District I 1625 N French Dr, Hobbs, NM 88240 District II
1301 W Grand Avenue, Artesia, NM 88210 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

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office

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Pit, Closed-Loop System, Below-Grade Tank, or

	Proposed Alternative Method Permit or Closure Plan Application
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's roles, regulations or ordinances of the provided provided authority's roles, regulations or ordinances. Operator Huntington Energy, L.L.C. OGRID # 208706	 ☐ Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method ☐ Modification to an existing permit ☑ Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system,
Departor Huntington Energy, L.L.C. OGRID # 208706 Address 908 N.W. 71th St., Oklahoma City, OK 73116 Facility or well nameCanyon Largo Unit #491 API Number30-039-30054	Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
Operator Huntington Energy, LLC OGRID # 208706 Address' 908 N W 71 st St, Oklahoma City, OK 73116 Facility or well name	Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances
Facility or well nameCanyon Largo Unit #491 API Number30-039-30054	,
API Number 30-039-30054 OCD Permit Number U/L or Qtr/Qtr _ Lot D, NWNW _ Section _ 20 _ Township _ 25N _ Range _6W _ County Rio Arriba	Address: 908 N W 71st St., Oklahoma City, OK 73116
U/L or Qtr/Qtr Lot D, NWNW Section 20 Township 25N Range 6W County Rio Arriba Center of Proposed Design. Latitude 36 38958° N Longitude 107 49590° W NAD 1927 \$\ 1983\$ Surface Owner Federal State Private Tribal Trust or Indian Allotment 2 Pit: Subsection F or G of 19 15.17 11 NMAC Temporary Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type Thickness 40 mil LLDPE HDPE PVC Other String-Reinforced Liner Scams Welded Factory Other Volume 7000 bbl Dimensions L 140' x W 65' x D 10' 3. Closed-loop System: Subsection H of 19 15 17 11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type Thickness mil LLDPE HDPE PVC Other Liner Seams Welded Factory Other 4. Below-grade tank: Subsection 1 of 19 15 17 11 NMAC Volume. bbl Type of fluid. 7. Subsection Received tank: Subsection 1 of 19 15 17 11 NMAC Volume. Subsection I of 19 15 17 11 NMAC Volume. Subsection I of 19 15 17 11 NMAC Volume. Subsection I of 19 15 17 11 NMAC Volume. Subsection I of 19 15 17 11 NMAC Volume. Subsection I of 19 15 17 11 NMAC Volume. Subsection I of 19 15 17 11 NMAC Volume. Subsection I of 19 15 17 11 NMAC Volume. Subsection I of 19 15 17 11 NMAC Volume. Subsection I of 19 15 17 11 NMAC Volume. Subsection I of 19 15 17 11 NMAC Volume. Subsection I of 19 15 17 11 NMAC Volume. Subsection I of 19 15 17 11 NMAC Volume. Subsection I of 19 15 17 11 NMAC Volume. Obbl Type of fluid. Subsection I of 19 15 17 11 NMAC Volume. Obbl Type of fluid. Subsection I of 19 15 17 11 NMAC Volume. Obbl Type of fluid. Subsection I of 19 15 17 11 NMAC	Facility or well name Canyon Largo Unit #491
Center of Proposed Design. Latitude36 38958° N Longitude107 49590° W NAD	API Number 30-039-30054 OCD Permit Number
Center of Proposed Design. Latitude36 38958° N Longitude107 49590° W NAD	U/L or Qtr/Qtr Lot D, NWNW Section 20 Township 25N Range 6W County Rio Arriba
Surface Owner Federal State Private Tribal Trust or Indian Allotment Pit: Subsection F or G of 19 15.17 11 NMAC	Center of Proposed Design. Latitude 36 38958° N Longitude 107 49590° W NAD ☐1927 ☑ 1983
Temporary Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type Thickness 40 mil LLDPE HDPE PVC Other String-Reinforced Liner Seams Welded Factory Other Volume 7000 bbl Dimensions L 140' x W 65' x D 10' Closed-loop System: Subsection H of 19 15 17 11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type Thickness mil LLDPE HDPE PVC Other Liner Seams Welded Factory Other RECEIVED Soliton Below-grade tank: Subsection I of 19 15 17 11 NMAC Oll CONS. DIV. DIST. 3 Soliton Div. Dist. 3 Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other	Surface Owner Federal State Private Tribal Trust or Indian Allotment
Temporary Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type Thickness 40 mil LLDPE HDPE PVC Other String-Reinforced Liner Seams Welded Factory Other Volume 7000 bbl Dimensions L 140' x W 65' x D 10' Closed-loop System: Subsection H of 19 15 17 11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type Thickness mil LLDPE HDPE PVC Other Liner Seams Welded Factory Other RECEIVED Soliton Below-grade tank: Subsection I of 19 15 17 11 NMAC Oll CONS. DIV. DIST. 3 Soliton Div. Dist. 3 Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other	2
Permanent Emergency Cavitation P&A	☑ <u>Pit</u> : Subsection F or G of 19 15.17 11 NMAC
Lined Unlined Liner type Thickness 40 mil LLDPE HDPE PVC Other	Temporary Drilling Workover
String-Reinforced Liner Seams	☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A
Liner Seams Welded Factory Other	☐ Lined ☐ Unlined Liner type Thickness 40 mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
3.	String-Reinforced
Closed-loop System: Subsection H of 19 15 17 11 NMAC Type of Operation:	Liner Seams Welded Factory □ Other Volume 7000 bbl Dimensions L 140' x W 65' x D 10'
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type Thickness mil LLDPE HDPE PVC Other Liner Seams Welded Factory Other	
Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type Thickness mil LLDPE HDPE PVC Other Liner Seams Welded Factory Other	
Lined Unlined Liner type Thicknessmil	
Liner Seams Welded Factory Other RECEIVED 4. Below-grade tank: Subsection I of 19 15 17 11 NMAC Oil CONS. DIV. DIST. 3 Volume. bbl Type of fluid. Other Other Other Other Other Other Visible sidewalls and liner Visible sidewalls only Other	Drying Pad Above Ground Steel Tanks Haul-off Bins Other
Below-grade tank: Subsection I of 19 15 17 11 NMAC Volume	Lined Unlined Liner type Thicknessmil LLDPE HDPE PVC Other
Below-grade tank: Subsection I of 19 15 17 11 NMAC Volume	Liner Seams Welded Factory Other
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other	4 200 3
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other	Below-grade tank: Subsection 1 of 19 15 17 11 NMAC
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other	Volumebbl Type of fluid
□ Visible sidewalls and liner □ Visible sidewalls only □ Other □ Liner type: Thickness □ mil □ HDPE □ PVC □ Other □ Othe	Tank Construction material
Liner type: Thicknessmil HDPE PVC Other	Secondary containment with leak detection \(\) Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
Liner type: I micknessmil HDPE PVC Other	Visible sidewalls and liner Visible sidewalls only Uther
	Liner type: Tricknessmii

