District I 1625 N. French Dr , Hobbs, NM 88240 District II
1301 W Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 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.

١	~
1	$\sim L$
١	

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method 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, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
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.
Operator: Huntington Energy, L.L.C. OGRID #: 208706 Address: 908 N.W. 71 st St., Oklahoma City, OK 73116 Facility or well name: Canyon Largo Unit #489 API Number: 30-039-30039 OCD Permit Number: U/L or Qtr/Qtr G Section 18 Township 25N Range 6W County: Rio Arriba Co., NM
Center of Proposed Design: Latitude36.400031°N Longitude107.50575° W NAD: № 1927 □ 1983 Surface Owner: ☑ Federal □ State □ Private □ Tribal Trust or Indian Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC Temporary Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness 20 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
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume:
5. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hinstitution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify Alternate.	hospital,	
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		
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 consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for	
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 acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.		
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	☐ Yes ☐ No	
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). - Topographic map; Visual inspection (certification) of the proposed site	Yes No	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No ☐ NA	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No ☐ NA	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock 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	☐ Yes ☐ No	
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. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ 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 and Mineral Division	☐ Yes ☐ No	
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes No	
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 19.15.17.11 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: 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)
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 Siting 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 Cliner 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 Oll Field Waste Stream Characterization Monitoring and Inspection 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 Removal 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 Stee Instructions: Please indentify the facility or facilities for the disposal of liquids, drilli facilities are required.			
	posal Facility Permit Number:		
	posal Facility Permit Number:		
Will any of the proposed closed-loop system operations and associated activities occur of Yes (If yes, please provide the information below) \(\subseteq \text{No} \)	on or in areas that will not be used for future serv	vice and operations?	
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 of Site Reclamation Plan - based upon the appropriate requirements of Subsection C	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 closure provided below. Requests regarding changes to certain siting criteria may require ad considered an exception which must be submitted to the Santa Fe Environmental But demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for g	ministrative approval from the appropriate disti reau 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 obt	ained 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 obt	ained 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 obt	ained from nearby wells	☐ Yes ☐ No ☐ NA	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signific lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	ant watercourse or lakebed, sinkhole, or playa	Yes No	
Within 300 feet from a permanent residence, school, hospital, institution, or church in e - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		Yes No	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less tha watering purposes, or within 1000 horizontal feet of any other fresh water well or spring - NM Office of the State Engineer - iWATERS database; Visual inspection (certification)	g, in existence at the time of initial application.	☐ Yes ☐ No	
Within incorporated municipal boundaries or within a defined municipal fresh water we adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval ob-	•	☐ Yes ☐ No	
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual instance.	spection (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 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 following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC 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 Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC			

19. 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): Title:
Signature: Date:
e-mail address: Telephone:
20. OCD Approval: ☐ Permit Application (including closure plan)
OCD Representative Signature: Approval Date: 2/19/2011
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:5/1/09
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: Latitude36.40027 N Longitude107.50582 NAD: □1927 ☑ 1983
25. 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):Catherine Smith Title:Regulatory
Signature: Date: 5/15/09
e-mail address:csmith@huntingtonenergy.com Telephone:405-840-9876

Cathy Smith

From: Cathy Smith

Sent: Friday, May 15, 2009 2:52 PM

To: 'brandon.powell@state.nm.us'

Cc: Alan McNally Subject: CLU 489

Brandon,

Notice of Pit Closure for the Canyon Largo Unit #489, May 1, 2009.

CLU 489 API#: 30-039-30039 Lease #: NMSF 078882 SWNE Sec 18, T25N-R6W Rio Arriba Co., NM

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

×		



Client:	Huntington Energy	Project #:	06111-0002
Sample ID:	NW Corner	Date Reported:	03-10-09
Laboratory Number:	49185	Date Sampled:	03-04-09
Chain of Custody No:	6447	Date Received:	03-04-09
Sample Matrix:	Sludge	Date Extracted:	03-05-09
Preservative:	Cool	Date Analyzed:	03-06-09
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	31.3	0.2
Diesel Range (C10 - C28)	126	0.1
Total Petroleum Hydrocarbons	157	0.2

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Canyon Largo Unit #489.



Client:	Huntington Energy	Project #:	06111-0002
Sample ID:	SW Corner	Date Reported:	03-10-09
Laboratory Number:	49186	Date Sampled:	03-04-09
Chain of Custody No:	6447	Date Received:	03-04-09
Sample Matrix:	Sludge	Date Extracted:	03-05-09
Preservative:	Cool	Date Analyzed:	03-06-09
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	58.2	0.2
Diesel Range (C10 - C28)	157	0.1
Total Petroleum Hydrocarbons	185	0.2

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Canyon Largo Unit #489.

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com



Client:	Huntington Energy	Project #:	06111-0002
Sample ID:	SE Corner	Date Reported:	03-10-09
Laboratory Number:	49187	Date Sampled:	03-04-09
Chain of Custody No:	6447	Date Received:	03-04-09
Sample Matrix:	Soil	Date Extracted:	03-05-09
Preservative:	Cool	Date Analyzed:	03-06-09
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	125	0.2
Diesel Range (C10 - C28)	262	0.1
Total Petroleum Hydrocarbons	387	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments: Canyon Largo Unit #489.



Client:	Huntington Energy	Project #:	06111-0002
Sample ID:	NE Corner	Date Reported:	03-10-09
Laboratory Number:	49188	Date Sampled:	03-04-09
Chain of Custody No:	6447	Date Received:	03-04-09
Sample Matrix:	Sludge	Date Extracted:	03-05-09
Preservative:	Cool	Date Analyzed:	03-06-09
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	25.4	0.2
Diesel Range (C10 - C28)	51.3	0.1
Total Petroleum Hydrocarbons	76.7	0.2

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Canyon Largo Unit #489.

Analyst



Client:	Huntington Energy	Project #:	06111-0002
Sample ID:	Middle	Date Reported:	03-10-09
Laboratory Number:	49189	Date Sampled:	03-04-09
Chain of Custody No:	6447	Date Received:	03-04-09
Sample Matrix:	Sludge	Date Extracted:	03-05-09
Preservative:	Cool	Date Analyzed:	03-06-09
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	
Gasoline Range (C5 - C10)	57.1	0.2	
Diesel Range (C10 - C28)	157	0.1	
Total Petroleum Hydrocarbons	214	0.2	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments: Canyon Largo Unit #489.



Quality Assurance Report

Review Misting Walter

Client:	QA/QC	Project #:	N/A
Sample ID:	03-06-09 QA/QC	Date Reported:	03-10-09
Laboratory Number:	49136	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-06-09
Condition:	N/A	Analysis Requested:	TPH

	il-Cali Dalle	⊩CaliRE	ocentre.	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	1.0394E+003	1.0398E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0439E+003	1.0443E+003	0.04%	0 - 15%

Blank Cone (mg/L-mg/Kg)	Concentration	Detection Birdt
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicatescono (mg/kg)	Sample/ 12	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike-Conca(mg/Kg) as a second	- Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	248	99.2%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 49136 - 49139 and 49185 - 49190.

