District L 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.

### 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 environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.   |
| Operator: Energen Resources Corporation OGRID #: 162928   |
| Address:2010 Afton Place, Farmington, NM 87401  |
| Facility or well name: Gordon A #2E   |
| API Number: 30:045-3481 OCD Permit Number:  |
| U/L or Qtr/Qtr H Section 24 Township 27N Range 10W County: San Juan   |
| Center of Proposed Design: Latitude36.563 N Longitude107.84133 W NAD: ☐1927 ☐1928   |
| Surface Owner: X Federal State Private Tribal Trust or Indian Allotment   |
| Pit: Subsection F or G of 19.15.17.11 NMAC   Temporary:   Drilling   Workover   Permanent   Emergency   Cavitation   P&A     X   Lined   Unlined Liner type: Thickness   20 mil   X   LLDPE   HDPE   PVC   Other       X   String-Reinforced   Volume:   1000 bbl Dimensions: L_100 x w_55 x D_10   |
| 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   Drying Pad   Unlined Liner type: Thickness   mil   LLDPE   HDPE   PVC   Other   Drying Pad   Ground Steel Tanks   Melded   Factory   Other   Ground Steel Tanks   The prior approval of a permit or notice of intent) |
| Below-grade tank: Subsection I of 19.15.17.11 NMAC  Volume: bbl Type of fluid:  Tank Construction material:  Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  Visible sidewalls and liner Visible sidewalls only  Liner type: Thickness mil LLDPE HDPE PVC Other  |
| 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.   |

| 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, scho  | ol, hospital,                      |
| institution or church)  |                                    |
| Four foot height, four strands of barbed wire evenly spaced between one and four feet  Alternate. Please specify  |                                    |
|   |                                    |
| Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)  |                                    |
| ☐ Screen ☐ Netting ☐ Other  |                                    |
| Monthly inspections (If netting or screening is not physically feasible)  |                                    |
| Signs: Subsection C of 19.15.17.11 NMAC   |                                    |
| 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers   |                                    |
| 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.  Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bur  | reau office for                    |
| consideration of approval.  | caa omice to.                      |
| Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.   |                                    |
| 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 ac material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the application of the 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 dry above-grade tanks associated with a closed-loop system. | propriate district<br>of 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 X 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<br>☑ NA                 |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applies to permanent pits)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  | ☐ Yes 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 search; 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 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 ☒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 Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC 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:  |
| 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 Quality Control/Quality Assurance Construction and Installation Plan the appropriate requirements of 19.15.17.11 NMAC 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: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative  Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only)  On-site Closure Method (Only for temporary pits and closed-loop systems)  In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)  |
| 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 G of 19.15.17.13 NMAC  |

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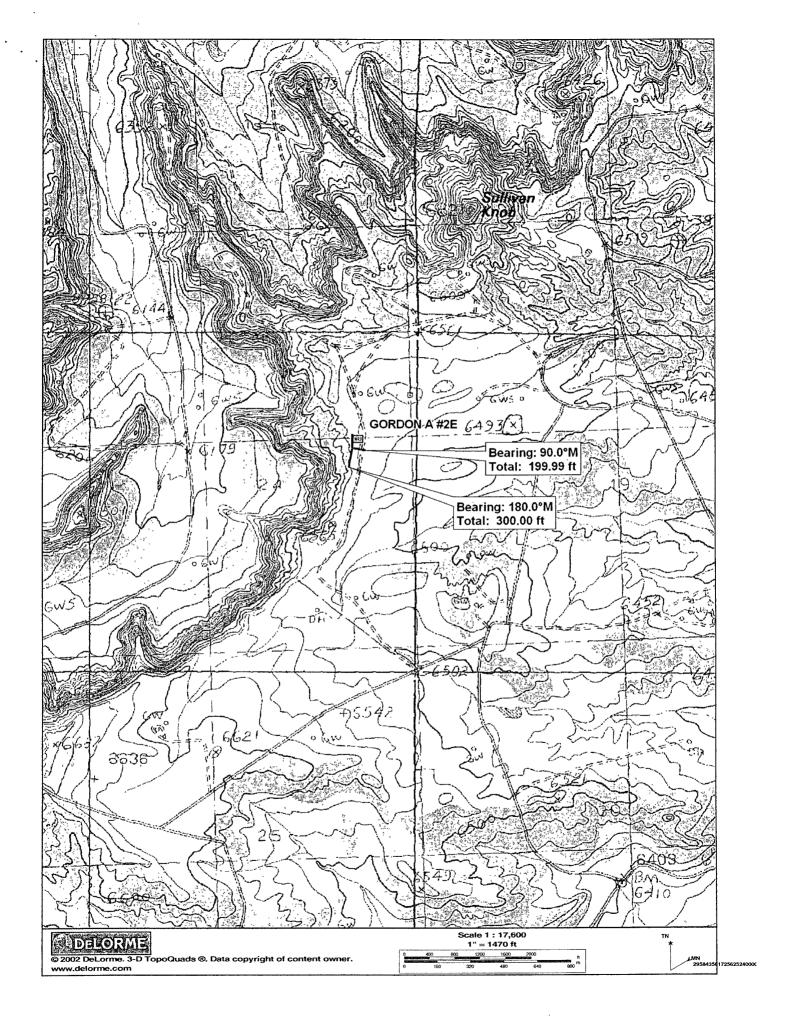
| Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.1 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more   | NMAC)<br>re than two |
|---|----------------------|
| facilities are required.  Disposal Facility Name: Disposal Facility Permit Number:  |                      |
| Disposal Facility Name: Disposal Facility Permit Number:  |                      |
| Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future seroperations?  Yes (If yes, please provide the information below)  No   | vice and             |
| 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   | AC                   |
| 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 dist be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Ju and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.  | rict office or may   |
| Ground water is less than 50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | ☐ Yes ☒ No<br>☐ NA   |
| Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | ☐ Yes ☒ No<br>☐ NA   |
| Ground water is more than 100 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  | Yes □ No     NA      |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other 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.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  | ☐ Yes ☒No            |
| Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site   | ☐ Yes ☒No            |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality   | ☐ Yes ☒No            |
| Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site   | ☐ Yes X No           |
| Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division   | ☐ Yes ☒No            |
| Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map   | ☐ Yes ☑No            |
| Within a 100-year floodplain FEMA map   | ☐ Yes X No           |
| 18.  On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure play a check mark in the box, that the documents are attached.  | nn. Please indicate, |
| Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC   Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC   Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC   Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 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   Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC   Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC   Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC |                      |