Alternative Method:

6	
Fen: Subsection D of 19 15 17 11 NMAC (Applies to permanent pits, témporary pits, and below-grade tanks)	
ik, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, it	hospital,
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate Please specify	
Nottings Subsection E of 10.15.17.11 NIMAC (Application and Application Conference of the Conference o	
Netting: Subsection E of 19 15 17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
Screen Netting Other	
Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19 15 17.11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
Signed in compliance with 19 15 3 103 NMAC	
9	
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required Please refer to 19.15 17 NMAC for guidance	
Please check a box if one or more of the following is requested, if not leave blank:	
Administrative approval(s) Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau of appropriate division district or the Santa Fe Environmental Bureau of appropriate division district or the Santa Fe Environmental Bureau of appropriate division district or the Santa Fe Environmental Bureau of appropriate division district or the Santa Fe Environmental Bureau of appropriate division district or the Santa Fe Environmental Bureau of appropriate division district or the Santa Fe Environmental Bureau of appropriate division district or the Santa Fe Environmental Bureau of appropriate division district or the Santa Fe Environmental Bureau of appropriate division district or the Santa Fe Environmental Bureau of appropriate division district or the Santa Fe Environmental Bureau of appropriate division district or the Santa Fe Environmental Bureau of appropriate division district or the Santa Fe Environmental Bureau of appropriate division district or the Santa Fe Environmental Bureau of appropriate division district or the Santa Fe Environmental Bureau of appropriate division district division district division district division district division district division division district division district division divis	office for
consideration of approval Exception(s) Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	
10	
Siting Criteria (regarding permitting): 19 15 17 10 NMAC	
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate the complex control of the co	
office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of ap	proval.
Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dryi above-grade tanks associated with a closed-loop system.	ng pads or
	☐ Yes ☐ No
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank - NM Office of the State Engineer - iWATERS database search; USGS, Data obtained from nearby wells	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	☐ Yes ☐ No
- Topographic map, Visual inspection (certification) of the proposed site	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application	☐ Yes ☐ No
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	□ NA
- Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	☐ Yes ☐ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (Applies to permanent pits)	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo, Satellite image	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock	☐ Yes ☐ No
watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search, Visual inspection (certification) of the proposed site	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	
adopted pursuant to NMSA 1978, Section 3-27-3, as amended	Yes No
- Written confirmation or verification from the municipality, Written approval obtained from the municipality	
Within 500 feet of a wetland	☐ Yes ☐ No
- US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site	
Within the area overlying a subsurface mine - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area	☐ Yes ☐ No
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society, Topographic map 	
Within a 100-year floodplain - FEMA map	☐ Yes ☐ No

