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

946	,4
-----	----

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

1 toposed 7 thermative Wethout 1 chint of Closure 1 min 7	<u>ipplication</u>
Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed Closure of a pit, closed-loop system, below-grade tank, or proposed Modification to an existing permit Closure plan only submitted for an existing permitted or non-proposed alternative method	osed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, belo	w-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of hability should operations result in pollution environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable government.	
Operator: HALLADOR PETROLEUM LLP OGRID #. 12672 Address: 1660 LINCOLN ST., SUITE 2700, DENVER, CO 80264	RCVD DEC 15'08 DIL CONS. DIV.
Facility or well name: HORTON 1B	DIST. 3
API Number: 30-045-30165 OCD Permit Number:	
U/L or Qtr/Qtr J Section 7 Township 31 N Range 11 W County SAN JUAN	
Center of Proposed Design. Latitude 36.91248° N Longitude 108.02865° W NAD. ☐ 1927 ☐ 1983	
Sunface Oursey M. Friday I. T. State T. Browner T. Trakel France and Lader Albertain	

API Number 30-U/L or Qtr/Qtr J Center of Propose 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 mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____ ☐ String-Reinforced Liner Seams: Welded Factory Other Volume. bbl Dimensions L'x W'x D' Closed-loop System: Subsection II of 19.15.17.11 NMAC Type of Operation P&A Dulling a new well Workover or Dulling (Applies to activities which require prior approval of a permit or notice of intent) ☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other ☐ Lined ☐ Unfined Liner type Thickness _____mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other Below-grade tank: Subsection I of 19 15 17 11 NMAC Volume: 100 bbl Type of fluid produced water Tank Construction material steel with single side walls & double bottom ☐ 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 Thickness mil 🔲 HDPE 🔲 PVC 🔲 Other Alternative Method:

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

Low Like granus with transporter in the 1- more more comment

Fencing: Subsection D of 19 15 17 14 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 + re-bar top)	l, hospital,
Netting: Subsection E of 19 15.17 11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other expanded metal 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.	ı 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
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
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

mysericlann massymiddict

नित्रपुर है तो है

linema laborated

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. Ilydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15 17 9 NMAC Ilydrogeologic 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 NMA 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)	nC .
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. Ilydrogeologic 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 Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19 15 17 11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC Preceboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15 17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan 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: Dulling 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 II of 19.15 17.13 NMAC □ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	

dillandanin diverse

Form Calala

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 Permit Number						
Disposal Facility Name Disposal Facility Permit Number						
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 II of 19 15 17 13 NMAC 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	.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 disconsidered 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 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 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 H of 19 15 17 13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC						

- Dil Consusvaum Division-

भागुस्य अधार्

Loru C-1:1-1

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>12-8-08</u>
e-mail address. brian@permitswest.com Telephone (505) 466-8120
20. OCD Approval: Permit Application (including flosyre-plan) (Pseure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature: Approval Date: 3/09/2012 Title: 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
23 Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.
Disposal Facility Name Disposal Facility Permit Number
Disposal Facility Name Disposal Facility Permit Number
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) No
Required for impacted areas which will not be used for future service and operations Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique
24.
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)
On-site Closure Location. Latitude Longitude NAD
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) litle
Signature Date.
e-mail address Telephone

the Connervenen-bornen

4,466-4.44

Lurm Calda

PAGE 1

Current Situation

There is a 100 barrel Atmos 2000 single side wall double bottom steel tank. Tank is surrounded by hog wire fence topped with re-bar. There is no secondary containment. The tank has an expanded metal 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 completed.

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. Closest reported water depth is the Jones water well which is $\approx 6,000$ ' northwest in 1-31n-12w. Office of the State Engineer records are attached as Exhibit A.

≈6,457' Jones water well ground elevation
- 161' depth to water
≈6.296' water level elevation

Water level elevation at the Jones water well is 58' higher than the ground level elevation (6,238') at this gas well. Ground water is believed to be more than 100' below the bottom the tank based on depth (1,024') to the Ojo Alamo sandstone in this well.

