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.

4897

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

Type of action:  X 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-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 of surface water, ground water or the nvironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: McElvain Oil & Gas Properties, Inc. OGRID #: 22044
Address: 1050 17th St., Suite 1800, Denver, CO 80265-1801
Facility or well name: Big Gulp SWD No. 1
API Number: 30-045- 35043 OCD Permit Number:
U/L or Qtr/Qtr L Section 20 Township 30N Range 13W County: San Juan
Center of Proposed Design: Latitude 36.79638°N Longitude 108.23401°W NAD: 1927 X 1983
Surface Owner: X Federal State Private Tribal Trust or Indian Allotment
X Pit: Subsection F or G of 19.15.17.11 NMAC  Temporary: X Drilling  Workover  Permanent Emergency Cavitation P&A  X Lined Unlined Liner type: Thickness 20 mil X LLDPE HDPE PVC Other  X String-Reinforced  Liner Seams: X Welded X Factory X Other Volume: 5699 bbl Dimensions: L 90 x W 60 x D 10
3.  Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
Liner Seams: Welded Factory Other Other
Below-grade tank: Subsection I of 19.15.17.11 NMAC   Volume:
Liner type: Thicknessmil
5.  Alternative Method:  Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

6.  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	
X Alternate. Please specify Four foot high field fence on steel tee posts	
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)	
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	
X Signed in compliance with 19.15.3.103 NMAC	
Administrative Approvals and Exceptions:	
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  Please check a box if one or more of the following is requested, if not leave blank:	
Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau	office for
consideration of approval.  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
10.	
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 accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appro-	
office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a	pproval.
Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dryi above-grade tanks associated with a closed-loop system.	ng pads or
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.	☐ Yes X No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes X 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).	☐ Fes X No
- 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)	☐ Yes X No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes X No ☐ NA
<ul> <li>(Applies to permanent pits)</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock	Yes X No
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	☐ Yes X No
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	Yes X No
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes X No
Within an unstable area.	□ Vog V Na
<ul> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	Yes X No
Within a 100-year floodplain FEMA map	☐ Yes X No

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  X Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC  X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
X Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC X 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:
12.  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.  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 H₂S, 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: X Drilling  Workover  Emergency  Cavitation  P&A Permanent Pit  Below-grade Tank  Closed-loop System  Alternative
Proposed Closure Method: Waste Excavation and Removal
<ul> <li>X On-site Closure Method (Only for temporary pits and closed-loop systems)</li> <li>X In-place Burial ☐ On-site Trench Burial</li> </ul>
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.  Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)  Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection 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

16. Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.E Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if n facilities are required,					
•					
Disposal Facility Name: Disposal Facility Permit Number: Disposal Facility Permit Number: 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 served. Yes (If yes, please provide the information below) No	rice and operations?				
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	C				
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 closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate districtions of acceptable sour provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate districtions of equivalency must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justiful demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	ict 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 X 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 X 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	X Yes ☐ No ☐ NA				
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	Yes X No				
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes X No				
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes X 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 X No				
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes X No				
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes X No				
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes X No				
Within a 100-year floodplain FEMA map	Yes X 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.  X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  X 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  X Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15  Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  X Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot X Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  X Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	5.17.11 NMAC				

perator Application Certification:
hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
ame (Print): Robert E. Fielder Title: Agent
gnature: Jolef E. Fuld Date: January 26, 2010
mail address: pmci@advantas.net Telephone: 505-320-1435
CD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
CD Representative Signature: 82/1/4/4 Approval Date: 2-2-10
itle: Ewio Spec OCD Permit Number:
losure 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 action of the form until an approved closure plan has been obtained and the closure activities have been completed.
Closure Completion Date:
losure 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.
losure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: structions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than to facilities were utilized.
Disposal Facility Name: Disposal Facility Permit Number:
Disposal Facility Name: Disposal Facility Permit Number:
/ere the closed-loop system operations and associated activities performed on or in areas that <i>will not</i> be used for future service and operations?  Yes (If yes, please demonstrate compliance to the items below)  No
equired 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
Rosure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check tark 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
perator Closure Certification: hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and elief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.  Title:  Title:
mail address: Telephone:

#### **Temporary Pit**

#### **Operating and Maintenance Procedures**

McElvain Oil & Gas Properties, Inc. (MOG)

#### Big Gulp SWD No. 1

#### I. Design and Construction Specifications

- a. Prior to construction of the pit, three inches of soil will be stripped from the pit area and pushed to the southwest corner to act as a diversion berm for the drainage diversion around the pit. Additional excavated pit dirt will be pushed to the north edge of the pit area to divert the existing drainage around the pit area. The remaining pit dirt excavated will be stockpiled along the south edge to be used to fill the pit during interim reclamation. Due to the soil composition none will be stockpiled for topsoil. Topsoil will come from the contouring of the step down slope during interim reclamation.
- b. In lieu of a pit sign, MOG will install and maintain a sign on the wellsite in accordance with the provisions of Rule 103.
- c. Upon completion of construction and liner installation three sides of the temporary pit will be fenced with a four foot hogwire fence installed on steel tee posts since this location is over 1000 feet from the nearest residential building. The fourth side (rig side) will be fenced upon completion of the drilling operation and removal of the drilling equipment. This fence will be maintained to insure no access by livestock or wildlife as long as there is fluid in the temporary pit.
- d. The temporary pit will be constructed to the size shown on the attached Wellsite layout(s). Approximate volume of the temporary pit is 0.73 ac-ft. It is anticipated the top five feet will be alluvial material associated with this soil type (Badland). The bottom five feet is unknown but it will likely be the same material since there is an additional fifty feet of this badland ridge slope to the south of the pit area. The drainage to the south of the pit area is approximately twenty feet below the surface level of the pit area. The temporary pit walls will be constructed on 2:1 slopes. Any benches of rock encountered will be scraped to a depth to allow cover by soil material if possible. The side slopes will be walked down by the tractor to insure a smooth bottom and side walls for liner installation. Run on preventative measures will be installed on the northwest corner of the pit as shown on the site plan and discussed in 1. a. above.
- e. The temporary pit will be lined with a single section of 20 mil string reinforced LLDPE liner material with factory welded seams. The factory welded seams will be aligned running from the rig side to the outside wall. In the event a smooth bottom or wall slope cannot be attained on construction this liner will be underlain with a geotextile liner. The edges of the liner on the level part of the pad will be anchored in a trench around the perimeter at least eighteen inches deep and filled with dirt. An apron of identical material will be laid down over the step down slope. The location end will be anchored

in a trench on the level pad east of the mud tank. The pit side will be anchored in the same ditch as the pit liner along the east side.

