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 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.

Pit, Closed-Loop System, Below-Grade Tank, o		
Proposed Alternative Method Permit or Closure Plan A	<u>pplication</u>	
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 environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governments.		
Operator: HALLADOR PETROLEUM LLP OGRID #: 12672		
Address: 1660 LINCOLN ST., SUITE 2700, DENVER, CO 80264	ROVD DEC 15 YOR	
Facility or well name: HORTON 11	CIL CSWS. DIV.	
API Number: <u>30-045-23395</u> OCD Permit Number:		
U/L or Qtr/Qtr D Section 27 Township 32 N Range 12 W County: SAN JUAN	DIST. 3	
Center of Proposed Design: Latitude 36.96196° N Longitude 108.08762° 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 mil LLDPE HDPE PVC Other		
String-Reinforced		
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L'x W	l'v D'	
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)	prior approvar or a permit or notice or	
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other		
☐ Lined ☐ Unlined Liner type: Thickness mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other		
Liner Seams:		
4.		
Below-grade tank: Subsection I of 19.15.17.11 NMAC		
Volume: 25 bbl Type of fluid: produced water		
Tank Construction material: single wall fiberglass		
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off		
☐ Visible sidewalls and liner ☒ Visible sidewalls only ☐ Other		
Liner type: Thicknessmil		
\$		
Alternative Method:		

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

--- Gil-Canservating Disciolation --

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 institution or church)  ☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet  ☐ Alternate. Please specify 48" high (= 36" hog wire + rebar top)	l, 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)	
8.  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 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 accematerial are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approffice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	opriate district approval.
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

- Form C-144 - - Oil-Conservation-Division - Prope 2005

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:
12.
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  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 <sub>2</sub> S, Prevention Plan  Emergency Response Plan  Oil Field Waste Stream Characterization  Monitoring and Inspection 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)
15. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the
waste Exceptation and Removal Closure Flan Checking: (19.15.17.15 NM/RC) Instructions: Each of the following items must be 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
Page to Securior Division - Page to Securior

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13. Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if facilities are required.	more than two	
Disposal Facility Name: Disposal Facility Permit Number:		
Disposal Facility Name: Disposal Facility Permit Number:		
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future set Yes (If yes, please provide the information below) No	rvice 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 H of 19.15.17.13 NMA Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	ı.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 plan. Recommendations of acceptable sou provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate disting considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Just demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	trict 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 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 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 obtained from nearby wells	☐ Yes ☐ No ☐ NA	
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.  - 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 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; 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	
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 Subsection F 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  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)  Soil Cover Design - based upon the appropriate requirements of Subsection II of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 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): BRIAN WOOD Title: CONSULTANT		
Signature: Date: <u>12-11-08</u>		
e-mail address: <u>brian@permitswest.com</u> Telephone: (505) 466-8120		
20.  OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)		
OCD Representative Signature: Selection Approval Date: 3/9/10		
Title: Euviro 15 pec 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:		
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		
Re: juired 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		
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		
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): Title:		
Signature: Date:		
e-mail address: Telephone:		

Come Califfrence Division Division

PAGE 1

### **Current Situation**

API # 30-045-23395

There is a 25 barrel single wall fiberglass tank. Walls are visible. Tank is surrounded by hog wire fence topped with re-bar. There is no secondary containment. The tank has a nylon net top. After removal of the existing tank, water will be piped to a planned below grade tank. Application for it will be made once the design is finalized.

#### Time Line

Will close after approval of this application and before June 16, 2013. Will close earlier if OCD determines there is an imminent danger to fresh water, public health, or the environment.

### Siting Criteria

1. Depth to ground water is estimated to be >100'. Closest reported water depth and water well is the Talley water well which is 1/2 mile west in Section 28. Next closest water is the Murray water well which is 2 miles southeast in Section 35 and in a different watershed. Office of the State Engineer records are attached as Exhibit A. Exhibit B shows the well locations.