- 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 Estes Arroyo is >200 yards southwest (Exhibit B).
- 3. Tank is not within 300' of any building (Exhibits B & C). There are no buildings within one mile.



- 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 D).
- 7. Tank does not overly a mine (Exhibit E).

API # 30-045-30165

- 8. Tank is not in an unstable area. No evidence of earth movement was found during a November 13, 2008 field inspection.
- 9. Tank is not within a 100 year flood plain (Exhibit F).
- 10. C-102 is attached as Exhibit G.
- 11. Closure notice to the surface owner (BLM) is attached as Exhibit H.

Hydrogeology

Surface formation is the Nacimiento. According to Stone et al in <u>Hydrogeology</u> and water resources of <u>San Juan Basin</u>, <u>New Mexico</u>, the Nacimiento is mainly a mudstone. There are also medium to coarse grained sandstone layers in the Nacimiento. Transmissivities of 100 feet² per day can be found in the coarser continuous sandstones. Water in the more extensive sandstones has a specific conductance of 1,500 μ mhos. Specific conductance is >2,000 μ mhos in the finer grained sandstones.



PAGE 3

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,



PAGE 4

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



Executed this 8th 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

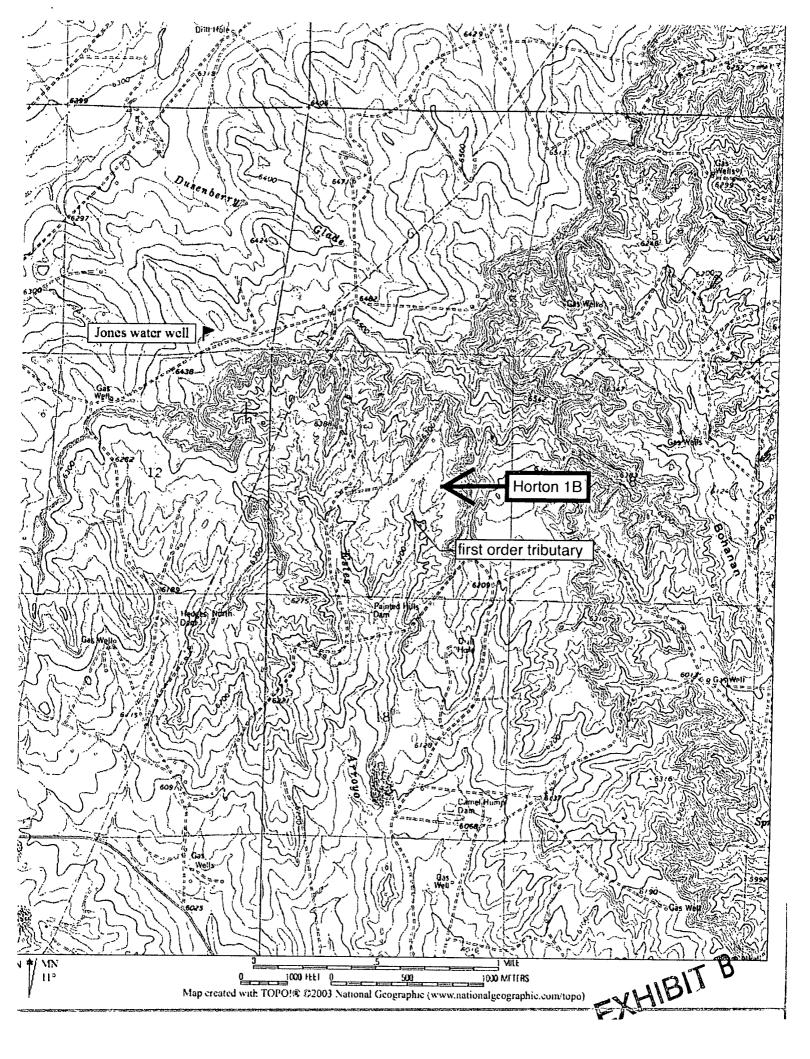


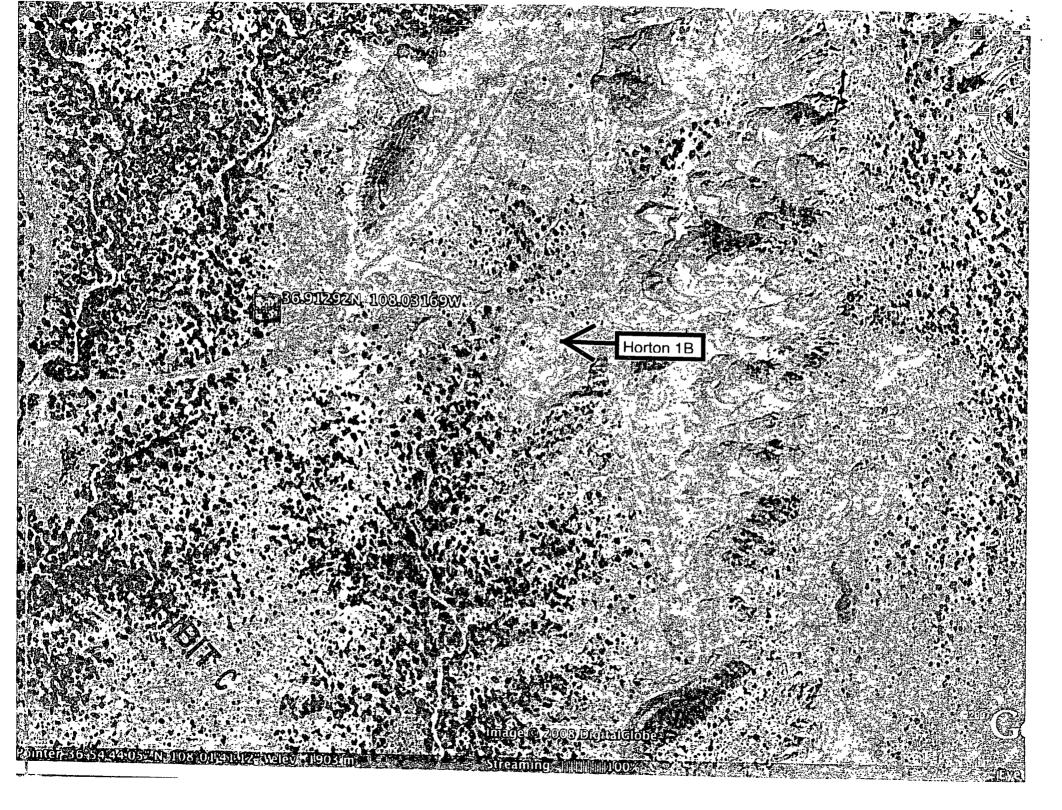
UTM_

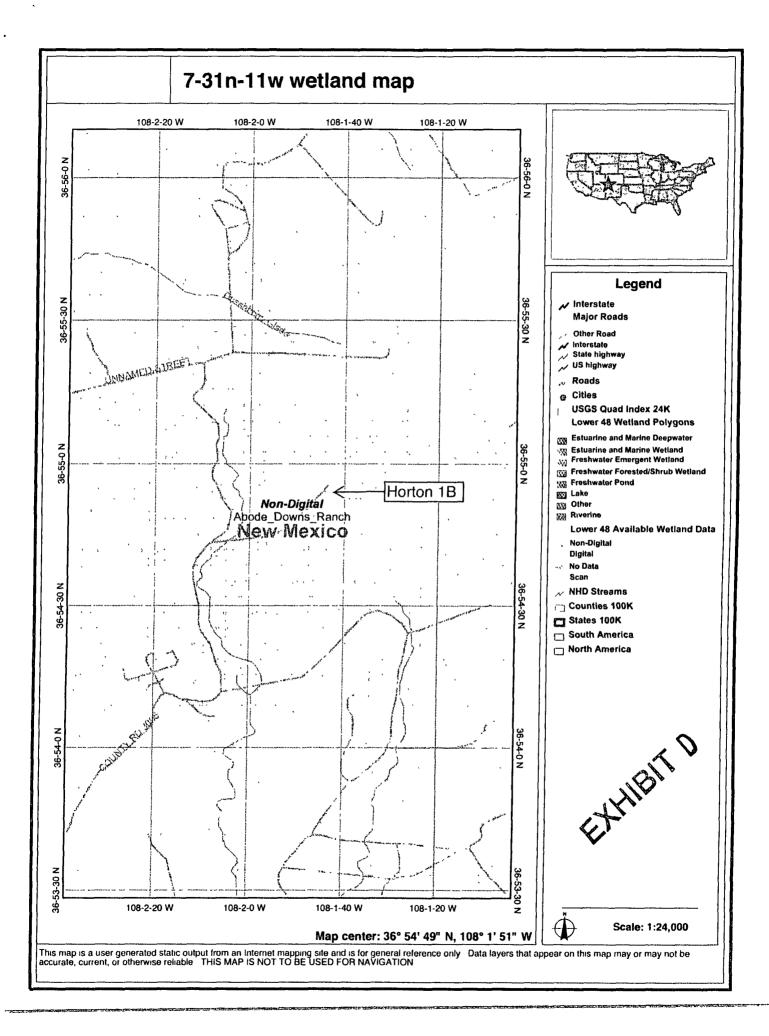
New	Mexico	Office	of the	e State	Engineer
	POD R	eports	and l	Downl	oads

