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.

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

Proposed Alternative Method Permit or Closure Plan App	plication		
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-g	rade tank or alternative request		
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental and the complex of the operator of its responsibility to comply with any other applicable governmental and the complex of the operator of its responsibility to comply with any other applicable governmental and the complex of the co	f surface water, ground water or the authority's rules, regulations or ordinances		
Operator HALLADOR PETROLEUM LLP OGRID #: 12672			
Address 1660 LINCOLN ST., SUITE 2700, DENVER, CO 80264	20° 21 032 CVD		
Facility or well name HORTON 1A (south tank)	A TIME CONTRACTOR OF THE PROPERTY OF THE PROPE		
API Number. <u>30-045-21955</u> OCD Permit Number.	0157, 3		
U/L or Qtr/Qtr G Section 7 Township 31 N Range 11 W County. SAN JUAN			
Center of Proposed Design. Latitude 36.91505° N Longitude 108.02845° W NAD. ☐ 1927 ☑ 1983			
Surface Owner			
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	x D :		
Closed-loop System: Subsection H of 19.15.17 11 NMAC Type of Operation P&A Dulling a new well Workover or Dulling (Applies to activities which require printent) Drying Pad Above Ground Steel Fanks Haul-off Bins Other Lined Unlined Liner type Thickness mil LLDPE HDPE PVC Other Liner Seams. Welded Factory Other			
Below-grade tank: Subsection I of 19 15 17 11 NMAC Volume 70 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-o Visible sidewalls and liner Visible sidewalls only Other Liner type Thickness mil HDPE PVC Other			
Submittal of an exception request is required - Exceptions must be submitted to the Santa Fe Environmental Bureau of	ffice for consideration of approval		

Fencing: Subsection D of 19.15 17 11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or always)			
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)			
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 apply 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 drabove-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	☐ 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, Acrial 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		
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			
 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		
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Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19 15 17 9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are			
attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19 15.17 9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19 15 17 9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC Design Plan - based upon the appropriate requirements of 19 15 17 11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC			
and 19 15 17 13 NMAC Previously Approved Design (attach copy of design) API Number or Permit Number			
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15 17 9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.			
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19 15 17 9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15 17 10 NMAC Design Plan - based upon the appropriate requirements of 19 15 17 11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15 17.9 NMAC			
and 19 15.17.13 NMAC			
☐ Previously Approved Design (attach copy of design) API Number:			
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 Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19 15 17 11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15 17 12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19 15 17 11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Erosion Control Plan 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)			
15.			
Waste Excavation and Removal Closure Plan Checklist: (19 15.17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. ☐ Protocols and Procedures - based upon the appropriate requirements of 19 15 17 13 NMAC ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)			
 Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC 			
Corm C-141			

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Instructions: Please indentify the facility or facilities for the disposal of liquids, 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 of Yes (If yes, please provide the information below) No			
Required for impacted areas which will not be used for future service and operation Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	requirements of Subsection H of 19 15 17 13 NMA L of 19 15 17 13 NMAC	С	
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 source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.			
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 ☐ 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 signalake (measured from the ordinary high-water mark). - Topographic map, Visual inspection (certification) of the proposed site	nificant watercourse or lakebed, sinkhole, or playa	☐ Yes ☐ No	
Within 300 feet from a permanent residence, school, hospital, institution, or church - Visual inspection (certification) of the proposed site, Aerial photo; Satellite		☐ Yes ☐ No	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less watering purposes, or within 1000 horizontal feet of any other fresh water well or sp. - NM Office of the State Engineer - iWATERS database, Visual inspection (or	ring, in existence at the time of initial application.	☐ Yes ☐ No	
Within incorporated municipal boundaries or within a defined municipal fresh water adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality, Written approva	·	☐ Yes ☐ No	
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map; Visual	inspection (certification) of the proposed site	☐ Yes ☐ No	
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining a	and Mineral Division	☐ Yes ☐ No	
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology Society, Topographic map	& Mineral Resources, USGS; NM Geological	☐ Yes ☐ No	
Within a 100-year floodplain FEMA map		☐ Yes ☐ No	
18 On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the	following items must be attached to the closure pla	n Please indicate	
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 17.11 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 I of 19 15 17 13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC			