≈6,092' Talley water well ground elevation - 90' depth to water ≈6,002' water level elevation

6,123' gas well elevation
- 3' depth to bottom of tank
6,120' tank bottom elevation

6,120' tank bottom elevation
- 6,002' water level elevation
≈118' depth to water

- 2. Tank is not within 300' of a continuously flowing watercourse. Tank is not within 200' of any other significant watercourse as defined by OCD. Closest first order tributary of McDermott Arroyo is >2 miles west (Exhibits B & C).
- 3. Tank is not within 300' of any building. Closest buildings are ≈900'



Hallador Petroleum LLP
Horton 11 below grade tank proposed closure
880' FNL & 1190' FWL Sec. 27, T. 32 N., R. 12 W.
San Juan County, New Mexico
API # 30-045-23395

on a hill (Exhibit D).

- 4. Tank is not within 1,000' of any fresh water well or spring (Exhibits A & B).
- 5. Tank is not within municipal boundaries or within a municipal fresh water well field (Exhibits A & B).
- 6. Tank is not within 500' of a wetland (Exhibit E).
- 7. Tank does not overly a mine (Exhibit F).
- 8. Tank is not in an unstable area. No evidence of earth movement was found during a November 6, 2008 field inspection.
- 9. Tank is not within a 100 year flood plain (Exhibit G).
- 10. C-102 is attached as Exhibit H.
- 11. Closure notice to the surface owner (Eppard) is attached as Exhibit I.

### **Hydrogeology**

Surface formation is the Nacimiento. According to Stone et al in <u>Hydrogeology</u> and water resources of San Juan Basin, New Mexico, the Nacimiento is mainly a mudstone. There are also medium to coarse grained sandstone layers in the Nacimiento. Transmissivities of 100 feet<sup>2</sup> per day can be found in the coarser continuous sandstones. Water in the more extensive sandstones has a specific conductance of 1,500  $\mu$ mhos. Specific conductance is >2,000  $\mu$ mhos in the finer grained sandstones.



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### Closure Plan

Surface owner has been notified via certified return receipt requested mail of the proposed closure.

Will verbally notify OCD at least 72 hours and no more than 1 week before closure. Notice to OCD will include operator name, location (quarter-quarter, section, township, & range), well name & number, and API number.

Will pump out any remaining water and haul to Basin Disposal (NM-01-005)

Will haul sludge to J F J Land Farm (NM-01-010).

Will truck waste qualifying under OCD Rule 19.15.9.712 to the San Juan County landfill.

Will remove tank, pipes, and associated equipment and store at company yard for future reuse.

Will test soil under tank to determine if a release has occurred, even if there is no visible contamination. Will collect, at a minimum, a five point composite sample. Will collect individual grab samples from any area that is wet, discolored, or showing other evidence of a release. Will analyze all samples for:

Component	Test Method	Not to Exceed (mg/kg)
benzene	EPA SW-846 8021B or 8260B	0.2
total BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA 418.1	100
chlorides	EPA 300.1	250 or background

If the operator or OCD determines that a release has occurred, then the operator will comply with OCD rules 19.15.3.116 NMAC and 19.15.1.19 NMAC,



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as appropriate. A major (>25 barrels) release requires immediate verbal notice and timely written notice to OCD. A minor release (more than 5 barrels and less than 25 barrels) requires timely written notice to OCD. Timely is defined as 15 days. Written notice will include Form C-141. OCD may require additional sampling delineation upon its review of the results.

If the sampling program demonstrates that a release has not occurred, or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC (table on preceding page); then the operator will back fill the excavation with compacted waste free earthen material, construct an OCD prescribed soil cover, recontour, and revegetate the site. The soil cover, recontouring and re-vegetation requirements will comply with Subsections G, H and I of 19.15.17.13 NMAC. Specific steps are:

back fill to within 12" of grade
bring to grade with 12" topsoil or background thickness, whichever is more
contour to prevent ponding or erosion
seed first growing season after closure
seed with at least 3 native species, at least 1 of which must be a grass (recommend grass species only for safety & keep seed bag tag)
seed mix will exclude noxious weeds
cover seed
Will file closure report on Form C-144 within 60 days of closure completion with necessary attachments to document all closure activities including:  proof of notice to surface owner  proof of notice to OCD  plot plan
chemical sampling analysis results
disposal facility name and permit number
back filling & cover details
seeding rate per species
how seeded
photograph of seeded area



