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WRITER:

Gary W. Larson, Partner glarson@hinklelawfirm.com

December 20, 2010

<u>VIA HAND DELIVERY</u>

Florene Davidson Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, NM 87505

Case 14601

Re: Application of Agave Energy Company

Dear Florene:

Enclosed for filing please find the following:

- 1. The original and one (1) copy of an application by Agave Energy Company for authorization to inject;
- 2. The original and one (1) copy of Agave Energy's H2S Contingency Plan (the contingency plan also is included in the application as Appendix E); and
- 3. A CD with pdf copies of the application and contingency plan.

I request that the application be set for hearing on the January 20, 2011 Examiner Docket.

Thank you for your attention to this matter. All the best for the holidays.

Sincerely, anson/ Garv W. Larson

GWL:js Encls.

> PO BOX IO ROSWELL, NEW MEXICO 88202 (575) 622-6510 FAX (575) 623-9332

PO BOX 3580 MIDLAND, TEXAS 79702 (432) 683-4691 FAX (432) 683-6518 PO BOX 2068 SANTA FE, NEW MEXICO 87504 (505) 982-4554 FAX (505) 982-8623





C-108 Application for Authorization to Inject via Metropolis Disposal #1 (API 3001531950) Agave Energy Dagger Draw Gas Plant Eddy County, New Mexico



December 20, 2010

Prepared For: Agave Energy Company 105 S. Fourth Street Artesia, NM 88210

Submitted To: New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Prepared By: Geolex, Inc. 500 Marquette Ave. NW, Suite 1350 Albuquerque, NM 87102 Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

APPLICATION FOR AUTHORIZATION TO INJECT

1. PURPOSE: Request for authorization to inject acid gas into the existing Acid Gas Injection (AGI) well (API# 3001531950). Prior authorization to inject was granted in Administrative Order SWD-936 and was automatically terminated due to a 12-month lack of injection into the well. Agave seeks renewal of that authorization to inject with some modifications.

II. OPERATOR:

Agave Energy Company 105 S. Fourth Street Artesia, NM 88210

Contact Party: Alberto A. Gutiérrez, CPG – Geolex, Inc. Office 505-842-8000

III. WELL DATA:

Available information on registered wells within 2 miles of the existing AGI well (API# 3001531950) is included in Section 5.0 and Appendices B and C. A schematic of existing design and well components and proposed modifications for the well is included as Figures 5-6 and discussed in Section 3.0.

IV IS THIS AN EXPANSION OF AN EXISTING PROJECT?

This is not an expansion of an existing project.

V. ATTACH A MAP THAT IDENTIFIES ALL WELLS AND LEASES WITHIN TWO MILES OF ANY PROPOSED INJECTION WELL WITH A ONE-HALF MILE RADIUS CIRCLE DRAWN AROUND EACH PROPOSED INJECTION WELL. THIS CIRCLE IDENTIFIES THE WELL'S AREA OF REVIEW.

Appendix B contains a summary table (Table B-1) and a map (Figure B-1) showing the locations of all known wells within 2 miles of the proposed AGI well.

The locations of all wells within the 1-mile area of review of the proposed injection well are discussed in Section 5.0 and Appendix B. Figure B-2 (Appendix B) shows all wells within one mile of the proposed AGI and Table B-2 summarizes well data.

Lists of, and maps showing, locations of leases and data on surface owners, mineral owners, residents and other potentially interested parties within the area of review are included in Appendix D.

VI. ATTACH A TABULATION OF DATA ON ALL WELLS OF PUBLIC RECORD WITHIN THE AREA OF REVIEW WHICH PENETRATE THE PROPOSED INJECTION ZONE. SUCH DATA SHALL INCLUDE A DESCRIPTION OF EACH WELL'S TYPE, CONSTRUCTION, DATE DRILLED, LOCATION, DEPTH, RECORD OF COMPLETION, AND A SCHEMATIC OF ANY PLUGGED WELL ILLUSTRATING ALL PLUGGING DETAIL.

The tabulation of the available public data on wells within the 1-mile area of review is presented in Table B-2 and plugging diagrams for wells penetrating the San Andres within the 1-mile radius and other associated well plugging data are provided in Appendix C.

VII. ATTACH DATA ON THE PROPOSED OPERATION, INCLUDING:

- 1. Proposed average and maximum daily rate and volume of fluids to be injected;
- 2. Whether the system is open or closed;
- 3. Proposed average and maximum injection pressure;
- 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
- 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- 1. Proposed injection volume is a maximum of approximately 205 barrels per day of acid gas. Details of injection volumes and injection pressures are discussed in Section 3 and Table 1.
- 2. The proposed injection sequence of the Devonian Montoya Formations is a closed system. Additional geological data for the area of the proposed injection well is described in Section 4.0
- 3. The proposed maximum injection pressure is 3,280 psi, and pressure calculations are provided in Table 1 and Section 3.2. At the depth of the proposed injection zone (9,930 to 10,500 feet), the lithostatic pressure is approximately 10,000 psi, preventing any potential for fracturing.

- 4. The acid gas stream is composed of approximately 38% Carbon Dioxide, 61% Hydrogen Sulfide, and traces (<1%) of methane, nitrogen and hydrocarbons. This acid gas stream is compressed at the Dagger Draw Gas Plant and then transported through a double-lined, monitored pipeline to the wellhead prior to injection. Representative analyses of the acid gases are included in Appendix A.
- 5. Formation waters in the proposed zone (Devonian-Montoya) were researched from available regional data. These analyses show that the formation waters have Total Dissolved Solids (TDS) greater than 10,000 parts per million (ppm) and a specific gravity of 1.1. The data are included in Appendix A.
- *VIII. ATTACH APPROPRIATE GEOLOGIC DATA ON THE INJECTION ZONE INCLUDING APPROPRIATE LITHOLOGIC DETAIL, GEOLOGIC NAME, THICKNESS, AND DEPTH. GIVE THE GEOLOGIC NAME, AND DEPTH TO BOTTOM OF ALL UNDERGROUND SOURCES OF DRINKING WATER (AQUIFERS CONTAINING WATERS WITH TOTAL DISSOLVED SOLIDS CONCENTRATIONS OF 10,000 MG/L OR LESS) OVERLYING THE PROPOSED INJECTION ZONE AS WELL AS ANY SUCH SOURCES KNOWN TO BE IMMEDIATELY UNDERLYING THE INJECTION INTERVAL.

The general Stratigraphy in the vicinity of the proposed well is summarized as:

Unit	From (feet)	To (feet)	Thickness (feet)
Alluvium	0	~440	~440
Grayburg	~440	770	~330
San Andres	770	2163	1393
Glorieta	2163	3833	1670
Tubb	3833	4440	607
Abo	4440	5700	1260
Wolfcamp	5700	7652	1952
Cisco (Penn)	7652	8242	590
Strawn	8242	8698	456
Atoka	8698	8932	234
Morrow (clastic)	8932	9248	316
Chester	9248	9396	148
Mississippian	9396	9853	457
Woodford	9853	9857	4
Devonian	9857	9935	78
Fusselman	9935	10,349	414
Montoya	10,349	10,640	~290
Simpson	10,640	10,665	~25
Ellenburger	10,665	11,125	~460
Bliss	11,125	11,255	~130
Granite	11,255		

The injection target zone for the proposed well is:

0. C. A.L.

B . 24

Geological Name:	Devonian, Fusselman, and Montoya Formation
Lithologies:	Dolomite
Thickness:	Approximately 780'
Depths:	9930' to 10,500'

The geometry of the overlying formations and the proposed injection zone are discussed in Section 4.0, and the regional stratigraphy is shown in Figure 8. A cross-section of the proposed injection area is presented in Figure 11. In this area, the Devonian is capped by the low-permeability shaly interbeds of the Mississippian Limestone above, and by shales in Simpson and Ellenburger below.

As part of our geological analysis of the site, we have researched the available net porosity for the proposed injection zone. As shown in Section 4.3, and in Figure 12, we have determined that there are approximately 24 feet of total net porosity (570' injection interval with average 4.2% porosity) in the Devonian-Montoya Zone.

Based on the maximum requested injection volumes described in Section 3.2, and a conservative effective net porosity of 24 feet, we calculated that there will be a maximum use of approximately 12 acres at the maximum projected injection rate of 205 barrels per day. Calculations are included in Section 4.3. The calculated radius of injection, after 30 years, will be approximately 390 feet (0.074 miles) around the proposed AGI well. This area of the reservoir calculated to be affected after 30 years of injections is shown in Figure 15.

The only significant drinking water aquifer is in the surficial, alluvial deposits. This unit is locally less than 450 feet thick, and the unconfined aquifer in this formation is encountered at 100 to 275 feet below the surface and cased off with surface casing of the AGI

well. The identified wells in the one mile area of the proposed AGI well are identified in Section 4.5, detailed in Table 3. Analyses of drinking water samples from two representative water wells are included in Appendix A. These analyses show that the Total Dissolved Solids (TDS) for the analyzed drinking water were approximately 1050 milligrams per liter.

IX. DESCRIBE THE PROPOSED STIMULATION PROGRAM, IF ANY.

Stimulation programs, if necessary, will be evaluated following testing of the well. Some acidizing is routinely done after a workover prior to injection to clean up the hole.

*X. ATTACH APPROPRIATE LOGGING AND TEST DATA ON THE WELL. (IF WELL LOGS HAVE BEEN FILED WITH THE DIVISION, THEY NEED NOT BE RESUBMITTED).