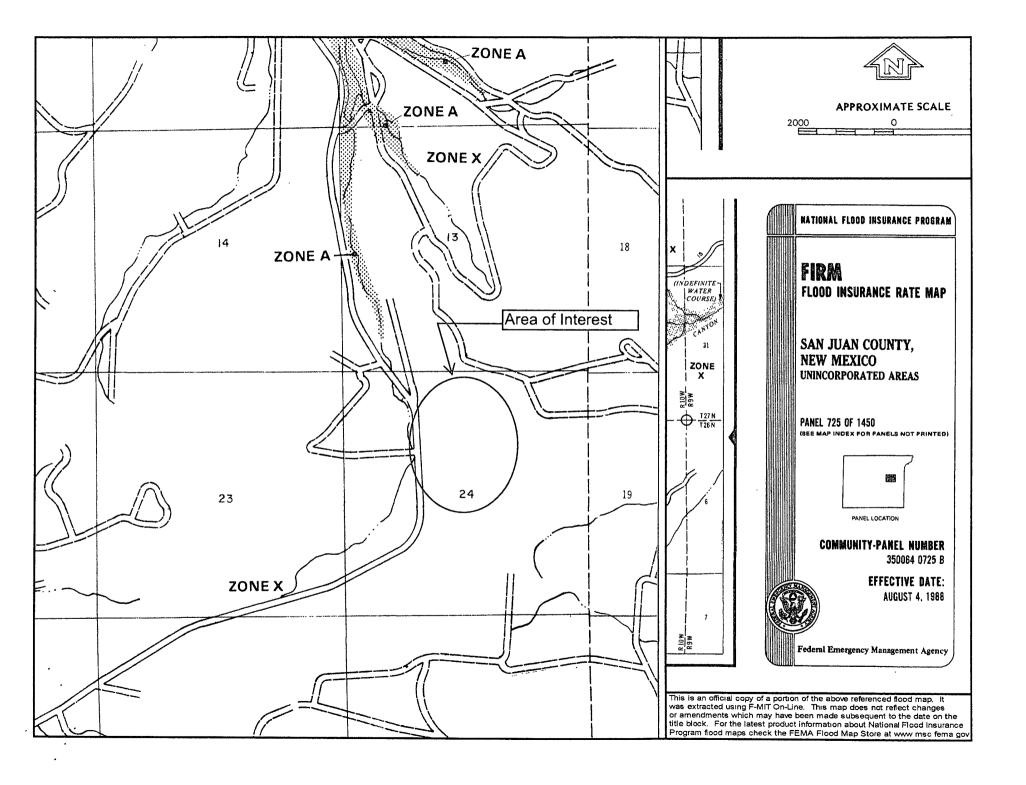
| Operator Application Certification:  I hereby certify that the information submitted with this application is true, accurate an  | d complete to the best of my knowledge and belief.  |  |  |  |
|--|---|--|--|--|
| Name (Print): Jason Kincaid  | Title: Drilling Engineer  |  |  |  |
| Signature:   | Date: 9/15/2008   |  |  |  |
| e-mail address: jkincaid@energen.com   |   |  |  |  |
| OCD Approval: Permit Application (including closure plan) Closure  |   |  |  |  |
| OCD Representative Signature: Bull Fill  Title: Envirologe OCD   | Approval Date: 1-28-09  |  |  |  |
| Title: Envirokpec OCD)   | Permit Number:  |  |  |  |
| Closure Report (required within 60 days of closure completion): Subsection K of Instructions: Operators are required to obtain an approved closure plan prior to impreport. The closure report is required to be submitted to the division within 60 days of complete this section of the form until an approved closure plan has been obtained as   | lementing any closure activities and submitting the closure f the completion of the closure activities. Please do not and the closure activities have been completed. |  |  |  |
|  | Closure Completion Date:  |  |  |  |
| Closure Method:  Waste Excavation and Removal On-Site Closure Method Alternative Closure If different from approved plan, please explain.  | sure Method Waste Removal (Closed-loop systems only)  |  |  |  |
| Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Instructions: Please indentify the facility or facilities for where the liquids, drilling flethan two facilities were utilized.  Disposal Facility Name:   | luids and drill cuttings were disposed. Use attachment if more  |  |  |  |
| Disposal Facility Name: Disposa  | ıl Facility Permit Number:  |  |  |  |
| Were the closed-loop system operations and associated activities performed on or in are  Yes (If yes, please demonstrate compliance to the items below)  No  | as that will not be used for future service and operations?   |  |  |  |
| Required for impacted areas which will not be used for future service and operations:  Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique  |   |  |  |  |
| 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 |   |  |  |  |
| 25.  |   |  |  |  |
| Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report belief. I also certify that the closure complies with all applicable closure requirements a   |   |  |  |  |
| Name (Print):  | Title:  |  |  |  |
| Signature:   | Date:   |  |  |  |
| e-mail address:  | Telephone:  |  |  |  |

