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 Fc, 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

947

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

Proposed Alternative Method Ferrint of Closure Plan A	<u>application</u>			
Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method				
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, belo	ow-grade tank or alternative request			
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable government.	on of surface water, ground water or the			
Operator HALLADOR PETROLEUM LLP OGRID # 12672				
Address. 1660 LINCOLN ST., SUITE 2700, DENVER, CO 80264	ROVD DEC 15 '08			
Facility or well name HORTON 3	or coms. Fiv.			
API Number <u>30-045-11448</u> OCD Permit Number:	ಸ್ಪುಡಿಫೊಟ್ಟ್ "ಪೂಟ್ಟಿಸಿದ ಟಿ ಇ.ಎ. ಕಿ. ಟಿ.ಎ. " ಅ. ಇ.			
U/L or Qtr/Qtr G Section 13 Township 32 N Range 12 W County SAN JUAN				
Center of Proposed Design. Latitude 36.98752° N Longitude 108.04360° W NAD: ☐ 1927 ☑ 1983				
Surface Owner.				
Pit: Subsection F or G of 19.15 17 11 NMAC Femporary. 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 Closed-loop System: Subsection II of 19 15 17 11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which requirement) Drying Pad Above Ground Steel Fanks Haul-off Bins Other Lined Unlined Liner type: Flickness mil LLDPE HDPE PVC Other	W Lx D L re prior approval of a permit or notice of			
Liner Seams				
Secondary containment with leak detection Other				
s. Alternative Method:				
Submittal of an exception request is required Exceptions must be submitted to the Santa Fe Environmental Burea	au office for consideration of approval			

- 1) H (- (miser walter) friendly .

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)			
Netting: Subsection E of 19 15 17 11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting □ Other Monthly inspections (If netting or screening is not physically feasible)	,		
8. Signs: Subsection C of 19 15 17 11 NMAC □ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers □ Signed in compliance with 19 15 3.103 NMAC			
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19 15 17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s) Requests must be submitted to the appropriate division district or the Santa Fe Environmental Burea 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 acc material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approach 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.	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 ☐ NA		
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock vatering 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			
Vithin incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance dopted 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	☐ 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		
/thin 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		

Porm C-141 Dil Conservation Division

10 20 2013

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 12 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 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
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 Closure Plan - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC
Proposed Closure: 19 15 17 13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type. Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Fank 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)
Naste Excavation and Removal Closure Plan Checklist: (19 15.17.13 NMAC) Instructions: Each of the following items must be attached to the flowure plan. Please indicate, by a check mark in the box, that the documents are attached. □ Protocols and Procedures - based upon the appropriate requirements of 19 15 17 13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC □ Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC
Lorm C-144 Oil-Conscientary Division Tage 3 of 5

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.	Steel Tanks or Haul-off Bins Only: (19 15 17 13 drilling fluids and drill cuttings. Use attachment if	D NMAC) more than two		
Disposal Facility Name	Disposal Facility Permit Number			
Disposal Facility Name:	Disposal Facility Permit Number			
Will any of the proposed closed-loop system operations and associated activities o 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				
17. Siting Criteria (regarding on-site closure methods only): 19 15 17 10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the provided below. Requests regarding changes to certain siting criteria may required considered an exception which must be submitted to the Santa Fe Environmenta demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC	re administrative approval from the appropriate diss Il Bureau office for consideration of approval. Just	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 - tWATERS database search, USGS, Database search, USGS	a 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; Dat	a 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 - (WATERS database search; USGS; Dat	a obtained from nearby wells	Yes No		
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signake (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 s - NM Office of the State Engineer - iWATERS database, Visual inspection (pring, 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 approve	·	☐ Yes ☐ No		
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map, Visua	il 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 Society, Topographic map	& Mineral Resources, USGS, NM Geological	☐ Yes ☐ No		
Within a 100-year floodplain. - FEMA map		☐ Yes ☐ No		
On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19 15.17 13 NMAC Construction/Design Plan of Femporary 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 I 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 I of 19.15 17 13 NMAC				
Lorm C-114 Oil Conservation F	Herona Page Tof	and all the second seco		