#### II. Operational Plan

- a. MOG will use the proposed temporary to drill this well only. Timetable for pit reclamation will start after the well is drilled and the drilling rig is removed.
- b. MOG will operate and maintain the pit to contain the liquids and solids associated with the drilling phase of this operation, prevent contamination of the fresh water supply and protect the public health and the environment.
- c. MOG will not dispose of or store any hazardous material in this pit. All cement returns, workover and completion fluids associated with flow back or circulation during these operations will be stored in a flow back tank on location.
- d. MOG will monitor the condition of the installed liner from the date it is installed until the pit is closed. Visual inspection will be daily while the rig is onsite and weekly from rig release date to pit closure date. MOG will take the appropriate measures to repair and report to NMOCD any breach of the liner integrity within 48 hours of detection.
- e. Two feet of freeboard will be maintained in the pit at all times until closure.
- f. MOG will remove all free liquid from the temporary pit and haul it to the Key Four Corners Inc. facility, permit # NM-01-0009 within 30 days of cessation of the drilling operation. All fluids associated with drilling or workover operations that are accumulated and stored in the flow back tank will be removed within 30 days of cessation of these operations and hauled to the Key Four Corners Inc. facility.
- g. The pit will be maintained free of any solid refuse. This will be stored in a trash basket on the location.
- h. A header system or hoses without ends or unions will be used for loading liquid into or removing liquid from the temporary pit.
- i. The temporary pit will be maintained free of any oil accumulation. MOG will keep an oil absorbent boom on location for the entire time the pits are open.

#### III. Closure Plan

- a. MOG will close the pits within six months of the drilling rig release date of the well.
   MOG will provide 72 hour notice to the District 3 office prior to commencing closure operations.
- b. The surface ownership is BLM and they have been provided e-mail notification of the plan to proceed with in place burial if possible.
- c. MOG will initiate sampling and testing of the residue left in the pit after the completion of the liquid hauling operation in accordance with the applicable sampling and testing requirements outlined for in place burial. MOG will inspect the portion of the liner exposed by liquid removal for tears.

i. If the testing of the residue meets the quality standards for in place burial listed below, MOG will proceed with in place burial as outlined in d. – h. below.

Components	Tests Method	Limit (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	2500
GRO/DRO	EPA SW-846 8015M	500
Chlorides	EPA 300.1	1000

- ii. If test results of the residue do not meet the quality standards for onsite burial, MOG will dispatch a vacuum truck as soon as practical in the contractors schedule. They will remove the residue and haul it to the JFJ Landfarm, permit # NM-01-0010. After the residue is removed the pit liner will be removed and hauled to an approved waste facility in San Juan County. MOG will then initiate testing and sampling of the temporary pit area as outlined in the Waste Evacuation and Haul section of the regulations. Results of these tests will be reported to the Aztec district office and the applicable closure method initiated.
- d. MOG will mix stockpiled pit dirt with residue at no more than a 3:1 ratio to stabilize the residue.
- e. MOG will cut and remove the section of the liner above the residue level in the temporary pit after residue stabilization. This will be disposed of at an approved San Juan County waste facility.
- f. MOG will use the remaining pit dirt stockpile to provide a compacted fill at least four feet thick over the stabilized residue to a depth within one feet of the step down pit edge. After removal of the step down apron and pit liner, MOG will push dirt from the step down slope to achieve a depth of one foot of topsoil and seeded with a free of noxious weeds seed mix consisting of at least three native plant species, including at least one grass, in the next applicable seeding season. Seeding will be done by broadcast method over the pit area and broadcast on the cut slopes. 70% coverage will be maintained through two successive growing seasons. MOG will provide notice to NMOCD at the end of the second successful season.
- g. MOG will file the applicable closure report with attachments within 60 days of completion of closure.
- h. MOG will install a 4" X 4' steel pipe marker at the center of the buried temporary pit, labeled in accordance with regulations, during interim reclamation.
- IV. Siting Requirements substantiation and hydrogeologic data
  - a. Hydrogeologic data
    - i. Surface formation Ojo Alamo formation
    - ii. Geographic setting Located on a ridgeline running east southeast off of Pinon Mesa.

- iii. Soils NRCS, BA Badland- a non saline to very slightly saline soil formed by the erosion of shales and deposited as the south steep face of this ridgeline. Typical distribution is 0 60 inches: Badlands with possible sand/siltstone lens.
- iv. Drainage Generally to the southeast. There are two identified drainages in the area of the subject location shown on the attached wellsite diagram. The first is an arroyo that originates at the base of the cliffs of Pinon Mesa in the NE/4 of section 19. This drains run off from approximately 80 acres along the slopes and possible excess spill over from Pinon Mesa cliffs during heavy rains. This wash is right at 200 feet from the wellhead and 245 feet from the NE pit corner at its closest point. The second is a deep gulley that runs along the west side of the location. This drainage heads up approximately 600 feet west and slightly north of the northwest location corner and drains an estimated 2-3 acres in from a small basin upslope. Depth varies from 3-5 feet. Width is 3-4 feet. This gully doesn't drain much and obviously is the result of many years of run off erosion. This gulley currently runs through the pit area and will be diverted around the west side of the pit by construction of a dam on the northwest corner of the pit constructed from pit dirt removed during excavation. This dam will remain after the pit is reclaimed.

#### b. Siting requirements substantiation

i. There are no water wells identified on the iWaters data base in this section. We suspect there was a water well affiliated with the historic homestead approximately 4000 feet to the east but it was way before there were any records kept and was abandoned by the time the grace period was offered. A search of all the offsetting sections was done and turned up 24 wells with 12 water depth data records. Water depths reported varied from 9 feet to 306 feet. We plotted the locations on topo maps using iWaters UTM location data to determine ground level elevation which we used to calculate subsea elevations for the associated depth to water. The calculated subsea elevations ranged from +5280 to + 5421 feet. Averaging all of the calculated elevations vielded +5391 feet. Most of these calculated numbers, not surprisingly, came out very close to the La Plata river elevation equivalent. Initially we thought the strata was a valley fill zone but we found identical subsea calculations in two wells southwest of this location which indicate it is a body within the Ojo Alamo that is probably recharged up-dip of this area from surface run off and the river. With a twelve foot step down, elevation at the bottom of the pit is 5503 feet. Using the elevation range we calculate a depth to water of 82 to 223 feet. Using the overall average number we came up with a depth to groundwater of 112 feet. Due to the large number of data points that fell in the same subsea elevation range we feel this is a common zone over the area and feel this zone is over 100 feet below the bottom of the pit.

- ii. The only flowing watercourse is the La Plata River. It is 1.1 mile east of the location. The large arroyo north of the location is considered significant but it is over 200 feet from the pit. The gulley along the west side is not considered significant because of its limited drainage area. As diverted it will be approximately 60 80 feet from the pit.
- iii. The nearest building is the old homestead house 0.75 miles east of the location.
- iv. By iWaters UTM location data there are two water wells approximately 3700 feet from this location. One is southwest and one is southeast. Neither of these could be found during visual inspection. Suspect they are bad well spots on iWaters.
- v. This is a rural area location.
- vi. There are no USFWS identified wetlands within 500 feet of the proposed pit.
- vii. This was not identified as part of the FEMA 100 year flood plain. Nearest FEMA identified floodplain is 1250 feet northeast of proposed pit.
- viii. There were no unstable areas noted during the field inspection or evidence of underground mining activity. Archeological survey work on another location revealed an abandoned ocre mine slightly over a mile to the northwest of this proposed site. This mine is located in the base of the sandstone cliffs that define Pinon Mesa and 200 feet higher elevation. Check of the Mining & Minerals database revealed no mines, mills or quarries in this area.