The previously permitted AGI well (API 3001531950; 1650 FWL, 1650 FSL, Section 36, 18S, 25E) exists on New Mexico State property. This well was recompleted to its current depth of 10,500 feet to in preparation for acid gas injection. Geophysical logs were collected during the initial drilling of the well and recompletion; this logs are on file at NMOCD. The well will be serviced and modified as described in Section 3.3, prior to the recommencement of injection.

*XI. ATTACH A CHEMICAL ANALYSIS OF FRESH WATER FROM TWO OR MORE FRESH WATER WELLS (IF AVAILABLE AND PRODUCING) WITHIN ONE MILE OF ANY INJECTION OR DISPOSAL WELL SHOWING LOCATION OF WELLS AND DATES SAMPLES WERE TAKEN.

The identified fresh water wells in the one mile area of the proposed AGI are identified in Section 4.5, and detailed in Table 3. Analyses of drinking water samples from two representative water wells are included in Appendix A. These analyses show that the Total Dissolved Solids (TDS) for the analyzed drinking water were roughly 1050 milligrams per liter.

XII. APPLICANTS FOR DISPOSAL WELLS MUST MAKE AN AFFIRMATIVE STATEMENT THAT THEY HAVE EXAMINED AVAILABLE GEOLOGIC AND ENGINEERING DATA AND FIND NO EVIDENCE OF OPEN FAULTS OR ANY OTHER HYDROLOGIC CONNECTION BETWEEN THE DISPOSAL ZONE AND ANY UNDERGROUND SOURCES OF DRINKING WATER.

We have analyzed the available geological and engineering data and affirm that there are no open faults or other hydrogeological connections between the proposed injection zone(s) and the known sources of drinking water (see Sections 4.0 and 5.0).

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

Notices are being prepared for adjacent operators, surface owners and tenants, and a public notice for interested parties will be published in Eddy County, New Mexico. Copies of all certified notices are provided in Appendix D. Return Receipt from notices and copies of the publication affidavits will be submitted upon receipt.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Alberto A. Gutierrez, CPG

TITLE: <u>Consultant to Agave Energy Company.</u> DATE: <u>12/20/2010</u>

SIGNATURE: ____

E-MAIL ADDRESS: <u>aag@geolex.com</u> If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

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Geolex, Inc.

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Geolex, Inc.

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Appendix E:

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Geolex, Inc.

1.0 EXECUTIVE SUMMARY

On behalf of Agave Energy Company, Geolex[®], Inc. (Geolex) has prepared and is hereby submitting a complete C-108 application for authorization to inject acid gas. This will be carried out via the modification-of-and reactivation of a previously-approved acid gas and CO₂ sequestration well. This well, which is the Metropolis Disposal #1 (API #3001531905), is located 8 miles southwest of Artesia between the Rio Peñasco and Four Mile Draw. More specifically, the well is located at 1,650' FSL and 1,650' FWL of Section 36, Township 18 South, Range 25 East of Eddy County, New Mexico. It is roughly one mile south of the Agave Dagger Draw Processing Plant.

The Metropolis Disposal #1 well has a total depth of 10,500 ft in the Montoya Formation. The proposed injection zone will be within the basal Devonian, the Fusselman and the Montoya Formations (9,930 ft to 10,500 ft). Analysis of the reservoir characteristics of the Fusselman and Montoya Formations in this area confirms that it is an excellent closed-system reservoir that will accommodate the future needs of Agave for disposal of acid gas and sequestration of CO_2 from the plant. Agave needs to inject a maximum of 0.5 MMSCF/D (205 bbl/d at operating injection pressure) of treated acid gas (TAG) for at least 30 years. Geologic studies conducted for the selection of this location demonstrate that the proposed injection zone is capable of accepting and containing the proposed acid gas and CO_2 injection volumes within NMOCD's recommended maximum injection pressures.

In preparing this C-108 application, Geolex conducted a detailed examination of all of the elements required to be evaluated in order to prepare and obtain approval for this application for injection. The elements of this evaluation include:

- Identification and characterization of all hydrocarbon-producing zones of wells that surround and are present on the plant site;
- The depths of perforated pay intervals in those wells relative to the depth of the target injection zone (Devonian, Fusselman and Montoya Formations);
- The past and current uses of the Devonian, Fusselman and Montoya Formations;
- Total feet of net porosity in the proposed injection zone;
- The stratigraphic and structural setting of the Devonian, Fusselman and Montoya relative to any nearby active wells;
- The identification of all surface owners, residents or businesses having facilities within a one mile radius of the proposed injection well;
- The identification of all wells and of all operators within a one mile radius of the proposed injection well;
- Identification and characterization of all plugged wells within a one mile radius of the proposed injection well, including plugging diagrams of all plugged wells within this one mile radius;
- The details of the proposed injection operation, including general well design and average and maximum daily rates of injection and injection pressures;
- Sources of injection fluid and compatibility with the formation fluid of the injection zone
- Location and identification of any fresh water bearing zones in the area; the depth and quality of available groundwater in the vicinity of the proposed well, including a determination that there are no structures which could possibly communicate the disposal zone with any known sources of drinking water;
- An H₂S Contingency Plan (Rule 11) for the facility which accommodates the proposed changes in operation is included as Appendix E to this application;
- A certification that there is no known connection between the proposed well and any source of fresh water.

12/20/10

Based upon this detailed evaluation, as summarized in this application, Agave has determined that the proposed injection well is a safe and environmentally-sound project for the disposal of acid gas. Furthermore, the project provides additional environmental benefit to the state by permanently sequestering CO_2 which would otherwise continue to be released to the atmosphere and eliminate SO_2 emissions which result from flaring acid gas.

The identified AGI target is approximately a 570 foot thick sequence of dolostones extending from the base of the Devonian Formation to the Upper Ordovician Montoya Formation. This zone is located from 9,930 to 10,500 ft depth. Available geophysical logs indicate that the proposed injection zone exhibits an <u>average of 4.2%</u> porosity, and our calculations show a net porosity for the injection zone of approximately 24 feet. The proposed injection zone is effectively sealed on top by the overlying Woodford Shale and Mississippian Limestone, both Mississippian in age, and below by the underlying shales and limestones of the Middle Ordovician Simpson Formation.

Based on 24 feet of net porosity, a thirty-year period of injection at a maximum of approximately 0.5 MMSCF per day (approximately 205 bbls/day of compressed TAG) would occupy an area of only approximately 11 acres, covering a radius of approximately 400 feet around the AGI well. The Metropolis Disposal #1 well previously injected up to about 0.2 MMSCF of acid gas per day from February 2006 until July 2007 at pressures of 1,100-1,200 psi, well below the originally-permitted maximum pressure of 1,980 psi for a mix of TAG and produced water. There are currently six permitted and operating salt water disposal (SWD) wells completed in the proposed injection zone in the general area of the plant, but the closest well (Roy SWD #3) is approximately 4.9 miles away, well outside the one-mile radius of evaluation within the proposed injection zone and the area of review required for the MNOCD C-108 application. According to NMOCD files, these six SWD wells currently accept from 100 to over 7,000 barrels of fluids per day, at pressures below their permitted levels. Based on these data, we have concluded that the proposed injection zone provides ample porosity, permeability and volume to serve Agave's injection needs.

Twenty-four wells (excluding Metropolis Disposal #1), of which nine are active, are found within the one-mile radius of the proposed AGI well. Only three of these wells are located within a half-mile radius of the well. Of the nine active wells located between the half-mile and one-mile radii, four are oil wells completed in the San Andres-Yeso Pool and the remaining five are gas wells completed in the Atoka-Morrow zone. All nine of these wells are operated by the Yates Petroleum Co. The last operators of the 15 plugged wells include: Amoco Production Co., Anadarko Petroleum Corp., Gulf Oil Corp., Monsanto Oil Co., Resler and Sheldon, and Yates Petroleum Co. *None of the wells, active or plugged, have penetrated the proposed injection zone, in fact, none have penetrated the ~450 ft thick Mississippian Limestone that serves as the cap to the proposed injection zone. Therefore, AGI activities will not cause any impacts to existing production and/or plugged wells.* Furthermore, Geolex believes that the geologic environment is ideal to demonstrate the required capture and sequestration of CO₂ to obtain credits or offsets.

The nearest body of surface water is the Peñasco River, an ephemeral stream/river located approximately one mile north of the plant. Five freshwater wells were identified in the one-mile area in a search of the New Mexico State Engineer's files. These wells will not be impacted by the proposed AGI project because the freshwater aquifer is protected by the surface casing of the Metropolis Disposal #1. Although the San Andres serves as a freshwater resource in other parts of Eddy County, no freshwater is found below 450 ft depth in the vicinity of the Metropolis Disposal #1.

2.0 INTRODUCTION AND ORGANIZATION OF THIS C-108 APPLICATION

The completed NMOCD Form C-108 is included before the Table of Contents of this document and references appropriate sections where data required to be submitted are included.