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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 Fittle CONSULTANT \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Signature Date <u>12-8-08</u>
e-mail address <u>brian@permitswest.com</u> Felephone (505) 466-8120
20. OCD Approval: Permit Application (including plasure plan) properties of the plan (only) OCD Conditions (see attachment)
OCD Representative Signature: Approval Date: 3/0/2052 Title: OCD Permit Number:
71.
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-jurred 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 Longitude NAD. 1927 1983
Operator Closure Certification:
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan
Name (Print) Fitle:
Signature Date:
e-mail addressTelephone:

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Current Situation

There are two (25 & 70) barrel single wall fiberglass tanks. The 25 barrel tank is west of the well head. The 70 barrel tank is south of the well head. Side walls are visible. Tanks are surrounded by hog wire fences. There is no secondary containment. The tanks have nylon net tops. After removal of the existing tanks, 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 $\approx 5,500$ ' 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 40' higher than the ground level elevation (6,256') at this gas well. Ground water is more than 13' below ground level at the gas well based on a 1999 excavation conducted by PNM (Exhibit B). Ground water is believed to be more than 100' below the bottom of the tanks based on depth (479') 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 >1/4 mile south (Exhibit C).
- 3. Tank is not within 300' of any building (Exhibits C & D). Closest buildings



(houses) are >3/4 mile northwest.

- 4. Tank is not within 1,000' of any fresh water well or spring (Exhibits A & C).
- 5. Tank is not within municipal boundaries or within a municipal fresh water well field (Exhibits A & C).
- 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 13, 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 surfaçe 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 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 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.



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	<u>Test Method</u>	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 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
now seeded photograph of seeded area
photograph of secucularca



PAGE 5

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 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:

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



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	,.,
New Mexico Office of the State Engineer POD Reports and Downloads	
Township 31NI Range. 11W Sections 7	
NAD27 X Zone Search Radius	
County: Basin: Number: Suffix:	
Owner Name: (First) UNon-Domestic Domestic All	
(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=NN 2=NE 3=SN 4=SE) (acre ft per annum) (quarters are biggest to smallest X Y are in DB File Nbr Use Diversion Owner POD Number Source Tws Rng Sec q q Z Zone X	
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	١
NAD27 X: Y: Zone: Search Radius:	
County: Basin: Suffix: Number: 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 12/07/2008	
(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) POD Number Tws Rng Sec q q q Zone X Y Well Water Column SJ 03488 31N 12W 01 3 3 2 150	(feet)
<u>SJ 03468 </u>	