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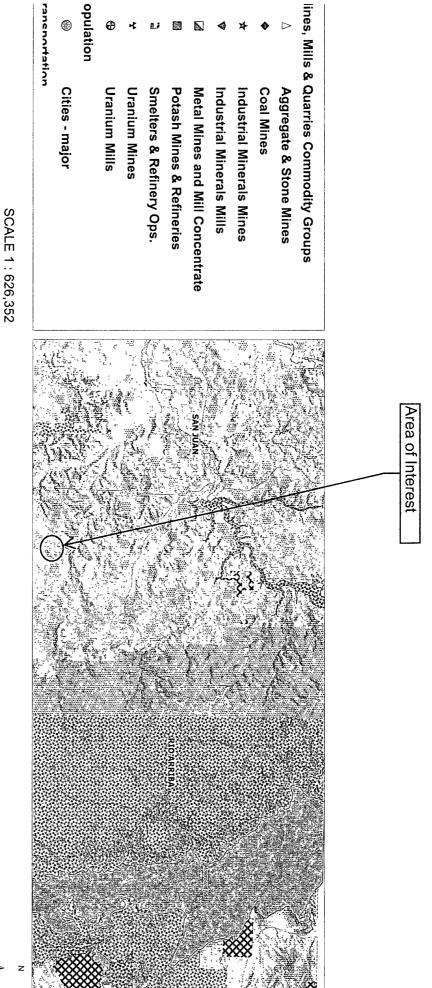
# New Mexico Office of the State Engineer POD Reports and Downloads

| Township: 27N Range: 10W                          | Sections:    | 24                                 | Or Consultation Land Consultation Consultati | Market U.S. |
|---|--------------|------------------------------------|--|-------------|
| NAD27 X: Y:                                       | Zone:        | Searc                              | h Radius:  |             |
| County: SJ Basin:                                 |              | Nun                                | nber:  | Suffix:     |
| Owner Name: (First)                               | (Last)       | ⊚ All                              | O Non-Don  | nestic      |
| POD / Surface Data ReportA                        |              | ater ReportWater (<br>RS Menu Help | -<br>-   |             |
| AVERAGE DEPTH OF W                                | NATER REPORT | •                                  | oth Water in   | ı           |
| Bsn Tws Rng Sec Zone  No Records found, try agair |              | Y Wells Mi                         | in Max   | Avg         |