This application organizes and details all of the information required by NMOCD to evaluate and approve the submitted Form C-108 – Application for Authorization to Inject. This information is presented in the following categories:

- A detailed description of the location, construction and operation of the proposed injection well (Section 3.0)
- A summary of the regional and local geology, the hydrogeology, and the location of drinking water wells within the area of review (Section 4.0)
- The identification, location, status, production zones, and other relevant information on oil and gas wells within the area of review (Section 5.0)
- The identification and required notification for operators and surface land owners that are located within the area of review (Section 6.0)
- An affirmative statement, based on the analysis of geological conditions at the site, that there is no hydraulic connection between the proposed injection zone and any known sources of drinking water (Section 7.0)

In addition, this application includes the following supporting information:

•	Appendix A:	Acid Gas injection Records for the Metropolis Disposal #1 well During 2006-
		2007; Injection Reservoir Fluid and Treated Acid Gas Analyses
•	Appendix B:	Maps and tables showing all active; temporarily abandoned, abandoned
		and plugged oil and gas wells included within two-mile and one-mile areas and
		associated plugging reports and CD with complete NMOCD file on each
		plugged well
•	Appendix C:	Map Showing Location of Water Wells Within One Mile Area of Review; NM
		State Engineer's Records Related to Plugged Water Well Within One Mile Area
		of Review; Available Analysis of Groundwater Samples Within One-Mile Area
		of Review
•	Appendix D:	Maps and tables showing operators in the one-mile radius area of review.
		Maps and tables showing land ownership and other required notice parties
		in the one-mile radius area of review. Copy of draft legal notice and generic
		notice letter to individuals to be noticed by certified mail
•	Appendix F	Revised Rule 11 Plan for the Agave AGI Well

• Appendix E: Revised Rule II Plan for the Agave A

3.0 PROPOSED MODIFICATION AND OPERATION OF METROPOLIS DISPOSAL #1 WELL

3.1 BACKGROUND

The Metropolis Disposal #1 (API #30-015-31905) was initially drilled in late 2001 by Yates Petroleum as an exploratory gas well, extending into the Chester formation, to a depth of 9,360 ft. It is located 8 miles southwest of Artesia between the Rio Peñasco and Four Mile Draw (Figure 1). More specifically, the well is located at 1,650' FSL and 1,650' FWL of Section 36, Township 18 South, Range 25 East of Eddy County, New Mexico. It is roughly one mile south of the Agave Dagger Draw Processing Plant. After electric logs found no commercial deposits of hydrocarbons, the open hole portion of the well was abandoned in October 2001. Agave Energy filed an application with the NMOCD to convert the well to an acid gas disposal well in 2004, and Administrative Order SWD-936 (approval-to-inject acid gas and produced water) was issued August 31, 2004. Subsequent to NMOCD approval, Agave (in conjunction with Yates as the drilling consultant) re-entered the abandoned hole, and drilled to a TD of 10,500 ft on October 27, 2004.

The well and the surface facilities were completed and acid gas injection commenced in late March-early April 2006. The well design is described in Section 3.3. A total of 38.85 MMSCF of TAG was injected into the Metropolis Disposal #1 between March 24, 2006 and July 5, 2007 (Appendix A). Although the well was permitted for the mixed injection of TAG and plant wastewater, no wastewater was ever injected. Since July 5, 2007, no injection of any kind has occurred. On September 10, 2009, the well underwent a successful MIT test. In response to a March 25, 2010 letter from NMOCD, Agave is seeking to have this well re-permitted for the injection of treated acid gas only.

3.2 PROPOSED INJECTION STREAM AND MAXIMUM INJECTION PRESSURE

As described above, the well has been re-designed and re-constructed such that it will serve as the injection conduit only for TAG. The proposed plan is to inject a maximum of 0.5MMSCF per day of dry TAG (roughly 205 bbl/day at operating injection pressure) with approximately the following composition:

• 61% H₂S

1.000

1. S. S. S. S.

- 38% CO₂
- Trace Components of $C_1 C_7 (\le 1\%)$.

Detailed analysis of the TAG is included in Appendix A.

The calculated maximum allowable injection pressure would be approximately 3,300 psi (depending on the final specific gravity of the TAG injection stream). We have used the following method approved by NMOCD to calculate the preliminary proposed maximum injection pressure. The final maximum permitted surface injection pressure should be based on the specific gravity of the injection stream according to the following formula:

 $IP_{max} = PG (D_{top}) \quad \text{where:} \quad IP_{max} = \text{maximum surface injection pressure (psi)} \\ PG = \text{pressure gradient of mixed injection fluid (psi/ft)} \\ D_{top} = \text{depth at top of perforated interval of injection zone (ft)} \end{cases}$

and $PG = 0.2 + 0.433 (1.04 - SG_{TAG})$ where: SG_{TAG} = specific gravity of treated acid gas at injection pressure of 1200 psi.

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For the maximum requested injection volume, case it is assumed that:

 $SG_{TAG} = 0.74$ $D_{ton} = 9927$

Therefore:

PG = 0.2 + 0.433 (1.04 - 0.74) = 0.331 $IP_{max} = PG(D_{top}) = 0.331(9927) = 3288$

Based on the performance of the existing injection well and the relatively small volume of TAG to be injected, it is anticipated that the average injection pressure would not exceed 1,600 psi. Based on the above calculations, Agave is requesting approval of a maximum injection pressure to be 3,280 psi at the surface.

3.3 AGI SURFACE FACILITY AND WELL DESIGNS

In accordance with NMOCD Administrative Order SWD-936, an existing SWD well (API #30-015-31905) was deepened and recompleted as the Metropolis Disposal #1 AGI well in August 2004. Below we describe the existing surface facility and well designs. In addition, we describe testing and modifications that will be performed subsequent to the approval of this application and prior to recommencement of injection of acid gas into the well.

Surface Facility. The low gauge pressure (<10 psi), acid gas stream from the amine unit is routed to the acid gas compressor (Figure 2). The stream is then subject to a series of compression and cooling cycles, thus dehydrating and compressing the acid gas stream to a gauge pressure of approximately 1,150 psi. The high pressure acid gas stream then flows through buried, double-lined pipeline with leak detection that contains a 2" stainless steel pipeline that carries TAG from the plant to the wellhead.

The pipeline runs from the Agave Dagger Draw Plant in a southwesterly direction and crosses Kincaid Road at the plant boundary and continues southwesterly along a gravel road for approximately 3,680 ft (Figure 3). The pipeline then turns east along the Metropolis Disposal #1 access road for an additional 900 ft to the wellhead. After crossing Kincaid Road, the pipeline and well are contained within Section 36, Township 18 South, Range 25 East which is owned by the State of New Mexico (Figure 3). Agave Energy has Right-of-Ways from the State of New Mexico and an oil and gas lease for the Metropolis Disposal #1 well site. The pipeline is buried at a depth of 6.5 ft throughout its length and it is marked, as required, with permanent surface markers, as shown in Figure 4.

There are number of safeguards designed to prevent leaks or overpressure of the system. The acid gas compressor is equipped with multiple pressure transmitters. These transmitters monitor compressor suction and discharge pressures and are programmed to shut the acid gas system down when the pressures fall outside a pre-programmed operating range. As an additional safeguard, the compressor panel is also equipped with high and low pressure shutdowns for each stage of compression that will shut the compressor down when pressures reach preset high and low pressure set points.

The acid gas pipeline is a double-lined system with a continuous leak detection system installed. The acid gas pipeline is constructed from 2" 304 stainless steel tubing. The pipeline has been designed with a maximum allowable working gauge pressure of 2,350 psi. Historical injection gauge pressures average 1,150 psi. For leak detection purposes, the 2" acid gas line has been encased in 6" SDR 11 polyethylene pipe. A "sweet" gas stream flows through the annulus between the 6" and 2" pipelines at a preset pressure and flow rate. This sweet gas stream is monitored continuously for H₂S and over/under pressure. If any

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one variable falls outside the predetermined operating range, the acid gas compressor is shut down and the acid gas stream is routed to the flare.

Additional safeguards for the acid gas injection include a subsurface safety valve. This valve is designed to isolate and shut in the injection well if a leak occurs along the acid gas pipeline or at the surface of the well.

The final design for the surface facilities and associated piping and layout of H_2S alarms and other safety equipment are included in the revised H_2S Contingency Plan Rule 11 included herein as Appendix E.

Well Design. The existing well is completed with three casing strings: 13 3/8" surface casing to 400 ft, 8 5/8" intermediate casing to 1,200 ft; 5 $\frac{1}{2}$ " casing to 9,927 ft; and extends as an open hole to a total depth of 10,500 ft (Figures 5 and 6 show the current and recompleted configurations of the Metropolis #1). A 5 $\frac{1}{2}$ " casing joint of corrosion resistant alloy (CRA; 28-110 VAM alloy) was set from 9,850 ft to 9,927 ft. The 13 3/8" and 8 5/8" casings were cemented with Class C cement that was circulated. The 5 $\frac{1}{2}$ " casing was cemented in two stages, but had lost returns. Cement was squeezed through perforations at 8,250 ft and again at 1,870 ft; the final squeeze was circulated to the surface. Following the squeeze jobs the 5 1/2" casing was successfully tested at 1,000 psi for 30 minutes. The current injection string includes a 2 7/8" internally coated tubing, completed with a Halliburton 13-20# permanent packer, made of Incoloy[®] 925 with fluorel elements set at 9,857 ft and a Halliburton injection valve, also made of Incoloy[®] 925, set at 154 ft. Incoloy[®] 925 is a nickel-iron chromium alloy that is resistant to corrosion and pitting. The well recently passed an MIT test on September 10, 2009.

Prior to recommencement of injection the well will be tested and several modifications performed. Since the well has been shut in for at least 3 years, a full inspection and rebuild of the production tree will be performed to ascertain its condition. This will require removing the tree from the casing head and movingit to the Wood Group mechanical shop in Odessa, Texas. At that time, elastomer seals will be replaced and the valve bodies (including gates, bonnets and valve stems) will be inspected and replaced if necessary.