Record Count: 9

_ 31N

_ 31N

_ 31N

_ 31N

_ 31N

31N

12W 01

12W 01

12W 01

12W 01

12W 01

12W 01

_ 31N 12W 01 4 4

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4 3 4

SJ 02034

SJ 03134

SJ 03022

SJ 01660

SJ 01649

SJ 03660

SJ 02099

EXHIBIT A

30

60

45

59

28

240

115

85

80

490

320

220

70

95

55

20

250

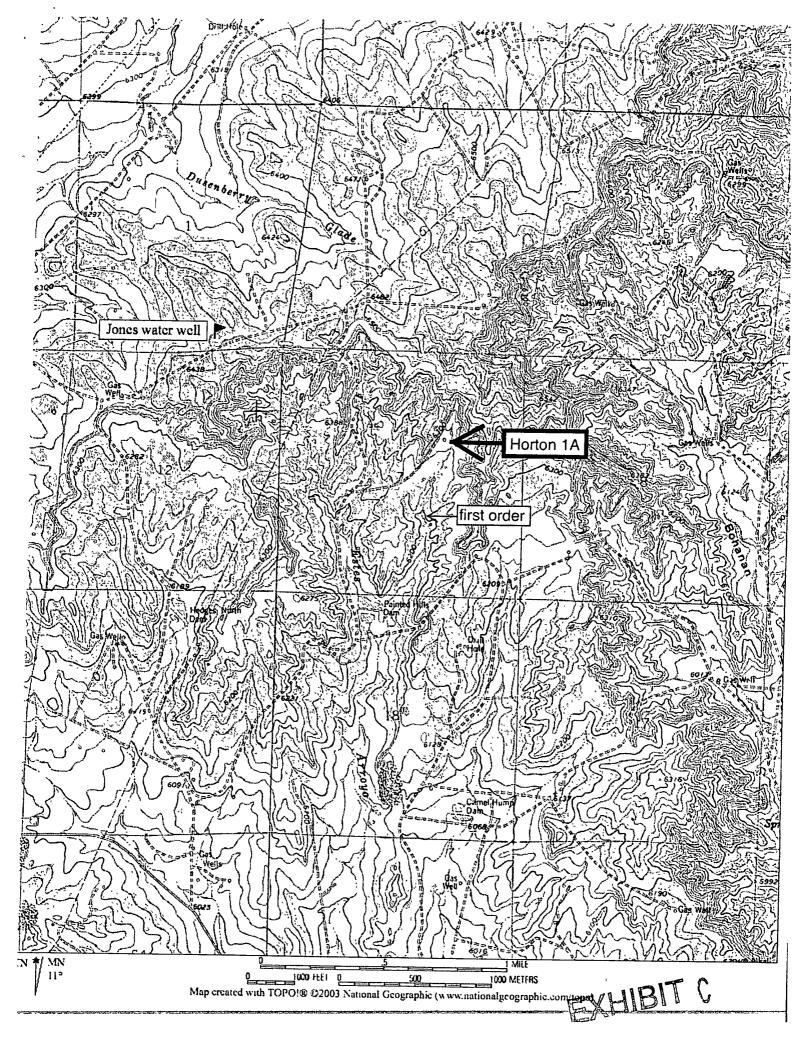
275

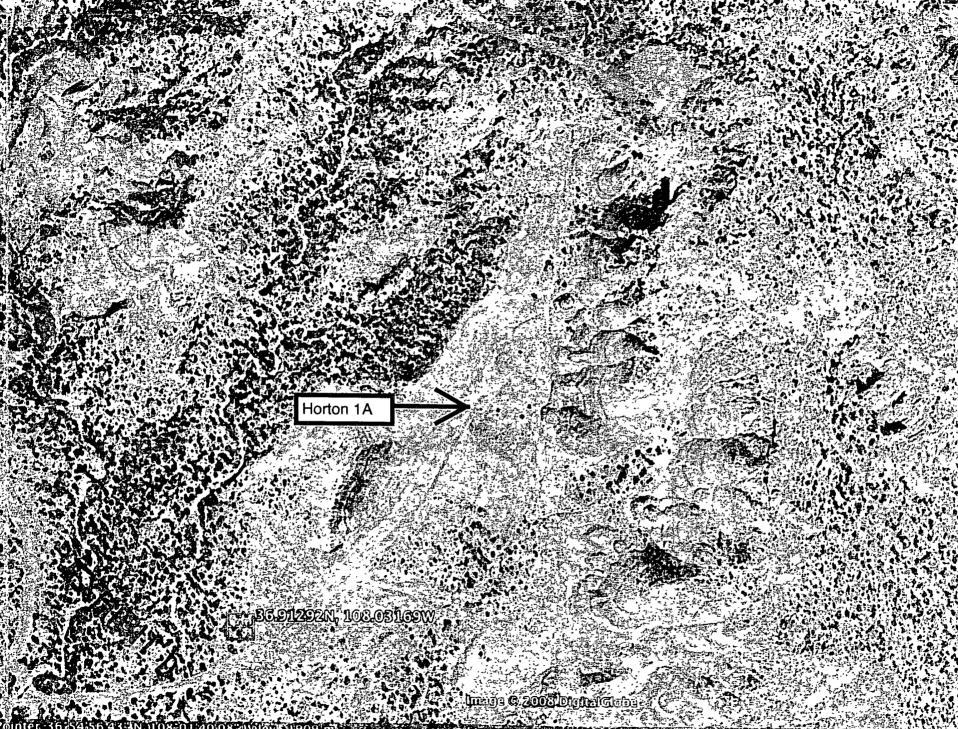
161

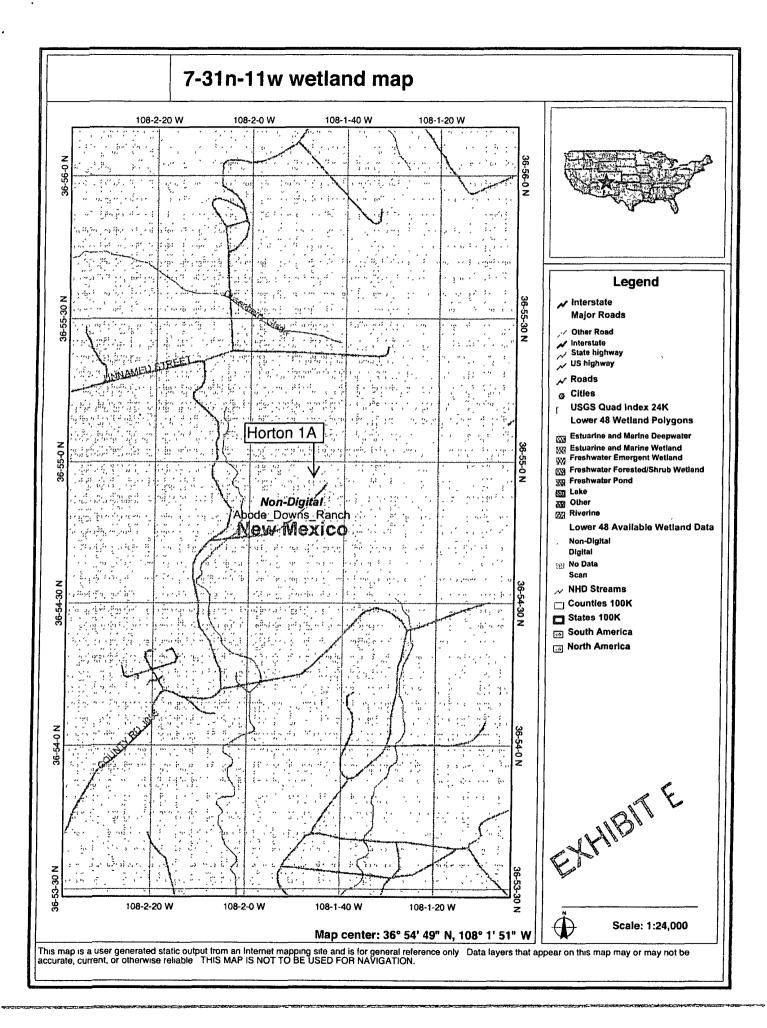
42

ict I Box 1980, Heldes HM	State of New Mexico Energy, Minerals and Natural Resources Department	SUBMIT I COPY TO APPEOPELATE OUTTIECT OFFICE AND COPY TO
CT II Drawer GD Avterus NM 88221	OIL CONSERVATION DIVISION	13 1 Eddinkong
uci ID Pilo Brazos Rd, Ages, NM 87410	2040 South Pacheco Street Senta Fe, New Mirzon 87505	OR DIM
	PIT REMEDIATION AND CLOSURE REPORT	DIRITY 3
Operator. PN	M Gas Services (Kimbark) Telephone: 324-3764	
Address 603 W	Elm Street Farmington, NM 87401	
Facility or Well Name:	Horton #1A	
Location: Unit	G Sec 7 T 31N R 11W County S	an Juan
Pit Type: Separ	ator Dehydrator 😿 Other	
Land Type: BLM	State _ Fee _ Other	
Pit Location:	Pit dimensions. length 15 width 15 depth	2 '
(Attach diagram)	Reference wellhead 🔂 other	
1 [Footage from reference 81	
	Direction from reference 45 Degrees	<u> </u>
	C3	<u> 20</u>
Depth to Ground Water (Varies) distince free consuminants to sectional high value christian of ground outer	50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points) 0
Wellhead Protection A	LFEA: Yes No	(20 points) (0 points) 0
domestic water source or, less than 1,0 feet from all other water sources)		
Distance to Surface W (Hormonal distance to percental lates poods rivers, streets, irrigates	200 feet to 1,000 feet Greater than 1,000 feet	(20 points) (10 points) (0 points)
casels and disches	RANKING SCORE · (TOTAL POINTS):	0