Analyst



Client:	Huntington Energy	Project #:	06111-0002
Sample ID:	NW Corner	Date Reported:	03-10-09
Laboratory Number:	49185	Date Sampled:	03-04-09
Chain of Custody:	6447	Date Received:	03-04-09
Sample Matrix:	Sludge	Date Analyzed:	03-06-09
Preservative:	Cool	Date Extracted:	03-05-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	3.5	0.9
Toluene	17.2	1.0
Ethylbenzene	12.8	1.0
p,m-Xylene	55.8	1.2
o-Xylene	35.1	0.9
Total BTEX	124	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Canyon Largo Unit #489.

Analyst



Client:	Huntington Energy	Project #:	06111-0002
Sample ID:	SW Corner	Date Reported:	03-10-09
Laboratory Number:	49186	Date Sampled:	03-04-09
Chain of Custody:	6447	Date Received:	03-04-09
Sample Matrix:	Sludge	Date Analyzed:	03-06-09
Preservative:	Cool	Date Extracted:	03-05-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	17.7	0.9	
Toluene	96.7	1.0	
Ethylbenzene	35.2	1.0	
p,m-Xylene	191	1.2	
o-Xylene	117	0.9	
Total BTEX	458		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Canyon Largo Unit #489.

Analyst



Client:	Huntington Energy	Project #:	06111-0002
Sample ID:	SE Corner	Date Reported:	03-10-09
Laboratory Number:	49187	Date Sampled:	03-04-09
Chain of Custody:	6447	Date Received:	03-04-09
Sample Matrix:	Soil	Date Analyzed:	03-06-09
Preservative:	Cool	Date Extracted:	03-05-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	13.4	0.9
Toluene	75.8	1.0
Ethylbenzene	35.4	1.0
p,m-Xylene	188	1.2
o-Xylene	201	0.9
Total BTEX	514	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Canyon Largo Unit #489.

Analyst



Client:	Huntington Energy	Project #:	06111-0002
Sample ID:	NE Corner	Date Reported:	03-10-09
Laboratory Number:	49188	Date Sampled:	03-04-09
Chain of Custody:	6447	Date Received:	03-04-09
Sample Matrix:	Sludge	Date Analyzed:	03-06-09
Preservative:	Cool	Date Extracted:	03-05-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	9.6	0.9
Toluene	106	1.0
Ethylbenzene	67.0	1.0
p,m-Xylene	700	1.2
o-Xylene	444	0.9
Total BTEX	1,330	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96.0 %
	1,4-difluorobenzene	96.0 %
	Bromochlorobenzene	96.0 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Canyon Largo Unit #489.

Analyst

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com



Client:	Huntington Energy	Project #:	06111-0002
Sample ID:	Middle	Date Reported:	03-10-09
Laboratory Number:	49189	Date Sampled:	03-04-09
Chain of Custody:	6447	Date Received:	03-04-09
Sample Matrix:	Sludge	Date Analyzed:	03-06-09
Preservative:	Cool	Date Extracted:	03-05-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	3.5	0.9	
Toluene	56.3	1.0	
Ethylbenzene	31.0	1.0	
p,m-Xylene	142	1.2	
o-Xylene	97.5	0.9	
Total BTEX	330		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Canyon Largo Unit #489.

Analyst

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com



46 - 148

32 - 160

46 - 148

46 - 148

Client:	N/A		Project #:		N/A
Sample ID:	03-06-BTEX QA/C)C	Date Reported:		03-10-09
Laboratory Number:	49136		Date Sampled:		N/A
Sample Matrix:	Soil		Date Received:		N/A
Preservative:	N/A		Date Analyzed:		03-06-09
Condition:	N/A		Analysis:		BTEX
Calibration and	I-Cal RF.	C-Cal RF	%Diff.	Blank	Detect:
Detection Limits (ug/L)		Accept Ran	ge 0 - 15%	Conc	2. Limit
3enzene	1.5251E+005	1.5281E+005	0.2%	ND	0.1
Toluene	1.3847E+005	1.3875E+005	0.2%	ND	0.1
Ethylbenzene	1.2076E+005	1.2100E+005	0.2%	ND	0.1
,m-Xylene	3.1934E+005	3.1998E+005	0.2%	ND	0.1
-Xylene	1.3739E+005	1.3767E+005	0.2%	ND	0.1
Duplicate Conc. (ug/Kg)	Sample	Duplicate :	%Diff+;	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
oluene	ND	ND	0.0%	0 - 30%	1.0
thylbenzene	ND	ND	0.0%	0 - 30%	1.0
,m-Xylene	ND	ND	0.0%	0 - 30%	1.2
-Xylene	ND	ND	0.0%	0 - 30%	0.9
	ydd o'r Malain yr di'rhyddiol y di yr yr yr y diol y y y y y y y y y y y y y y y y y y y	10°PO z 1°771 constituenten automobilet 8 utokon 10°PO	legge, blattic by results of the constitution	erright (1-14) define eas essent serve per 2 v v v v v v v v v v v v v v v v v v	NSWEROSPIECHOSPIECHO
		MOTOR THE PROPERTY OF THE PARTY OF THE PARTY.	printed including of the specifical ter-	AND THE PRODUCT OF THE PARTY OF	- authority and all to the case in a wind for the control of
pike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	%iRecovery	ili≟ Accept Range ≥

ND - Parameter not detected at the stated detection limit.

References:

Toluene

Ethylbenzene

p,m-Xylene

o-Xylene

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments:

QA/QC for Samples 49136 - 49139 and 49185 - 49190

ND

ND

ND

ND

50.0

50.0

100

50.0

49.8

50.0

98.0

50.0

99.6%

100%

98.0%

100%

Analyst

Client:	Huntington Energy	Project #:	06111-0002
Sample ID:	NW Corner	Date Reported:	03-10-09
Laboratory Number:	49185	Date Sampled:	03-04-09
Chain of Custody No:	6447	Date Received:	03-04-09
Sample Matrix:	Sludge	Date Extracted:	03-05-09
Preservative:	Cool	Date Analyzed:	03-05-09
Condition:	· Intact	Analysis Needed:	TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)
		,

Total Petroleum Hydrocarbons	402	5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Canyon Largo Unit #489.

Movua y

Review Wasters

Client:	Huntington Energy	Project #:	06111-0002
Sample ID:	SW Corner	Date Reported:	03-10-09
Laboratory Number:	49186	Date Sampled:	03-04-09
Chain of Custody No:	6447	Date Received:	03-04-09
Sample Matrix:	Sludge	Date Extracted:	03-05-09
Preservative:	Cool	Date Analyzed:	03-05-09
Condition:	Intact	Analysis Needed:	TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

198

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Canyon Largo Unit #489.

Manalyst Man

Mustum Walter

Client:	Huntington Energy	Project #:	06111-0002
Sample ID:	SE Corner	Date Reported:	03-10-09
Laboratory Number:	49187	Date Sampled:	03-04-09
Chain of Custody No:	6447	Date Received:	03-04-09
Sample Matrix:	Soil	Date Extracted:	03-05-09
Preservative:	Cool	Date Analyzed:	03-05-09
Condition:	Intact	Analysis Needed:	TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

348

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Canyon Largo Unit #489.