After the tree is removed, a recompletion rig will be brought in and the tubing will be pulled sufficient to reach the existing Halliburton injection valve. The injection valve will be removed and replaced by an Incoloy[®] 925 subsurface safety valve (SSSV) with a sliding sleeve, a stainless control line, and a remote control panel. Additional tubing will be pulled and the new SSSV will be set approximately 250 ft below the surface. The existing packer fluid in the tubing/casing annulus will be replaced with red dye diesel fuel to guard against upwards migration of H₂S in the event of any future tubing leaks (Figure 6).

Since the well was drilled during two phases, to an initial TD of 9,360 ft followed by reentry and drilling to a TD 10,500 ft, open hole logs were obtained following each phase resulting in logs covering the well from 200 ft depth to 10,500 ft. The logs include Dual Induction, and Density-Neutron-Gamma Ray Porosity. All logs have been previously provided to OCD. No conventional core or side-wall core was collected during drilling.

4.0 REGIONAL AND LOCAL GEOLOGY AND HYDROLOGY

4.1 GENERAL GEOLOGIC SETTING

The Metropolis Disposal #1 well is located approximately 8 miles southwest of Artesia between the Rio Peñasco and Four Mile Draw, just less than one mile south of the Agave Dagger Draw Processing Plant. The surrounding area is covered by alluvial sediments from the Rio Peñasco, and the nearby Pecos River. These two rivers and their tributary systems dominate the local geomorphology. The area has undergone substantial oil and gas development. An agricultural zone is located along the Pecos River approximately 5 miles to the east and is supplied by shallow subsurface aquifers.

4.2 BEDROCK GEOLOGY

The well is located on the Northwest Shelf of the Permian Basin. The bedrock is composed of sedimentary rocks dating back to the Ordovician and the formation of a broad marine basin known as the Tobosa Basin (Figure 7A). During the Ordovician through the Devonian, the Tobosa Basin was modified by deposition of clastic and carbonate sediments from the Pedernal Massif to the north and by continued subsidence. By the Middle Mississippian, the modification of the Tobosa Basin had led to the development of the Midland and Delaware sub-basins, a larger encompassing basin referred to as the Permian Basin (Figure 7B). The sub-basins were deepened by deformation during the Hercynian orogeny of the Pennsylvanian through Early Permian; shallow intervening shelves were established. Following the orogeny, the sub-basins were structurally stable and gradually filled by large quantities of clastic sediments while carbonates were deposited on the shelves.

Numerous oil and gas pools have been identified in the Permian Basin and older Tobosa Basin rocks. In the area of the Metropolis Disposal #1 well, the rocks consist predominately of carbonates with lesser clastic rocks – primarily shales, and the reservoir quality has been enhanced by dolomitization, fracturing and karstification of the carbonates. Figure 8 is a generalized stratigraphic column showing the formations that underlie the well site. Local oil production is largely restricted to the San Andres-Yeso pool, and gas production is concentrated in the Morrow with smaller amounts from the Abo and other zones. There have been no commercially significant deposits of oil or gas found in or below the Devonian through Montoya, the proposed injection zone, or in the vicinity of the well. The injection zone has been tested wet and there is no current or foreseeable production at these depths within the one-mile radius of review mandated by the NMOCD regulations for AGI permitting (C-108).

4.3 LITHOLOGIC AND RESERVOIR CHARACTERISTICS OF THE DEVONIAN-FUSSELMAN-MONTOYA FORMATIONS

Based on the geologic analyses of the subsurface at the Metropolis Disposal #1 well, we recommend acid gas injection and CO_2 sequestration in the Devonian through Montoya dolomite sequence. These dolomites have the requisite high porosity and have excellent caps above and below. While there are no structural traps to restrict lateral migration of injected gas, there are no deep wells or faults that would serve as vertical conduits. The high net porosity of the proposed injection zone and low proposed injection volumes indicate that the injected H₂S and CO₂ will be easily contained close to the injection well. The carbonaceous composition of the reservoir rocks will have the added benefit of neutralizing the acidity of the gas and providing improved porosity and permeability over time as buffering capacity is consumed.

The geophysical logs for the Metropolis Disposal #1 well were examined, as were the records for other deep wells located within a three-mile radius of the Metropolis Disposal #1 well. Only the Metropolis Disposal #1 well penetrates below the Mississippian/Chester formations so it was not possible to evaluate the structure of the Devonian-Montoya injection zone. However, there are ample data for the Chester formation which, along the over lying Barnett shale, serves as the upper seal to the injection zone. Using the formation tops from 32 wells, a contour map was constructed for the top of the Chester Formation (Figure 9) in the vicinity of the well. This map reveals a 5° dip to the northwest, with no visible faulting or offsets that might influence fluid migration, suggesting that injected fluid would spread radially from the point of injection with a small elliptical component to the northwest. This interpretation is supported by cross-sections of the overlying stratigraphy that reveal relatively horizontal contacts between the units (Figures 10-11). Local heterogeneities in permeability and porosity will exercise significant control over fluid migration and the overall three-dimensional shape of the injected gas plume.

A geological analysis confirms that the Devonian-Montoya Formations as the most promising injection zone in the vicinity of the Metropolis Disposal #1 well. This preliminary analysis is confirmed by Geolex's detailed geological analysis, including the analysis of the geophysical logs collected during the deepening of the well in 2004 and the records of injection from 2006-2007. The zone has the requisite high porosity and permeability and is bounded by fine-grained rocks in the Barnett shale, Chester limestone, and Woodford shale above and the shales of the upper Simpson below. These are ideal H_2S and CO_2 sequestration conditions

Mississippian Rocks. Deposits of Mississippian age are commonly divided into the Barnett Shale and Chester Limestone of the Upper Mississippian, the Mississippian Limestone of the Middle Mississippian and the Woodford Shale of the Lower Mississippian to Upper Devonian (Figure 8). The Mississippian is characterized by widespread dark shale deposition at the beginning and towards the end of the period (corresponding to the Woodford and Barnett shales, respectively), and by the deposition of shaly and cherty limestones towards the middle of the period (the Chester and Mississippian Limestones). Within the Permian Basin, the Mississippian serves as a seal to hydrocarbons of Mississippian and older ages (Wright, 1979).

Devonian to Upper Ordovician Rocks. Locally, the Devonian to Upper Ordovician deposits include the Devonian Formation of the Devonian, the Fusselman Formation of the Silurian, and the Montoya Formation of the Upper Ordovician. These deposits are characterized by relatively clean dolostones that becomes cherty in places. Some sandstones are found near base of the sequence, overlying the Simpson Formation. Porosity is of intercrystalline, fracture, vuggy and cavernous type (Wright, 1979). Deposition was fairly continuous during this period, making it difficult to distinguish between formations in places. The resultant overlapping porosity and the absence of fine-grained sediments (i.e., shales) has resulted in an overlapping of pools and reservoirs through sequence.

Simpson Formation (Middle Ordovician). None of the wells in the vicinity of the Metropolis Disposal #1 well penetrate the Simpson Formation, so its presence is based on regional studies (Wright, 1979). The Simpson is characterized by massive, fossiliferous limestone that is inter-bedded with thin layers of green shale and sandstone. The shales serve as a seal to Simpson and Ellenburger oil and gas pools where present.

Geophysical logs were collected during the initial drilling and later deepening of the Metropolis Disposal #1 well. These logs include an evaluation of the country rock porosity. Figure 12 shows the Thermal Neutron Porosity (TNPH) log from 9,350 feet to 10,500 feet (TD) and includes the identified formational boundaries. The proposed, open-hole injection interval exhibits an average porosity of about 4.2%; taken over the entire interval of 570 feet this gives an effective porosity of approximately 24.3 feet. The

overlying Mississippian Limestone and Woodford Shale combine to form a 450 foot layer with porosities of <2%, consistent with an effective seal on the injection zone.

No direct measurements have been made of the injection zone porosity or permeability. However, satisfactory injectivity of the injection zone can be inferred from the porosity logs described above and prior injection into the Metropolis Disposal #1well. Injection records for the well for 2006-2007 reveal that the injection pressures remained between 1,100 and 1,200 psi (Figure 13; Table A-1), significantly below the requested maximum injection pressure of 3,280 psi. No relationship was visible between injection rate and injection pressure (up to about 0.2 MMSCFD) indicating that the reservoir was not pressuring up. The good injectivity of the zone is supported by the performance of nearby SWD wells. Six SWD wells are located within a ten-mile radius, injecting into the same zone; the closest is about 5 miles away (Figure 14). These wells have successfully injected roughly 100 bbl/day to >9,000 bbl/day over the last three years.

A maximum allowable surface injection pressure was calculated for the proposed AGI well following the NMOCD approved formula: $IP_{max} = PG (D_{top})$, where IP_{max} is the maximum allowed surface injection pressure (psi), PG is the pressure gradient of the injected fluid (psi/ft), and D_{top} is the depth to the top of the perforated zone (ft). Using the depth to the bottom of the production casing in the Metropolis Disposal #1 well (9,927 ft) and TAG as the injection fluid, the maximum allowable injection pressure would be approximately 3,280 psig (Table 1). This value is significantly higher than the maximum allowable injection pressure for saltwater (approximately 1,985 psig), due to the lower specific gravity of TAG.

Using the total porosity determined from well logs, it is possible to estimate the area of injection over a 30-year life span for an AGI well at the Agave Dagger Draw Gas Plant. Assuming a maximum injection rate of 0.5 MMSCFD (205 bbl/day at surface equates to approximately 185 bbl/day of compressed TAG at reservoir conditions, see Table 1), acid gas would spread to cover an area of approximately 11 acres or a circle with a radius of approximately 390 ft (Figure 15 and Table 1). This maximum injection rate is substantially higher than the recorded injection rates during 2006-2007 (maximum of about 0.2 MMSCFD), but there was no evidence of pressuring up. SWD wells injecting into the same zone within a ten-mile radius exhibit the ability to take more than 9000 bbl/day injection. Injection of TAG is likely to experience somewhat lower pressures as the dolomitic reservoir rock is dissolved.