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>12-10-08</u>
e-mail address brian@permitswest.com Telephone (505) 466-8120
OCD Approval: Permit Application (including clubure plan) Cliffcure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature: SNATO / Kelly Approval Date: 3/89/2012 Title: 6 Mp hance Ochice 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:
22. 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
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) Title.
Signature Date
e-mail address Felephone

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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 estimated to be >100'. Closest reported water depth is the Decker water well which is $\approx 7,500$ ' southeast in 19-32n-11w and is in the San Jose Formation. Next closest well is the Wayne well which is $\approx 9,200$ ' southwest in 23-32n-12w and is in the Nacimiento Formation, which is the same surface formation at this gas well. Office of the State Engineer records are attached as Exhibit A. Exhibit B shows the well locations. (There are no closer wells in Colorado.)

≈6,605' Decker water well ground elevation
- 155' depth to water
≈6.450' San Jose water level elevation

6,182' Wayne water well elevation
- 60' depth to water
6,122' Nacimiento water level elevation

6,454' gas well elevation

- 3' depth to bottom of tank

6,451' tank bottom elevation

- 6,122' Nacimiento water level elevation

≈329' depth to water

No water was found when Hallador excavated an 8' deep pit in 2003 (Exhibit C).



- 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 Jaquez Arroyo is $\approx 6,000'$ west (Exhibits B & D).
- 3. Tank is not within 300' of any building. Closest buildings are more than 1/4 mile distant (Exhibit E).
- 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 F).
- 7. Tank does not overly a mine (Exhibit G).
- 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 H).
- 10. C-102 is attached as Exhibit I.
- 11. Closure notice to the surface owner (Roddy) is attached as Exhibit J.

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.



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:

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,



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



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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 10th day of December, 2008.

Brian Wood, Consultant

Permits West, Inc.

37 Verano Loop, Santa Fe, NM 87508

(505) 466-8120

FAX: (505) 466-9682

Cellular: (505) 699-2276

The operator's representative is:

Tim Lovseth

Hallador Petroleum LLP

1660 Lincoln St., Suite 2700

Denver, CO 80264

(303) 839-5504, Extension 317



New Mexico Office of the State Engineer POD Reports and Downloads

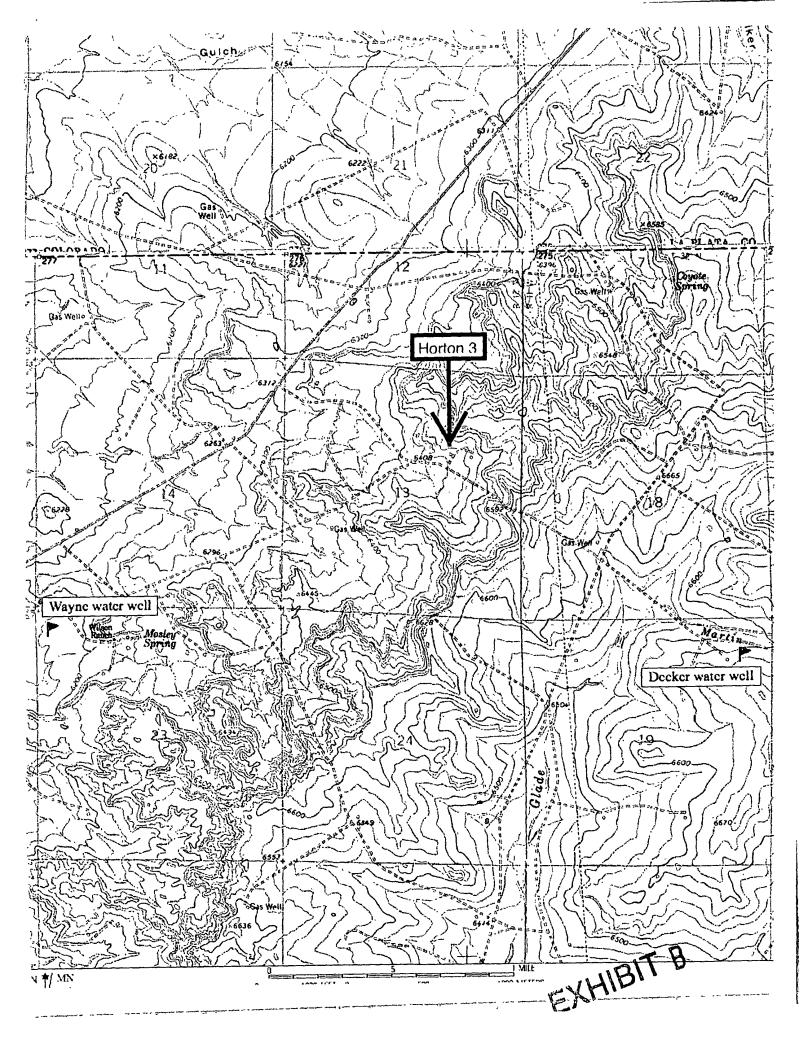
			}	
Township: [32N] Range: [12W] Sections:	777			***************************************
NAD27 X: Y: Zone: Search	ch Radius:			
County: Basin: Property Number:	Sı	uffix:		
Owner Name: (First) (Last) ONon-I	Domestic	ODomo	estic O A	All _
(POD / Surface Data Report) (Avg Depth to Water Report) (Water C	Column Rep	ort		
(Clear Form) (iWATERS Menu) (Help)		<u></u>		
Cital Tolling (MAZIO Mello) (Melp)			in in the same and the same and the same	
WATER COLUMN REPORT 12/10/20	800			
(quarters are l=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)	Depth	Depth	Water	(in feet)
POD Number Tws Rng Sec q q q Zone X Y	Well	Water	Column	,
<u>SJ 01213</u> 32N 12W 18 2 3 4	640	20	620	
SJ 01212 32N 12W 18 4 1 3	43	5	38	
<u>SJ 03583</u> 32N 12W 23 1 1 1 SJ 00055 32N 12W 25 2	167	60	107	
<u>SJ 00055</u> 32N 12W 25 2 <u>SJ 02110</u> 32N 12W 28 2 1 4 W 391500 2170000	504 171	0.0	0.1	
SJ_01106 32N 12W 35 3 4	180	90 115	81 65	
Record Count: 6				
w Mexico Office of the State Engineer				12/10/08 8·20 AM
New Mexico Office of the State Engineer POD Reports and Downloads				
Township: 32N Range: 11W Sections:		1		Annua.
NAD27 X: Y: Zone: Search	n Radius:			
County: Basin: [Summarian Number:]	Sut	ffix:	-	
Owner Name: (First) (Last) ONon-D	omestic	O Domes	tic ⊙ Al	1
(POD / Surface Data Report) (Avg Depth to Water Report) (Water Co	olumn Repo	1	Ą	
(Clear Form) (iWATERS Menu) (Help)			W) '
WATER COLUMN REPORT 12/10/20	08	~		
(ananhana ana law) 2-w 3-cu 4-cu				
(quarters are l=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)	Depth	Depth	Water /	in feet)
OD Number Tws Rng Sec q q q Zone X Y	-	_	Column	10 1000)
3J 01360 32N 11W 19 2 2	180	155	25	
32 N 11W 23 2 2 3	90	50	40	
32N 11W 23 3	585			
20017 200 116 24 2	105			