Client:	Huntington Energy	Project #:	06111-0002
Sample ID:	NE Corner	Date Reported:	03-10-09
Laboratory Number:	49188	Date Sampled:	03-04-09
Chain of Custody No:	6447	Date Received:	03-04-09
Sample Matrix:	Sludge	Date Extracted:	03-05-09
Preservative:	Cool	Date Analyzed:	03-05-09
Condition:	Intact	Analysis Needed:	TPH-418.1

,		Det.
1	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons 456 5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Canyon Largo Unit #489.

Analyst Drum J

Christian Weller Review

Client:	Huntington Energy	Project #:	06111-0002
Sample ID:	Middle	Date Reported:	03-10-09
Laboratory Number:	49189	Date Sampled:	03-04-09
Chain of Custody No:	6447	Date Received:	03-04-09
Sample Matrix:	Sludge	Date Extracted:	03-05-09
Preservative:	Cool	Date Analyzed:	03-05-09
Condition:	Intact	Analysis Needed:	TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

552

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Canyon Largo Unit #489.

Manalys Manaly

Christian Walter



EPA METHOD 418.1 TOTAL PETROLEUM HYROCARBONS QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	QA/QC	Date Reported:	03-06-09
Laboratory Number:	03-05-TPH.QA/QC 49179	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	03-05-09
Preservative:	N/A	Date Extracted:	03-05-09
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
	02-13-09	03-05-09	1.500	1.610	7.3%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	` ,	Detection Limit
TPH	ND		12.0

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
TPH	54.0	49.2	8.9%	+/- 30%

Spike Conc. (mg/Kg)	 Sample -	Spike Added	Spike Result	.% Recovery	Accept Range
TPH	54.0	2,000	1,680	81.8%	80 - 120%

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments: QA/QC for Samples 49179, 49184 - 49189, 49191, 49222, and 49223.

Marin JO

Mustum Walter Review



Client: **Huntington Energy** Project #: 06111-0002 **NW Corner** Sample ID: Date Reported: 03-10-09 Lab ID#: 49185 Date Sampled: 03-04-09 Sample Matrix: Sludge Date Received: 03-04-09 Preservative: Cool Date Analyzed: 03-05-09 Condition: Intact Chain of Custody: 6447

Parameter

Concentration (mg/Kg)

Total Chloride

360

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

Canyon Largo Unit #489.

Anaiyst Mun M

Review Colt



Client: **Huntington Energy** Project #: 06111-0002 Sample ID: SW Corner Date Reported: 03-10-09 Lab ID#: 49186 Date Sampled: 03-04-09 Sample Matrix: Sludge Date Received: 03-04-09 Preservative: Cool Date Analyzed: 03-05-09 Condition: Intact Chain of Custody: 6447

Parameter

Concentration (mg/Kg)

Total Chloride

340

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

Canyon Largo Unit #489.

Analyst Muss &

Mostly much ten



Client: **Huntington Energy** Project #: 06111-0002 Sample ID: SE Corner Date Reported: 03-10-09 Lab ID#: 49187 Date Sampled: 03-04-09 Sample Matrix: Soil Date Received: 03-04-09 Preservative: Cool Date Analyzed: 03-05-09 Condition: Intact Chain of Custody: 6447

Parameter Concentration (mg/Kg)

Total Chloride

100

Reference:

 $\hbox{U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.}\\$

Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

Canyon Largo Unit #489.

Monen J

Mustum Walless
Review



Client:	Huntington Energy	Project #:	06111-0002
Sample ID:	NE Corner	Date Reported:	03-10-09
Lab ID#:	49188	Date Sampled:	03-04-09
Sample Matrix:	Sludge	Date Received:	03-04-09
Preservative:	Cool	Date Analyzed:	03-05-09
Condition:	Intact	Chain of Custody:	6447

Parameter Concentration (mg/Kg)

Total Chloride

440

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.

Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Canyon Largo Unit #489.

Monue De Analyst

Mustur Weeters
Review



Client:	Huntington Energy	Project #:	06111-0002
Sample ID:	Middle	Date Reported:	03 -1 0-09
Lab ID#:	49189	Date Sampled:	03-04-09
Sample Matrix:	Sludge	Date Received:	03-04-09
Preservative:	Cool	Date Analyzed:	03-05-09
Condition:	Intact	Chain of Custody:	6447

Parameter

Concentration (mg/Kg)

Total Chloride

400

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.

Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

Canyon Largo Unit #489.

Anatyst Jonne D

Review Westers

CHAIN OF CUSTODY RECORD

Client:			Project Name /	Location	າ:		,,	_						ANAL'	YSIS	/ PAR	AME	TERS	_				
Flustington	Energ	4	CANTON Sampler Name:	LAK	Go Uly	KT #	42	79						.,,,,,									
Clieni Addrės:	J/		Sampler Name:	Ede	die K	No./Volume of Containers			2)	(12)	ĝ												
			Kowe A	etrol	leum s	Teruic	وسعة	5	88	BTEX (Method 8021)	VOC (Method 8260)	ड	_		_ ا								
Client Phone No.:		1	Olletti NO						Dg.	i Š	pod (Aeta	nioir		∑		£.	Ж		Ì		000	ntac
(505) 320.			06111	-00	200				Met	S S	Met	RCRA 8 Metals	Cation / Anion		TCLP with H/P		TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Sample No./	Sample	Sampl	Lab No.	1	Sample	No./Volume of	Prese	rvative	표	<u> </u> <u>E</u>	o o	CH/C	ation	2	님	PAH	표	물				am	am
Identification	Date	Time	 		Matrix	Containers	Наст н	CI SEC	F	100	>	T.	O	R	F	<u> </u>	<u> </u>	O				တ	S
NW Green	3/4	132	1 49185		Sludge Aqueous	(1) 4 =		سا	1								<u>س</u>	<u> </u>					
5'w Corner	3/4	1310		Solid	Sludge Aqueous	1102		سا	J								~	<u>ب</u>				سا	· -
iE amer	3/4	132	49187	Solid Solid	Sludge Aqueous	1102		سا	V	-							V	1			[سد	
NE Corner	3/4	1317	49138	Solid	Sludge Aqueous	(1) or 2		L	سخاسسا	ーレ							V	1	\			V	
TE Corner NE Corner Middle	3/4	1318	49189	Solid Solid	Sludge Aqueous	1102		L	عطسسا	1							V	V				1	_
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous																		
				Soil	Sludge		\vdash	+															
			_	Solid	Aqueous																		
				Soil Solid	Sludge Aqueous																		
		~ -		Soil Solid	Sludge Aqueous																		
Relinquished by: (Sign:	ature)				Data	Time	Re	cewe	d by:	(Signa	ature)									Da	ate	Tir	ne
			Eddie	Hour	3/4	162	1	N	1			. ,	~	~						3/4	,	16	24
Relinquished by: (Signa	ature)				7-/-	-	' I '	ceive	d by:	(Signa	ature)									1			
								1															
Relinquished by: (Signature)	ature)					-	Re	ceive	d by:	(Signa	ature))	•										
															_		_					<u> </u>	
					ENV	ROI	rF(Ch	_	n	5 504												
) <u> </u>	1 2														
			5796 U	S. High	nway 64 •	Farming	ton,	NM :	8740)1 •	Tel	505-	632-	0615	•								