Calculations of Area and Volume of Reservoir Affected by Proposed Injection	
	Maximum Injection Rate – 0.5 MMSCFD of TAG
Barrels per Day at Reservoir Conditions	185
Cubic Feet/Day (5.6146 Cubic Feet per Barrel)	1039
Cubic Feet/ Year (365.25 Days)	379,391
Cubic Feet in 30 Years	11,381,726
Effective Porosity in Feet = 24 feet	
Net Area Consumed (Volume/eff. porosity) (ft)	474,239
Net Area in Acres (43,560 Sq. feet/acre)	10.9
Radius in feet	390

4.4 FORMATION FLUID CHEMISTRY

Six other SWD wells located within a ten mile radius of Metropolis Disposal #1 currently inject into the Devonian-Montoya sequence, the proposed injection zone (Table 2). These wells are located no closer than approximately five miles from Metropolis Disposal #1. A chemical analysis of water from Indian Hills State Comm Well No. 7 (API 30-015-22448), approximately 13 miles away, indicates that the

formation waters are saline and compatible with the proposed injection (see Appendix A). The Devonian-Montoya sequence has already been approved for acid gas injection at the Duke AGI Well #1 (API 30-015-32324), 13.9 miles from Metropolis Disposal #1 (Administrative Order SWD-838).

4.5 GROUNDWATER HYDROLOGY IN THE VICINITY OF THE PROPOSED INJECTION WELL

Based on the New Mexico Water Rights Database from the New Mexico Office of the State Engineer, five freshwater wells are located within 1 mile radius of the Metropolis Disposal #1 well (Table 3; analyses for two of these wells are included in Appendix A). These wells are shallow, collecting water from about 100 to 450 feet depth. The wells were drilled for domestic, stock and prospecting purposes. The shallow freshwater aquifer is protected by the surface casing of the Metropolis Disposal #1 well that extends to 1200 ft depth, into the lower San Andres.

The base of the freshwater aquifer in the Roswell Basin is variable (Maddox, 1969). In the immediate vicinity of the Metropolis Disposal #1, the base is around 400 ft, consistent with the nearby freshwater wells. Away from Metropolis Disposal #1, the base of the aquifer gets deeper and freshwater penetrates into carbonate rocks, including the San Andres formation. Adjacent to the Pecos River, freshwater in the San Andres and overlying carbonate rocks is an important source of irrigation water (Hedrickson and Jones, 1952; Figure 16). However, freshwater is absent in the San Andres at the Metropolis Disposal #1 (Figure 17) and therefore not at risk from the proposed acid gas injection.

The nearest body of surface water is the Peñasco River, an ephemeral river located approximately one mile to the north of the well. Several ephemeral/dry tributaries of the Four Mile Draw extend roughly one mile to the southeast and southwest of the well. There would be no impact from the Metropolis Disposal #1 well on these streams/rivers since the surface casing for the well extends about 1200 feet below the bottom of these features.

5.0 OIL AND GAS WELLS IN THE METROPOLIS DISPOSAL #1 AREA OF REVIEW AND VICINITY

Appendix B contains a complete list based on NMOCD records of all active, temporarily abandoned, abandoned and plugged oil and gas wells within two miles (Figure B-1, Table B-1) and those within the one-mile radius area of review (Figure B-2, Table B-2) of the proposed AGI disposal well.

5.1 ACTIVE OIL AND GAS WELLS

As shown in Table B-2, and in the accompanying Figure B-2 in Appendix B, there are a total of 24 wells in the one mile area of review (excluding Metropolis Disposal #1). Information on the wells in the one mile area of review includes their total depth, production or injection interval and current status. Nine of these 24 wells are currently active. *None of the 24 wells in the one mile area of review, including the nine active wells, penetrates the Devonian Formation at the top of the proposed injection zone.*

The active wells are divided between wells producing oil from the San Andres-Yeso-Abo pool and wells producing gas from the Atoka-Morrow pool. The majority of the wells producing gas from the Atoka-Morrow pool penetrated into the top of the Chester Limestone, but none penetrated into the Mississippian Limestone. In the vicinity of the Metropolis Disposal #1 well the Mississippian Limestone is about 450 feet thick and, along with the underlying Woodford Shale, provides an excellent seal above the top of the Devonian Formation and the proposed injection zone.

The wells producing oil from the San Andres-Yeso-Abo pool have their top perforations in the San Andres at depths of 1,200-1,400 feet, just below the bottom of the surface casing for the Metropolis Disposal #1 well.

5.2 PLUGGED OIL AND GAS WELLS

Table C-1 includes a list of all plugged and abandoned wells, based on NMOCD records, found within the one mile area of review, and Figure C-1 in Appendix C shows the location of these wells. Fifteen plugged wells (Table C-1) were identified within the one mile radius. Appendix C includes plugging diagrams and supporting data for each of these wells. *As with the active oil and gas wells, none of the plugged wells penetrates the top of the Mississippian Limestone*. These data show that there is no evidence of improperly plugged or abandoned wells within the area of review which might cause communication between the proposed injection zone and any other unit.

6.0 IDENTIFICATION AND REQUIRED NOTIFICATION OF OPERATORS, SUBSURFACE LESSEES AND SURFACE OWNERS WITHIN THE AREA OF REVIEW

Geolex contracted with MBF Land Services (MBF) of Roswell, New Mexico to assist in the research of land records in Eddy County to obtain a listing of all operators, oil, gas and mineral lessees, surface owners, and residents/facilities within a one-mile radius of the proposed AGI well. Appendix D includes the results of that work.

Appendix D includes Figure D-1 which shows the land owners located within the one-mile area of review of the Metropolis Disposal #1 well. Table D-1, Appendix D, lists the names and addresses of all operators within this one-mile radius. Table D-2 lists the names and addresses of surface owners of record in the area of review, as extracted from the Eddy County land records. Table D-3, Appendix D, lists the names and addresses of subsurface lessees within the same one mile area of review. Appendix D also includes Table D-4, which shows mineral owners for the only tract in the area of review that is not leased. Tables D-5, Appendix D lists all the other interested parties that require notice as determined by NMOCD, including all residences or businesses having facilities within the 1-mile area of review, N.M. State Land Office, U.S. BLM, and municipalities located within 5 miles of the Metropolis Disposal #1 well.

All of these operators, oil and gas lessees, mineral owners, and surface owners within the one-mile area of review will be provided notice and an opportunity to review this application at least 20 days prior to the OCD Hearing. Copies of the general notice form letter to parties individually noticed from Tables D-1, D-2, D-3, D-4, D-5and the draft legal notice are included in Appendix D. A copy of individual notice letters with certified mail information and return receipt cards from these notifications will be provided as an exhibit at the hearing on this case.

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7.0 AFFIRMATIVE STATEMENT OF LACK OF HYDRAULIC CONNECTION BETWEEN PROPOSED INJECTION ZONE AND KNOWN SOURCES OF DRINKING WATER

As part of the work performed to support this application, a detailed investigation of the structure, stratigraphy and hydrogeology of the area surrounding the Agave Metropolis Disposal #1 well has been performed. The investigation included the analysis of geologic data and hydrogeologic data from wells and literature identified in Sections 3, 4 and 5 above including related appendices. Based on this investigation and analysis of these data, it is clear that there are no open fractures, faults or other structures which could potentially result in the communication of proposed injection zone with any known sources of drinking water in the vicinity as described above in Sections 4 and 5 of this application.