# VIVICONING TUDIC VERSION



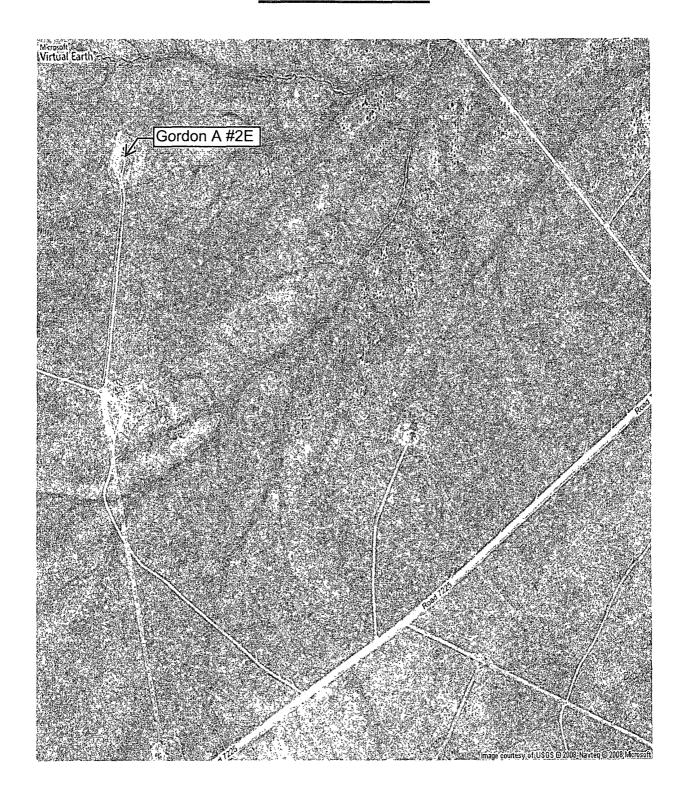


10 MILES

20

30

## **GORDON A #2E**



### Hydrogeologic Data:

### Site Specific:

The Ojo Alamo formation is the highest water bearing zone at this site with the exception of possible perched water. It is the youngest Tertiary bedrock unit in the San Basin. The formation occurs at the surface to a depth of 1470' at the Gordon A #2E location and ranges from 1400' to 1600' in this township and range. Based on topographic maps and aerial photos, there did not appear to be any sandy areas located within drainages that may potentially hold shallow ground water. Drainages in the area with elevation changes suggest that ground water depths, if any, will be below 100'. The only potentially unstable areas in the region are over subsurface coal mines. This pit will not be located over a subsurface mine.

The New Mexico State Engineers Water Report shows no water wells in Sec. 24, Township 27N R10W.

### Excavated Soil Storage:

The soil excavated for the proposed temporary drilling reserve pit will be stored on location and will be more than 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake.

### Geologic Summary:

The Ojo Alamo is a sequence of interbedded sandstones, conglomeratic sandstone, and shales deposited in an alluvial and fluvial environment. The formation accumulated in broad, wet, alluvial aprons. Groundwater is associated with the alluvial and fluvial sandstone aquifers, hence it is controlled by the distribution of these sands.

### Reference:

Stone W.J., Lyford F.P., Frenzel P.F., Mizell N.H., and Padgett E.T.: Hydrology and water resources of San Juan Basin, New Mexico Hydrologic Report 6, 1983.

### Temporary Pit Closure Plan:

The pit will be closed with in place burial. The surface owner will be notified prior to closure by certified mail and the return receipt will be included in the closure packet. The OCD will be verbally or by other means notified at least 72 hours and not more then one week prior to the pit closing. The following process will be used to close the pit:

- 1) At time of closure, all free standing fluids will be removed and the contents will be solidified to a bearing capacity sufficient to support the final cover. This will be accomplished by mixing the contents with soil at a mixing ratio no greater then 3:1 soil to contents.
- 2) The liner will be cut off at the mudline.
- 3) Sampling will be done by collecting a minimum of a five-point composite sample of the contents after stabilization. If the ground water is less then 100 feet below the pit but greater then 50 feet testing for Chlorides will be done to the lower limit. The sample will be analyzed for the following components;

| 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                 | 1000/500      |

