -13.74% 7/19/2020 3,291.50 2,854.40 -437.1 -13.28% 7/20/2020 3,267.40 2,818.10 -449.3 -13.75% 7/21/2020 3,285.20 2,848.70 -436.5 -13.29% 7/22/2020 3,296.50 2,869.70 -426.7 -12.95% 7/23/2020 3,208.20 2,776.00 -432.2 -13.47% 7/24/2020 3,176.20 2,742.20 -434 -13.67%	7/13/2020	3,283.20	2,844.70	-438.5	-13.35%
7/16/2020 3,253.50 2,811.30 -442.3 -13.59% 7/17/2020 3,282.30 2,832.00 -450.3 -13.72% 7/18/2020 3,276.50 2,826.30 -450.2 -13.74% 7/19/2020 3,291.50 2,854.40 -437.1 -13.28% 7/20/2020 3,267.40 2,818.10 -449.3 -13.75% 7/21/2020 3,285.20 2,848.70 -436.5 -13.29% 7/22/2020 3,296.50 2,869.70 -426.7 -12.95% 7/23/2020 3,208.20 2,776.00 -432.2 -13.47% 7/24/2020 3,176.20 2,742.20 -434 -13.67%	7/14/2020	3,340.10	2,893.80	-446.3	-13.36%
7/17/2020 3,282.30 2,832.00 -450.3 -13.72% 7/18/2020 3,276.50 2,826.30 -450.2 -13.74% 7/19/2020 3,291.50 2,854.40 -437.1 -13.28% 7/20/2020 3,267.40 2,818.10 -449.3 -13.75% 7/21/2020 3,285.20 2,848.70 -436.5 -13.29% 7/22/2020 3,296.50 2,869.70 -426.7 -12.95% 7/23/2020 3,208.20 2,776.00 -432.2 -13.47% 7/24/2020 3,176.20 2,742.20 -434 -13.67%	7/15/2020	3,262.90	2,823.10	-439.9	-13.48%
7/18/2020 3,276.50 2,826.30 -450.2 -13.74% 7/19/2020 3,291.50 2,854.40 -437.1 -13.28% 7/20/2020 3,267.40 2,818.10 -449.3 -13.75% 7/21/2020 3,285.20 2,848.70 -436.5 -13.29% 7/22/2020 3,296.50 2,869.70 -426.7 -12.95% 7/23/2020 3,208.20 2,776.00 -432.2 -13.47% 7/24/2020 3,176.20 2,742.20 -434 -13.67%	7/16/2020	3,253.50	2,811.30	-442.3	-13.59%
7/19/2020 3,291.50 2,854.40 -437.1 -13.28% 7/20/2020 3,267.40 2,818.10 -449.3 -13.75% 7/21/2020 3,285.20 2,848.70 -436.5 -13.29% 7/22/2020 3,296.50 2,869.70 -426.7 -12.95% 7/23/2020 3,208.20 2,776.00 -432.2 -13.47% 7/24/2020 3,176.20 2,742.20 -434 -13.67%	7/17/2020	3,282.30	2,832.00	-450.3	-13.72%
7/20/2020 3,267.40 2,818.10 -449.3 -13.75% 7/21/2020 3,285.20 2,848.70 -436.5 -13.29% 7/22/2020 3,296.50 2,869.70 -426.7 -12.95% 7/23/2020 3,208.20 2,776.00 -432.2 -13.47% 7/24/2020 3,176.20 2,742.20 -434 -13.67%	7/18/2020	3,276.50	2,826.30	-450.2	-13.74%
7/21/2020 3,285.20 2,848.70 -436.5 -13.29% 7/22/2020 3,296.50 2,869.70 -426.7 -12.95% 7/23/2020 3,208.20 2,776.00 -432.2 -13.47% 7/24/2020 3,176.20 2,742.20 -434 -13.67%	7/19/2020	3,291.50	2,854.40	-437.1	-13.28%
7/22/2020 3,296.50 2,869.70 -426.7 -12.95% 7/23/2020 3,208.20 2,776.00 -432.2 -13.47% 7/24/2020 3,176.20 2,742.20 -434 -13.67%	7/20/2020	3,267.40	2,818.10	-449.3	-13.75%
7/23/2020 3,208.20 2,776.00 -432.2 -13.47% 7/24/2020 3,176.20 2,742.20 -434 -13.67%	7/21/2020	3,285.20	2,848.70	-436.5	-13.29%
7/24/2020 3,176.20 2,742.20 -434 -13.67%	7/22/2020	3,296.50	2,869.70	-426.7	-12.95%
	7/23/2020	3,208.20	2,776.00	-432.2	-13.47%
7/25/2020 3,148.90 2,717.70 -431.1 -13.69%	7/24/2020	3,176.20	2,742.20	-434	-13.67%
	7/25/2020	3,148.90	2,717.70	-431.1	-13.69%