- 588--

32N 11W 29 3

SJ 00020

SJ 00026



District J 1625 N. French Dr., Holobs, NM 88240

State of New Mexico

Submit I copy to

Q

IT THE LINE OF THE PROPERTY OF	1220 South St. Francis Dr Santa Fe, NM 87505	District Office and I copy to the Santa Fe Office (Revised 3/9/94)
30-045-11448 PIT REM	EDIATION AND CLOSURE REPORT	
i Operator <u>Hallador Petroleum, L.L.P</u>	Telephone <u>1-800-839-5</u> ;	506
Address 1660 Lincoln Street, Denv	er, CO 80264	
facility Or Horton 3		
Well Name		
Location. Unit G Sec 13, T 32N, R Pit Type: Separator X Dehy	12W, County San Juan, NM drator Other , Fee Other	1456 00 00 00 00 00 00 00 00 00 00 00 00 00
Land Type BLM X , State	Fee Other	ERE WILLIAM
Pit Location Pit dimensions. length Attach diagram) Reference wellhead Footage from reference	1	
Direction from reference	ce. 35 Degrees West of North	
Depth To Ground Water	Less than 50 feet No	(20 points)
Vertical distance from	50 feet to 99 feet	(10 points)

Depth To Ground Water	Less than 50 feet No	(20 points)
Vértical distance from	50 feet to 99 feet	(10 points)
ontaminants to seasonal	Greater than 100 feet	(0 points)
igh water elevation of		Q
round water)		
1		

Vellhead Protection Area. (20 points) Less than 200 feet from a private No (0 points) omestic water source, or, less than 000 feet from all other water sources)

nstance To Surface Water Less than 200 feet (20 points) lorizontal distance to perennial 200 feet to 1000 feet (10 points) kes, ponds, rivers, streams, creeks, Greater than 1000 feet Yes (0 points) rigation canals and ditches.)

RANKING SCORE (TOTAL POINTS).

Date Remediation Started. __10/1999 Date completed 6/2003 Remediation Method Excavation _ Approx cubic yards 266 (Check all appropriate sections.) Landfarmed Insitu Bioremediation Other Remediation Location. Onsite Landfarmed Offsite (1 e. landfarmed onsite, name and location of offsite facility) General Description of Remedial Action. Contaminated soils were excavated from pit area to a bedrock (shale) at approx. 8 feet. Recovered soil was distributed on the location and plowed and tilled periodically over a two year period. Ground Water Encountered: No X Final Pit Sample location Horton 3, pit excavation bottom Closure Sampling: Sample depth 1' below excavated bottom approx. 8' BGS (if multiple samples, Sample Date 11/09/00 Sample time 1150 attach sample results Sample Results and diagram of sample Benzene(ppm) NA locations and depths) Total BTEX(ppm) NA Field headspace(ppm) 0 0 TPH 50 mg/Kg Sample location Horton 3, side wall Sample depth 3-4' BGS Sample Date 11/09/00 Sample time 1125 Sample Results Benzene(ppm) NA Total BTEX(ppm) NA Field headspace(ppm) 0.0 TPH 210 mg/Kg Ground Water Sample. No X (If yes, attach sample results) As an Agent for Hallador, LLP, I hereby certify that the information above is true and complete to the best of my knowledge and belief. Printed Name: John Hagstrom and Title. Environ. Technician