- 4) After demonstrating that the stabilized contents are under the limits listed above the contents will be covered with compacted non-waste containing earthen material to a minimum of three feet. If stabilized contents exceed a volume that can be covered with three feet of earth and a foot of topsoil the excess contents will be removed and sent to Envirotech (Permit NM-01-0011). If the stabilized contents do no meet the above stated limits the stabilized contents will all be hauled to Envirotech pursuant to excavation and removal guidelines (19.15.17.13 B1)
- 5) After the stabilized contents have been covered, the stockpiled topsoil will replaced to a minimum depth of one foot. Topsoil cover will be graded to prevent ponding of water and erosion of the cover material. This will be accomplished within six months of rig release.
- 6) The exact location of the on-site burial will be reported to the Aztec field office on the C-105 form. A deed notice identifying the exact location of the on-site burial will be filed with the county clerk. The final closure report (C-144) will be filled within 60 days of closure completion and include sampling results, plot plan, details on back filling, covering and inspections during the life of the pit.
- 7) The disturbed area will be seeded or planted the first growing season after closing the pit. Seed will be drilled on the contour whenever practical or by other division-approved methods. The being to obtain vegetative cover that equals 70% of the native cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation) consisting of at least three native plant species, including at least one grass but not including noxious weeds.

- Cover will be maintained through two successive growing seasons. During the two growing seasons that prove viability there shall be no artificial irrigation of the vegetation. Seeding or planting will continue until the required cover is reached. If conditions are not favorable to establishment of vegetation due to periods of drought or similar problems then the Aztec office of the OCD will be notified. The Aztec office of the OCD will also be notified when the disturbed ground successfully achieves re-vegetation.
- 8) Until the abandonment of the wells on the pad where the pit is located a steel marker no less then four inches in diameter will be cemented in a hole three feet deep in the center of the onsite burial. The top of this marker will be flush with the ground to allow access of the pad as well as safety concerns. Once all wells on the pad are abandoned a four foot tall riser will be welded on top of the marker with; operator name, lease name, well name and number, unit number, section, township and rage, and a designation that it is an onsite burial location

### Temporary Pit Design Plan:

The pit will be designed and constructed in the following manner:

- 1) Top soil will be stripped, stockpiled and stored as designated on the attached well sight layout schematic. Storage will be in accordance with the requirements set forth as described in item B of the the siting requirements of 19.15.17.11 NMAC.
- 2) A sign will be posted on location in accordance with 19.15.3.103 NMAC.
- 3) A four strand barbwire fence will be constructed around the perimeter of the pit with the strands evenly spaced between one and four feet from the ground. This fence will be used to excluded livestock from inadvertently entering the pit. The side of the fence adjacent to the rig will be removed during operations. This fence if located within 1000 feet of a permanent residence, school, hospital, institution or church will be a six foot chain link fence with two strands of barbed wire at the top.
- 4) The pit will be designed to confine liquids, prevent unauthorized releases by constructing a foundation with interior slopes consisting of a firm and unyielding base that are smooth and free of rocks, debris or other sharp edges to prevent liner damage.
- 5) The slopes will be constructed with a 2:1 ratio of vertical to horizontal with a changing slope within five feet of the shale shakers trending towards horizontal.
- 6) The volume of the pit will no exceed 10 acre feet including freeboard.
- 7) The pit will be lines with a LLDPE geomembrane liner with a thickness of no less then 20mm. The liner material will be compatible with EPA SW-846 method 9090A.
- 8) Liner seams will be orientated perpendicular to the largest slope with an overlap of four to six inches.
- 9) If needed a geotextile will be place under the liner to reduce localized stress-strain that may compromise liner integrity.
- 10) The edges of the liner will be anchored in the bottom of a compacted earthfilled trench no less the 18 inches deep.
- 11) To prevent runon of surface water a berm no less then 12 inches high will be constructed around the perimeter of the pit. With drainage ditches being directed to the runoff requirements set forth in the APD Condition of Approval.

### Temporary Pit Operations Plan:

The pit will be operated and maintained; to contain liquids and solids, to insure liner and secondary containment integrity, to aid in the prevention of contamination of fresh water sources, in order to protect public health and the environment. To attain this goal the following steps will be followed;