rod keports and bownloads	
Township. 31N Range 11W Sections 7	
NAD27 X Y: Zone Search Radius	
County 1 Basin: Suffix Suffix	
Owner Name: (First) UNon-Domestic ODomestic OAll	
(POD / Surface Data Report) (Avg Depth to Water Report) (Water Column Report)	
(Clear Form) ('IWATERS Menu') (Help)	
POD / SURFACE DATA REPORT 12/07/2008 (quarters are 1=NM 2=NE 3=SM 4=SE) (acre ft per annum) (quarters are biggest to smallest X Y are DB File Nbr Use Diversion Owner POD Number Source Two Rng Sec q q Q Zone	e in Foet UI X Y UTh
No Records found, try again	
New Mexico Office of the State Engineer	12/7/08 12.17 PM
New Mexico Office of the State Engineer	
POD Reports and Downloads	
Township: 31N Range: 12W Sections: 1	
The first form Gov (-1-1) and the first form of	
NAD27 X: Y: Zone: Search Radius:	
•	
County: Basin: Basin: Number: Suffix:	
Owner Name: (First) (Last) ONon-Domestic ODomestic OA	11
Owner Name: (First) (Last) ONon-Domestic ODomestic OA	.11
(POD / Surface Data Report) (Avg Depth to Water Report) (Water Column Report)	
(Clear Form) (iWATERS Menu) (Help)	

WATER COLUMN REPORT 12/07/2008	
(quarters are 1=NW 2=NE 3=SW 4=SE)	
	(in feet)
POD Number Tws Rng Sec q q q Zone X Y Well Water Column SJ 03488 31N 12W 01 3 3 2 150	
<u>SJ 03738 POD1</u> 31N 12W 01 4 1 3 115 50 65	
<u>sj 02034</u> 31N 12W 01 4 3 85 55 30	
<u>sj 03134</u> 31N 12W 01 4 3 2 80 20 60	
<u>sj 03022</u> 31N 12W 01 4 3 2 490 250 240	
<u>sj 01660</u> 31N 12W 01 4 3 3 320 275 45	
<u>SJ 01649</u> 31N 12W 01 4 3 4 220 161 59	
SJ 03660 31N 12W 01 4 3 4 70 42 28	
<u>sj 02099</u> 31N 12W 01 4 4 95	A
Record Count: 9	List.







MMQonline Public Version

Alines, Mills & Quarries Commodity Groups

△ Aggregate & Stone Mines

◆ Coal Mines

☆ Industrial Minerals Mines

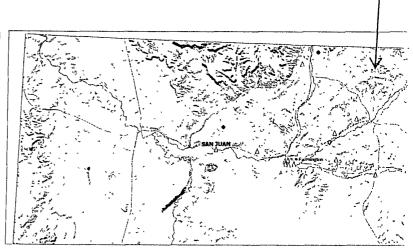
◇ Industrial Minerals Mills

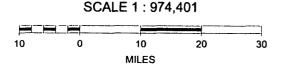
☑ Metal Mines and Mill Concentrate

☑ Potash Mines & Refineries

⊇ Smelters & Refinery Ops.