8.0 REFERENCES CITED

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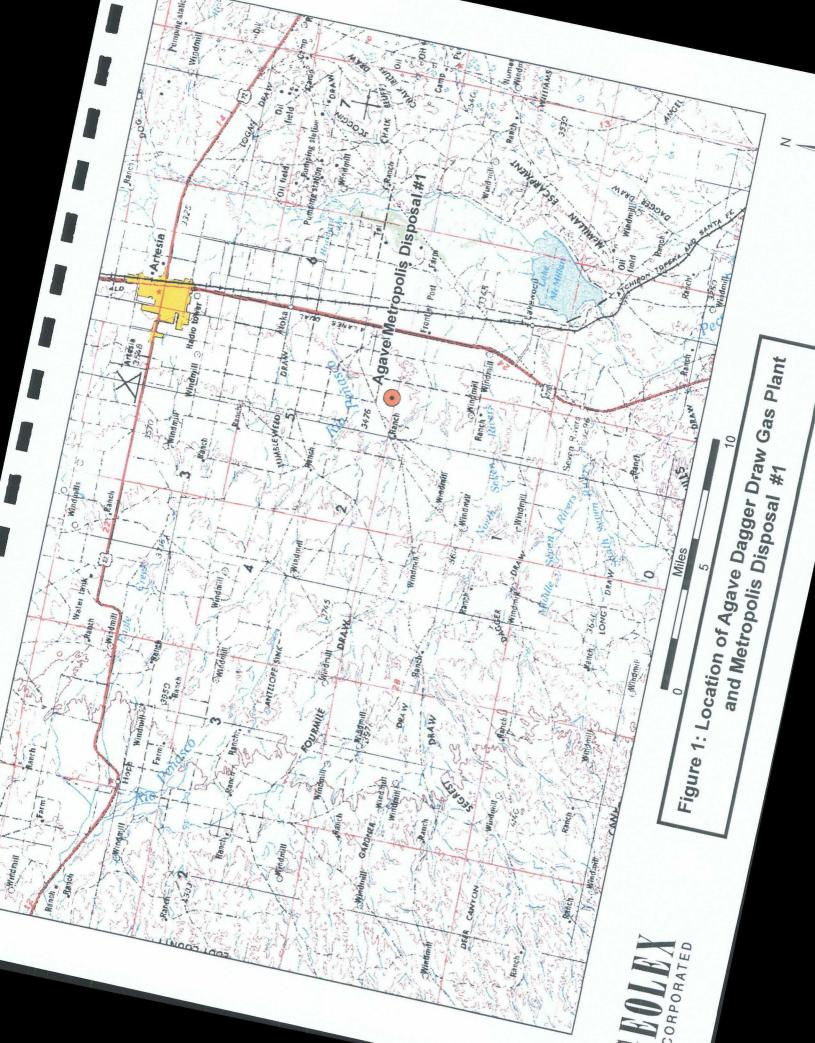
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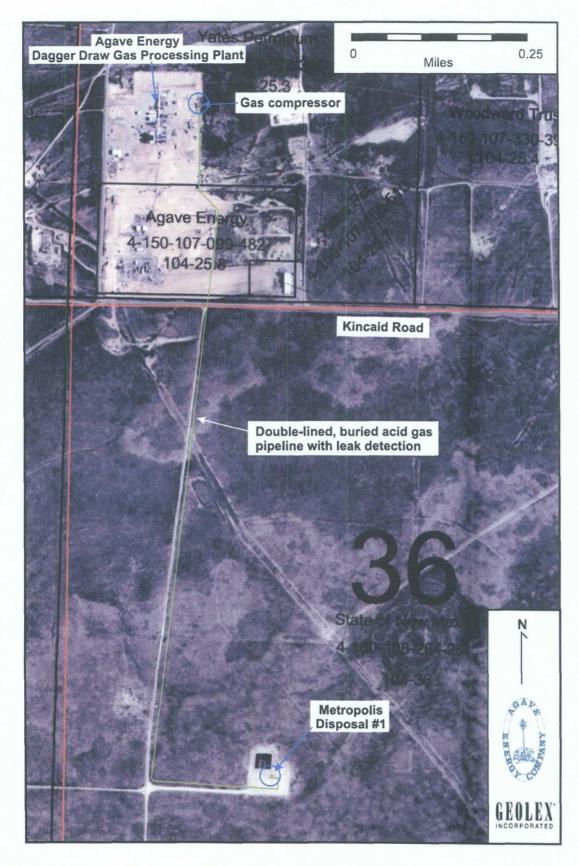


Figure 2: General Diagram of Agave Dagger Draw Gas Plant and Location of Pipeline Connecting the Plant with the Metropolis Disposal #1 Well





Figure 3: Photos of Pipeline Connecting Agave Energy's Dagger Draw Gas Plant With Metropolis Disposal #1 well. A) Acid Gas Compressed at the Gas Plant is Introduced to a 2" Stainless Steel Pipeline Surrounded by a 6" Polyethylene Pipe. Pipeline Integrity is Monitored Using a Stream of Sweet Natural Gas in the Volume Between the Two Pipes. B) Outside of the Fenced in Areas at the Plant and Wellhead, the Pipeline is Buried and Clearly Marked. C) The Pipeline Rises Above Ground and Connects to the Production Tree at the Metropolis Disposal #1 Wellhead

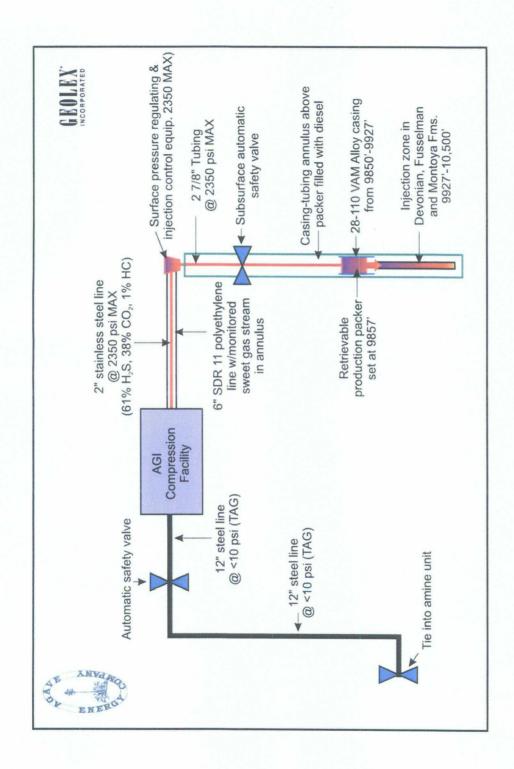


Figure 4: Schematic of Agave Energy Dagger Draw Gas Plant and Metropolis Disposal #1 Acid Gas Injection (AGI) System Components

WELL NAME: METROPOLIS DISPOSAL 001 API 30-015-31950 FIELD: Devonian LOCATION: Unit K, Sec. 36-T18S-R25E, 1650 S/1650 W COUNTY: Eddy GL: 3498 ft SPUD DATE: 8/31/01 COMPLETION DATE: 9/2/01 COMMENTS: PA: 9/23/01, RE: 10/17/04 RE-COMPLETION: 1/30/06, MIT (OK): 9/10/09

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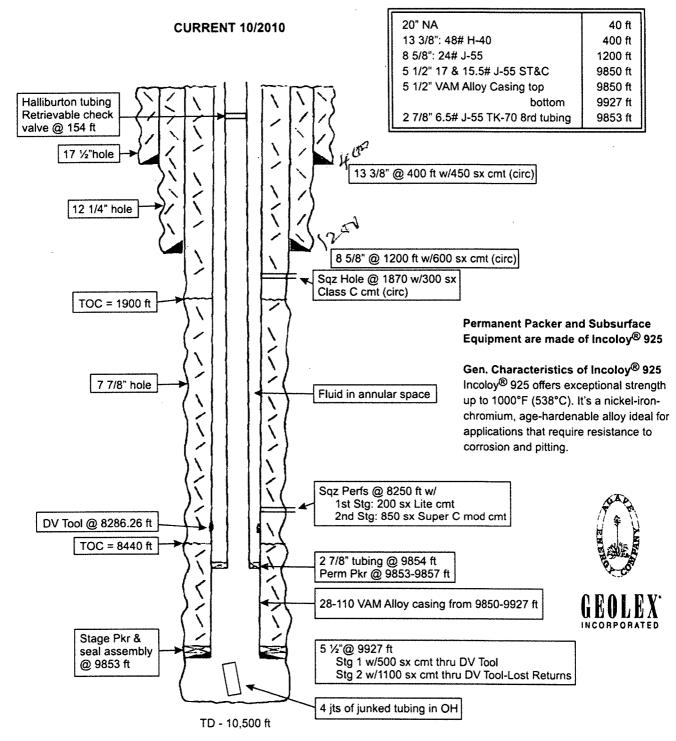
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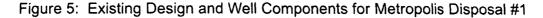
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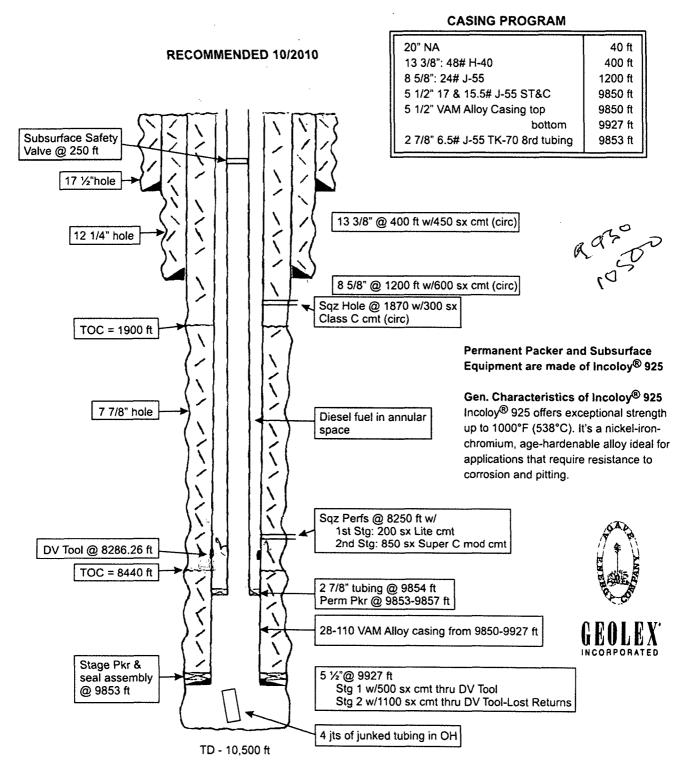
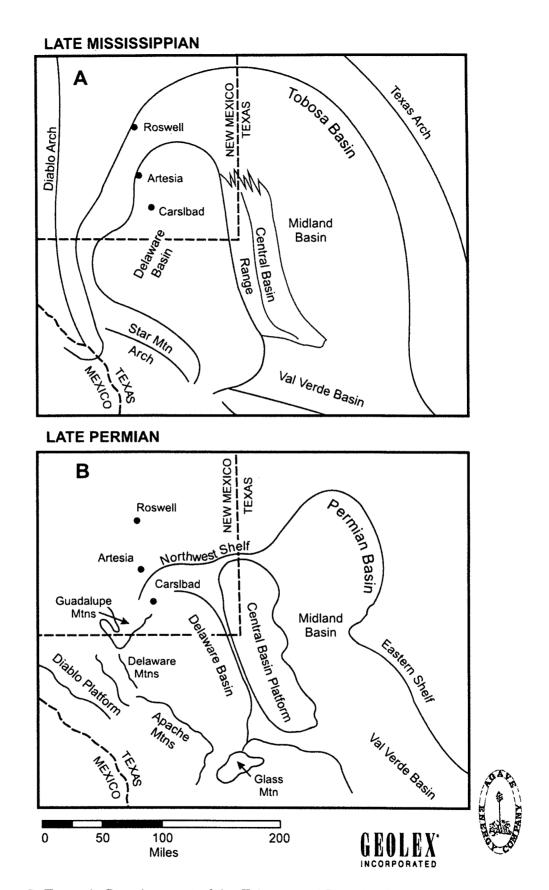


