Form C-144 July 21, 2008

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 ho. NM 87505

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fa. 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

| 1220 S St. Francis Dr., Santa Fe. NM 8/505 | Santa Fe, NM 87505 | District Office. | | | |
|---|--|---|--|--|--|
| | d-Loop System, Below-Gradive Method Permit or Closur | | | | |
| 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 alte | | | | | |
| | - | system, below-grade tank or alternative request | | | |
| Please be advised that approval of this request does not relieve environment. Nor does approval relieve the operator of its res | | | | | |
| Operator. HALLADOR PETROLEUM LLP | OGRID# <u>12672</u> | | | | |
| Address 1660 LINCOLN ST., SUITE 2700, DENVER | L, CO 80264 | 2010 DEC 15 108 | | | |
| Facility or well name HORTON 7 | | er ouds all | | | |
| API Number 30-045-21362 OCD Permit Number | | DIST. 8 | | | |
| U/L or Qtr/Qtr O Section 22 Township 32 N Range 11 V | <u>W</u> County <u>SAN JUAN</u> | | | | |
| Center of Proposed Design. Latitude 36.96639° N Longi | tude <u>107.97426° W</u> NAD 🔲 1927 🖂 198 | 83 | | | |
| Surface Owner 🛛 Federal 🗌 State 🔲 Private 🗀 Triba | 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 ☐ I | LLDPE HDPE PVC Other | | | | |
| ☐ String-Reinforced | | | | | |
| Liner Seams: Welded Factory Other | Volume: bbl Dimer | nsions, L'x W'x D' | | | |
| 3. Closed-loop System: Subsection II of 19 15 17 11 ? | NMAC | | | | |
| Type of Operation P&A Drilling a new well Intent) | | which require prior approval of a permit or notice of | | | |
| ☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Hau | d-off Bins 🔲 Other | _ | | | |
| ☐ Lined ☐ Unlined Liner type: Thickness | nul 🔲 LLDPE 🗌 HDPE 🗌 PVC | Other | | | |
| Liner Seams | | | | | |
| 4 | | | | | |
| Volume: 25 bbl Type of fluid produced water | | | | | |
| Tank Construction material single wall fiberglass | | | | | |
| Secondary containment with leak detection Visit | ole sidewalls, liner, 6-inch lift and automatic | c overflow shut-off | | | |
| □ Visible sidewalls and liner □ Visible sidewalls only | y 🔲 Other | | | | |
| Liner type: Thickness mil Hi | | | | | |
| ☐ Alternative Method: | | | | | |
| Submittal of an exception request is required Exceptions | s must be submitted to the Santa Fe Environ | amental Bureau office for consideration of approval. | | | |

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| 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, hospital, 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) | | | | |
|---|--------------------------------|--|--|--|
| 7. 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 Burea consideration of approval. Exception(s). Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval | u 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 acc material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the app office 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 de above-grade tanks associated with a closed-loop system. | ropriate 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 | | | | |
| 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 | | | | |
| 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 | | | | |
| 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 | | | | |
| Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map; Topographic map, Visual inspection (certification) of the proposed site | | | | |
| Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | | | | |
| Within an unstable area Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society, Topographic map | | | | |
| Within a 100-year floodplain - FEMA map | ☐ Yes ☑ No | | | |
| , | , | | | |

Page Fol's

Lorm C-144.

| 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 Fanks) - based upon the requirements of Paragraph (4) of Subsection B of 19 15 17 9 NMAC ☐ Hydrogeologic Data (Femporary 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) |
| 13. |
| Permanent Pits Permit Application Checklist: Subsection B of 19 15 17 9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. I 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 Precboard 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 Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial Alternative Closure Method (Excasions must be submitted to the Santa Fe Environmental Bureau for consideration) |
| is. <u>Waste Excavation and Removal Closure Plan Checklist</u> : (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 ⊠ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC |
| Lorm C-141 ——————————————————————————————————— |

| 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. | | | | | |
|---|-----------------------|--|--|--|--|
| 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 ser \[Yes (If yes, please provide the information below) \[No \] | | | | | |
| Required for impacted areas which will not be used for future service and operations Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H 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 | | | | | |
| 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 south 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. Justic demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance. | 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 obtained from nearby wells | Yes No | | | | |
| 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 | | | | |
| 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 | | | | | |
| 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 | | | | | |
| 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 | | | | | |
| 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 | | | | | |
| 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 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 1 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 canno 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 | 5 17 11 NMAC | | | | |