Successful revegetation will be accomplished if:
plant cover equals 70% of adjacent impact free native perennial vegetation
(noxious weeds are not counted toward 70% goal)
70% goal maintained for 2 consecutive growing seasons without irrigation
if unsuccessful, repeat until goals is achieved
notify OCD when 70% goal has been met for 2 consecutive growing seasons
file Form C-144
include photograph of revegetated area

Executed this 11th day of December, 2008.

Brian Wood, Consultant

Permits West, Inc.

37 Verano Loop, Santa Fe, NM 87508

(505) 466-8120

FAX: (505) 466-9682

Cellular: (505) 699-2276

The operator's representative is:

Tim Lovseth

Hallador Petroleum LLP

1660 Lincoln St., Suite 2700

Denver, CO 80264

(303) 839-5504, Extension 317



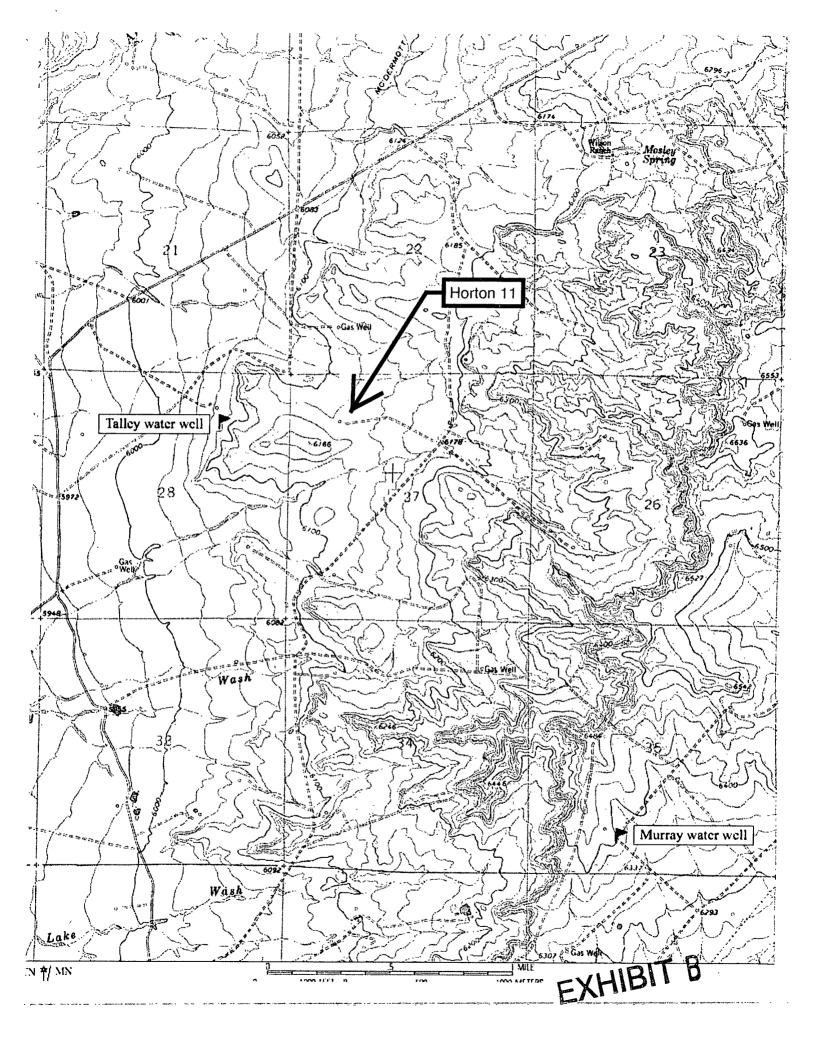
## New Mexico Office of the State Engineer POD Reports and Downloads