Figure 6: Design and Well Components for Metropolis Disposal #1 Following Recommended Service and Modifications. Recommended Modifications are Highlighted



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Figure 7: Tectonic Development of the Tobosa and Permian Basins. A) Late Mississippian - Modified from Adams (1965). B) Late Permian -Modified from Ward et al. (1986)

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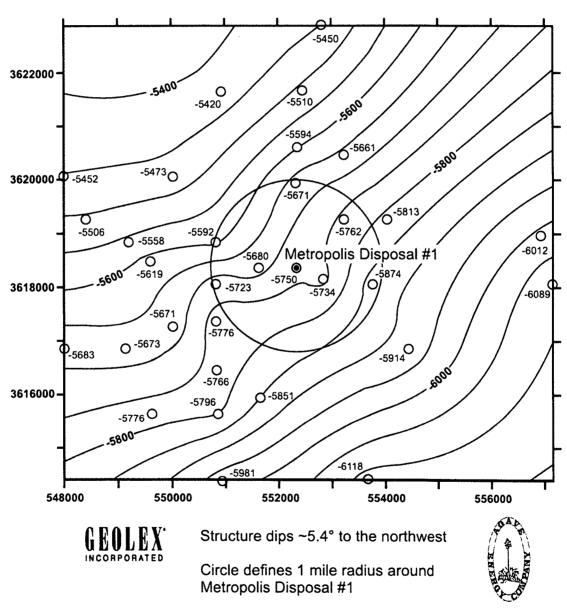
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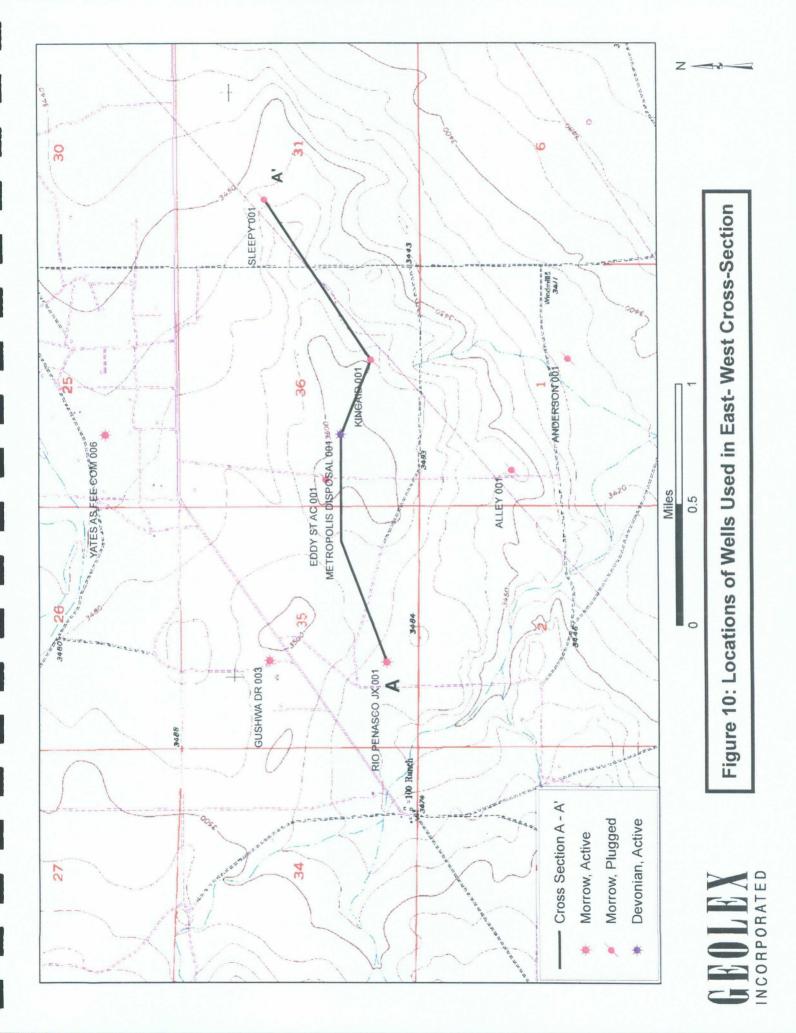
Figure 8. Stratigraphy in the Vicinity of Metropolis Disposal 001 Well (from Stipp, 1960)





Elevation at the top of the Chester Formation

Figure 9: Structural Contours on Top of the Chester Formation in the Vicinity of Metropolis Disposal #1



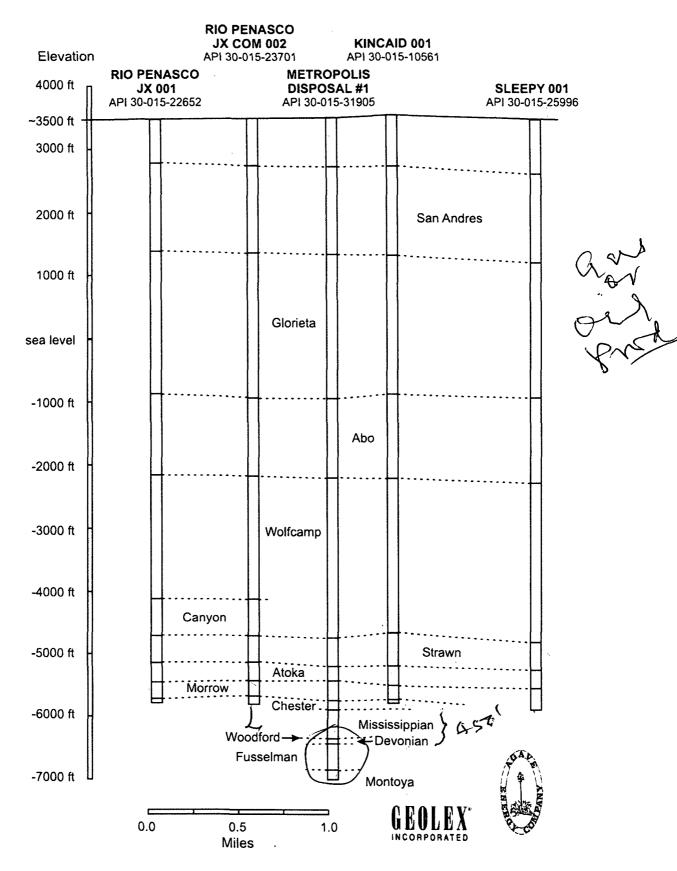


Figure 11: Stratigraphic Cross-section Through the Metropolis Disposal #1. Locations of Wells Shown in Figure 10