RECEPTED

UINI FED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO 1004-0137 Expires July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AM BURGLand Managemen Lease Serial No Farmington Field Office NMSF 078882 _ Dry ✓ Gas Well 6 If Indian, Allottee or Tribe Name la Type of Well Oil Well Other New Well Work Over Deepen Plug Back Diff Resvr, b Type of Completion Unit or CA Agreement Name and No Canyon Largo Unit Report to lease 2 Name of Operator Huntington Energy, L.L.C. 8 Lease Name and Well No Canyon Largo Unit #489 9 AFI Well No 3 Address 908 N W 71st St 3a Phone No (include area code) Okiahoma City, OK 73116 (405) 840-9876 30-039-30039 - OOSI 10 Field and Pool or Exploratory 4 Location of Well (Report location clearly and in accordance with Federal regumements)* Basın Dakota Lot G, 2280' FNL & 1920' FEL Sec, T, R, M, on Block and At surface Sec 18-25N-6W Survey or Area Sec 18-25N-6W At top prod interval reported below nterval reported below 1918 Lot O, \$60 FSL & 1980 FEL, Sec 18-25N-6W 12 County or Parish 13 State Rio Arriba NM At total depth 14 Date Spudded 15 Date T D Reached 16 Date Completed 03/11/2009 17. Elevations (DF, RKB, RT, GL)* 01/13/2009 01/29/2009 D&A Ready to Prod. 6725' GR 7914' Float Collar 20 Depth Bridge Plug Set 18 Total Depth 19 Plug Back T D MD MD MD7945 TVD TVD TVD Was well cored? ✓ No Yes (Submit analysis) 21. Type Electric & Other Mechanical Logs Run (Submit copy of each) Yes (Submit report) Was DST run? **☑** No RST/CBL/GR/CCL Directional Survey? No Yes (Submit copy) 23. Casing and Liner Record (Report all strings set in well) No of Sks & Stage Cementer Slurry Vol Hole Size Size/Grade Wt (#/ft) Top (MD) Bottom (MD) Cement Top* Amount Pulled Type of Cement (BBL) Depth 12 1/4" 9 5/8" **3-55** 36# Surface 341' KB 275 sx 58 bbls Cır 20 bbls < 7 7/8" 11.6# 7933 975 sx 335 bbls 4 1/2" N-80 Surface Lead 600 sx 153 bbls Tail Cır 3 bbls Tubing Record Depth Set (MD) Packer Depth (MD) Depth Set (MD) Depth Set (MD) Packer Depth (MD) Size Size Packer Depth (MD) Size Perforation Record 25 Producing Intervals Bottom Formation Perforated Interval Size No Holes Perf Status A) Dakota 7514 7831 0.41" 7721'-7732' 44 Active B) C) D) 27 Acid, Fracture, Treatment, Cement Squeeze, etc Depth Interval Amount and Type of Material 7721'-7732' 22,816 GALS WAS 17 CP 70 Q DELTA 200 FRAC FLUID CONTAINING 35100# OF 20/40 CRC SAND 7721'-7732' ACIDIZED W/588 GALS 15% HCL 28 Production - Interval A Date First Test Date Hours Test Water Oil Gravity Production Method MCF BBL Согт. АРІ Produced Tested Production BBL Gravity Flowing through casing / ٥ 500 32 3/11/09 8 Choke 24 Нг Oil Water Gas/Oil Well Status Tbg Press Csg Gas Press. Rate BBL MCF BBL Ratio Size Flwg Producina 60 32/64 0 0 1000 28a Production - Interval B Date First Hours Oil Gravity Test Date Test Oil Water Gas Production Method Gas BBL MCF Produced Tested Production IBBT. Согг АРІ Gravity Choke Water Gas/Oil Well Status Thg Press Csg. 24 Hr. Oil Gas Size BBL MCF BBL Ratio Rate Flwg Press 12 _ ACCEPTED FOR RECORD

*(See instructions and spaces for additional data on page 2)

FARMED OF FELD OF FIRE BY TE SALVETS

∠8b Prod	uction - Inte			,					1_	L	
Date First	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gri Corr A		Gas Gravity	Production Method	
Choke Size	Fbg. Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oi Ratio	1	Well Status	-	
	uction - Inte								·		
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gra Cori A		Gas Gravity	Production Method	
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oi Ratio	1	Well Status		
29 Dispos To be Sold	sition of Gas	L S (Solid, us	ed for fuel, ve.	nted, etc)	<u>l</u>	.1	<u> </u>				
30 Summ	ary of Poro	us Zones ((Include Aqui	fers)					31. Formatio	on (Log) Markers	
Show a	ill important ng depth int	zones of p	oorosity and co	ontents ther	eof Cored into open, flowing	ervals and all d and shut-in pr	irīll-stem essures a	tests, nd			
		_									Тор
Formation Top Bottom					Descrip	otions, Content	ts, etc			Name	Meas Depth
Dakota		7514'	7831'	Sand &	Shale, gas bearı	ng			Picture Cliffs Chacra		3195' 4046'
		1							Mesaverde Menefee	. •	4745' 4838'
									Point Lookout Mancos		5473° 5684′
									Greenhorn Graneros		7405' 7472'
									Dakota Morrison		751 4 ' 7831'
32 Addıtı	onal remark	s (include	plugging proc	edure)							
**Will set	tubing wit	thin 90 da	ays A Sunda	ry will be t	iled at that ti	me. /					
				`							
33. Indica	te which ite	ms have be	en attached by	placing a	check in the ap	propriate boxe	s:				
_		-	(1 full set req'd	•		ologic Report		DST Repor	t	☑ Directional Survey	
									ll available rec	cords (see attached instructions)*	
			therine Smit		iation is compi			and Associ		Sores (see attached man actions).	
	gnature	(a) he	ine S	m HC	/	_	_	3/11/2009			
Title 18 U. false, fictit	S.C Section lous or frau	n 1001 and dulent state	Title 43 U.S.6 ements or repre	C. Section : esentations	1212, make it a as to any matte	crime for any per within its jur	person kr risdiction	nowingly and	l willfully to n	nake to any department or agency	of the United States any

(Continued on page 3) (Form 3160-4, page 2)

DISTRICT | P.O. Box 1980, Robbs, N.M. 88247-1980 State of New Mexico Energy, 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

1000 No brazos Rd, Azles, N M 67410 DISTRICT IV

1220 South St Francis Dr., Santa Fe, NM 87505

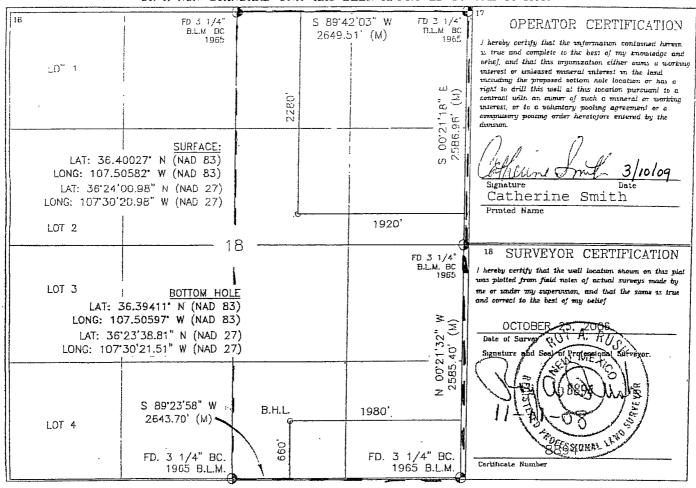
"AS DRILLED"