✔ Uranium Mines

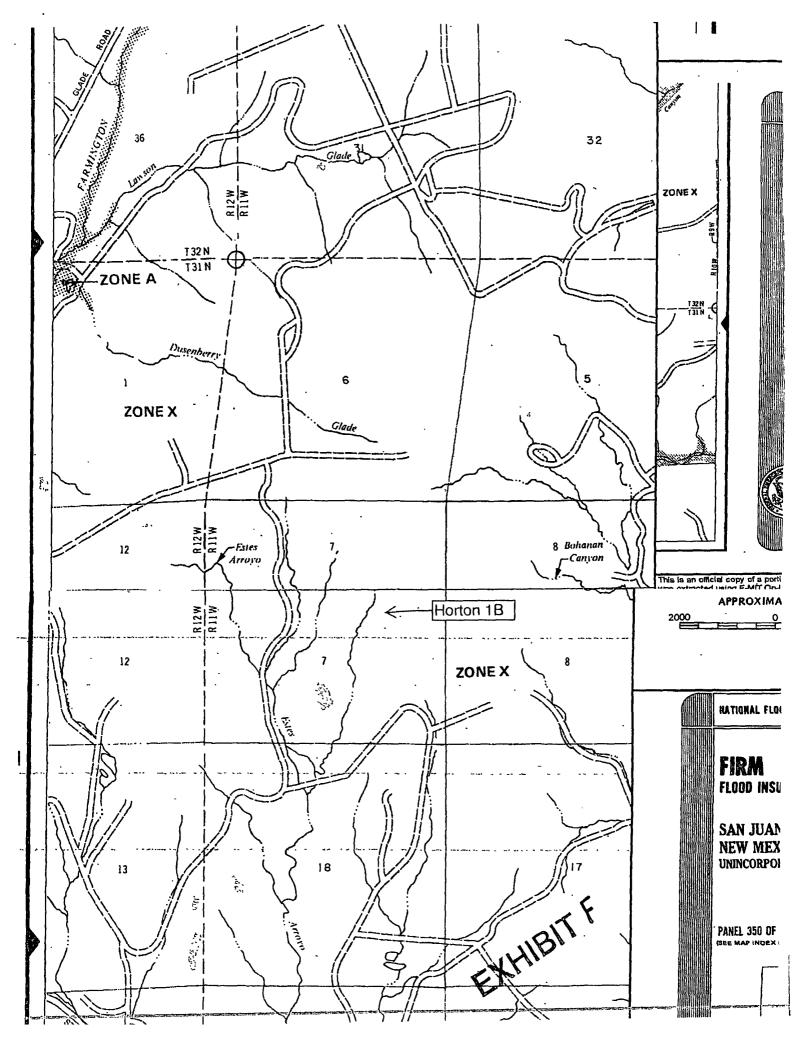






Horton 1B

EXHIBITE



District L 15) flog 1989, Hobbs, NM 88241-1980 District II XII South First, Actoria, NM XX210

District III 1000 Rio Benzin Rd., Artec, NM 17410 District IV

2040 South Pucheco, Santa Fe, NM 17505

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-102 Revised October 18, 1994 Instructions on back