Pane 4 of 5

| 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) BRIAN WOOD Title CONSULTANT |
| Signature Date 12-9-08 |
| e-mail address brian@permitswest.com Telephone (505) 466-8120 |
| 20. OCD Approval: Permit Application (including chasure plan (X) Closure Plan (only) OCD Conditions (see attachment) |
| OCD Representative Signature: 4/5/2012 Title: OCD Permit Number: |
| 21 OCD Fermit 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 |
| Required for impacted areas which will not be used for future service and operations Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique |
| 24 |
| Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique |
| Site Reclamation (Photo Documentation) On-site Closure Location. Latitude Longitude NAD: 1927 1983 |
| 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) Fitle |
| Signature. Date: |
| e-mail address Telephone |
| |

Form C-144 Off Conscievation Division

Page 3 of 3

Current Situation

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 >100'. Closest reported water depth is the Decker water well which is >6,000' northeast in Section 23. Office of the State Engineer records are attached as Exhibit A.

≈6,243' Decker water well ground elevation - 50' depth to water ≈6.193' water level elevation

6,379' gas well elevation
- 3' depth to bottom of tank
6,376' tank bottom elevation

6,376' tank bottom elevation
- 6,193' water level elevation
≈183' 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 Cox Canyon is over a mile east (Exhibits B & C).
- 3. Tank is not within 300' of any building. Closest buildings are more than 1/4 mile distant (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. (Note that there appears to be an error in the survey plat and OCD records. Based on latitude & longitude, USGS topographic map, and air photograph; well is actually further northwest.)
- 11. Closure notice to the surface owner (BLM) is attached as Exhibit I.

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.



Hallador Petroleum LLP Horton 7 below grade tank proposed closure 800' FSL & 1450' FEL Sec. 22, T. 32 N., R. 11 W. San Juan County, New Mexico API # 30-045-21362 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 JF 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:

| <u>Component</u> | 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,



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 9th day of December, 2008.

Brian Wood, Consultant

API # 30-045-21362

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:

e is: Tim Lovseth Hallador Petroleum LLP 1660 Lincoln St., Suite 2700 Denver, CO 80264 (303) 839-5504, Extension 317