District II
1625 N. French Dr. Hobbs, NM 88240
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1301 W. Grand Ayenue, Artesia, NM 88210
District III
1600 Rib Brussis Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Sania Fe, NM 87505

12 Dedicated Acres

U Joins or Infill

U Consolidation Code

## State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

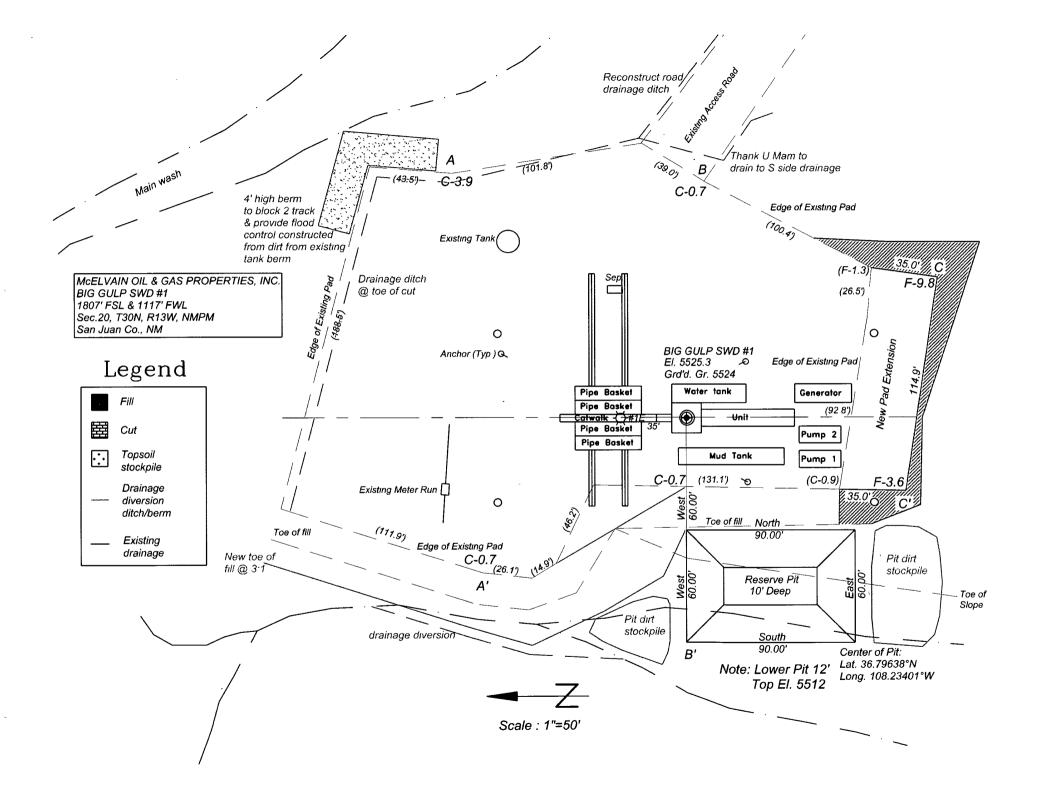
1,	<sup>1</sup> API Number				VD ON	3 Pod/Natue Mesa Verde			
<sup>4</sup> Property Ce	du	3 Property Name BIG GULP SWD							6 Well-Number 1
	* 0GRID No. 22044		* Operator, Name McELVAIN OIL & GAS PROPERTIES, INC.						<sup>9</sup> Eleviation 5525
					<sup>10</sup> Surface L	ocation.		,	
Ul. or Los No	Section	Township	Range	Lot ldn.	Feet from the	North/Scritt Line	Feet from the	Ensi/West Line	County
L	20	30 N	13 W	·	1807	Soùth	1117	West	San Juan
11 Bottom Hole Location If Different From Surface									
UL or Let No.	"Șuction	Township	Runge	Let lán.	Feet from the	North/South Line	Feel thom the	Enst/West Line	County

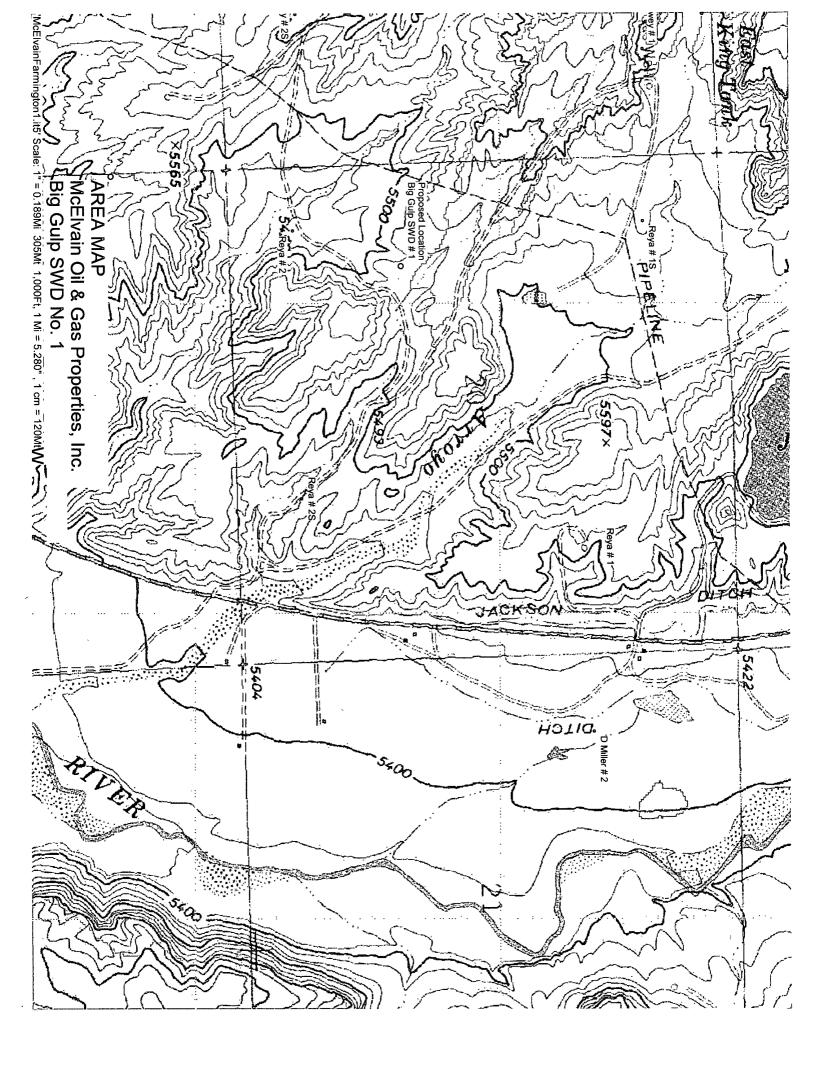
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division

