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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

PC 2/15/06

Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☐
Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank X

Operator: Nadel & Gussman Permian, LLC Telephone: 432-682-4429 e-mail address: kemm@naguss.com
Address: 601 N. Marienfeld, Suite 508, Midland, Texas 79701
Facility or well name: **Angler State No. 1** API #: **3002537569** U/L or Qtr/Qtr **Lot H** **Sec 15 T16S R33E 1650'FNL and 330'FEL**
County: **Lea** Latitude N_____ Longitude W_____ NAD: 1927 ☐ 1983 ☐
Surface Owner: Federal State X Private ☐ Indian ☐

Pit	**Below-grade tank N/A**	
Type: Drilling X Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined X Unlined ☐ Liner type: Synthetic X Thickness: **12mil HDPE liner** Clay ☐ Pit Volume: **2400 bbl Approximately**	Volume: N/A bbl Type of fluid: N/A Construction material: N/A Double-walled, with leak detection? ☐ If not, explain why not.	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of groundwater.) **Water data in area pursuant to New Mexico, OCD indicates 100 to 150 feet to groundwater.**	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) 0 points) 0 pts.
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No X	(20 points) (0 points) 0 pts.
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points) 0 pts.
	Ranking Score (Total Points)	**0 pts.**

WTR ISO

RECEIVED FEB 2006 HOBBS OCD

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. **Digital Photos shall be submitted for before and after remediation activity with final report.** (2) Indicate disposal location: offsite N/A If offsite, name of facility: N/A (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No X Yes ☐ If yes, show depth below ground surface _ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

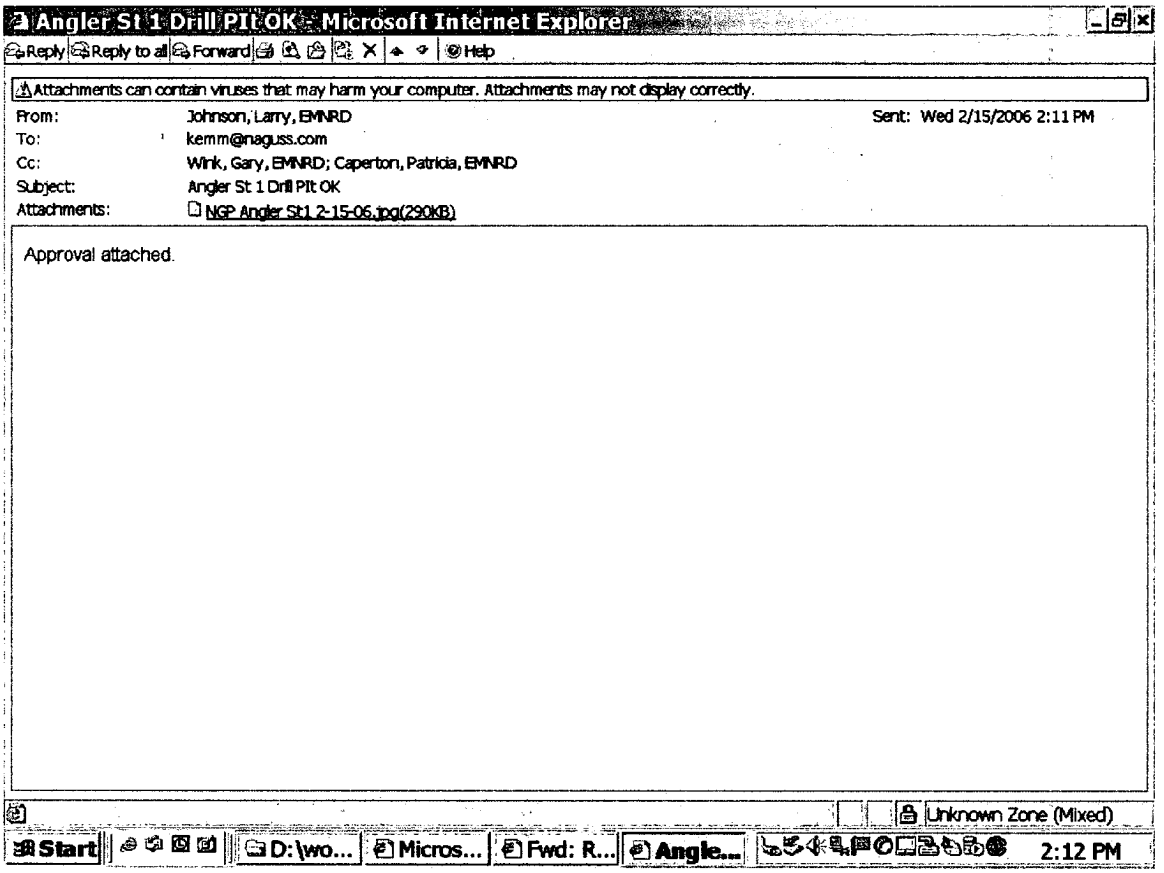
Additional Comments: **Please refer to the attached letter for detailed "Closure Plan" information, digital photos, and sample location diagram.**