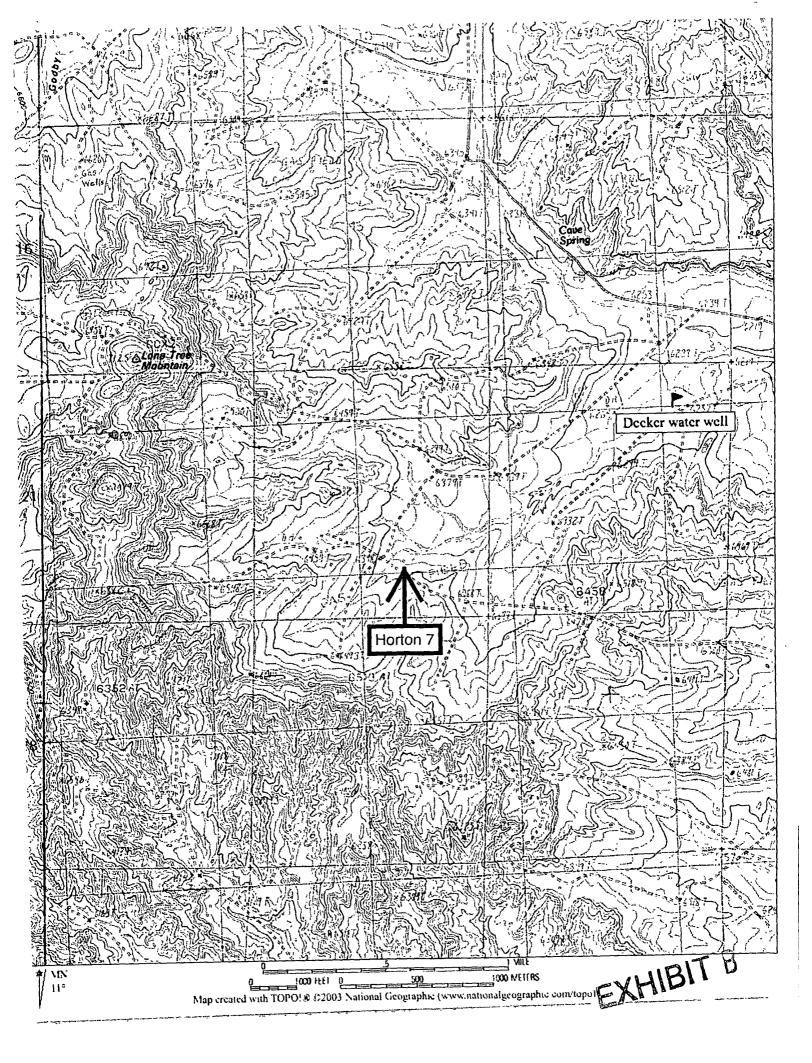


New Mexico Office of the State Engineer POD Reports and Downloads

| | | | OD KCP | | Willow | | | | | | |
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| County: | ominterio (| Basin: 🗲 | · z-mannasppic rimag | es quantipos constante en tra descenden | Nu | mber: | S | uffix: | | | |
| Owner Name: (Fir | rst) | - | (Last) | | | O Non-I | Oomestic | O Domo | estic O A | All | |
| 0 | POD / Surfac | e Data Repo | orte (Avg | Depth to Water | Report | (Water C | olumn Rep | ort) | | | |
| | | CI | ear Form | (IWATERS Men | u) (He | (ql | | | | | |
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| , | | | WATER | R COLUMN RE | PORT 1 | 12/08/20 | 800 | | | | |
| | | | | 3=SW 4=SE) | | | | | | | |
| POD Number | (quarter: | s are pi Rng Sec | | smallest) Zone | x | ¥ | Depth Well | Depth Water | Water Column | (in | feet) |
| SJ 01360 | 32N | 11W 19 | 22 | 20116 | | 1 | 180 | 155 | 25 | | |
| SJ 01327 | 32N | 11W 23 | 2 2 3 | | | | 90 | 50 | 40 | | |
| SJ 00021 | 32N | 11W 23 | 3 | | | | 585 | | | | |
| SJ 00017 | 32N | 11W 24 | 2 | | | | 105 | | | | |
| SJ 00020 | 32N | 11W 29 | 3 | | | | 588 | | | | |
| SJ 00026 | 32N | 11W 33 | 2 | | | | 321 | | | | |