15 Order No.

16				T	<u></u>
79 79 Ch.	S 88 <u>°</u> 17,' W	40.41 Ch.	N 89°11' W	39.71 Ch. : 40.04 Ch:	17 OPERATOR CERTIFICATION  1 hereby certify this the information contained herein is true and complete so the best of my trood ledge and befield, and that this organization elders owns a unhing interest or unbeased mineral interest is the front including the proposed bottom hole location or has a right to shall this well at this formation parsument to a constraint with us owner of with unbreated or working interest, or to a software positing agreement or a companious positing uniter beretadore entered by the division.
79.	•	Sec.		N 0°25′ E	Signature Date  Printed Nurve
2'W	1117'	Lat. 36,79650° N Long. 108.23371° W	20	40.25 Ch.	18 SURVEYOR CERTIFICATION  I hereby certify that the well focation shown on this plan was plotted from fleld notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
N 0°42' W	N 87°	54' W	<b>7</b> 9.	95 Ch.	Sensone milkent of Professional Surveyor  William E. Mahnke II  Certificate Number. 8466

Bearings from GLO PLat





Township: 3	ON Range: 13W Sections:	16
NAD27 X:	Y: Zone:	Search Radius:
County:	Basin:	Number: Suffix:
Owner Name: (First)	(Last)	Non-Domestic Domestic
ROD	/-Surface Data Report	
	@CleanForms	Help(

AVERAGE DEPTH OF WATER REPORT 09/09/2008

Bsn Tws Rng Sec Zone X Y Wells Min Max Avg

Township: 30N	Range: 13W Sections: 17	
NAD27 X:	Y: Zone:	Search Radius:
County:	Basin:	Number: Suffix:
Owner Name: (First)	(Last) O All	Non-Domestic Domestic
POD/èSu	urface Data Report Avg D Water Column Report	No. 2019 St. Committee Com
	©learForm.	Heip

AVERAGE DEPTH OF WATER REPORT 09/09/2008

Bsn Tws Rng Sec Zone X Y Wells Min Max Avg SJ 30N 13W 17 3 39  $\cdot$  45 25

Record Count: 3

Aug 55 Batum to water deph + 5418

Township: 30N	Range: 13W	Sections: 17	
NAD27 X:	Y:	Zone:	Search Radius:
			Number: Suffix:
	nface Data Rep	● All	Non-Domestic Domestic
		ater Column Repo	and the date and

POD / SURFACE DATA REPORT 09/09/2008

							(qua
		(acre ft per a	nnı	um)	-		(qua
DB	File Nbr	Use Diversion	n	Owner	POD	Number	
SJ	02565	DOM Same as 3029?	3	ALAN BERNHOLTZ	SJ	02565	
SJ	02572	DOM	3	PATRICK MAURER	SJ	02572	
SJ	02574	DOM 1995	3	VICTOR TED & COLLETTE HAMBLIN	SJ	02574	+5421
SJ	02657	DOM	3	WILLIAM FARRELL	SJ	02657	,
SJ	02943	DOM	3	MARTY WARD	SJ	02943	
SJ	03017	DOM 1000	3	WILLARD R. CARTWRIGHT	SJ	03017	15417
SJ	03029	DOM 2000	3	BERNADETTE LOPEZ	SJ	03029	+5416

Record Count: 7

+5418



Depth Water:

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

EX POD Number Tws Rng Sec qqq Zone 4079715 212717 30N 13W 17 2 2 2 SJ 02565

Driller Licence:

Depth Well:

Driller Name: Source: Drill Start Date: Drill Finish Date: Log File Date: PCW Received Date: Pump Type: Pipe Discharge Size: Estimated Yield: Casing Size:



(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

Depth Water:

POD Number Tws Rng Sec q q q Zone X X SJ 02572 30N 13W 17 2 2 13 212618 4079616

Driller Licence:

Depth Well:

Driller Name:

Drill Start Date:

Log File Date:

Pump Type:

Casing Size:

Source:

Drill Finish Date:

PCW Received Date:

Pipe Discharge Size:

Estimated Yield:

Sandstone/Gravel/Conglomer

#### New Mexico Office of the State Engineer **Point of Diversion Summary**



(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

26

POD Number Tws Rng Sec q q q Zone 4079115 SJ 02574 30N 13W 17 2 4 4 13

Driller Licence: 717 WESTERN WATER WELLS

Source: Shallow Driller Name: HOOD, TERRY Drill Start Date: 03/21/1995 Drill Finish Date: 03/21/1995

PCW Received Date: **Log File Date:** 03/27/1995 Pump Type: Pipe Discharge Size: Estimated Yield: 15 Casing Size: 6 Depth Well: 26 Depth Water: 9

Water Bearing Stratifications: Top Bottom Description

16 Casing Perforations: Top Bottom

26 21



(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

 POD Number
 Tws
 Rng Sec q q q
 Zone
 E
 N

 SJ 02657
 30N 13W 17 2 4
 13
 212605 4079216

Driller Licence:

Driller Name: Source: Drill Start Date: Drill Finish Date:

Log File Date:
Pump Type:
Casing Size:
Depth Well:
Drill Finish Date:
PCW Received Date:
Pipe Discharge Size:
Estimated Yield:
Depth Water:



(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

Zone POD Number Tws Rng Sec q q q 212330 13 SJ 02943 30N 13W 17 2 1 2

Driller Licence:

Driller Name: THOMPSON Source:

Drill Finish Date: Drill Start Date: Log File Date: PCW Received Date: Pump Type: Pipe Discharge Size:

Casing Size: 6 Estimated Yield:

Depth Well: 60 Depth Water:



(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

Driller Licence: 1357 BAILEY DRILLING COMPANY

Driller Name: MARK BAILEY

Drill Start Date: 07/07/2000

Drill Finish Date: 07/07/2000

Log File Date: 07/19/2000 PCW Received Date:
Pump Type: Pipe Discharge Size:
Casing Size: 5 Estimated Yield: 5

Depth Well: 37 Depth Water: 20

Casing Perforations: Top Bottom 17 37

GLE-5437 20 Depth(SS) 5477+



(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

POD Number

Tws Rng Sec q q q Zone 30N 13W 17 2 2 1 13 £ 212517

4019715

SJ 03029

Driller Licence: 1357 BAILEY DRILLING COMPANY

Driller Name: MARK BAILEY

Source: Shallow

Drill Start Date: 07/23/2000
Log File Date: 08/11/2000

Drill Finish Date: 07/25/2000 PCW Received Date:

Pump Type:

Pipe Discharge Size:
Estimated Yield: 7
Depth Water: 45

Casing Size: 5
Depth Well: 65

p Bottom

Casing Perforations: Top

45

GLE-5461 45 Depth (SS) 5416'+

Township: 30N	Range: 13W Sections: 18	
NAD27 X:	Y: Zone:	Search Radius:
County:	Basin:	Number: Suffix:
Owner Name: (First)	(Last)	
ROD-/-Su	face Pata Report Av. Water Golumn Report	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE
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AVERAGE DEPTH OF WATER REPORT 09/09/2008

(Depth Water in Feet)
Min Max Avg

Bsn Tws Rng Sec Zone X Y Wells Min Max

Township: 3	ON Range: 13W Sections: 19	
NAD27 X:	Y: Zone:	Search Radius:
County:	Basin:	Number: Suffix:
	; ; 	
Owner Name: (First)		Non-Domestic Domestic
	All	
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AVERAGE DEPTH OF WATER REPORT 09/09/2008

(Depth Water in Feet)

Bsn Tws Rng Sec Zone X Y Wells Min Max Avg

Township: 30N	Range: 13W Sections: 20	)
NAD27 X:	Y: Zone:	Search Radius:
County:	Basin:	Number: Suffix:
Owner Name: (First)	(Last)	
POD//Su	rface Data Report A	
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AVERAGE DEPTH OF WATER REPORT 09/09/2008

Bsn Tws Rng Sec Zone X Y Wells Min Max Avg

Township: 30N	Range: 13W Section	ons: 21	
NAD27 X:	Y: Zon	e: Search	Radius:
County:	Basin:		er: Suffix:
Owner Name: (First)	(Last)		Domestic Domestic
ROD#Su	rface Data Report		Report
	«ClearForm»	ERS Menu Help	

AVERAGE DEPTH OF WATER REPORT 09/09/2008

Bsn Tws Rng Sec Zone X Y Wells Min Max Avg

Township: 30N	Range: 13W	Sections: 28		
NAD27 X:	Y:	Zone:	Search Radius:	
County:	Basin:		Number:	Suffix:
Owner Name: (First)	(Las	st).	Non-Domestic	<b>⊘</b> Domestic
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#### AVERAGE DEPTH OF WATER REPORT 09/09/2008

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 Wells
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 Max
 Avg

 SJ
 30N
 13W
 28
 2
 2
 306
 306
 306
 306

Record Count: 2



(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

POD Number SJ 00992

Zone Tws Rng Sec q q q 30N 13W 28 2 1 1 13

213591

4076455

T

Driller Licence: 809 CHIVERS BRYCE J.

Driller Name: CHIVERS, BRYCE Drill Start Date: 06/25/1979

Log File Date: 07/19/1984 Pump Type:

Casing Size: 4.5 Depth Well: 624 Source: Shallow

Drill Finish Date: 06/30/1979

PCW Received Date: Pipe Discharge Size: Estimated Yield: 20 Depth Water: 306

Water Bearing Stratifications:

Top 590

Bottom 600

Description Sandstone/Gravel/Conglomer

Casing Perforations: Top Bottom

560

620

GLE - 5440 306 Depth(SS)+5134

RIVER@ 53601

ONLY FOUND THIS WELL - NOT Z This plots in 21 by UTM coordinates Coops Double chedos -

Different interval? No way to tell with bad spot of location. Suspect this is on top of ridge to east. callit bab DAFA point

Township: 30N	Range: 13W Sections: 29	
NAD27 X:	Y: Zone:	Search Radius:
County:	Basin:	Number: Suffix:
Owner Name: (First)	(Last) All	Non-Domestic Domestic
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#### AVERAGE DEPTH OF WATER REPORT 09/09/2008

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 Max
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 65
 31

Record Count: 10

i o wilding.	13W Sections: 29		
NAD27 X: Y:	Zone: Sea	rch Radius:	1
County: Basin:	Nu	umber: So	uffix:
Owner Name: (First)	(Last) ● N	on-Domestic 🛭 🕙 D	omestic
	Report Avg. Depth to Wa	eter Report	
**Clear Fo	IMI ###IWATERS#Menus #Feli		
	POD / SURFACE DATA REPOR	T 09/09/2008	(m)s
(acre ft per an	·	T 09/09/2008	(qua
(acre ft per ann 3 File Mbr Use Diversion	num)	T 09/09/2008	(dns (dns
File Nbr Use Diversion	num) Owner		
File Nbr Use Diversion  V00215 DOM Same 69 2159? 3	oum) Owner JOHN L. ANDERSON	POD Number	
File Nbr Use Diversion  √00215 DOM 50me as 2159? 3  00262 become \$1000 50 Me as \$64,9723  00448 DOM 50 me as 1502 3	oum) Owner JOHN L. ANDERSON	POD Number SJ 00215	(que +5415
File Nor Use Diversion  00215 DOM 500062 2159? 3  00448 DOM 500060 3502 3  0086875000 DOM 3	OUM) OWNET JOHN L. ANDERSON JOE L. PRATER LEWIS E. PHILLIPS ZEBRA CORPORATION	POD Number SJ 00215 SJ 00262 SJ 00448 SJ 00868	(que +5415
File Nbr Use Diversion  00215 DOM 504692159? 3  00262 DOM 5046 05 56,9773  00448 DOM 50 me as 1502 3  00868 DOM 50 me as 1502 3  0080892 DOM 3	OWNER  JOHN L. ANDERSON  JOE L. PRATER  LEWIS E. PHILLIPS  ZEBRA CORPORATION  DEAN A. ANAYA	POD Number SJ 00215 SJ 00262 SJ 00448	(que +54)5
File Nbr Use Diversion  00215 DOM 504652159? 3  00262 ber DOM 5046 65 56,9723  00448 DOM 50 me as 1502 3  00868 DOM 3  000892 DOM 3  01040 SAN 3	OWNER  JOHN L. ANDERSON  JOE L. PRATER  LEWIS E. PHILLIPS  ZEBRA CORPORATION  DEAN A. ANAYA  WILLIAM R. SCHWAB, JR.	POD Number SJ 00215 SJ 00262 SJ 00448 SJ 00868 SJ 00892 SJ 01040	(que +5415
File Nbr Use Diversion  \[ \sqrt{00215}  \text{DOM}  \text{Source}  \text{2159?}  \text{3} \\ \text{00262}  \text{period}  \text{DOM}  \text{Source}   \text{502}   \text{3} \\ \text{00448}  \text{DOM}  \text{Source}   \text{502}    \text{3} \\ \text{008687}   \text{DOM}     \text{DOM}  \qquad            \	OWNET JOHN L. ANDERSON JOE L. PRATER LEWIS E. PHILLIPS ZEBRA CORPORATION DEAN A. ANAYA WILLIAM R. SCHWAB, JR. HAL C. RICHMAN	POD Number SJ 00215 SJ 00262 SJ 00448 SJ 00868 SJ 00892 SJ 01040 SJ 01062	(que +5415 +5332
File Nor Use Diversion  \[ \sqrt{00215}  \text{DOM}  \text{san as \$2159?}  3 \\   \text{00262}  \text{san as \$567,9778}  3 \\   \text{00448}  \text{DOM}  \text{san as \$502.}  3 \\   \text{00868}   \text{DOM}   \text{SAN}  3 \\    \text{01040}      \text{SAN}  3 \\  \qua	OWNET JOHN L. ANDERSON JOE L. PRATER LEWIS E. PHILLIPS ZEBRA CORPORATION DEAN A. ANAYA WILLIAM R. SCHWAB, JR. HAL C. RICHMAN	POD Number SJ 00215 SJ 00262 SJ 00448 SJ 00868 SJ 00892 SJ 01040 SJ 01062 SJ 01357	(que +5415
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3 File Nor Use Diversion  1 00215 DOM Same as 2159? 3  1 00262 Der 10 DOM Same as 1502 3  1 00868 DOM 3  1 01040 SAN 3  1 01040 SAN 3  1 01062 Milling DOM 3  1 01357 DOM ASI WELL RECEIVE SAN 3  1 01358 DOM 25 1040 DOM 25 1	OWNET  JOHN L. ANDERSON  JOE L. PRATER  LEWIS E. PHILLIPS  ZEBRA CORPORATION  DEAN A. ANAYA  WILLIAM R. SCHWAB, JR.  HAL C. RICHMAN  C. B. BOWEN  AMY L. BOWEN  WOOHN STURGES  MELISSA FITZ  EDWARD MOSIMANN	POD Number SJ 00215 SJ 00262 SJ 00448 SJ 00868 SJ 00892 SJ 01040 SJ 01062 SJ 01357 SJ 01358 SJ 01502 SJ 02159 SJ 02754	+5415 +5332 +5359 +5325 +5280 +5272
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(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