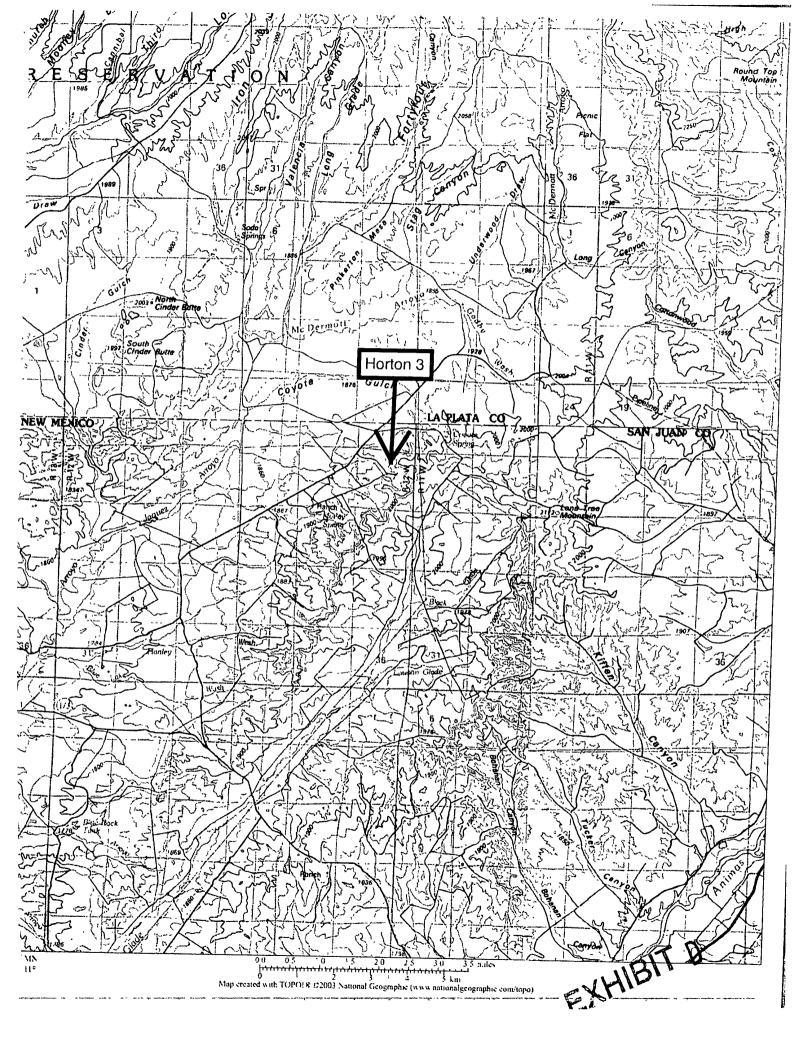
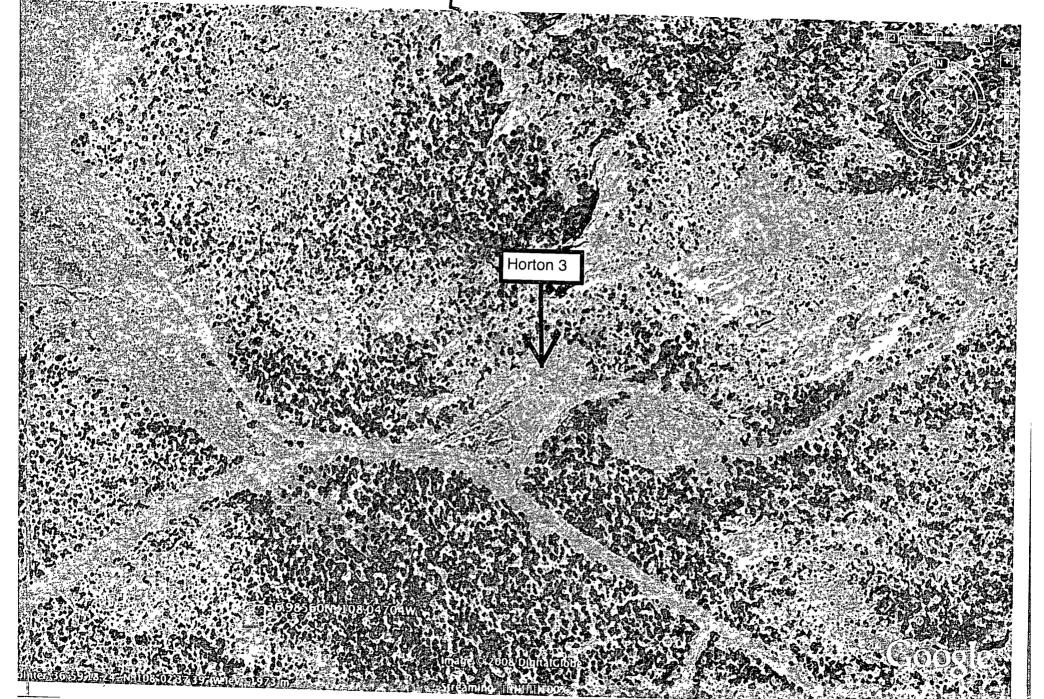