Submit to Appropriate District Office
State Lease - 4 Copies

State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT											
3045-30165 72319 71594 Blunce Mesaveile Balin Dukato											
' Property Code ' Property Name ' Well Number HORTON 1B											
139	'OGRID No Operator Name 'Elevation 'A Part Hallador Petroleum LLP 6238'				Irvation						
	16.	2	<u></u>			10 Surface			L	02	.70
UI, or lo	d no.	Section	Townshi	'	Lat Ida	Feet from the	North/South line	Feet from the	East/West I	1	County
			31N	11W	tom Hol	e Location I	SOUTH of Different From	1750° m Surface	EAST	<u> </u>	AN JUAN
UL or lo	A DO.	Section	Township		Lot Idn	Feet from the	North/South Line	Feet from the	East/West I	ine	County
13 Dedicat	led Acre	15 Joint	or lafill	* Consolidatio	a Code u (Order No.	1	<u> </u>	<u> </u>		
NO ALL	LOWA	BLE WI					UNTIL ALL INT			ONSOLII	DATED OR A
16		N88°	9'W		17	5228.	52'	/ 11			FICATION
.81					/		/ / /		y that the infor lete to the best		ained herein is ledge and belief
2655.18	1										
56				ing Unit nterest					. 1	, O	w.
<u> </u>		uners	attach	ed	/ /	/-/-	/ / /		4	Due	lk_
3,90,00N		J-1				/ X		Signature Lisa L. Printed Name			
NOC	2 /	6.	San and	lta	nk			Agent			
		. dr	- 20 m		N 36.91	1248°	/ / /	7/24/00	<u> </u>	·	
	=		··	SeW	108.02	2865		Date	w=		
	7	ئ ^ا ر ا		5		*/ 9/-	1750' /	> 11	EYOR C that the well li		ICATION
.24		~ · · · · · · · · · · · · · · · · · · ·					/ / /	was ploued fro or under my su	m field notes of spervision, and	f actual sur that the san	veys made by me
2583	3					/ /		1)	est of my belief	•	
2								Date of Survey			
					/	370/	///	Date of Survey Signature and S			er C
W*C						[2]	' / /	2 18	BROADHUA	128	
N00°30'W	4								N METO	X	7 m
Ĉ		N88°5	714			5236	/s· / /	CAMBANA	(Ball	4 5 E	I
		.100 p			1			1 1 2		131	X
						n/c	L-Basiol (W 1.22	AOFE3510H	A'	Ш



December 8, 2008

BLM 1235 LaPlata Highway Farmington, NM 87401

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 BLM surface in San Juan County, NM:

Well	API Number	<u>Lease</u>	<u>Location</u>
Horton 1A	30-045-21955	NMSF-078095-A	SWNE 7-31n-11w
Horton 1B	30-045-30165	NMSF-078095-A	NWSE 7-31n-11w
Horton 1C	30-045-33061	NMSF-078095-A	NENE 7-31n-11w
Horton 1D	30-045-33065	NMSF-078095-A	NESE 7-31n-11w
Horton 2	30-045-11371	NMSF-078039	NENE 22-32n-11w
Horton 2A	30-045-23392	NMSF-078039-B	SESE 22-32n-11w
Horton 3B	30-045-31703	NMSF-078147-A	NENE 13-32n-12w
Horton 5	30-045-22933	NMSF-078095-A	SWNE 7-31n-11w
Horton 7	30-045-21362	NMSF-078039	SWSE 22-32n-11w
Storey 1A	30-045-21957	NMSF-078051-A	SESE 34-32n-11w
Storey 1B	30-045-30164	NMSF-078051-A	SESW 34-32n-11w
Storey 1C	30-045-31704	NMSF-078051-A	NWSE 34-32n-11w

I have attached a copy of this letter for each of the 12 well files. Please call me if you have any questions.

Postage
Certified Fee
Return Receipt Fee
(Endorsement Required)
Restricted Delivery Fee
(Endorsement Required)
Total Postage & 6.0 7

Sireet, Apt. No.:
ar PO Box No.

CERTIFIED®MAIL. RECEIPT
(Domestic Mail.Only. No. Insurance Coverage Provided)

ALL RECEIPT
(Domestic Mail.Only. No. Insurance Coverage Provided)

AUSE

QUICKSE.

ANTA COLOR

Postmant

Postmant

All Restricted Delivery Fee
(Endorsement Required)

Total Postago & Fees

Sent To

Sireet, Apt. No.:
ar PO Box No.

Con. Sireet, Apt. No.:
ar PO Box No.

Sincerely,

Brian Wood

EXHIBITH

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.	11:1	11 1

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