POD Number SJ 03046

Zone Rng Sec q q q Tws 30N 13W 29 2 2 4 13

Driller Licence: 1479 THREE 3-D DRILLING

Driller Name: GILES, DEE **Drill Start Date:** 05/10/2001 **Log File Date:** 05/21/2001

Pump Type:

Casing Size: 6.63 Depth Well: 80

Source: Shallow

Drill Finish Date: 05/10/2001 PCW Received Date:

Pipe Discharge Size: Estimated Yield: 1 Depth Water: 30

Water Bearing Stratifications:

Top 0

Bottom 80

Description

Shallow Alluvium/Basin Fil

Casing Perforations:

79

Top **Bottom** 61

GLE-5403 30 Depth(SS) 5373 +



(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

 POD Number
 Tws
 Rng
 Sec
 q
 q
 Zone
 X
 X

 SJ
 02754
 30N
 13W
 29
 4
 4
 13
 2125/3
 40

Driller Licence: 527 THOMPSON WELL DRILLING

Driller Name: THOMPSON, LEON Source: Shallow

Log File Date: 04/23/1997 PCW Received Date:
Pump Type: Pipe Discharge Size:
Casing Size: 6 Estimated Yield:
Depth Well: 65 Depth Water: 65

Water Bearing Stratifications: Top Bottom Description
0 65 Other/Unknown

0 65 (
Casing Perforations: Top Bottom

asing Perforations: Top Bottom
34 38

GLE 5345 65 Pepth(ss) 5280 +



(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

Zone POD Number Rng Sec q q q 4075217 SJ 02159 30N 13W 29 4 3 13 2/2010

Driller Licence: 733 MO-TE DRILLING, INC.

Driller Name: Source: Shallow

SAME AS 00215 Drill Finish Date: 11/24/1987 Drill Start Date: 11/23/1987

Log File Date: 11/30/1987 PCW Received Date: Pump Type: Pipe Discharge Size: Casing Size: 6 Estimated Yield:

Depth Well: 40 Depth Water: 15

Water Bearing Stratifications: Top Bottom Description

20 27 Sandstone/Gravel/Conglomer 27 30 Sandstone/Gravel/Conglomer

Casing Perforations: Top Bottom 40 20

215 orld in 1977 to 55' 2159 orld 10 grs late but Shallower Delith rework by plugging back or redril?



(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

> Zone 13

POD Number SJ 01502

Tws Rng Sec qqq 30N 13W 29 4

E 212211

Driller Licence: 666 GILBERT, JOHN G.

Driller Name:

**Drill Start Date:** 11/09/1981

Log File Date: 11/30/1981

Pump Type: Casing Size: Depth Well: 47

Source: Shallow Drill Finish Date: 11/16/1981

PCW Received Date: Pipe Discharge Size:

Estimated Yield: 15

Depth Water: 20

Water Bearing Stratifications: Bottom Description Top

Same as out & for SEE PATA 47 Sandstone/Gravel/Conglomer 44

http://iwaters.ose.state.nm.us:7001/iWATERS/WellAndSurfaceDispatcher?email\_address=... 9/9/2008



(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

POD Number SJ 01358 Tws Rng Sec q q q Zone
30N 13W 29 2 2 J3

\* 212499

\* 4076394

Driller Licence:

Driller Name: Drill Start Date: Log File Date:

> Pump Type: Casing Size: Depth Well:

Source:

Drill Finish Date: PCW Received Date: Pipe Discharge Size:

> Estimated Yield: Depth Water:

4th WELL @ same 100 afron

NOT Plotted SEE 1357

SAME as 1040

## New Mexico Office of the State Engineer **Point of Diversion Summary**



(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

POD Number

Tws Rng Sec q q q Zone 30N 13W 29 2 2 13

212499

SJ 01357

Driller Name: LEON THOMPSON

Drill Start Date: 05/20/1981

Water Bearing Stratifications:

Log File Date: 07/18/1984 Pump Type:

Casing Size: Depth Well: 71

Driller Licence: 527 THOMPSON WELL DRILLING

Source: Shallow Drill Finish Date: 05/30/1981

PCW Received Date: Pipe Discharge Size:

Estimated Yield: 1

Depth Water: 56

Description

Top Bottom

Sandstone/Gravel/Conglomer

plots on section line



(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

13

POD Number SJ 01062

Zone Tws Rng Sec q q q 30N 13W 29 2 2

212499

4076394

Driller Licence:

Driller Name: Drill Start Date:

> Log File Date: Pump Type: Casing Size: Depth Well:

Source:

Drill Finish Date: PCW Received Date: Pipe Discharge Size:

Estimated Yield: Depth Water:



(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

13

POD Number SJ 01040

Tws Rng Sec qqq 30N 13W 29 2 2

Zone

212499

4076394

Driller Licence: 527 THOMPSON WELL DRILLING

Driller Name: THOMPSON, LEON

Drill Start Date: 09/10/1979 **Log File Date:** 09/25/1979

> Pump Type: Casing Size: 7

Depth Well: 49

Source: Shallow

Drill Finish Date: 09/14/1979 PCW Received Date:

Pipe Discharge Size: Estimated Yield: 15

Depth Water: 20

Water Bearing Stratifications: Top Bottom Description

> 45 49

Sandstone/Gravel/Conglomer

1062 norecords This WELL Drld in 1979 1357-DEEPINGIN 1981? USED 1357 Data

Same as 1062

and 1357

SAME AS SJ00868?