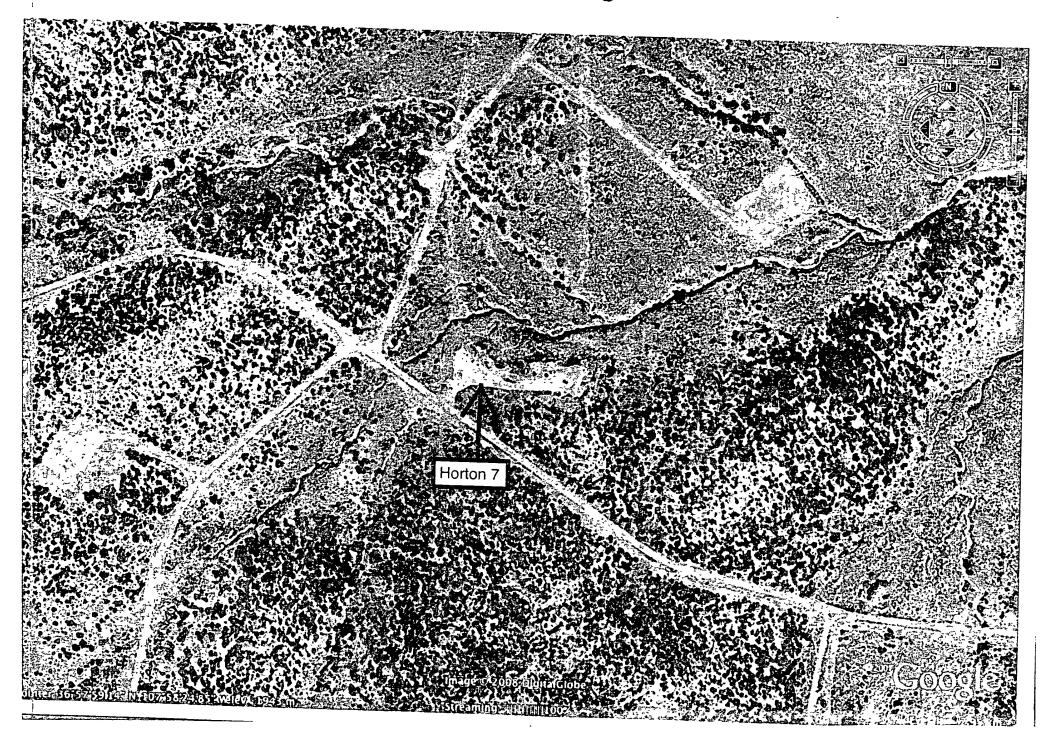
Record Count: 6

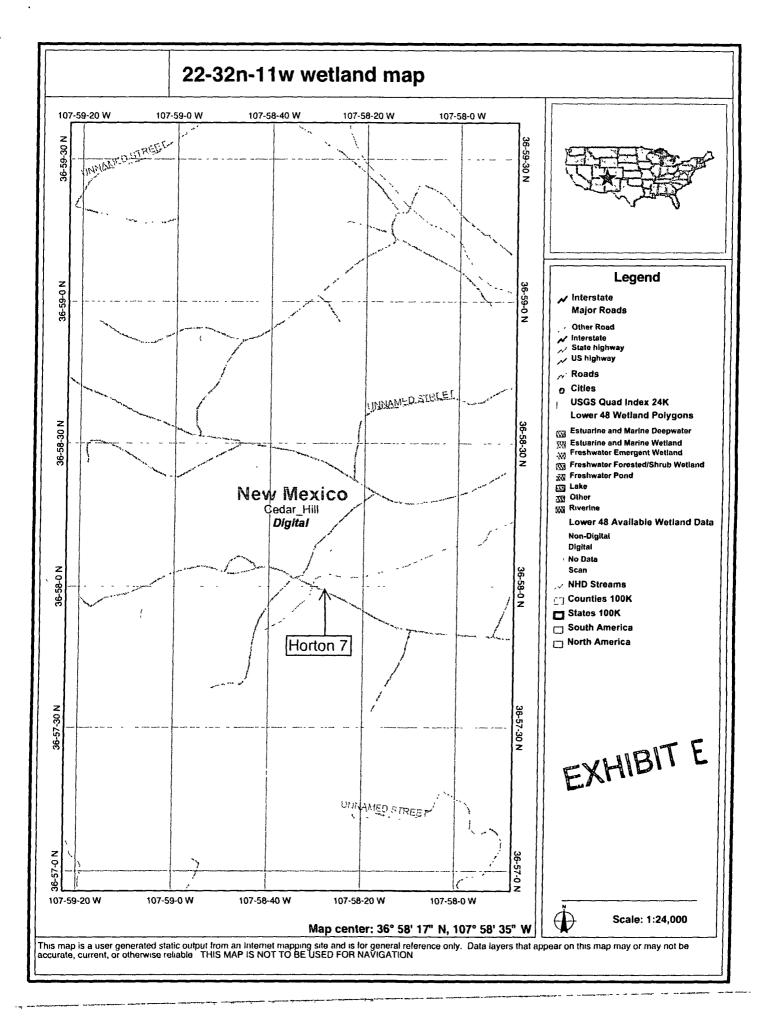
EXHIBIT A



ပ HOTXU

EXHIBIT D





MMQonline Public Version

Mines, Mills & Quarries Commodity Groups

△ Aggregate & Stone Mines

◆ Coal Mines

† Industrial Minerals Mines

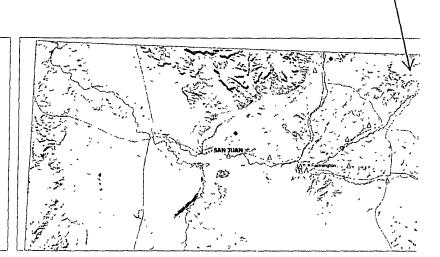
† Industrial Minerals Mills

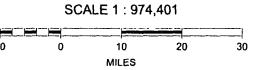
☑ Metal Mines and Mill Concentrate

☐ Potash Mines & Refineries

☐ Smelters & Refinery Ops.