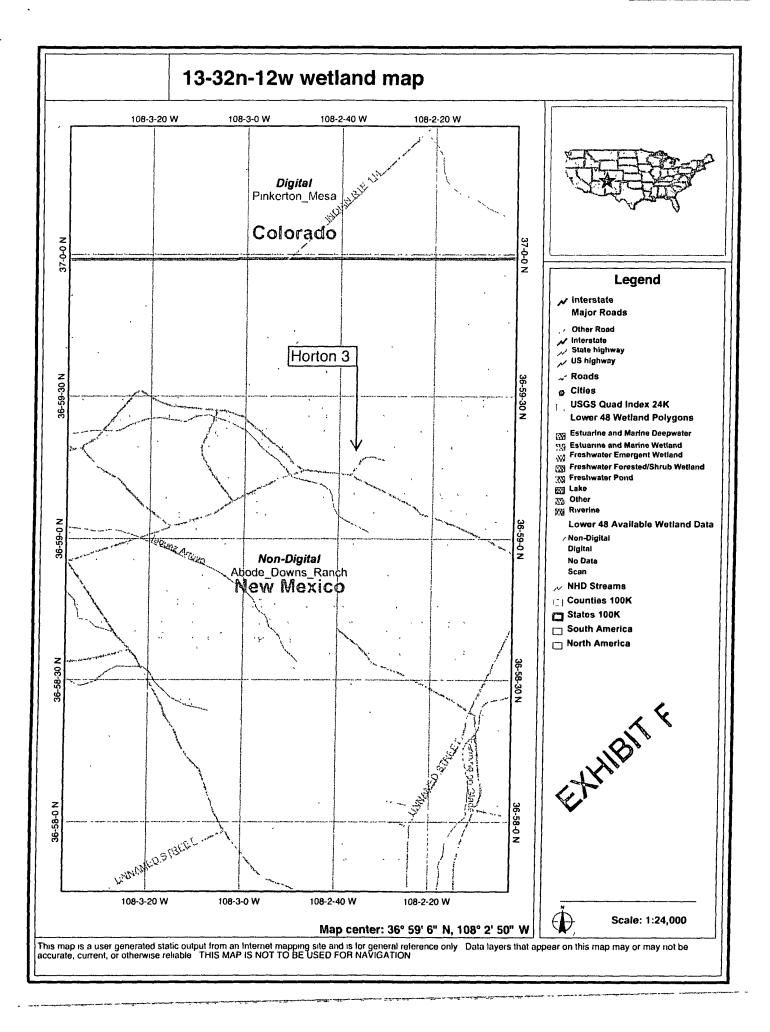