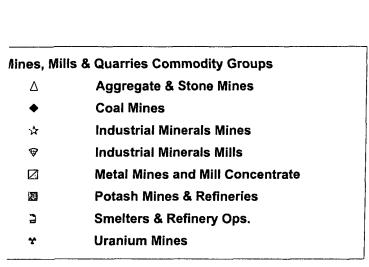
Horton #1A Date Remediation Started:	05/19/1	999	Date Completed:	05/19/1999
Remediation Method:	Excavation	х	Approx. Cubic Yard	659
(Check all appropriate	Landfarmed	x	Amount Landfarmed (cubic	yds) <u>600</u>
sections)	Other 59 cu	yda overburden		,
Remediation Location: (i.e., landfarmed onsite, name and location of offsite faculty)	Onsite	x	Offsste	
Backfill Material Location:				
General Description of Reg Excavated contaminated so to 12". Soil was senated by o	ii to a pit size of 3	7 X 37 X 13 and lan till soil met regulator	dfarmed soil onsite within a berme r levels.	d area at a depth of 6"
Ground Water Encountere	xd: No	<u> </u>	Yes Depti	·
Final Pit Closure Sampling:	Sample Location	on 5 pt compos	ute - bottom.	
(if multiple samples, attach sample result and diagram of sample locations and depths)	Sample depth	05/19/1999	Sample tune	2 15 00 PM
	Sample Results	1	_	
	Benzer	пе (ррш)		
	Total I	STEX (ppm)		
	Field h	eadspace (ppm) _	5.4	
	ТРН (ррт)	< 25 00	Method 8015	В
Vertical Extent (ft)		_ Ri	isk Analysis form attached Yes	No <u></u>
Ground Water Sample:	Yes	No	(If yes, see attached G	roundwater Site
I HEREBY CERTIFY TH KNOWLEDGE AND MY		MATION ABOVE IS	TRUE AND COMPLETE TO THE	HE BEST OF MY
DATE October 28, 1 SIGNATURE 7	999 MaurunOL	10 a a m 1	PRINTED NAME Maure AND TITLE Project	en Gannon t Manager