## New Mexico Office of the State Engineer Point of Diversion Summary



(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

POD Number SJ 00892 Tws Rng Sec q q q Zone 30N 13W 29 2 /3 £ X 212264 4076209

Driller Licence:

o Driller Name:
Drill Start Date:
Log File Date:
Pump Type:
Casing Size:
Depth Well:

Source: Drill Finish Date:

PCW Received Date:
Pipe Discharge Size:

Estimated Yield:

Depth Water:



(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

POD Number SJ 00868

Tws Rng Sec q q q Zone 13 30N 13W 29 2

£ 212264

Driller Licence: 527 THOMPSON WELL DRILLING

Driller Name: LEON THOMPSON

**Drill Start Date:** 02/01/1979 Log File Date: 02/16/1979

> Pump Type: Casing Size: Depth Well: 49

Source: Shallow Drill Finish Date: 02/05/1979 PCW Received Date:

Pipe Discharge Size: Estimated Yield: 12

Depth Water: 25

Water Bearing Stratifications:

Top Bottom 49 45

Description

Sandstone/Gravel/Conglomer



(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

+

POD Number Tws Rng Sec q q q Zone SJ 00448 30N 13W 29 4 13 212211 4075418

Driller Licence: 717 WESTERN WATER WELLS

Source: Shallow Driller Name:

Drill Finish Date: 09/07/1977 **Drill Start Date:** 09/05/1977 same as 1502

Log File Date: 09/12/1977 PCW Received Date:

Pipe Discharge Size: Pump Type: Casing Size: 6.63 Estimated Yield: 10

Depth Water: 20 Depth Well: 45

Water Bearing Stratifications: Top Bottom Description

Sandstone/Gravel/Conglomer 35 45

Casing Perforations: Bottom Top

41 45

5352 GLE 20 +5332 Depth 55 RIXEV 120pth



(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are biggest to smallest)

Zone POD Number Tws Rng Sec q q q 4076209 SJ 00262 13W 29 2 212264 30N 13

Driller Licence: 666 GILBERT, JOHN G.

Driller Name: GILBERT, JOHN G. Source: Shallow

Drill Finish Date: 05/10/1977 **Drill Start Date:** 05/05/1977

Log File Date: 05/17/1977 PCW Received Date: Pipe Discharge Size: Pump Type:

SAME AS Casing Size: 6.63 Estimated Yield: 15

00868 Depth Water: 25 Depth Well: 38 rework.

Water Bearing Stratifications: Description Top Bottom' 32 38 Sandstone/Gravel/Conglomer

GLE-5440 25 Depth(ss) 5475+



(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

POD Number SJ 00215

Zone Tws Rng Sec q q q 13 30N 13W 29 4 3

212010

4075217

Driller Licence: 666 GILBERT, JOHN G.

Driller Name:

Drill Start Date: 04/14/1977 Log File Date: 04/25/1977

> Pump Type: Casing Size: 6 Depth Well: 55

Source: Shallow

Drill Finish Date: 04/16/1977

PCW Received Date: Pipe Discharge Size: Estimated Yield: 12

Depth Water: 35

5 Ame as 2159 2159 rework of this well 2159 hav lesser

Water Bearing Stratifications:

Top 45 Bottom 55

Description

water pepthi

Data

Sandstone/Gravel/Conglomer 🗸 used 2159

CFLE 5375' 36' - 4nore Depth(SS) 5340'

# New Mexico Office of the State Engineer POD Reports and Downloads

Township: 30N	Range: 13W Sections: 30				
NAD27 X:	Y: Zone:	Search Radius:			
County:	Basin:	Number: Suffix:			
Owner Name: (First)	(Last) All	Non-Domestic Domestic			
POD://Surface:Data:Report					
Clean Form WATERS Menu Help					

### AVERAGE DEPTH OF WATER REPORT 09/09/2008

							(Depth	Water in	Feet)
Bsn	Tws	Rng Sec	Zone	x	Y	Wells	Min	Max	Avg
RG	30N	13W 30				1	45	45	45
SJ	30N	13W 30				1	21	21	21

Record Count: 2

+5407 35 ANG

# New Mexico Office of the State Engineer POD Reports and Downloads

Tov	vnship: 30N	Range:	13W Sections: 3	0		
NAD27	7 X::	Y:[	Zone:	Searc	h Radius:	··· ]
County:	Ç.	Basin:		Nun	nber: Su	ıffix:
Owner Name:	(First)		(Last)	<b>❷</b> No	n-Domestic 🛛 D	omestic
			All			
ŭ	POD//Si	uface Data	Report	g Depth to Wat	PRREPORT	
		<b>(23</b>	₩ater©olumnsRepo	prise de la companya		
		@ Glean Fo	mad saiWATERSAN	lenu di Help		
			POD / SURFACE	DATA REPORT	09/09/2008	(qua
	(acre f	t per ann	um)			(qua
DB File Nbr		iversion			POD Number	<u> </u>
RG 22431	DOM		GILBERTO T. APOI	DACA	RG 22431	+ 5395
SJ 00467	DOM	3	JAMES A. SHAY		SJ 00467	+5419

Record Count: 2



(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)

Zone

13

POD Number

**Tws Rng Sec q q q** 30N 13W 30 2

ا برد برد

·**灰** 210631

4076258

Driller Licence: 526 U/I

Driller Name: U/I

Drill Start Date: 08/20/1975

Log File Date: 08/29/1975

Pump Type:
Casing Size:
Depth Well: 100

Source: Shallow

Drill Finish Date: 08/27/1975

PCW Received Date:
Pipe Discharge Size:
Estimated Yield:
Depth Water: 45

5440 GLE 15 ±5395 Depth SS



(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

POD Number Tws Rng Sec qqq SJ 00467 30N 13W 30 4 4

Zone 13

210798

4075254

Driller Licence: 725 MCDONALD'S WATER WELL DRLG

Driller Name: MCDONALD, D.K.