7/26/2020	3,153.50	2,726.90	-426.6	-13.53%
7/27/2020	3,146.60	2,711.80	-434.8	-13.82%
7/28/2020	3,140.90	2,724.80	-416.1	-13.25%
7/29/2020	2,999.00	2,515.30	-483.8	-16.13%
7/30/2020	2,492.20	1,965.40	-526.8	-21.14%
7/31/2020	2,669.10	2,235.80	-433.3	-16.23%
8/1/2020	2,563.40	2,031.60	-531.9	-20.75%
8/2/2020	3,032.70	2,530.40	-502.3	-16.56%
8/3/2020	2,201.70	1,712.60	-489.2	-22.22%
8/4/2020	2,607.30	1,939.40	-668	-25.62%
8/5/2020	3,168.70	2,667.20	-501.6	-15.83%
8/6/2020	2,831.40	2,337.50	-493.9	-17.44%
8/7/2020	2,451.50	1,954.90	-496.6	-20.26%
8/8/2020	3,354.10	2,761.70	-592.4	-17.66%
8/9/2020	3,388.90	2,885.20	-503.7	-14.86%
8/10/2020	3,398.90	2,891.70	-507.3	-14.92%
8/11/2020	2,743.10	2,056.20	-686.8	-25.04%
8/12/2020	3,174.90	2,563.10	-611.8	-19.27%
8/13/2020	3,479.50	2,978.10	-501.4	-14.41%
8/14/2020	3,478.60	2,983.50	-495	-14.23%
8/15/2020	3,390.80	2,861.50	-529.4	-15.61%
8/16/2020	3,450.40	2,940.80	-509.5	-14.77%
8/17/2020	3,391.50	2,883.70	-507.8	-14.97%
8/18/2020	3,451.30	2,944.70	-506.6	-14.68%
8/19/2020	3,250.50	2,703.90	-546.7	-16.82%
8/20/2020	3,363.00	2,862.40	-500.7	-14.89%
8/21/2020	3,358.90	2,725.10	-633.8	-18.87%
8/22/2020	3,380.70	2,650.80	-729.9	-21.59%
8/23/2020	3,517.80	2,556.90	-960.9	-27.32%
8/24/2020	3,530.40	3,025.10	-505.4	-14.31%
8/25/2020	3,557.60	3,053.90	-503.7	-14.16%
8/26/2020	3,552.80	3,048.60	-504.2	-14.19%
8/27/2020	3,219.60	2,602.20	-617.5	-19.18%
8/28/2020	3,550.10	3,044.80	-505.4	-14.24%
8/29/2020	3,586.40	3,062.00	-524.4	-14.62%
8/30/2020	3,564.00	3,044.70	-519.2	-14.57%
8/31/2020	3,518.70	3,009.20	-509.5	-14.48%
9/1/2020	3,008.60	2,444.40	-564.2	-18.75%
9/2/2020	3,303.20	2,820.30	-482.9	-14.62%
9/3/2020	3,558.50	3,145.70	-412.8	-11.60%
9/4/2020	3,471.80	3,057.20	-414.7	-11.94%
9/5/2020	3,512.80	3,096.10	-416.7	-11.86%
9/6/2020	3,514.40	3,097.10	-417.3	-11.87%
9/7/2020	2,793.70	2,187.30	-606.4	-21.71%
9/8/2020	2,250.70	1,464.50	-786.3	-34.93%
9/9/2020	3,448.90	2,910.70	-538.2	-15.60%
9/10/2020	2,990.00	2,344.50	-645.4	-21.59%

9/11/2020	3,141.50	3,013.50	-128	-4.07%
9/12/2020	3,470.60	3,450.90	-19.6	-0.57%
9/13/2020	3,324.30	3,293.50	-30.8	-0.93%

TOTAL LOSS IN MCF

(192,372)

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III
1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS

Action 16265

COMMENTS

Operator:			OGRID:		Action Type:
LUCID ARTESIA COMPANY	201 South Fourth Street	Artesia, NM88210	147831	16265	C-141

Created By	Comment	Comment Date
ceads	was originally tagged with NRM2019958440 RIVERSIDE 8" PIPELINE RELEASE	04/16/2021

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

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Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 16265

CONDITIONS OF APPROVAL

Operator:			OGRID:		Action Type:
LUCID ARTESIA COMPANY	201 South Fourth Street	Artesia, NM88210	147831	16265	C-141

OCD Reviewer	Condition
ceads	None