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines X, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**

Date: **13 February 2006**
Printed Name/Title **Kem McCready, Operations Engineer** Signature Kem McCready

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:
Printed Name/Title LARRY JOHNSON - ENVIRO ENGR Signature L. Johnson Date: 2-15-06


Angler St 1 Drill PIt OK - Microsoft Internet Explorer
Reply
Reply to all
Forward
Help
Attachments can contain viruses that may harm your computer. Attachments may not display correctly.
From: Johnson, Larry, EMNRD
Sent: Wed 2/15/2006 2:11 PM
To: kemm@naguss.com
Cc: Wink, Gary, EMNRD; Caperton, Patricia, EMNRD
Subject: Angler St 1 Drill PIt OK
Attachments: NGP Angler St1 2-15-06.jpg(290KB)
Approval attached.
Unknown Zone (Mixed)
Start
D:\wo...
Micros...
Fwd: R...
Angle...
2:12 PM

Mr. Kem McCready
Operations Engineer
NADEL AND GUSSMAN PERMIAN, LLC
601 N. Marienfeld
Suite 508
Midland, TX 79701

3 February 2006

Mr. Larry Johnson
OIL CONSERVATION DIVISION
1625 N. French Drive
Hobbs, NM 88240

Re: Angler State No. 1 Pit Closure Documents

Dear Mr. Johnson:

Pursuant to the State of New Mexico regulatory requirements for permanent closure of drilling pits, enclosed herewith is the completed Form C-144, digital photos of existing pit (forwarded in final report), sample location diagram (forwarded in final report), and additional information constituting the "Closure Plan" for closure of the Nadel and Gussman Permian, LLC, hereinafter "NGP", Angler State No. 1 drilling pit, hereinafter Angler, (API No. 3002537569) located in U/L H S15 T16S, R33E of Lea County, New Mexico.

INTRODUCTION

Remediation of the NGP, Angler drilling pit is targeted to begin 17 February 2006 with completion expected by 23 February 2006, permitting weather and the occurrence of unexpected conditions not within the Operator's control do not create delays or exacerbate the proposed schedule in any way. NGP intends to maintain its commitment to environmental health and safety and fully comply with the Regulatory Performa of the State of New Mexico, OCD regarding this disposal action and permanent closure of the Angler drilling pit.

Potential, temporary contamination from the Angler drilling pit site, should any exist, resulted solely from oil and gas production activities. Potential contaminates of concern are typical mid to high-level concentrations of brines, typical polymers (such as xanthium gum and starch) and in general, drilling mud and fluids remaining upon completion of said drilling operations.

Area land use is primarily ranching with domestic pasturage and oil and gas production activities. The NGP Angler drilling pit is located in an area wherein groundwater depth to surface data is shown on the State of New Mexico, State Engineer's web site as ranging between 100 and 150 feet.

Consequently, *insitu* disposal shall be engaged pursuant to the approved Form C-144. It is the belief of NGP that compliant environmental performance and reduction of liability in this area pursuant to New Mexico; OCD regulations can be achieved with *insitu* disposal predicated on the evidentiary data heretofore presented. Further, should future Regulatory Performa mandate additional action or should the Operator choose to take additional action, the *insitu* option, in this case, (1) limits the environmental impact in general, (2) allows the Operator/government immediate access to said liability, (3) contains said material within the Operator's lease boundary and (4) in the event evidence of water is

discovered during the digging of the *insitu* pit, all actions would cease and the State would be immediately notified that a haul off was necessary. However in the case of the Angler, no contact with groundwater is anticipated due to the depth in this area.

This compliance action shall strictly apply the State of New Mexico, OCD standards, i.e. clean-up level for the Angler drilling pit shall meet the less than 100ppm of TPH, ND for BTEX and the less than 250ppm of chlorides unless approved otherwise and substantiated by background information documented to be higher than the above cited indices.