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19 15 17 9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19 15 17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19 15 17 9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17.10 NMAC Design Plan - based upon the appropriate requirements of 19 15 17 12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC Previously Approved Design (attach copy of design) API Number or Permit Number
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17 9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19 15 17 9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19 15 17 10 NMAC Design Plan - based upon the appropriate requirements of 19 15 17 11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC
Previously Approved Design (attach copy of design) API Number
Previously Approved Operating and Maintenance Plan API Number(Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
13
Permanent Pits Permit Application Checklist: Subsection B of 19 15 17 9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19 15 17 9 NMAC String Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19 15 17 11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19 15 17 11 NMAC Leak Detection Design - based upon the appropriate requirements of 19 15 17 11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19 15 17 11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19 15 17 11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Erosion Control Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC
Proposed Closure: 19 15 17 13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Remoyal Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19 15 17 13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground St. Instructions: Please indentify the facility or facilities for the disposal of liquids, dr. facilities are required.		
Disposal Facility Name	Disposal Facility Permit Number	
Disposal Facility Name		
Will any of the proposed closed-loop system operations and associated activities occi ☐ Yes (If yes, please provide the information below) ☐ No		
Required for impacted areas which will not be used for future service and operations Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection	equirements of Subsection H of 19 15 17 13 NMAO of 19.15 17 13 NMAC	C
Siting Criteria (regarding on-site closure methods only): 19 15 17 10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the cl provided below. Requests regarding changes to certain siting criteria may require considered an exception which must be submitted to the Santa Fe Environmental I demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for	administrative approval from the appropriate dist Bureau office for consideration of approval. Justi	rict office or may be
Ground water is less than 50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS, Data of	obtained from nearby wells	☐ Yes ☑ No ☐ NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS, Data of	obtained from nearby wells	☐ Yes ☑ No☐ NA
Ground water is more than 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS, Data of	obtained from nearby wells	⊠ Yes □ No □ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signilake (measured from the ordinary high-water mark) - Topographic map, Visual inspection (certification) of the proposed site	ficant watercourse or lakebed, sınkhole, or playa	☐ Yes 🛭 No
Within 300 feet from a permanent residence, school, hospital, institution, or church in Visual inspection (certification) of the proposed site, Aerial photo, Satellite in		☐ Yes ☑ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less t watering purposes, or within 1000 horizontal feet of any other fresh water well or spring that less to NM Office of the State Engineer - iWATERS database, Visual inspection (co	ring, in existence at the time of initial application	☐ Yes ⊠ No
Within incorporated municipal boundaries or within a defined municipal fresh water adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality, Written approval	·	☐ Yes ⊠ No
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map; Topographic map, Visual	inspection (certification) of the proposed site	☐ Yes ☑ No
Within the area overlying a subsurface mine - Written confirmation or verification or map from the NM EMNRD-Mining a	and Mineral Division	☐ Yes ⊠ No
Within an unstable area - Engineering measures incorporated into the design; NM Bureau of Geology Society, Topographic map	& Mineral Resources; USGS, NM Geological	☐ Yes ☒ No
Within a 100-year floodplain - FEMA map		☐ Yes ⊠ No
On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Sizing Criteria Compliance Demonstrations - based upon the appropriate requirements of Sizing Criteria Compliance Demonstrations - based upon the appropriate requirements of Sizing Criteria Compliance Demonstrations - based upon the appropriate of a drying particle Construction/Design Plan of Temporary Pit (for in-place burial of a drying particle Protocols and Procedures - based upon the appropriate requirements of 19 15 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Sizing Disposal Facility Name and Permit Number (for liquids, drilling fluids and driving Soil Cover Design - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I	frements of 19 15 17 10 NMAC Subsection F of 19 15 17.13 NMAC propriate requirements of 19 15 17 11 NMAC d) - based upon the appropriate requirements of 19 17.13 NMAC prements of Subsection F of 19 15 17 13 NMAC pubsection F of 19 15.17 13 NMAC all cuttings or in case on-site closure standards cann of 19 15 17 13 NMAC of 19 15 17 13 NMAC	15 17 11 NMAC

Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief
Name (Print)Catherine Smith TitleRegulatory
Signature Date 7/27/09
e-mail addresscsmith@huntingtonenergy com Telephone405-840-9876
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 16/25/201
Title: Compliance Office OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection K of 19 15 17 13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.
Closure Completion Date:
22. Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain.
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.
Disposal Facility Name Disposal Facility Permit Number
Disposal Facility Name Disposal Facility Permit Number
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) No
Required for impacted areas which will not be used for future service and operations Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique
24
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.
Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure)
☐ Plot Plan (for on-site closures and temporary pits)
☐ Confirmation Sampling Analytical Results (if applicable) ☐ Waste Material Sampling Analytical Results (required for on-site closure)
☐ Disposal Facility Name and Permit Number
☐ Soil Backfilling and Cover Installation ☐ Re-vegetation Application Rates and Seeding Technique
Site Reclamation (Photo Documentation)
On-site Closure Location Latitude Longitude NAD 1927 1983
Operator Closure Certification:
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print) Title
Signature Date
e-mail address:

Cathy Smith

From:

Cathy Smith

Sent:

Monday, July 27, 2009 10 01 AM

To:

'brandon powell@state nm.us', 'mark_kelly@nm.blm gov'

Cc:

Alan McNally

Subject: CLU 491 - Notice of Pit Closure

Pit Closure Notification as per NMOCD pit rule

Canyon Largo Unit #491
API# 30-039-30054
Lease # NMSF 078882
NWNW Sec 20, T25N-R6W
Rio Arriba Co , NM
Rig Release 5/26/09

Please contact me if you need any additional information

Thank you!

Cathy Smith (405) 840-9876 ext. 129 (405) 840-2011 Fax



Huntington Energy, L.L.C. San Juan Basin-Canyon Largo Unit Closure Plan

In accordance with Rule 19 15 17 12 NMAC the following information describes the closure requirements of temporary pits on Huntington Energy, L.L.C. (HE) locations. This is HE's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of pit. Closure report will be filed on C-144 and include the following

- Details on Capping and Covering, where applicable
- Plot Plan (Pit Diagram)
- Inspection Reports
- Sampling Results
- C-105
- Copy of Deed Notice will be filed with County Clerk

General Plan

- 1. All free standing liquids will be removed at the start of the pit closure process from the pit and disposed of in a division-approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves. The facilities to be used for liquids will be IEI NM-010010B and IEI will be used for solids (#01001010B).
- 2 The preferred method of closure for all temporary pits will be on-site burial, assuming that all the criteria listed in sub-section (B) of 19.15 17 13 are met
- 3 The surface owner shall be notified of HE's closing of the temporary pit
- 4 Within 6 months of the rig off status occurring, HE will ensure that the temporary pits are closed, re-contoured and reseeded
- Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email, or verbally The notification of closure will include the following:
 - Operator's name
 - Location by Unit Letter, Section, Township, and Range, Well name and API number.
- 6. Liner of temporary pit shall be removed above "mud level" after stabilization. Removal of liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner. Care will be taken to remove all of the liner. All excessive liner will be disposed of at the San Juan County Landfill located on CR 3100.
- 7 Pit contents shall be mixed with non-waste containing earthen material in order to achieve the solidification process. The solidification process will be accomplished using a combination of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed as safe and stable. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents.
- 8 A five point composite sample will be taken of the pit using sampling tools and all samples tested per Subsection B of 19 15.17 13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19 15.17.13 i.e., dig and haul

Components	Test Method	Limit (mg/kg)		
Benzene	EPA SW-846 8021B or 8260B	02		
BTEX	EPA SW-846 8021B or 8260B	50		
TPH	EPA SW-846 418 1	2500		
GRO/DRO	EPA SW-846 8015M	<u>5</u> 00		
Chlorides	EPA 300 1	1000)500		

- 9. Upon completion of solidification and testing standards being passed, the pit area will be backfilled with compacted, non-waste containing earthen material. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater. If standard testing fails, HE will dig and haul all contents pursuant to 19 15 17 13 i.a. After doing so, confirmation sampling will be conducted to ensure a release has not occurred.
- 10 During the stabilization process, if the liner is ripped by equipment, the Aztec OCD office will be notified within 48 hours and the liner will be repaired if possible. If the liner can not be repaired, then all contents will be excavated and removed
- 11 Dig and Haul Material will be transported to IEI (Permit # 010010B)
- 12 Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Reshaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 13 Notification will be sent to the OCD when the reclaimed area is seeded
- 14. HE shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods BLM stipulated seed mixes will be used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (unimpacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeated seeding or planting will be continued until successful vegetative growth occurs.