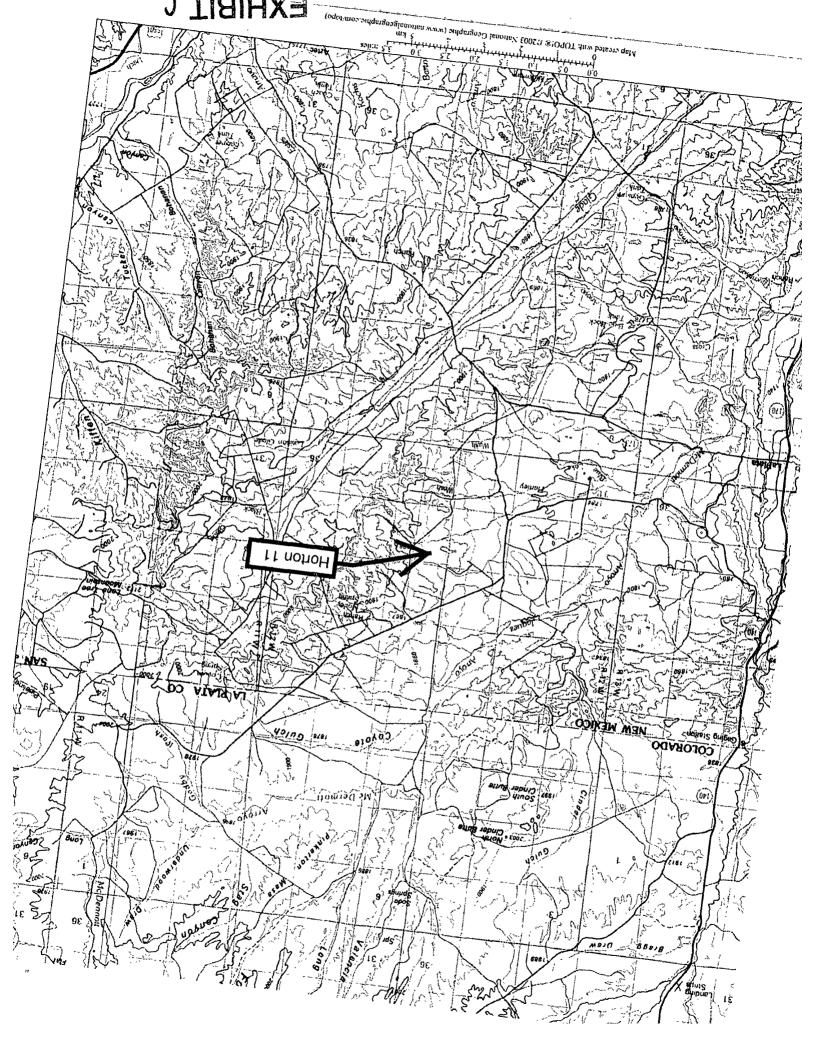
Township: 32N Range: 12W Sections:
NAD27 X: Y: Zone: Search Radius:
County: Suffix:
Owner Name: (First) (Last) ONon-Domestic ODomestic OAll
POD / Surface Data Report Avg Depth to Water Report Water Column Report
Clear Form (iWATERS Menu) (Help)
*** *** *** *** *** *** *** *** *** **
WATER COLUMN REPORT 12/10/2008  (quarters are 1=NW 2=NE 3=SW 4=SE)