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	Pl Number 'Pool Code 'Pool Name 9-30039 71599 Basin Dakota										
*Property U	*Property Code *Property Name										
32660					489						
OGIUD N	,			"Elevation							
20870	06	HUNTINGTON ENERGY, LLC 6725'									
					¹⁰ Surface	Location					
UL or iol no.	Section	Township	Runge	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
G	18	25-N	$E\!-\!W$		2280	NORTH	1920	EAST	RIO ARRIBA		
			11 Botte	om Hole	Location I	Different Fro	om Surface				
UL or lot no	Section	Township	kange	Lot ldn	Feet from the	North/South hae	Foel from the	, East/West line	County		
С	18	25-N	6-W		100672	SOUTH	-F980 19/8	EAST	RIC ARRIBA		
" Dedicated Acre	5		12 joint or	lnfil)	*Consolidation C		¹⁵ Order No.	Order No.			
E/2 -	320										

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



HUNTINGTON ENERGY LLC
CANYON LARGO UNIT NO. 489, 2280 FNL 1920 FEL
SEC. 18, T-25-N, R-6-W, N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 6725, DATE: OCTOBER 25, 2006

CENTER OF PIT

NAD 83

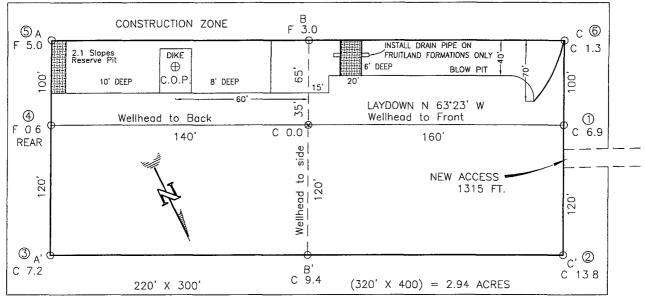
LAT. = 36.400031* N

LONG. = 107.50575* W

NAD 27

LAT. = 36*24'00.07237" N

LONG. = 107'30'18.51608" W



RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE)
BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT

NOTE:

DAGGETT ENTERPRISES, INC IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION. C/L ELEV A-A 6740 6730 6720 6710 C/L ELEV. B-B' 6740 6730 Surveying and Oil Field Services P 0. Box 510 - Farmington, NM 87499 Phane (505) 326–1772 - Fox (505) 326–6019 NEW MEXICO L.S. No. 8894 6720 6710 C/L ELEV. C-C' CADFILE DATE 6740 6730 6720 6710

NOTE: CONTRACTOR SHOULD CALL ONE—CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLESON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

Huntington Energy, L.L.C. Canyon Largo Unit #489 Sec 18,, T25N-R6W Rio Arriba Co., NM

Soil Backfilling and Cover Installation

Upon completion of solidification and testing standards being passed (see attached test results) a minimum of 4 ft of cover is achieved including a suitable layer of material to establish vegetation at the site. All re-contouring of location will match fit shape, line, and texture of the surrounding area.

Re-Vegetation and Seeding Technique

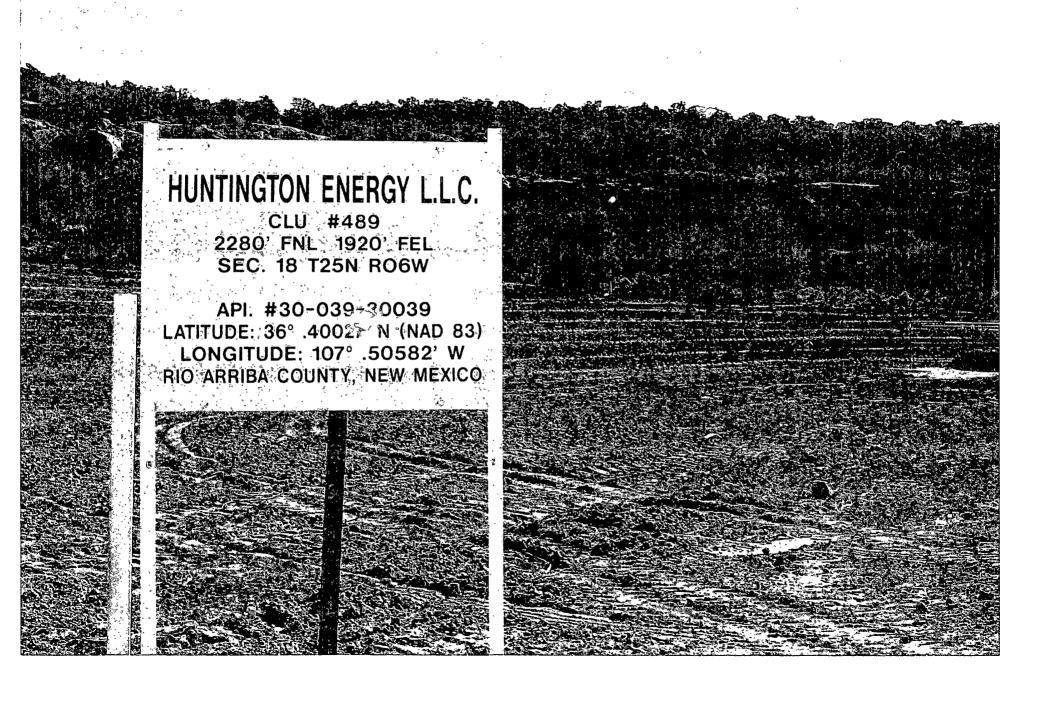
Seeding shall commence on or about April 1st, or the first available growing season barring weather. BLM stipulated seed mixes will be used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover consisting of at least three native plant species, including at least one grass, and maintain that cover through two successive growing seasons. Repeated seeding or planting will be continued until successful growth occurs.