CLOSURE PLAN

Prior to commencement of closure activities, NGP contractor will contact One-Call for line spot clearance confirming the State of New Mexico, OCD is in agreement with the proposed "Closure Plan" for removal of approximately 2,500 bbl. of liquid followed by the removal of all fines (drill cuttings) assuming (1) these fines have sufficiently dried allowing for maneuverability of heavy equipment in the pit area or (2) mixing shall occur in order to attain sufficient dryness of said fines prior to deposit into the *insitu* 20 ml HDPE liner, enabling *insitu* burial application to take place and final pit closure.

Environmental health and safety regulations mandate control of pit volumes at all times. Thus, the liquid material was pumped off as needed and properly disposed of during active drilling operations in February 2006. Water accumulated since this time is either due to liquid material not completely hauled from actual drilling operations or rain. This water has subsequently been hauled from the location and properly disposed of pursuant to OCD Regulatory Performa.

- Contractor shall mobilize to the Angler drilling pit site located southwest of Artesia, New Mexico (see Form C-144) accessing via State Highway 82 approximately 8.1 miles northwest of Maljamar turning north on county road at Gas Plant access, then west on lease road for .4 miles, cross cattle guard and immediately north to location. Personnel and heavy equipment necessary to provide for the initiation and completion of said remediation activities presented above shall be engaged as is appropriate to the mandated exercise.

- No remediation activity shall occur off the existing pad or already disturbed areas as authorized by the APD and approved Best Management Practices (BMP's). Murchison shall consider weather conditions and necessary equipment positioning to provide a clear area for adequate staging for site control and safety compliance, ensuring operations shall be compliant with New Mexico, OCD Regulatory Performa.

- The Angler drilling pit is currently lined with a 12ml HDPE liner, which shall be removed by heavy equipment and disposed of with the drilling fines *inistu* pursuant to New Mexico, OCD requirements. *Insitu* actions provide for the encasement of all drilling pit contents in a 20 ml liner sewn in a rectangular box shape and placed vertically approximately 20 feet below ground. Should the bottom of the *insitu* pit be composed of hard caliche and no sandy material is available, it shall be first lined with felt placing the 20ml HDPE liner on top of it with the sides of the "container" married to previously undisturbed ground assuring no objects such as sharp rocks, etc. shall be in the contact area to reduce the potential of puncturing a pressured "container" resulting from (1) the placement of soil on top of it during the burying process and (2) the composition of the pit material contained within it, which over time could exude gaseous buildup.

- Once the burial trench/pit has been dug to sufficient dimensions to ensure proper placement of the pit contents, the track hoe shall begin to deposit pit materials within the secured "container" until all pit material has been placed within it. This 20ml HDPE liner "container" shall not be permanently sealed until after the drilling pit bottom has been sampled and approved for closure by the State of New Mexico, OCD. In the event more material must be harvested to achieve compliance, and said harvest shall increase the volume of the *insitu* material to such a degree that it will threaten the integrity of the "container" or potentially cause leakage to occur by reason of increased volume, an additional *insitu* 20ml HDPE liner "container" shall be placed adjacent (when space and terrain permits) to the existing "container". Such action will provide for reasonable assurance that no leakage will occur and maintain all contaminates within a specific geographic location within the lease boundary.

- Prior to initiation of backfilling, the Operator shall take appropriate samples of the pit area to ensure compliance with OCD Standards for remediation of possible soil chloride levels greater than 250ppm. However if levels at the bottom of the drilling pit test too high, a background set of samples shall be obtained for testing from the immediate vicinity and compared to those of the pit bottom. Simultaneously, more soil shall be removed from the "hot spots". Once completed, new data acquisition shall occur and sample results determine whether or not compliance has been reached in order to begin backfilling. No backfilling shall begin without authorization by the State of New Mexico, OCD.

- Backfilling of the Angler drilling pit shall be commensurate with existing topography and terrain relief features (contouring) so as to return it to its "near-as" previous condition, including a contour for moisture accumulation which prevents abnormal or unsustainable water impoundment resulting in erosive actions. Pursuant to the APD, the Angler site shall be seeded in compliance with New Mexico Department of State Lands seed mixtures.

- The "Closure Plan" shall include a final report providing lab analysis of the backfill material, digital project photos and evidentiary narrative to support the completed disposition of the reclaimed Angler No. 1 drilling pit site.

Should you have questions, please call 432-682-4429 (office) or 432-425-6347 (cell).

Sincerely,

Kem McCready
Operations Engineer