Source: Shallow Drill Finish Date: 10/28/1977

Drill Start Date: 10/27/1977 **Log File Date:** 11/03/1977 Pump Type:

PCW Received Date: Pipe Discharge Size: Estimated Yield: 16

Casing Size: 6.63 Depth Well: 36

Depth Water: 21

Water Bearing Stratifications:

Bottom 36

Description Sandstone/Gravel/Conglomer

Casing Perforations: Bottom

36

Top 30

Top

30

GLE - 5440 +5419' Depth (55)

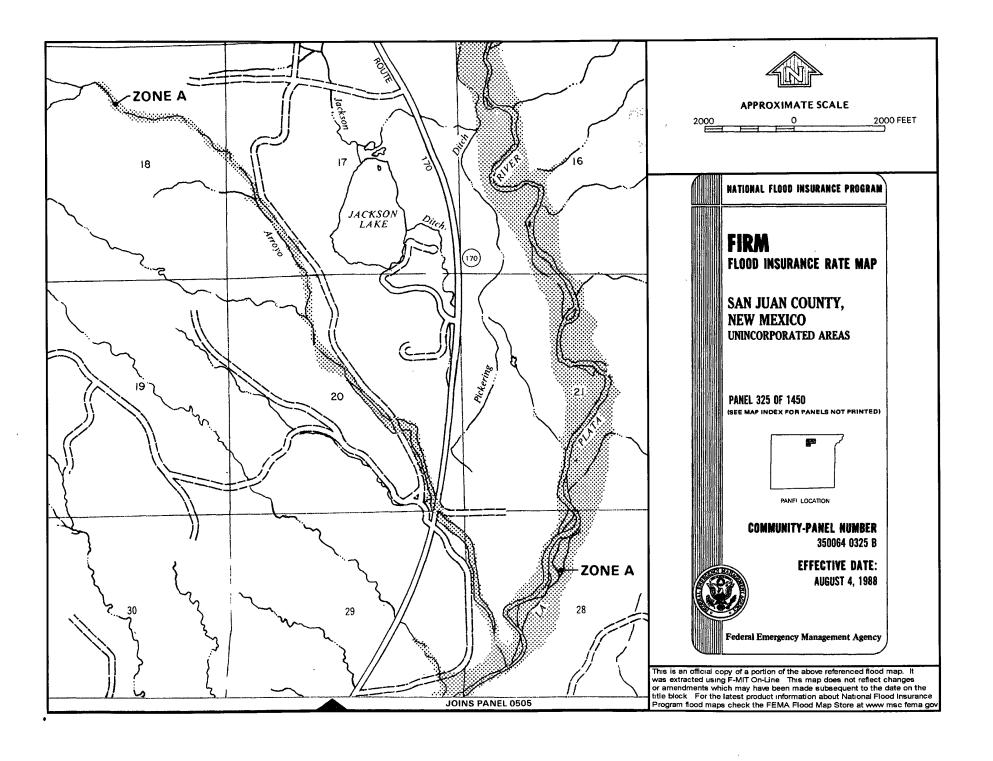
## **Bob Fielder**

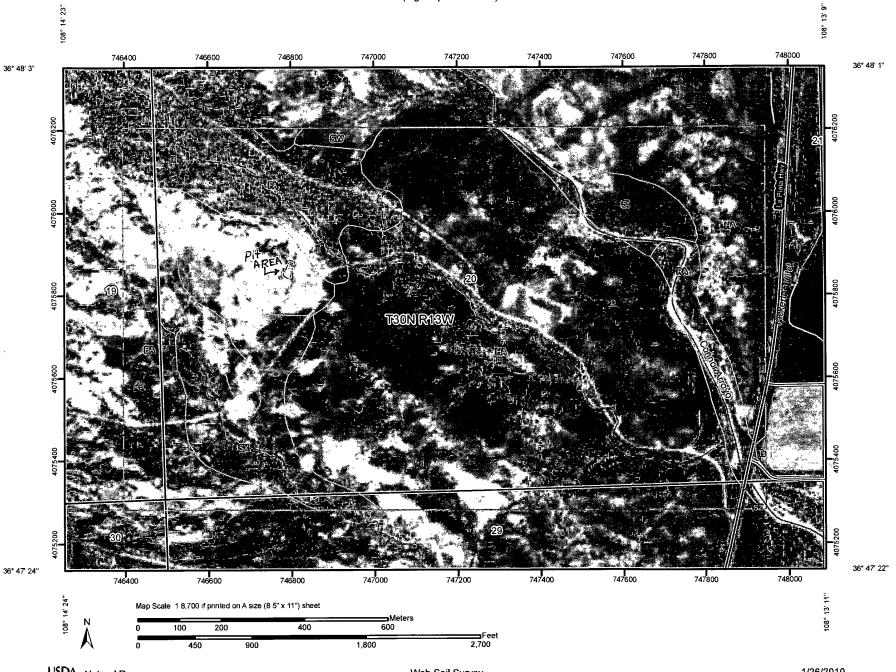
From: Bob Fielder [pmci@advantas.net]
Sent: Wednesday, January 27, 2010 6:27 AM
To: Mark Kelly (mark\_kelly@nm.blm.gov)

Subject: Notification of On Site Burial

McElvain Oil & Gas Properties, Inc. proposes to use the onsite in place burial technique for the reclamation of the temporary pit on the Big Gulp SWD #1 well, providing the residue passes the NMOCD quality requirements. This is your notification as surface owner. If you have any questions please call 505.320.1435.







#### MAP LEGEND MAP INFORMATION Map Scale: 1:8,700 if printed on A size (8.5" × 11") sheet. Area of Interest (AOI) Very Stony Spot Area of Interest (AOI) The soil surveys that comprise your AOI were mapped at 1:63,360. Wet Spot Soils Other Please rely on the bar scale on each map sheet for accurate map Soil Map Units measurements. **Special Line Features Special Point Features** Source of Map: Natural Resources Conservation Service Gully (32) **Blowout** Web Soil Survey URL. http://websoilsurvey.nrcs.usda.gov FE Short Steep Slope Coordinate System UTM Zone 12N NAD83 Borrow Pit X 燹 Other This product is generated from the USDA-NRCS certified data as of Ж Clay Spot the version date(s) listed below. **Political Features** Closed Depression Cities Θ Soil Survey Area: San Juan County, New Mexico, Eastern Part Gravel Pit X Survey Area Data: Version 10, Sep 23, 2009 PLSS Township and Range Gravelly Spot ٨ Date(s) aerial images were photographed: 10/13/1997 PLSS Section Landfill The orthophoto or other base map on which the soil lines were Water Features compiled and digitized probably differs from the background Lava Flow ٨ 77<sup>4</sup>7 Oceans imagery displayed on these maps. As a result, some minor shifting Marsh or swamp of map unit boundaries may be evident, Streams and Canals Mine or Quarry 忿 Transportation Miscellaneous Water Rails Perennial Water Interstate Highways Rock Outcrop **US Routes** Saline Spot Major Roads Sandy Spot Local Roads Severely Eroded Spot Sinkhole Slide or Slip Sodic Spot Spoil Area Stony Spot

## **Map Unit Legend**

San Juan County, New Mexico, Eastern Part (NM618)					
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI		
BA	Badland	52.1	14.7%		
FA	Farb-Persayo-Rock outcrop complex, moderately steep	31.1	8.8%		
НА	Haplargids-Blackston-Torriorthents complex, very steep	213.4	60.3%		
RA	Riverwash	11.3	3.2%		
St	Stumble loamy sand, 0 to 3 percent slopes	13.1	3.7%		
SW	Stumble-Fruitland association, gently sloping	2.3	0.6%		
SX	Stumble-Notal complex, gently sloping	30.2	8.5%		
SZ	Stumble-Slickspots complex, gently sloping	0.1	0.0%		
Ts	Turley clay loam, 3 to 5 percent slopes	0.3	0.1%		
Totals for Area of Inte	rest	353.8	100.0%		

## **MMQonline Public Version**