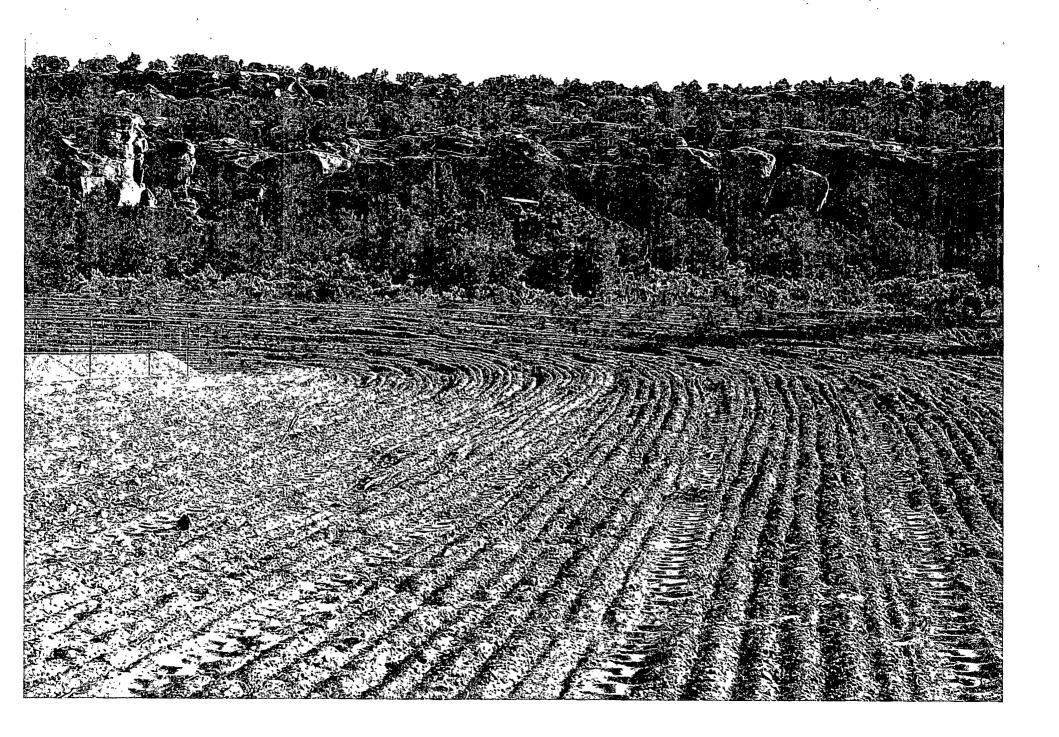
Temporary Pit Marker

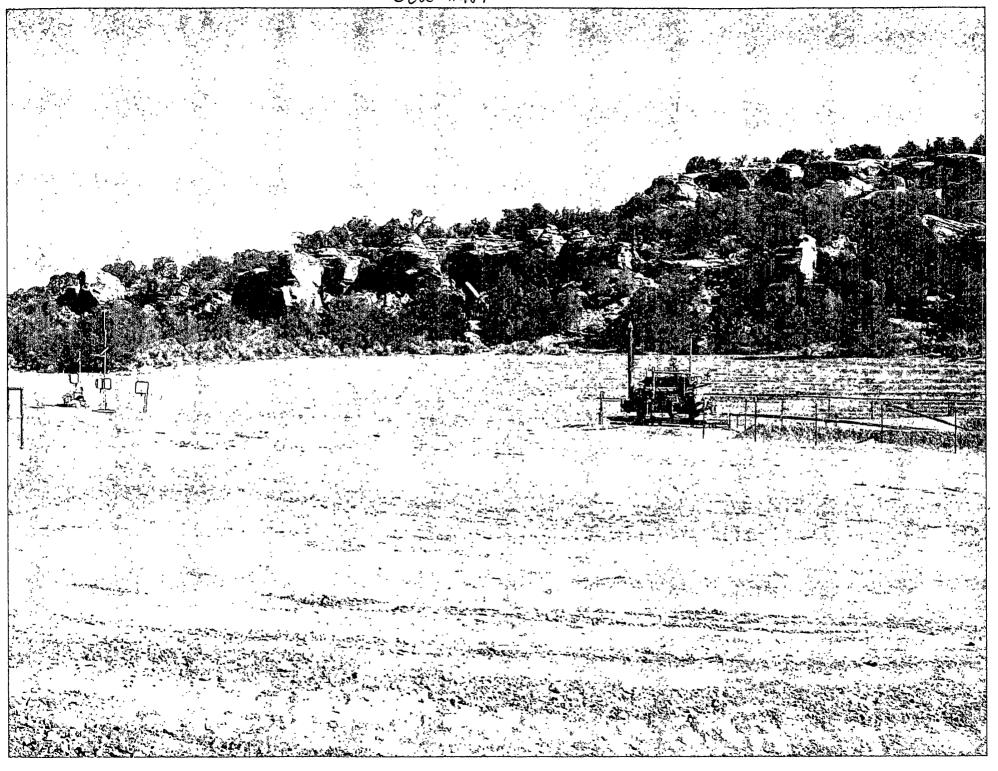
A steel marker will be placed at the center of the on-site burial. The steel marker will not be less than 4" in diameter and be cemented in a 3' hole. Marker shall extend 4' above ground level. Engraved into the marker will be the operator's name, and legal location. This marker shall not be removed. Note: during active operations, a ground level marker will be employed due to safety concerns; upon abandonment, the 4" x 4' marker will be employed.