- The fluids in the pit remaining after rig release will be vacuumed out and transported to active drilling locations to be reused or disposed of with Agua Moss LLC in the Pretty Lady #1 (Disposal API Number # 30-048-30922) within 30 days. Residual fluids after vacuuming will be allowed to evaporate.
- 2) No hazardous waste, miscellaneous solid waste or debris will be discharged into or stored in the pit. Only fluids or cuttings used or generated in the drilling process will be placed or stored in the pit.
- 3) The division district office will be notified within 48 hrs of the discovery of compromised liner integrity. Upon the discovery of the compromised liner repairs will be enacted immediately.
- 4) The division district office will be notified within 48 hrs of the discovery of compromised liner integrity below the fluid level unless more then 25 bbls is released in which case Rule 116's 24 hr notification will apply. All liquid above the damaged liner section will be removed to a level below the damage within 48 hrs and repairs will be enacted.
- 5) Precautionary measures will be taken to insure no liner damage is caused when adding or removing fluids and solids from the pit. This will be accomplished by gradually increasing the slope of the pit from negligible underneath the shale shakers to the 2:1 ratio required by 19.15.17.11 within five feet. A perforated pipe will be installed in the corner of the pit so that a vacuum hose can be run through it to remove fluids without damaging the liner.
- 6) Perimeter berms and ditches will be constructed around the exterior of the pit to prevent surface water run-on but the rig side may be left open to allow location drainage.
- 7) A oil absorbent boom will be maintained on site to remove oil from the pit's surface if necessary. Immediately on the cessation of drilling any accumulated oil will be removed from the surface of the pit.
- 8) A minimum of two feet of freeboard will be maintained at all times. Once fluid levels have the possibility of rising above the minimum freeboard fluid will be vacuumed out of the pit.
- 9) All of the above operations will be inspected and a log will be signed and dated. During drilling operations the inspection will be daily and after rig release they will be carried out weekly as log as there is fluid in the pit.