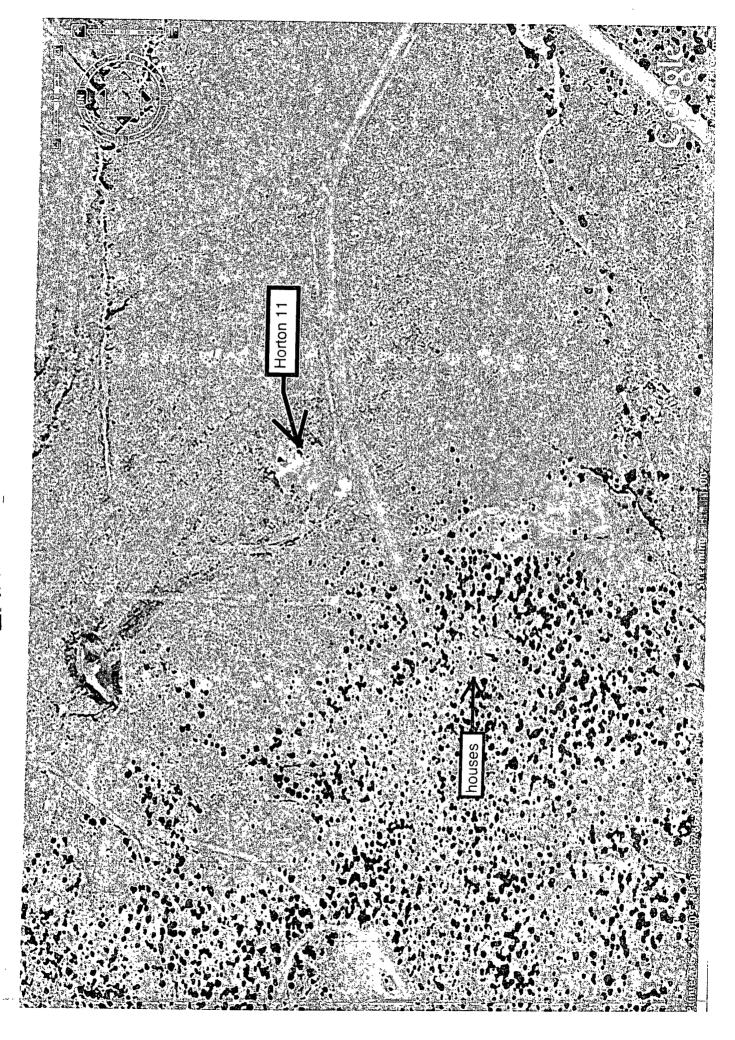
(quarters are biggest to smallest) Depth Depth Water (in feet) POD Number Tws Rng Sec q q q Zone Well Water Column SJ 01213 32N 12W 18 640 20 620 SJ 01212 32N 12W 18 4 1 3 43 5 38 SJ 03583 32N 12W 23 1 1 1 167 60 107 SJ 00055 32N 12W 25 2 504 SJ 02110 32N 12W 28 2 1 4 391500 2170000 171 90 SJ 01106 32N 12W 35 180 3 4 115 65