† Uranium Mines

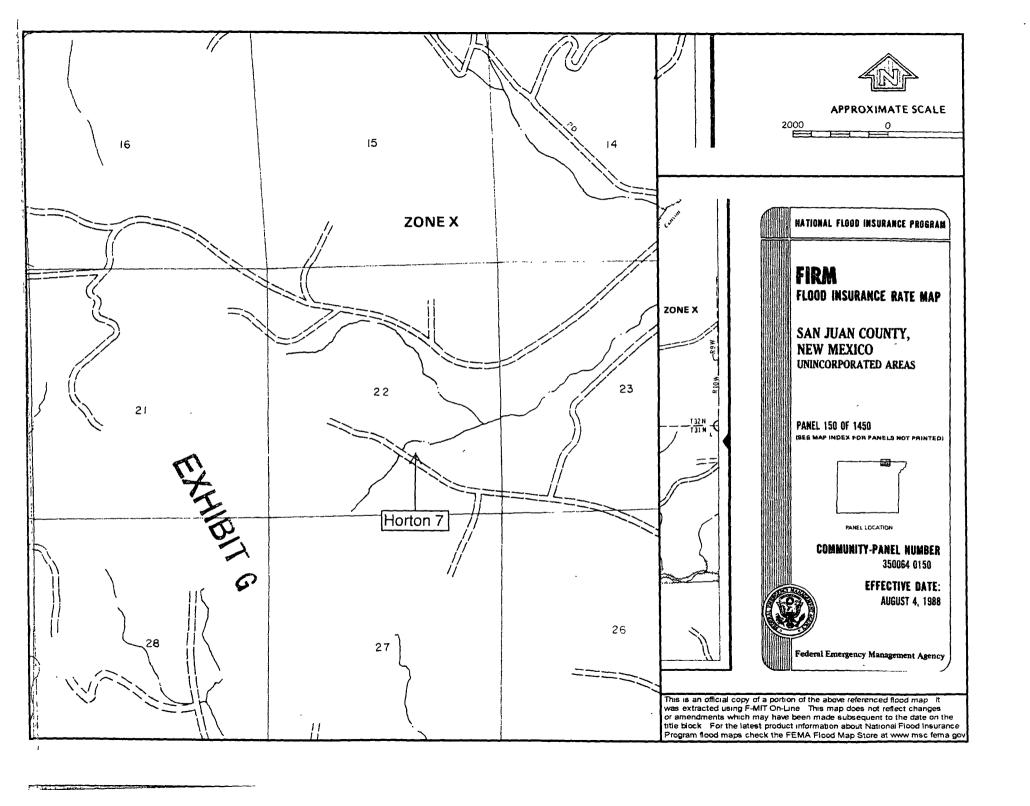






Horton 7

EXHIBIT F



NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACERAGE DEDICATION PLAT

| | OPERATIN | G COMPANY | Leose HORTON | | Well No |
|--------------------------|--------------------------------------|---|------------------------------|---|--|
| _ 1 | Section | Township | Range Count | | |
| O lugi Footage Locati | 22 | 32 NORTH | 11 WEST | SAN JUAN | |
| 800 | feet from the | SOUTH line and | 1450 feet from | the EAST | line |
| unci Level Elev 6379 | Producing F | primation Chills | Poul Blanca | ; × D | edicated Avereage Acre |
| | | | plored pencil or hachure mai | ks on the plat help | |
| f more than | one lease is de | , . | ine each and identify the | • | |
| terest∙and roya | - | , , | | | RELEIVEN |
| f more than communitizat | one lease of di ion, unitization, | fferent ownership is dedic , force-pooling, etc? | cated to the well, have the | interests of all ow | mers been consolidate OCT 24 1973 |
|) Yes (X |) No If o | answer is "yes," type of i | consolidation | | H. CON. COM. |
| cnswer is "no," | " list the owner | s and tract descriptions v | which have actually consoli | dated (Use rever | spest us form if |
| cessary) Wor | king Intere | est unitized - now | circulating to roya | lty | *************************************** |
| o allowable will | be assigned to | the well until all interests | have been consolidated (| oy communitizatio | n, unitization, forced- |
| ioling, or otherv | vise), or until a i | non standard unit, elimino | ating such interests, has be | en appr <mark>oved by th</mark> e | e Commission. |
| | | | , | | |
| | | | ı | CERT | IFICATION |
| | | | | | that the information contain |
| | | | | herein is true ead knowledge and belief | complete to the best of |
| | | | | and the second | Perhaple |
| | | - 4 - 4 - 4 . | _ + | Nome !! | ,/ V |
| 1 | | | | Name W. K. AR President | BUCKLE |