Туре	Variety or Cultivator	PLS/A		
Western Wheatgrass	Arrıba	3 0		
Indian Ricegrass	Paloma or Rimrock	3.0		
Slender Wheatgrass	San Luis	20		
Crested Wheatgrass	Hy-crest	3.0		
Bottlebrush Squirreltail	Unknown	20		
Four-wing Saltbrush	Delar	0 25		

Species shall be planted in pounds of pure live seed per acre: Present Pure Live Seed (PLS) = Purity X Germination/100 Two lots of seed can be compared on the basis of PLS as follows:

Source No One (poor quality)

Purity

50 percent

Germination

40 percent

Percent PLS

20 percent

Percent PLS

21 b bulk seed required to make

1 lb PLS 1 lb PLS

15 The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial upon the abandonment of all the wells on the pad. The marker will be flush with the ground to allow access of the active well pad and for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel 12" square plate that indicates the onsite burial of the temporary pit. The plate will be easily removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the operator's information at the time all wells on the pad are abandoned. The operator's information will include the following. Operator Name, Lease Name, Well Name and Number, Unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location.

xSubmit 3 Copies To Appropriate District Office	State of N ergy, Minerals an		_	ı	Form C-10 May 27, 200	_		
1625 N French Dr , Hobbs, NM 88240				WELL API NO. 30-039-30054				
1301 W Grand Ave, Artesia, NM 88210 District III OIL CONSERVATION DIVISION 1220 South St. Francis Dr.				5. Indicate Type of Lease				
1000 Rio Brazos Rd, Aztec, NM 87410 District IV	Santa Fe,		*	6 State Oil & C	FEE S			
1220 S St Francis Dr, Santa Fe, NM 87505				SF 078882	2000 110.			
SUNDRY NOTI (DO NOT USE THIS FORM FOR PROPOS DIFFERENT RESERVOIR USE "APPLIC		EN OR PLU	JG BACK TO A	7. Lease Name Canyon Largo	or Unit Agreement Name Unit			
PROPOSALS) 1. Type of Well Oil Well	Gas Well 🛛 Other			8. Well Number	491			
2. Name of Operator				9. OGRID Num	ber			
Huntington Energy, L.L.C. 3. Address of Operator				208706 10. Pool name o	r Wildcat	-		
908 N W. 71st St., Oklahoma City	, OK 73116			Basin Dakota	1			
4. Well Location	C (C (A)	·	000 5 4 5 4	- Wilson Pro-				
Unit Letter_D : 1035 Section 20 Townshi	p 25N Range 6W	ine and NM		ewestine Rio Arriba Cour	ıtv			
Section 20 Townsin	11. Elevation (Show when			Ido Alliba Cou				
Pit or Below-grade Tank Application 🛛 or	6696' GL							
Pit type_Drilling_Depth to Groundwater		st fresh wa	ter well >500' Distanc	e from nearest surfa	ice water >100'			
			bls; Construction Mat					
12. Check A	ppropriate Box to Indi	icate Na	ature of Notice, F	Report or Other	r Data			
NOTICE OF IN' PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING	PLUG AND ABANDON CHANGE PLANS		SUBS REMEDIAL WORK COMMENCE DRIL CASING/CEMENT	LING OPNS.	EPORT OF: ALTERING CASING P AND A]		
_				_				
OTHER Drilling Pit 13 Describe proposed or compl of starting any proposed wo or recompletion	eted operations. (Clearly s rk). SEE RULE 1103. For	⊠ state all p r Multipl	OTHER. pertinent details, and e Completions: Atta	give pertinent da ach wellbore diag	tes, including estimated da ram of proposed completion	ate on		
Huntington Energy, L.L.C. p constructing and closing the								
					CVD MAR12'07 DIL CONS. DIV.			
					DIST. 3			
I hereby certify that the information a	above is true and complete	to the be	st of my knowledge	and belief. I furt	her certify that any pit or below	N -		
grade tank has been/will be constructed or	closed according to NMOCD gu	idelines 🛭], a general permit 🔲 o	r an (attached) alter	native OCD-approved plan 🔲	•		
SIGNATURE Atherne &	Smith .	TITLE	Land Associate	DATE	March 7, 2007			
Type or print name Catherine Smit For State Use Only	h E-mail address: cs	smith@h	untingtonenergy.com	n Telepho	ne No. (405) 840-9876			
APPROVED BY: Brunan 1	ZM TI	ITLE	ITY OIL & GAS INSP	ECTOR, DIST. 🚜	DATEMAR 1 2 2007	1		

Conditions of Approval (if any):

CLU 491

Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The subject well is not located in an unstable area. Visual inspection has been performed (see attached siting checklist): location is not within 300' of flowing watercourse or 200' from any other water course or lake bed; not within 300' of any permanent residence, school, institution, not within 500' of any private water well or spring. The topographic map confirms visual inspection of water course. FEMA Map confirms the location is not within a 100 year floodplain. The location is not over a mine and is not on the side of a hill, as indicated on the Mines, Mills and Quarries Map. iWaters search indicates the closest water is 1 6 miles. POD# SJ00681, STK Use, TD 80'. Huntington Energy CLU 491 reported the top of San Jose water sand at 909', as demonstrated on attached log.