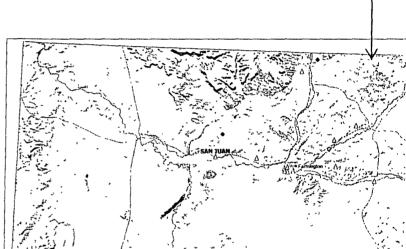
EXHIBIT E

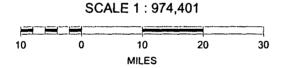




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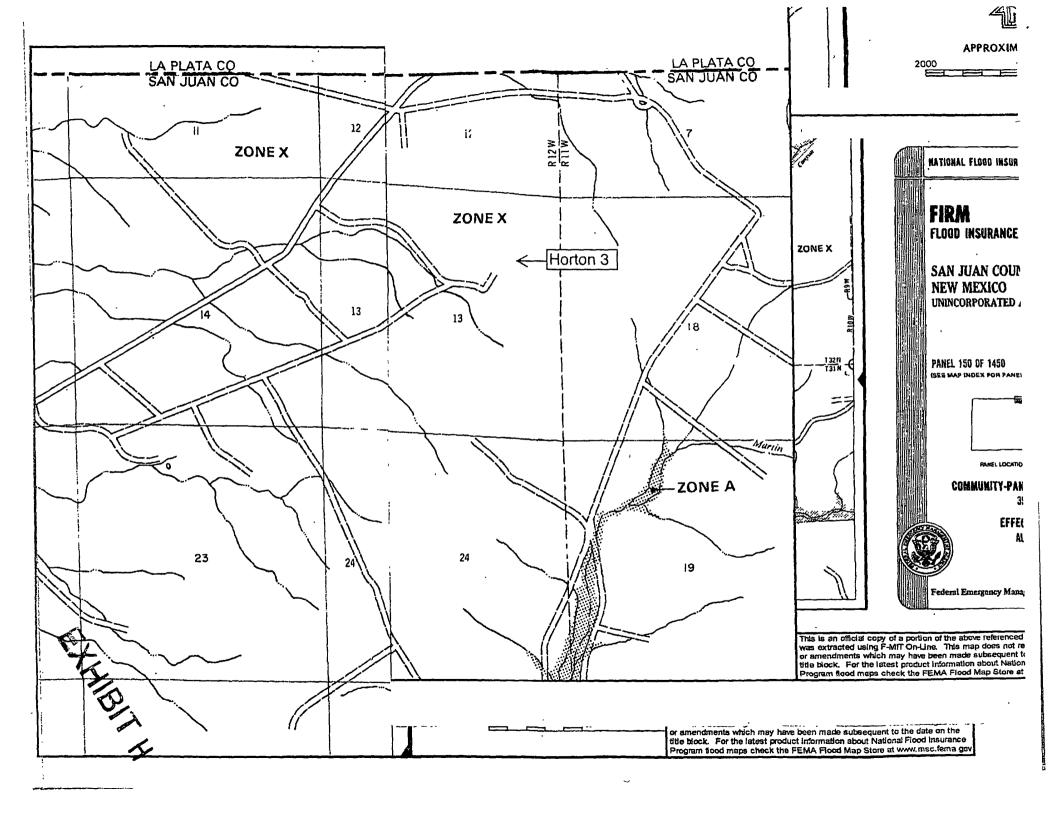






Horton 3

EXHIBIT G



NEW MEXICO

Gas Well Plat

OIL CONSERVATION COMMISSION

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hereby certify that th	e information give	n above is tru	e and complete	,
the best of my know	edge.			
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December 8, 2008

Kenneth & Joyce Roddy Trust P. O. Box 133197 Tyler, TX 75713-3197

Dear Trustee(s):

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

<u>Well</u>	API Number	<u>Location</u>
Horton 3	30-045-11448	SWNE 13-32n-12w
Horton 3A	30-045-23394	SWNW 13-32n-12w
Horton 3C	30-045-31673	NENW 13-32n-12w
Horton 8	30-045-21846	SWNW 13-32n-12w
Horton 10	30-045-22935	SENE 13-32n-12w

Please call me if you have any questions.

Sincerely,

Brian Wood

Postage \$ 42 Continue Fee 2 70 DEC (Septiment Required)
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Restricted Delivery Fee (Endorsement Required)
Total Postage & Fues \$ 5.32 USPS
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Stiedt Apr No.; STORY OF PO BOX No.
City, State, ZIP+4

EXHIBIT J

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 8t	h day of December,	2008,	but shall l	be effective
for all intents and purposes as of June 16,		111		

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