| | | | <u> </u> | Position | |
| | | | | Kimbark Oper Company | ating Co. |
| | | | | October 15. | 1973 |
| 1 . | † - + · | - + - + - + : | | Date | |
| - | 1 | 22_ | | | |
| ! | | | | | |
| | | | | l hanka a sid a | Lander at the second |
| | | | | • | |
| - + - | | | - + - N | this plat was plotte | d from field nates of ect |
| | + - + | | - + - \ N | this plat was plotte surveys made by me that the same is true | d from field notes of ecti or under my supervision, e and correct to the best of (|
| - + - | | | - + - N | this plat was plotte surveys made by me | d from field notes of ecti or under my supervision, e and correct to the best of (|
| <u> </u> | | | | this plot was plotte surveys made by me that the same is true knowledge and belief | |
| | | | - + - N | this plot was plotte surveys made by me that the same is true knowledge and belief | d from field notes of ecti or under my supervision, e and correct to the best of (|
| | N 36.96639 | | | this plot was plotte surveys made by me that the same is true knowledge and belief | d from field notes of ects or under my supervision, a and correct to the best of a |
| | N 36.96639 | | 2501 - Fastesiani | this plot was plotte surveys made by me that the same is true knowledge and belief the Surveyed E | of from field nates of ection ender my supervision, e and correct to the best of the correct to the corre |
| W | N 36.96639 | | 1501 | this plot was plotte surveys made by me that the same is true knowledge and belief the Surveyed E | of from field notes of ect or under my supervision, a and correct to the best of tober 1973 |



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:

| <u>Well</u> | 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.

Sincerely,

Brian Wood

EXHIBITI

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 | // / |

By:

Victor 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