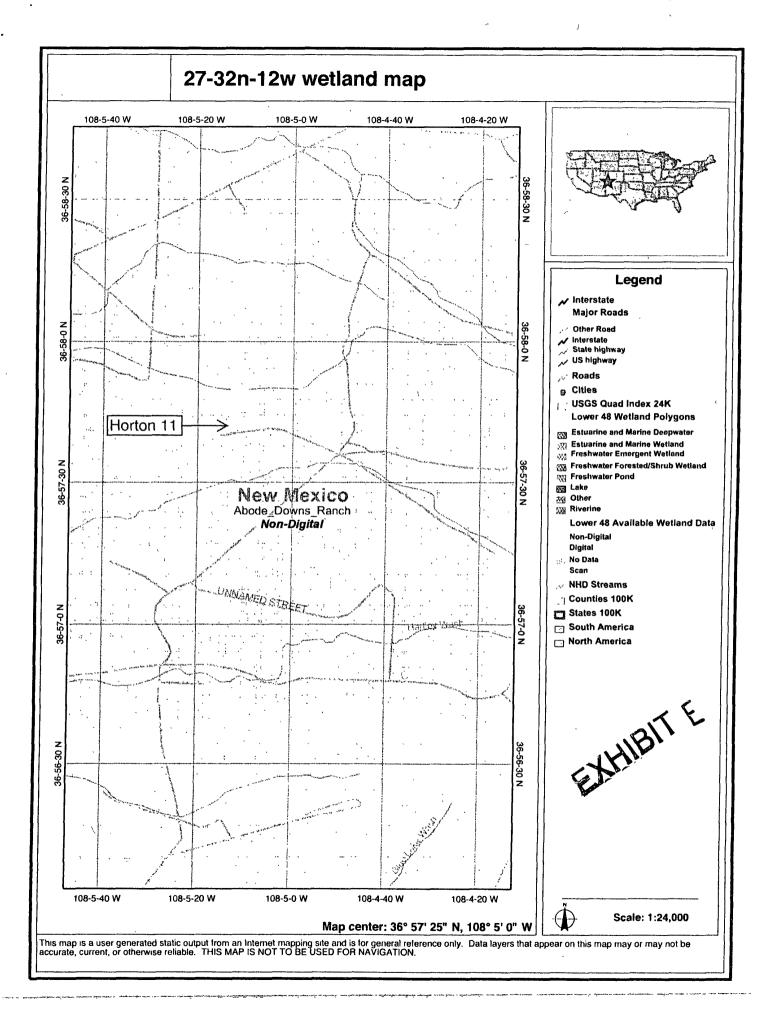
Record Count: 6

EXHIBIT A

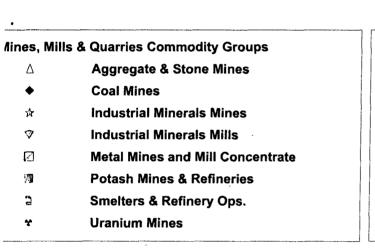


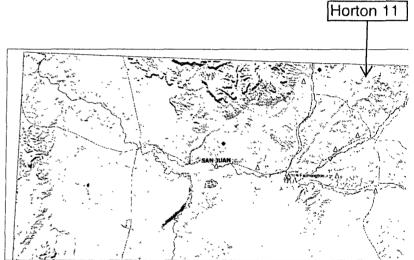


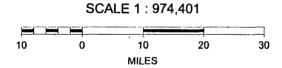




# MMQonline Public Version

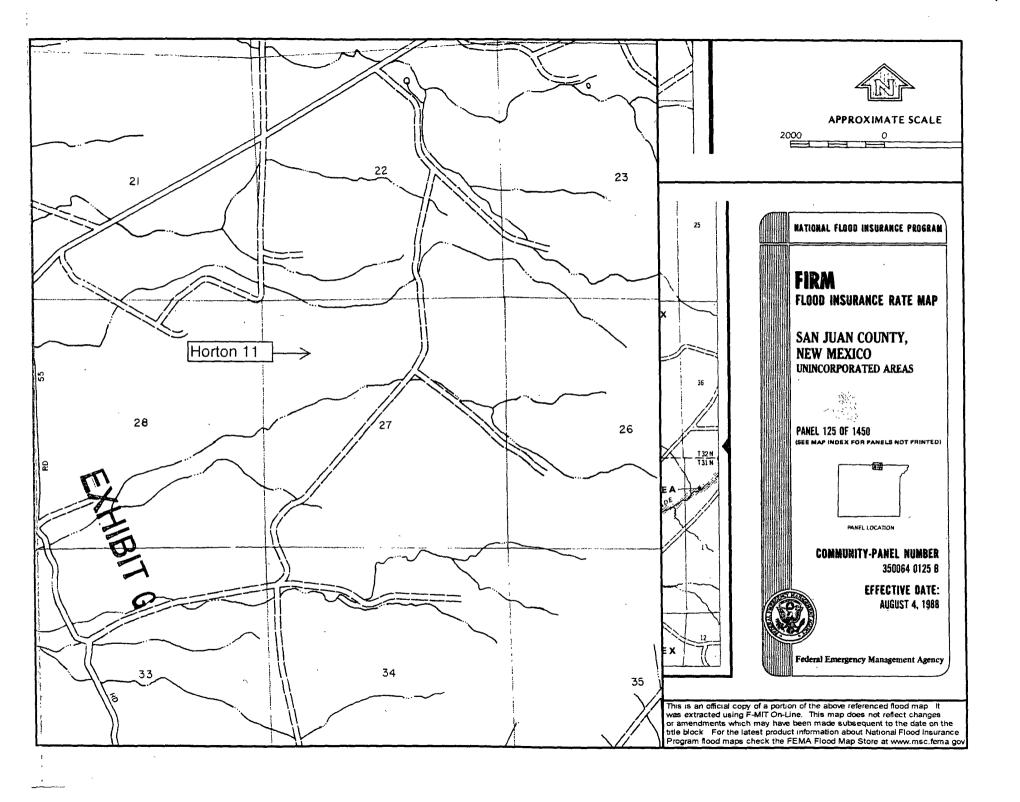








EXHIBITF



### NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Thim C-102 Superardea C-126 Ellective 1-1-65

All distances must be from the outer houndaries of the Section. Well No. KIMBARK OPERATING COMPANY HORTON 11 Unit Letter Section 32 NORTH D 27 12 WEST SAN JUAN Actual Factore Location of Well: 880 NORTH 1190 line and feet from the Ground Level Clev. Dedicated Acreage: 6123 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? ☐ No If answer is "yes;" type of consolidation \_\_ list the owners and tract descriptions which have actually been consolidated. (Use reverse side of tank N 36.96196° assigned to the well until all interests have been consolidated (by communitization, unitization, W 108.08762° herwise) or until a non-standard unit, eliminating such interests, has been approved by the Commisaion. CERTIFICATION I hereby certify that the information com-Position Clarence H. Brown Agent Company Kimbark Operating Co Date 27 Date Surveyed 12 February 1979 Registered Professional Engine -1463 1370 1610



December 8, 2008

Charles & Mary Eppard P. O. Box 441
Aztec, NM 87410

Dear Mr. & Ms. Eppard:

As required by NMOCD rule Subsection J of 19.15.17.13 NMAC, I am notifying BLM that Hallador Petroleum LLP plans to close the following below grade tanks on your surface in San Juan County, NM:

Well

API Number

Location

Horton 11

30-045-23395

NWNW 27-32n-12w

Please call me if you have any questions.

Brian Wood

Sincerely,

EXHIBIT