| 1  | ENTERPR<br>FIELD<br>SERVICES            | inc     |   | GATHERIN               | NG SYSTEM      | DWG. NO.<br>WO NO | 016A737.0-             | <u>036</u> |
|--|---|---------|---|------------------------|----------------|-------------------|------------------------|------------|
| (016A737.0-033-01, R/W NO. 0570083)(MC NO. 85839)  SOLE 1" = 1000  |   |         |   |                        | 4 NO 145       |                   | 0770034                |            |
| SAN JUAN   STATE   NEW MEXICO   SECTION 24   TOWNSHIP 27-N   SHOPPY   TOWN N.M.P.I.  |   |         |   |                        | 4 NO. 145      |                   |                        |            |
| 14   13   13   18   19   19   19   19   19   19   19   |   |         |   |                        |                | SURVEYED          |                        |            |
| 23 24 24 19    LOT 1   LOT 2   LOT 2   LOT 3   LOT 4   LOT 5   LOT 5 | COUNTY SAN JU                           | AN STA  | TE NEW MEXICO   | SECTION_24             | TOWNSHIP_27    | -NRANGE           | 10-W, N.M.             | .P.N       |
| 100  | 14                                      | 1 13    |   |                        |                | 13                | 18                     |            |
| LOT 1   C    C    C    C    C    C    C  | 23                                      | 3 24    |   |                        |                | 24                | 19                     |            |
| LOT 1   Q   Q   Q   Q   Q   Q   Q   Q   Q  |   |         |   |                        |                | <b>≥</b>          | M                      |            |
| LOT 2   Company   Compan |   |         |   |                        |                | i                 |                        |            |
| 23 24   19   1913 U.S.G.L.O.S. 25   30   |   |         |   |                        |                | LOI 1 LE          |                        |            |
| 23 24   19   1913 U.S.G.L.O.S. 25   30   | Ţ                                       |         |   |                        |                | LOT 2             | .o.s.                  |            |
| 23 24   19   1913 U.S.G.L.O.S. 25   30   | ·Ř                                      |         |   | ,                      | NO             | U.S.              | 3.G.L                  |            |
| Subdivision   Sec. 24   United States   Fred Gilbert Armenta, et al 45.572   Construction   Co | F.P.M                                   |         | 7+51.94 PROPOSED I                                    | METER IN               | (NO            | 992.66            | 1_8                    |            |
| Subdivision   Sec. 24   United States   Fred Gilbert Armenta, et al 45.572   Construction   Co | N.N<br>SERV                             |         | GORDON  | l No. 2E i             |                |                   | 191                    |            |
| P.I. 0+74.99.2.20749*158* RT.   P.I. 0+74.99.2.20749*158* RT.   P.I. 0+11.00 C/L ROAD   P.I. 0+10.00 | S OB,                                   |         | P.I. 7+29.30 🛎 4°47<br>PROPOSED ME                    | 7'30" LT.<br>TER OUT   | コー             |                   |                        |            |
| P.I. 0+74.99.2.20749*158* RT.   P.I. 0+74.99.2.20749*158* RT.   P.I. 0+11.00 C/L ROAD   P.I. 0+10.00 | 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - |         | P.I. 3+44.49 46'48                                    | 56'11"E                |                | <u></u>           |                        |            |
| ANGEL PEAK 24 No. 1S  U.S. LOT 3  LOT 4  23 24 19  26 25  DWN. BY DB   | ING.                                    |         | P.I. 0+74.99 \$\times 20 49<br>BEGIN LOOP EXIST, RD 0 | 9'58" RT               |                |                   |                        |            |
| ANGEL PEAK 24 No. 1S  U.S. LOT 3  LOT 4  23 24 19  26 25  DWN. BY DB   | -27-<br>BEAR                            | 0+00    | 0+11.00 C<br>N1*5                                     | /L ROAD '<br>54'57"E L |                | <u> </u>          | S61'21'17'<br>1376.24' | <u>W</u>   |
| LOT 4   19   26   25   25   30   24   19   26   25   30   25   30   25   30   26   25   30   26   25   30   26   25   30   26   25   30   26   25   30   26   25   30   26   25   30   26   25   30   26   25   30   26   25   26   25   30   26   25   26   25   30   26   25   26   25   30   26   25   25   30   26   25   26   25   25   30   26   25   25   30   26   25   25   30   26   25   25   30   26   25   25   25   30   26   25   25   25   25   25   25   25   |   |         | ANGEL PEAK 24   | No. 1S                 |                |                   |                        |            |
| LOT 4   19   26   25   25   30   24   19   26   25   30   25   30   25   30   26   25   30   26   25   30   26   25   30   26   25   30   26   25   30   26   25   30   26   25   30   26   25   30   26   25   30   26   25   26   25   30   26   25   26   25   30   26   25   26   25   30   26   25   25   30   26   25   26   25   25   30   26   25   25   30   26   25   25   30   26   25   25   30   26   25   25   25   30   26   25   25   25   25   25   25   25   | ASIS                                    |         |   |                        |                |                   |                        |            |
| 23 24  26 25  DWN. BY DB CONSTR. COMMENCED APPL. DWG. SLACK CHAIN PIPE SIZE 4.50" O.E.  PRINT RECORD PIPE DATA METER STA. NO.  PRINT RECORD PIPE DATA METER STA. NO.  NOTE: WELL FLAG SURVEY LOOPS EXISTING ROAD LOCATION NOT BUILT  SUBDIVISION OWNER LESSEE METER(S) RODS ACCOUNTY OF SEC. 24 UNITED STATES FRED GILBERT ARMENTA, et al. 45.572 0  | (1)                                     |         |   |                        | _              |                   |                        |            |
| 23 24  26 25  DWN. BY DB CONSTR. COMMENCED APPL. DWG. SLACK CHAIN PIPE SIZE 4.50" O.E.  PRINT RECORD PIPE DATA METER STA. NO.  PRINT RECORD PIPE DATA METER STA. NO.  NOTE: WELL FLAG SURVEY LOOPS EXISTING ROAD LOCATION NOT BUILT  SUBDIVISION OWNER LESSEE METER(S) RODS ACCOUNTY OF SEC. 24 UNITED STATES FRED GILBERT ARMENTA, et al. 45.572 0  | ı                                       |         |   | 1                      | 1              |                   |                        |            |
| 26   25   1913 U.S.G.L.O.S.   25   30   30   |   |         |   |                        |                | LOT 4             | i                      |            |
| 26   25   1913 U.S.G.L.O.S.   25   30   30   |   |         |   |                        |                |                   |                        |            |
| DWN. BY DB   | 23                                      | 3 24    |   |                        |                | 24                | 19                     |            |
| DWN. BY DB   | 26                                      | 25      |   |                        | 1913 U.        | S.G.L.O.S. 25     | ⊚ <u> </u>             |            |
| CKD. BY MD   |   | ,   29  |   |                        |                | 20                |                        |            |
| PRINT RECORD 1 PRELIM PROD 01/23/07 7 SJ DISTRIB 01/31/07 NOTE: WELL FLAG SURVEY LOOPS EXISTING ROAD LOCATION NOT BUILT  SUBDIVISION OWNER LESSEE METER(S) RODS AC PORTIONS OF SEC. 24 UNITED STATES FRED GILBERT ARMENTA, et al 45.572 O  | DWN. BY DB                              | co      | NSTR. COMMENCED                                       | APP                    |                |                   |                        |            |
| PRELIM PROD 01/23/07 7 SJ DISTRIB 01/31/07 NOTE: WELL FLAG SURVEY LOOPS EXISTING ROAD LOCATION NOT BUILT  SUBDIVISION OWNER LESSEE METER(S) RODS AC PORTIONS OF SEC. 24 UNITED STATES FRED GILBERT ARMENTA, et al 45.572 O   |   |         | <del></del>   |                        | M              | PIPE              | SIZE 4.50"             | 0.0        |
| PORTIONS OF SEC. 24 UNITED STATES FRED GILBERT ARMENTA, et al 45.572 C   |   | /23/07  | : WELL FLAG<br>SURVEY LOOPS EXIS                      | STING ROAD             |                |                   |                        |            |
|  | SUBDIVISIO                              |         |   |                        |                |                   |                        | AC         |
|  | 版 PORTIONS OF                           | SEC. 24 | UNITED STATES   | FRED GILBE             | RT ARMENTA, et | al                | 45.572                 |            |
| , A – A – A – A – A – A – A – A – A – A  | OWN                                     |         |   |                        |                |                   |                        |            |
|  |   |         |   |                        |                |                   |                        |            |
|  | ES.                                     |         |   |                        |                |                   |                        |            |