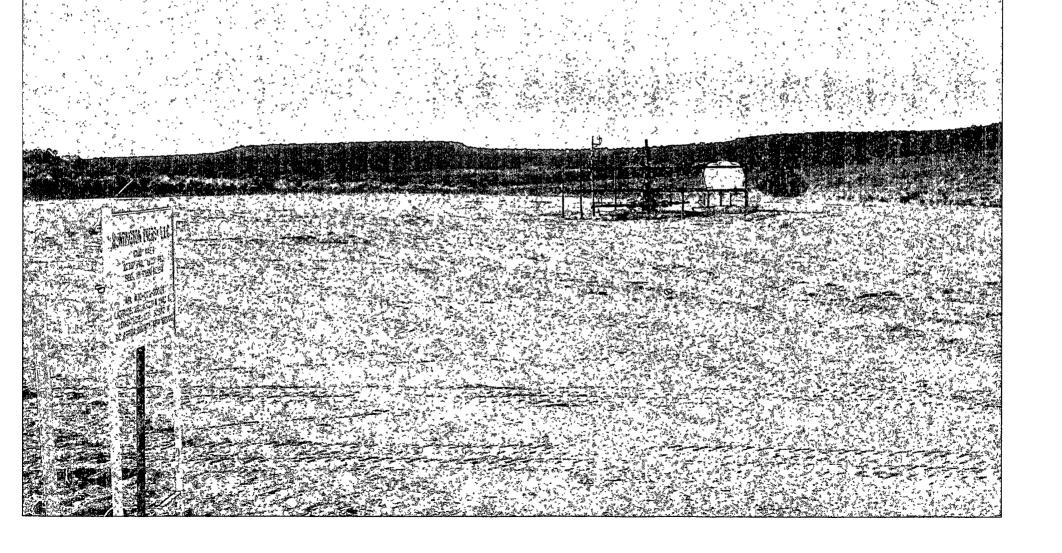
Disposal Facility

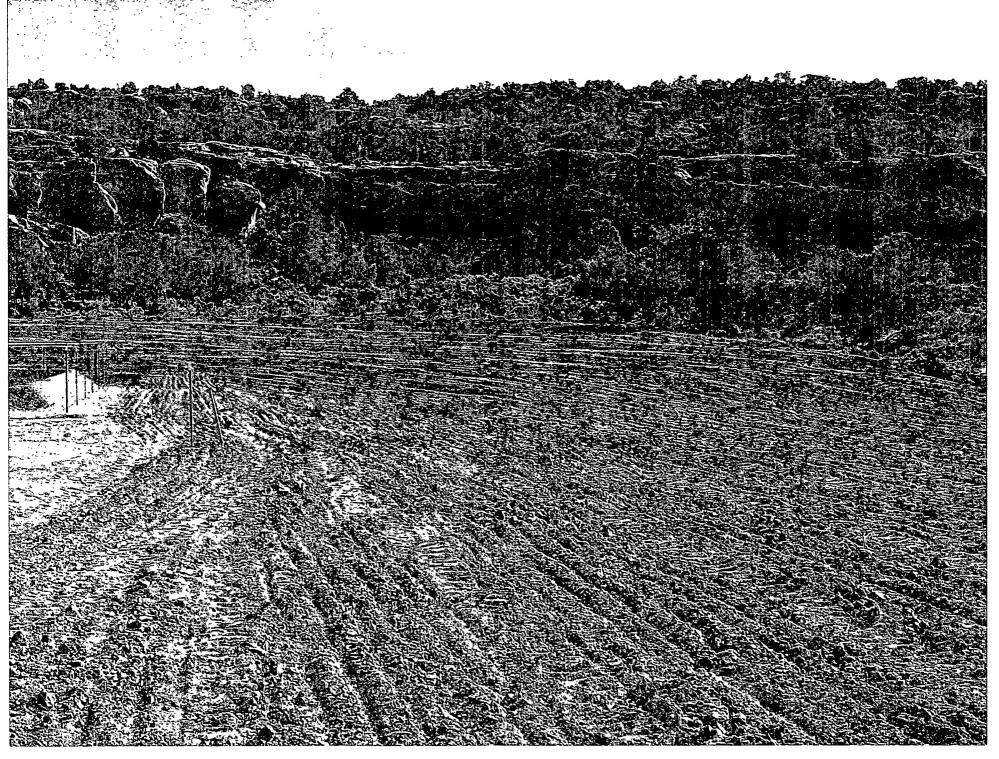
Facility Name: IEI Permit #: NM-010010B













																	-	
Submit To Appropr Two Copies		ct Off	fice	`	State of New Mexico											rm C-105		
District). 1625 N. French Dr., Hobbs, NM 88240				Energy, Minerals and Natural Resources					July 17, 2008									
District II											1. WELL API NO. 30-039-30039							
1301 W Grand Avenue, Artesia, NM 88210 District III							Conservat						2. Type of Le					
1000 Rio Brazos Rd , Aztec, NM 87410 District IV					1220 South St. Francis Dr.						☐ STATE ☐ FEE ☒ FED/INDIAN							
1220 S St Francis Dr , Santa Fe, NM 87505					Santa Fe, NM 87505						3. State Oil & Gas Lease No.							
		LE	TION C	R R	ECO	MPL	ETION RE	POF	RT A	NE	LOG		100	~~~				
4 Reason for fill	ing:										Lease Name or Unit Agreement Name Canyon Largo Unit							
☐ COMPLET	ION REI	POR	T (Fill in b	oxes#	xes #1 through #31 for State and Fee wells only)						6 Well Number:							
⊠ C-144 CLOS	SUDE AT	ГТА	CHMENT	' Æill	(Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or						489							
#33; attach this a	nd the pla											01	403					
7. Type of Comp		¬ w	ODKOVE	рΠ	DEEDE	NING	□PLUGBAC	∠ 🗆 ı	VIEEE	DEN	NT DECEDA	מוח׳	о Потнер					
8. Name of Opera			OKKOVE	ΚЦ	DEEFE	ININO	LIFLOGBACI	<u>, </u>	JIFFE	KE	NI KESEKY	Oir	9. OGRID					
Huntington Energ		; <u>,</u>											208706		I'1 J4			
10 Address of O	perator												11. Pool name	or w	/ildcat			
12.Location	Unit Ltr	-	Section		Towns	hip	Range	Lot			Feet from the	he	N/S Line	Fee	t from th	e E/W	Line	County
Surface:					·													
вн:																		
13. Date Spudded	1 14. D	ate T	D. Reach	ed			Released			16.	Date Compl	eted	(Ready to Prod	uce)			7. Elevations (DF and RKB,	
10 T-111	1.0	- CU	7_11		1/30/		1. M	. 41.		20	W Di		1 C M - 4-9			RT, GR,		han Laga Dun
18. Total Measur	ed Depth	of W	veli		19. P	iug Bac	k Measured Dep	otn		20.	was Directi	iona	d Survey Made?		21. 13	pe Electi	ric and Ot	her Logs Run
22. Producing Int	terval(s),	of th	is complet	on - T	op, Bot	tom, Na	me		l									
						CAC	DIC DEC	ODI) (D		. 11 .			11\				
CASING SI	75	r	WEIGHT	LD /C	CASING RECORI				D (Report all string			gs set in well) CEMENTING RECORD AMOUNT PULLE			DILLIED			
CASING SI	ZE		WEIGHT	LB./F	3./FT. DEPTH SET				HOLE SIZE				CEMIENTING RECORD			A	AMOUNTTOLLED	
							- "											
													<u> </u>			2222		
SIZE	TOP			BOT	ТОМ	LINI	ER RECORD SACKS CEM	FNT	SCR	FEN	J	25. SIZ			NG RE		PACK	ER SET
5135	101			DO.	101.1		STORE CENT	22	301		`						11110111	
26. Perforation	record (i	interv	/al, size, ar	ıd num	iber)								ACTURE, CE					
1									DEF	тн	INTERVAL		AMOUNT A	ND I	KIND M	ATERIA	L USED	
																		
1																		
28.								PRO	DI	IC'	TION		1					
Date First Produc	ction		Pr	oducti	on Metl	od (Fla	wing, gas lift, p)	Well Status	(Pro	d. or Sh	ut-in)		
Date of Test	Hour	r Tor	tad	Chol	ke Size		Prod'n For		Oil -	Dhi	 I	Co	s - MCF	\X	/ater - Bl	<u></u>	Gos - C	Dil Ratio
Date of Test	Hour	Sies	steu	Cilo	KE SIZE		Test Period			- DUI	· I	Ga	s - MCr	1 "	rater - Di	л.	Uas - C	n Kano
El T. L.				0.1	1.4.10		O'I PM		L	<u> </u>	MOE		W-t Db1		Long		API - (Cor	
Flow Tubing Press.	Casir	ng Pr	essure	1	ulated 2 r Rate	<u> </u>	Oil - Bbl.		1	Gas	- MCF	1	Water - Bbl		Oil G	ravity - A	API - (Cor	r)
31. List Attachm	ents																	
32 If a temporar	y pit was	used	at the wel	, attac	h a plat	with th	e location of the	tempo	rary p	it.								
33. If an on-site t	ourial wa	s use	d at the we	II, repo	ort the e	xact loc	ation of the on-s	site bu	rial [.]									
							Latitude						Longitude				NA	D 1927 1983
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										r								
Signature	1 St)	X	اب	P		Name Cathe	erine	Smit	h	Title	: R	egulatory		Date	;		
	_WN	w	m (V)	νΨ	~													
E-mail Addre	ss csm	ith@	dhunting	toner	nergy.	com												