8592	(Domestic Mail C	SETVICE D MAIL RE( Inly: No Insurance: ( atton visit our website	Coverage Provided)
-D	OFF	ICIAL	OUR SEND STORY
E	Postage	\$ -42	Sh prine
ᆿ	Certified Fee	2.70	DEC 0 8 2008
4000	Return Receipt Fee (Endorsement Required)	2.20	Here /same
u o	Restricted Delivery Fee (Endorsement Required)		USPS
Ε ΕΩ ΕΩ	Total Postage & Fees	\$ 5,32	,
9	Sent To	Eppard	
7008	Street, Apl. No.; or PO Box No.	77	
	City, State, ZIP+4		an Social Revented to White Recording to the

### Power of Attorney

Know All Men By These Presents:

That I, Victor P. Stabio, Chief Executive Officer and President of Hallador Petroleum Company, with offices at 1660 Lincoln Street, Suite 2700, Denver, Colorado 80264, have made, constituted, and appointed, and by these presents do make, constitute and appoint Brian Wood of Permits West, Inc., whose address is 37 Verano Loop, Santa Fe, New Mexico 87505, my true and lawful attorney, for me, and in my name, place and stead, and to my use to sign any and all forms submitted on behalf of Hallador Petroleum Company to the New Mexico Oil Conservation Division.

This Power of Attorney is execute this 8th day	of December, 2008, but shall be effective
for all intents and purposes as of June 16, 2008.	11:4A

Vietor P. Stabio

Chief Executive Officer and President of Hallador Petroleum Company

### Corporate Acknowledgment

STATE OF COLORADO }
CITY AND } 
COUNTY OF DENVER }

Before me, a Notary Public in and for said County and State, on this 8th day of December, 2008, personally appeared Victor P. Stabio, Chief Executive Officer and President of Hallador Petroleum Corporation, a Colorado corporation, on behalf of said corporation.

My commission expires: June 7, 2011 Jane Sanders, Notary Public 1660 Lincoln Street, Suite 2700 Denver, Colorado 80264

My Commission Expires 06/07/2011