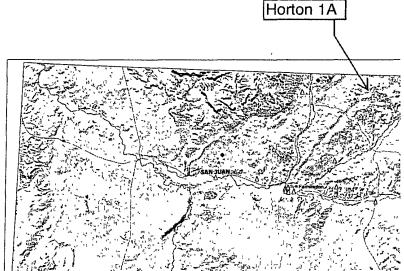






MMQonline Public Version

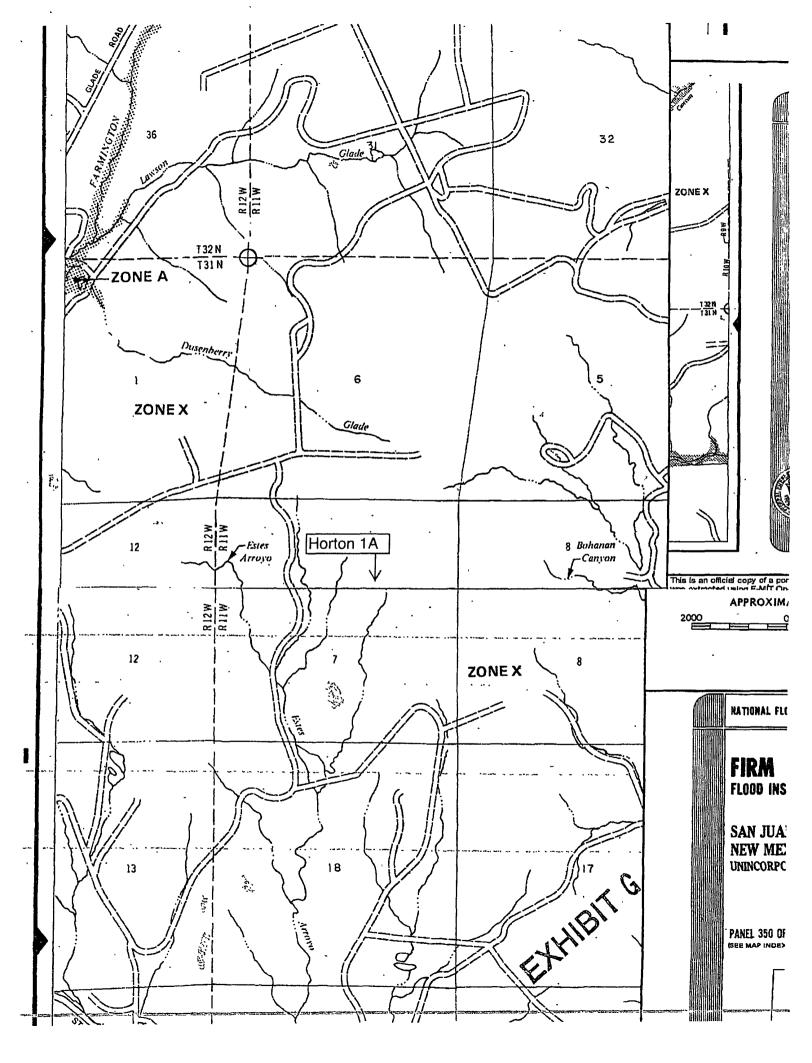




SCALE 1: 974,401 10 0 10 20 30 MILES



EXHIBITE



NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION FLAT

Porm (*-1 12 Supersedes C-128 Effective 1-1-65

		All distances must be	from the outer houndaries o	f the Section	pr		
Operator KTMBARK	OPERATING	COMPANY	L ease HORTON		Woll :		
Unit	wellen	Township	Range	County			
G	<u> 7</u>	31 NORTH	11 WEST	SAN JUAN	manata sa sa managan ang sa sa managan man da sa		
1850		ORTH line one	1690 to	et from the EAST	line		
Ground Lyrel I lev	. Producing For	m ition	Fool 4.4	1	Dedicated Agreenges		
6256		RDE-DAKOTA B	Blanco 1	E Basen	320 Acres		
1. Outline the acreage dedicated to the subject well by colored pencil or hachuse 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 consoli-							
dated by communitization, uniteration, force-pooling, etc?							
Yes No If answer is "yes," type of consolidation							
If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)							
No allowa	ble will be assigne	d to the well until al	l interests have been	consolidated (by con	munitization, unitization,		
forced-poo	oling, or otherwise)	or until a non-standa	rd unit, eliminating suc	h interests, has been	approved by the Commiss-		
91011.	PENA						
/ / 8	[PTIAED]	111111		1717	CERTIFICATION		
	1075			I hereby	certify that the information con-		
DE	C 23 1975	-	-		rein is true and complete to the		
OIL	CON, COM.	5	8	best of m	y knowledge and belief. i		
	DIST 3		183	3	<u> </u>		
				illa P	ter K. Arbuckle		
	. I transla	- - -	1	1 - Other.			
	11 barrel tank		1690		ident		
1	N 36.91522° W 108.02847°			Company Kimb	oark Operating Co.		
	1 100.02047		^	1 ne			
	,	71111	11/1/11/11	1/11 - 12/1	9/75		
	1	-		- And	ora		
-	1			_ 1	certify that the well locurion		
	1		rel tank .91505°	J '	this plat was plotted from the sector of the		
	1		.02845°	3	supervision, and that the con-		
	1	VV 100	.020-10		nd correct to the best of my and helief		
	· 				CIMI DETIES		
	i	*****	HIBIT	—	.!		
	1	Manusco .	1116	1111			
		-		7,,10	December 1975		
	Þ			1	OL		
•	i L	Ξ		130m	U / LOSE		
				Certificate N	nes P. Leese		
330 660 9	1 1420 1650 1960	2810 2840 2000	1500 1000 500		1463		



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>	<u>API Number</u>	<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.

CERTIFIED MAIL RECEIPT

(Domestic Mail Only, No insurance coverage provided)

For delivery information visit out website at www. department of the control o

Brian Wood

Sincerely

EXHIBIT

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.

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