INS UCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southea	astern New Mexico	Northwes	Northwestern New Mexico				
T. Anhy	T. Canyon	T. Ojo Alamo 1657	T. Penn A"				
T. Salt	T. Strawn	T. Kirtland1847	T. Penn. "B"				
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"				
T. Yates	T. Miss_	T. Pictured Cliffs 2296	T. Penn. "D"				
T. 7 Rivers	T. Devonian	T. Cliff House 3819	T. Leadville				
T. Queen	T. Silurian	T. Menefee3883	T. Madison				
T. Grayburg	T. Montoya	T. Point Lookout 4526	T. Elbert				
T. San Andres_	T. Simpson	T. Mancos4760	T. McCracken				
T. Glorieta	T. McKee	T. Gallup5617	T. Ignacio Otzte				
T. Paddock	T. Ellenburger	Base Greenhorn 6549	T.Granite				
T. Blinebry	T. Gr. Wash	T. Dakota 6595					
T.Tubb	T. Delaware Sand	T. Morrison6942					
T. Drinkard	T. Bone Springs	T.Todilto					
T. Abo	T	T. Entrada					
T. Wolfcamp	T.	T. Wingate					
T. Penn	T.	T. Chinle					
T. Cisco (Bough C)	T.	T. Permian	OH OP CAS				

			OIL OR GAS SANDS OR ZONES
No. 1, from5617to5849		No. 3, from	to
No. 2, from6595 to. 6942		No. 4, from	to
	IMPORT <i>A</i>	ANT WATER SANDS	
Include data on rate of water inflow ar	nd elevation to which	n water rose in hole.	
No. 1, from	to	feetfeet	
No. 2, from	to	feetfeet	********
		feet	
·		RD (Attach additional sheet if neces	

From	То	Thickness In Feet	Lithology	From	То	Thickness In Feet	Lithology
5600 6000 6504 6569 6595 6942	6000 6504 6569 6595 6942 7100	400 504 65 28 347 158	Shale, coarse to fine grain Shale w/minor siltstone, sandstone Interbedded limestone and marl Shale, dk gray to black Sandstone, It gray to brwn, fine grain Shale, grn, gray, brownd, red, secondary coarse to fine grain sandstone				

DISTRICT | P 0 Box 1980, Roobs, N.M 88241-1980 State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised Ortober 12, 2005 Instructions on back Appropriate District Office

DISTRICT II 1301 W. Grand Avenue, Arlesia, N.M. 88216

1226 South St Francis Dr., Santa Fe, NM 87505

OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Azlec, N.M. 87410

DISTRICT IV

Santo Fe. NM 87504-2088
"AS DRILLED"

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

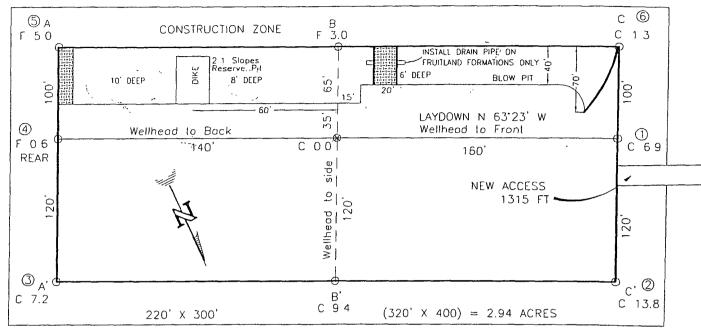
	num noominon ma			
'API Number 30-039-30039	*Pool Code 71599	³rool Name Basin Dakota		
¹Property Code	· Property N	nme "Well Numb	oer	
32660	CANYON LARGO UNIT			
OGRID No	*Operator N	me "Elevation	n	
208706	HUNTINGTON ENER	GY, LLC 6725'		

¹⁰ Surface Location North/South line UL or tol no. Feet from the Feel from the East/West line Section Township Range Lot Idn County NORTH 1920 EAST 25 - N2280 RIO ARRIBA 11 Bottom Hole Location If Different From Surface UL or lot no Lot Ida Feet from the North/South line Feel from the East/West hine Township Section Range County F980 19 SOUTH EAST C 25-N 6-W RIC ARRIBA Dedicated Acres Consolidation Code 15 Order No. Joint or infill E/2 - 320

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OR A NON-STAN	DAILD UNIT TIAL	, DEDIT ALL	ות מפויטו	1111 111101
16 LOT 1	FD 3 1/4" B.L.M. BC 1965	4	9 ⁻ 42 ¹ 03" W 49.51' (M)	D 3 1/4" BL M BC 1965	OPERATOR CERTIFICATION I hereby certify that the information continues herein is true and complete to the best of my knowleage and while, and that this organization either ourse a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an immer of such a mineral or working interest, or to a voluntary pooling agreement or a computerory pooling order heretofore entered by the division.
LONG: 107.50 LAT: 36°24'0	SURFACE: 0027' N (NAD 83) 0582' W (NAD 83) 00.98" N (NAD 27) 20.98" W (NAD 27)		3	S 00.5	Signature Smith Printed Name 2/10/09 Signature Date Catherine Smith
LOT 2			1920'	Á	·
LOT 3	BOTTOM HOLE			FD 3 1/4" B.L.M. BC 1965	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true
LONG: 10 LAT: 36*.	65.39411' N (NAD 83) 7.50597' W (NAD 83) 23'38.81" N (NAD 27) 30'21.51" W (NAD 27)			00'21'32" W 2585.40' (M)	OCTOBER 23, 2006 Date of Survey (1) A. H. Signature and Soal of Professional Surveyor.
LOT 4	S 89'23'58" W 2543.70' (M) FD. 3 1/4" BC. 1965 B.L.M.	B.H.L.		7,00 × 25,852 1/4" BC.	Certificate Humber

HUNTINGTON ENERGY LLC CANYON LARGO UNIT NO. 489, 2280 FNL 1920 FEL SEC. 18, T-25-N, R-6-W, N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO GROUND ELEVATION: 6725, DATE: OCTOBER 25, 2006



RESERVE PIT DIKE TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE)
BLOW PIT OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT.

NOTE: DAGGETT ENTERPRISES, INC IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION C/L ELEV A-A 6740 6730 6720 6710 C/L ELEV B-B' 6740 6730 Surveying and Oil Fleid Services P. O. Box 15068 Farmington, NM 87401 Phone (505) 326-1772 • Fax (505) 326-6019 NEW MEXICO L.S., No. 8894 6720 Daggett Enterprises, 6710 C/L ELEV. C-C' 6740 6730 6720

NOTE: CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLESON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

6710

Cathy Smith

From:

Cathy Smith

Sent:

Friday, May 15, 2009 2 52 PM

To:

'brandon.powell@state nm us'

Cc:

Alan McNally

Subject: CLU 489

Brandon,

Notice of Pit Closure for the Canyon Largo Unit #489, May 1, 2009

CLU 489

API# 30-039-30039 Lease # NMSF 078882 SWNE Sec 18, T25N-R6W Rio Arriba Co , NM

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



Kelly, Jonathan, EMNRD

From: Cathy Smith [CSmith@huntingtonenergy.com]

Sent: Tuesday, November 29, 2011 2:20 PM

To: Kelly, Jonathan, EMNRD

Subject: CLÚ 482

Jonathan,

I sent a notification email for pit closure for the CLU 489 to the NMOCD – Brandon Powell, but failed to include Mark Kelly w/BLM. It was totally an error on my part. I will make sure in the future to include both entities.

Thank you.

Cathy Smith Huntington Energy, L.L.C. 908 N.W. 71st St. Oklahoma City, OK 73116 (405) 840-9876 ext. 129



and the first section of the control of the control



#