New Mexico Office	of the State Engineer
POD Renarts	and Downloads

•	Township 25N Range 06W Sections
	NAD27 X Y , Zone Search Radius
	County Basin Suffix Suffix
	Owner Name (First) (Last) C Non-Domestic C Domestic C Al
	* POD / Surface Data Report Avg Depth to Water Report Water Column Report
	', Clear Form WATERS Menu Help

POD / SURFACE DATA REPORT 04/09/2009

					(quarters are	e 1=NW 2=NE 3=S	W 4=SE)				
	(acre	e ft per ann	(ותגור)		(quarters are	e biggest to sma	allest X Y as	re in Feet		UTM are	ın Meteri
DB File Nbr	Use	Diversion	Owner	POD Number	Source	Tws Rng Sec o		X	Y	UTM Zone	Easting
SJ 00201	OFM	4	BURLINGTON RESOURCES OIL & GAS	S SJ 00201	Arcesian		1 1			13	280124
SJ 00207	DFM	16	BURLINGTON RESOURCES OIL & GAS	S SJ 00207	Shallow		1 1			13	277738
SJ D0681	STF	8	HOMER C BERRY	SJ 00681		25N 06W 21 4				13	278527
SJ 006B1 1	STK	B	HOMER C BERRY	SJ 00681 1		25N 06W 31 1				13	274734
SJ 00681 12	IKK	200	HOMÉR C BERRY	SJ 00681 12		25N 06W 33 4				13	278833
SJ 00681 18	STK	16 13	HOMEP C BERPY	SJ 00681 18	·	25N 06W 21 4				13	278932
SJ 00681 19	STL	24 195	HOMEF C BERRY	SJ 00681 19		25N D6W 28 4				13	278887
SJ 00681 24	STK	3	HOMEF C BERRY	SJ 00681 24		25M 06W 11 3				13	281194
SJ 00681 31	5TK	32	HOMEP C BERRY	SJ 00681 31		25N D6F 21 4				13	278820
SJ 00681 33	STK	48	HOMER C BERRY	SJ 00681 33		25N 06W 27 3	-			13	279176
SJ 00885	DOM	24	TRUBY RANCH	SJ 00885 3		25N 06W 03 1				13	279636
_				SJ 00885 6		25N 06R 11 3	2 3			13	281194
				SJ 00885 7		25N 06W 03 4	1 4			13	280223

Record Count 13

110100

New Mexico Office of the State Engineer POD Reports and Downloads

Township 25N Range 06W Sections
NAD27 X Y Zone: Search Radius
County Basin Number Suffix
Owner Name (First) (Last) Non-Domestic Domestic All
POD / Surface Data Report Avg Depth to Water Report Water Column Report
Clear Form iWATERS Menu Help.

AVERAGE DEPTH OF WATER REPORT 04/09/2009

								(nebtu	water in	Feet)
Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Mın	Max	Avg
SJ	25N	06W	03				1	500	500	500
SJ	25N	06W	21				1	80	80	80

Record Count: 2

Tws

25N

25N

25N

Rng Sec q q q

4 1 4

06W 03

06W 21

06W 33

New Mexico Office of the State Engineer POD Reports and Downloads

gate water in the distingtion dependent and	Township 25N Range. 06W Sections.	
	NAD27 X Y Zone.	Search Radius
С	ounty: Basın:	Number Suffix:
Ov	vnei Name (First) (Last)	Non-Domestic Domestic All
9	POD / Surface Data Report Avg Depth to Wa	ter Report Water Column Report
	* Clear Form	Menu Help
	WATER COLUMN REPORT	04/09/2009
	(quarters are 1=NW 2=NE 3=SW 4=SE)	
	(quarters are biggest to smallest)	Depth Depth Water (in feet)