0112112000

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

### 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 June 10, 2003

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☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT API Number <sup>2</sup> Pool Code <sup>3</sup> Pool Name 30-045-34811 71599 DK Property Name Well Number 21917 GORDON #2E OGRID No. <sup>8</sup> Operator Name Elevation 162928 ENERGEN RESOURCES 65431 Surface Location UL or lot no. Section Towaship Range Feet from the North/South line Last/West line County Feet from the SAN JUAN П 24 27N 10W 1793 NORTH 857 **EAST** Bottom Hole Location If Different From Surface UL or let no. Section Range Lot Ida Feet from the East/West line Consty Township North/South line Feet from the G 24 SAN JUAN 27N 10W 2500 NORTH 1900 EAST 12 Dedicated Acres Digt or Infill Consolidation Code 15 Order No. E/2

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 |  |  |                        |                             |  |
|---|--|--|------------------------|-----------------------------|--|
| 16 2 16   | S89°59'00'W<br>N89°56'01"E   |  | 3,36' (R)<br>2,09' (M) | FD 2 1/2"<br>BRASS CAP      | 17 OPERATOR CERTIFICATION  |
| GLO 1913'                                       | 1,000  | 317                                    | 08 (44)                | GLO 1913                    | I hereby certify that the information contained herein   |
|   | 1  |  |                        |                             | is true and complete to the best of my knowledge and   |
|   |  |  | 793                    |                             | belief.  |
|   |  | ,                                      | -                      | (R)                         |  |
| Œ.  |  | 50<br>SN OPERA                         | KUKÙI                  | ()<br>()<br>()              | The second secon |
| 00:   |  |  | TING CO.<br>SEL-PEAK   | 2640.39' (<br>2640.00'      | Supridiure 1   |
| 5280:00' (R)                                    |  | , ya                                   | 24H #14                | 88                          | Product Name  Product Name  Product Name   |
|   |  | ENERGEN RESOU                          |                        | CUPELOE HOLE                | Product Name   |
|   |  | GORDO                                  | V #2E →                | SURFACE HOLE                | m cmc.nv.  |
|   |  | 36                                     | M. J.                  | 42.<br>00"[                 | Title and E-mail Address   |
|   |  | 255 66                                 | (gr                    | *18'<br>*22'                | 8//3/200-8 DIST. 3   |
|   | KUKUI OPERATING CO<br>ANGEL PEAK 24 #95  |  |                        | S00*18'42'W.<br>N00*22'00'E | Date   |
|   |  | Воттом                                 | OLE :                  | 1900'                       |  |
|   | ^  | ************************************** |                        | FD. 2 1/2"<br>BRASS CAP     | TESURVEYOR CERTIFICATION   |
|   | `  | KUKUI OPE                              | DATING CO              | GLO 1913                    | I hereby certify that the well location shown on this  |
|   |  | ANGEL PE                               |                        | sy E                        | plat was plotted from field notes of actual surveys  |
|   | er fan de skriver fan | `                                      |                        | 大<br>2640.00°               | made by me or under to care surrey, and that the   |
|   |  |  |                        | 2641                        | same is true angleorroct to the best of my bolist.   |
| <sub> </sub>                                    | Parties and the second  | ,                                      |                        |                             | 7/17/08/00/100   |
| <b>E</b> -                                      |  | ······································ | 1                      |                             | Date of Sirvey 20 11952 6  |
| ž   | 9  | FNERGEN RESOUR<br>GORDON               | CES<br>A #iz-O-        | ត្ត                         | Date of Survey m 11952 Signature and Safet antiseasonal Surveyor 7   |
|   | 4  |  |                        | 2.00                        | Na Naw 181   |
|   |  |  |                        | N00*22*00"E                 | CONTRACTOR OF THE PARTY OF THE  |
|   |  |  | -                      | 2                           | NOFESSION !  |
|   |  |  |                        |                             | NM #11952  |
|   | }  |  |                        | FØ. 2 1/2*<br>BRASS CAP     | Centificate Number   |
|   | N89°58'00'W  | 5146.6                                 | 8' (R)                 | CLO 1913                    |  |