Х

Zone

Well

1346

435

Water

500

80

Column

846

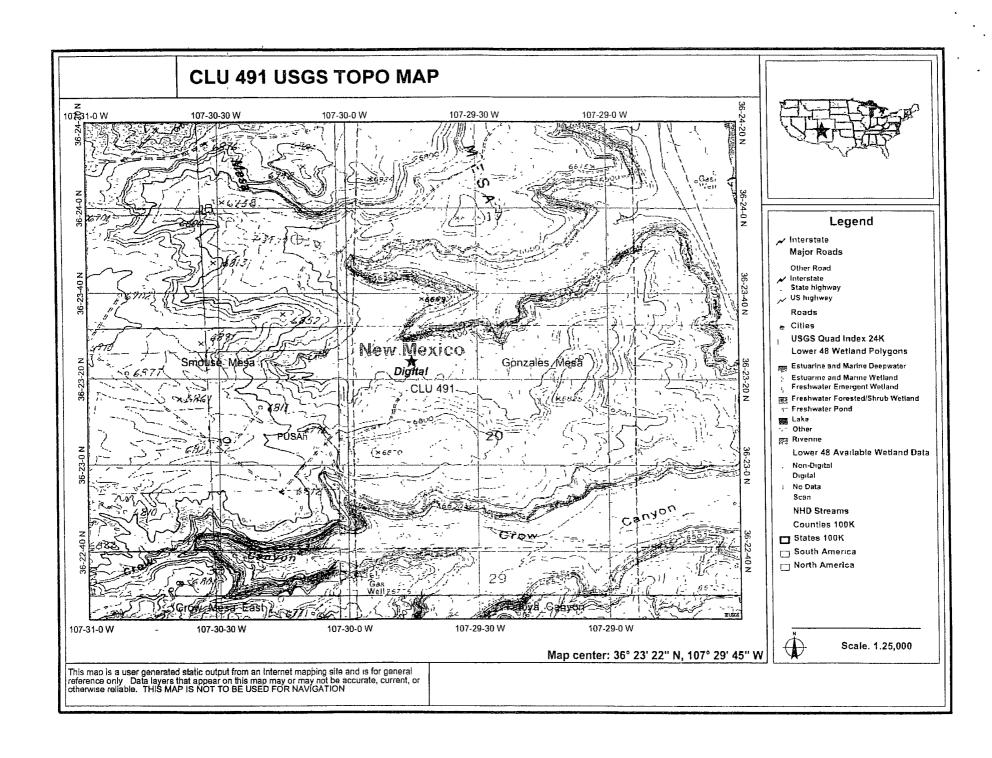
Record Count: 3

POD Number

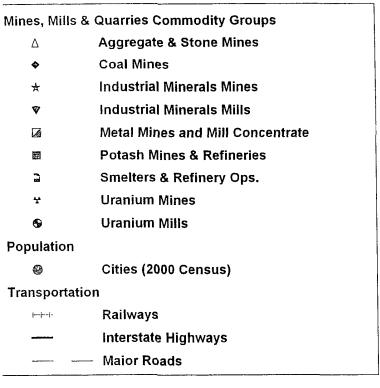
SJ 00681 12

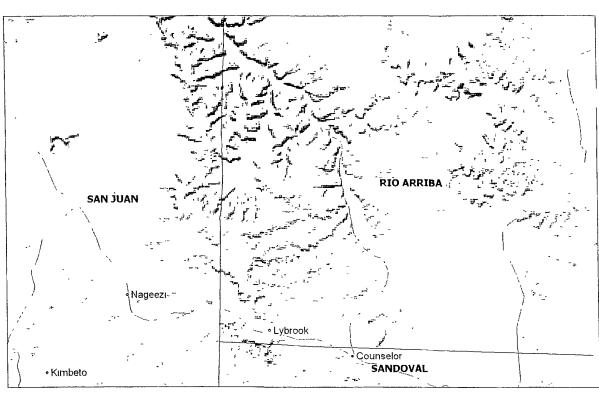
SJ 00201

SJ 00681



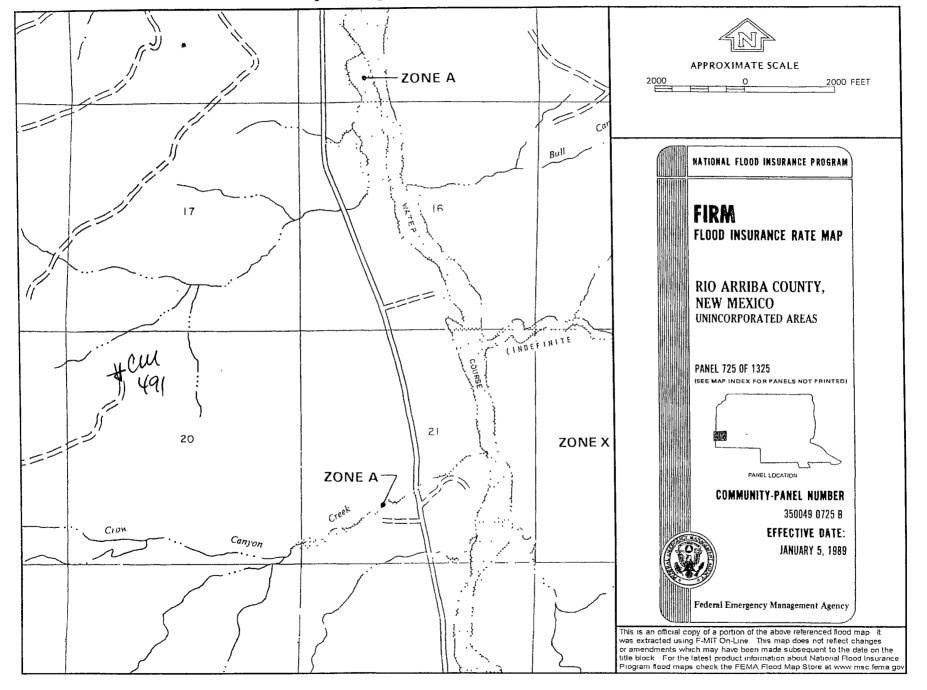
Canyon Largo Unit 491 Mines, Mills and Quarries Web Map











Hydrogeological Report for Canyon Largo Unit #491

Regional Hydrogeolocial Context:

The San Jose Formation of Eocene age occurs in New Mexico and Colorado, and its outcrop forms the land surface over much of the eastern half of the central basin. It overlies the Nacimiento Formation in the area generally south of the Colorado-New Mexico State line and overlies the Animas Formation in the area generally north of the State line.

The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbedded sequence of sandstone, siltstone, and variegated shale. Thickness of the San Jose Formation generally increases from west to east (200 feet in the west and south to almost 2,700 feet in the center of the structural basin). Ground water is associated with alluvial and fluvial sandstone aquifers. Thus, the occurrence of ground water is mainly controlled by the distribution of sandstone in the formation. The distribution of such sandstone is the result of original depositional extent plus any post-depositional modifications, namely erosion and structural deformation. Transmissivity data for San Jose Formation are minimal. Values of 40 and 120 feet squared per day were determined from two aquifer tests (Stone et al., 1983, table 5). The reported or measured discharge from 46 water wells completed in San Jose Formation ranges from 0.15 to 61 gallons per minute and the median is 5 gallons per minute. Most of the wells provide water for livestock and domestic use.

The San Jose Formation is a very suitable unit for recharge from precipitation because soils that form on the unit are sandy and highly permeable and therefore readily absorb precipitation. However, low annual precipitation, relatively high transpiration and evaporation rates, and deep dissection of the San Jose Formation by the San Juan River and its tributaries all tend to reduce the effective recharge to the unit.

Stone et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico: Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.

DESTRUCT I P.O. Box 1980, Hobbs, N.M. 88241-1980

State of New Mexico
Shergy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005 Instructions on back Submit to Appropriate District Office

DISTRICT II 1301 W. Grand Avenue, Artesia, N.M. 88210

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe. NM 87504-2088

State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III
1000 Rio Braxos Rd., Arisc, N.M. 87410

		Y	الم لللظ/	JCATION	UMA N	ACH	EAGE DEDIC				
'API	Number			*Pool Code				Pool Name			
			7159	9	Presi		isin Dakota,	<u> </u>	- 1	[ell Number	
*Property Co	×d•	*Property Name CANYON LARGO UNIT						491			
6886		*Operator								Devation	
208706		HUNTINGTON ENERGY, LLC							6696		
					10 Surí	ace :	Location				
L or lot no	Section	Township	Range	abl to.l	Feet from the		North/South line	Feet from the	East/Vest line	County	
D	20	25-N	6-W		1035		NORTH	980'	WEST	RIO ARR	
			" Bott	om Hole	Locati	on li	Different Fro	om Surface	•		
UL or lot no.	Section	Township	Range	lot ldn	Feet from	the	North/South line	Feet from the	Zast/Vest line	County	
Dedicated Acre	M.		" Joint or	lnfill	Consolid	ation C	oda	MOrder No.			
W/320											
2587.60' (W) 86		LAT: 3 LONG:	6.38958 107.4959		13.20 FT. LC'D COP B3) AD B3)			right to di contract t uniorati	the proposed bottom in the proposed bottom will thus used at this cities and at this cities are to a water of pooling order harvis	hair lacution or : location purposes is comment or t one agreement o	
FD 3 1/4" B.L.M. BC 1965		-		20 —			-	I hereby was piets me or an and corre	SURVEYOR Country that the well is not from field notes of ader may supervision, a set to the best of my	ERTIFICA' location shown on actual surveys s and that the survey	
						-		Signat		CO HOUSE	