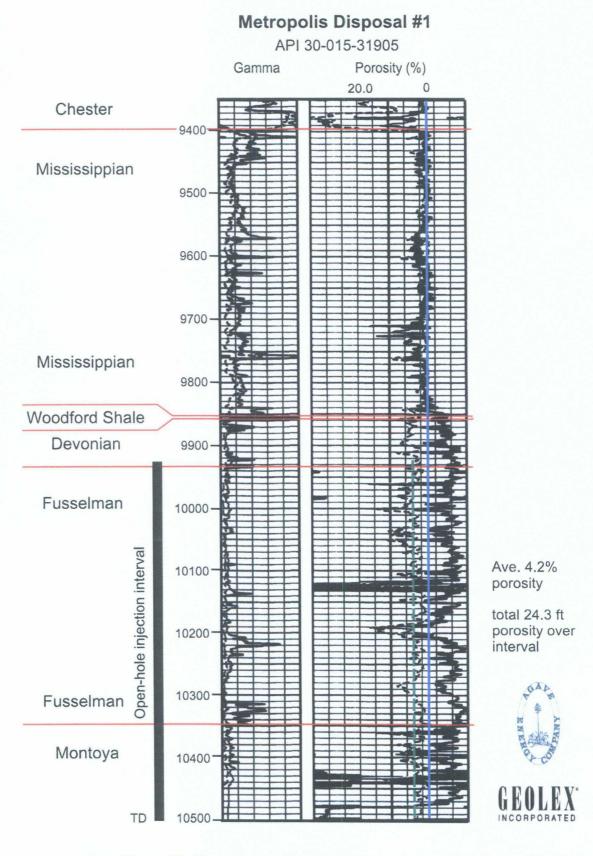


Figure 12: Porosity and Gamma Log for Metropolis Disposal #1 Well

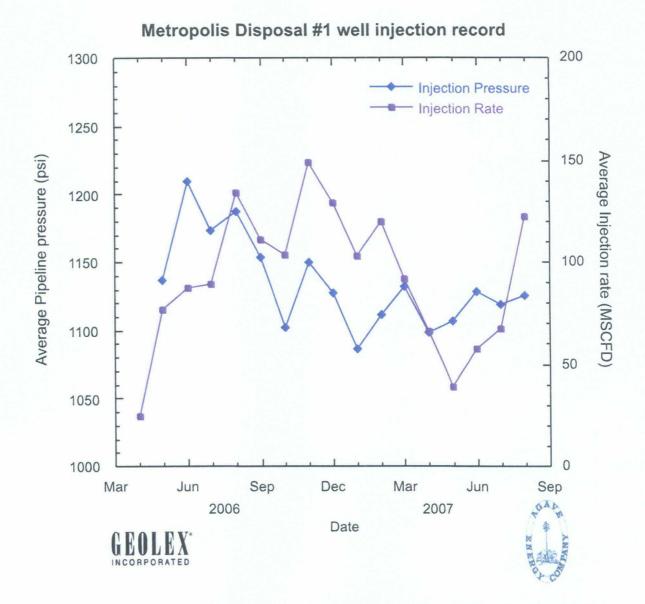
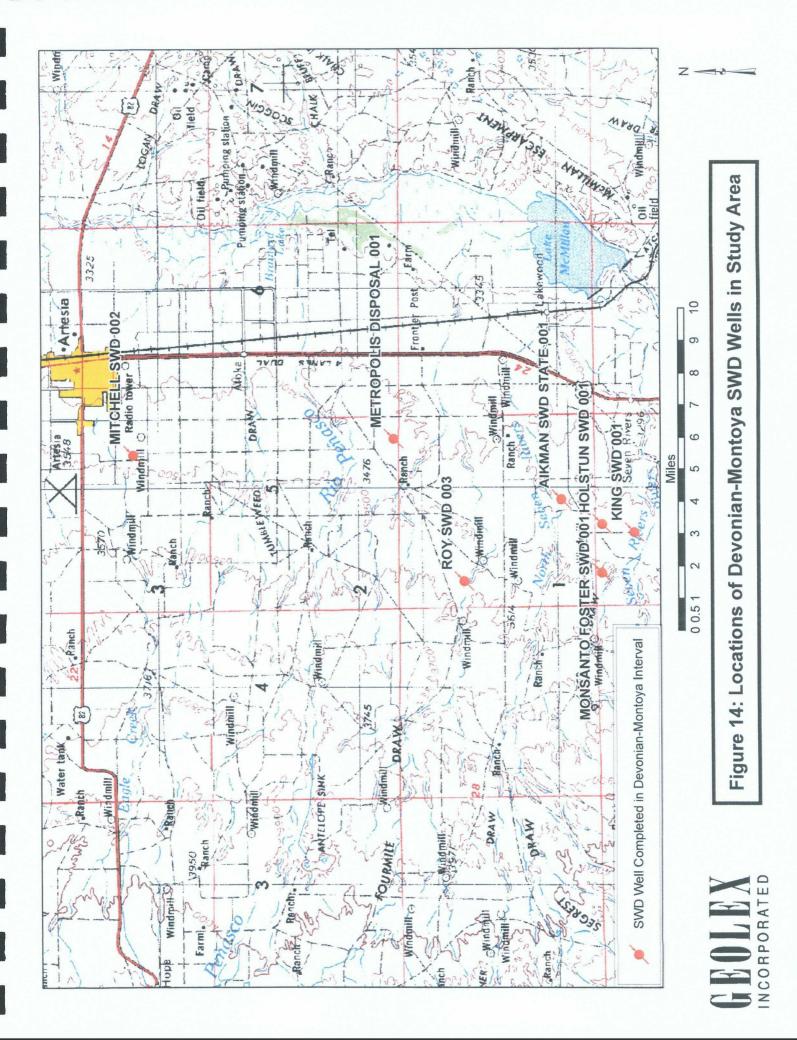
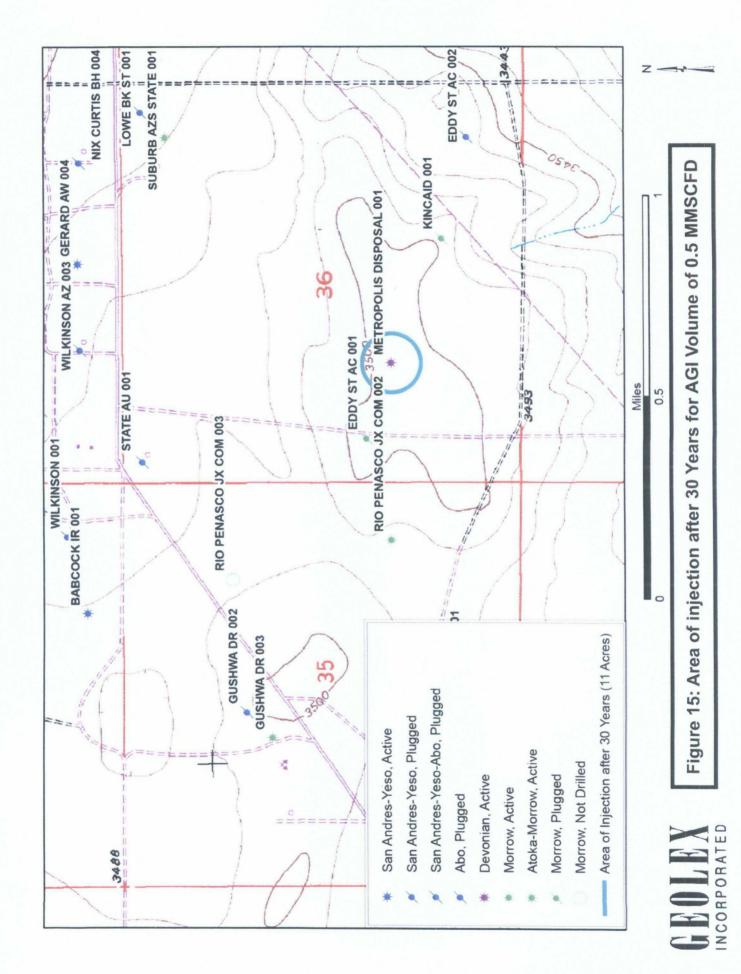
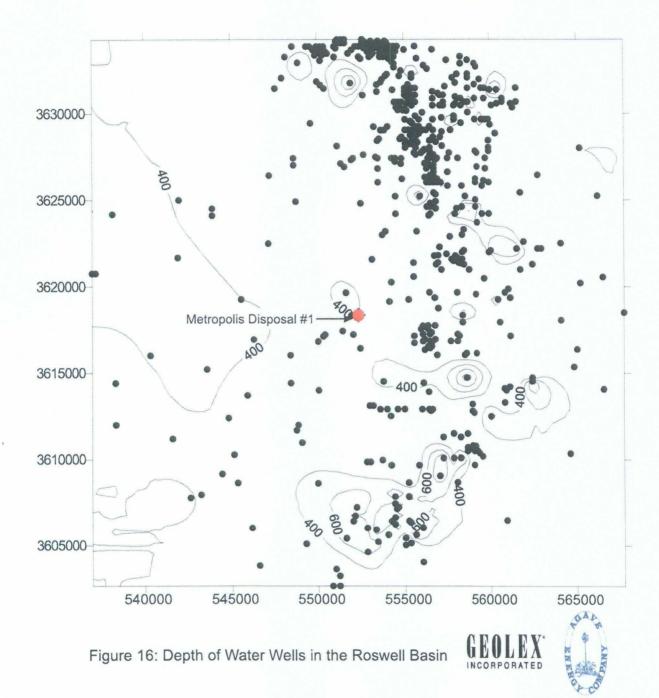
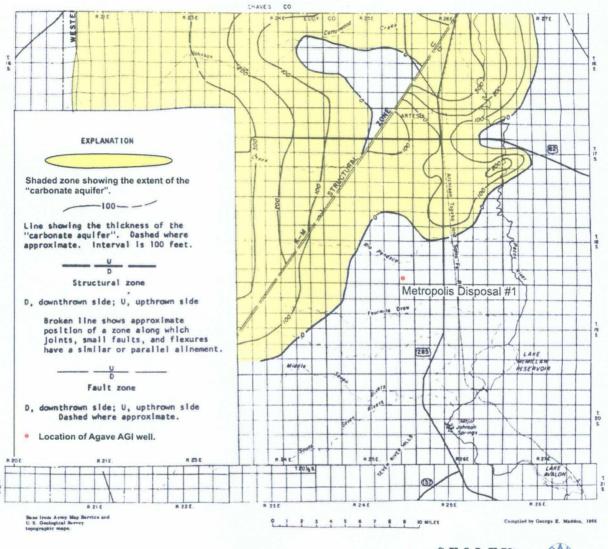


Figure 13: Monthly Average Injection Rates and Pipeline Pressures for Days of Injection at the Metropolis Disposal #1 Well, March 2006-July 2007









GEOLEX Incorporated



Figure 17: Thickness of the Freshwater Aquifer Hosted in Carbonate Rocks in the Roswell Basin (Modified from Maddox, 1969)

TABLES

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. . Table 1: Pressure and Volume Calculations for TAG, Agave Metropolis Disposal #1

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PROPOSED INJECTION STREAM CHARACTERISTICS

TAG	inject rate	lb/day	52341
co ₂	inject rate	lb/day	23479
H ₂ S	inject rate	lb/day	28861
CO ₂	conc.	mol %	38.31
H ₂ S	conc.	mol %	60.81
TAG	Gas vol	MMSCFD	0.5

CONDITIONS AT WELL HEAD

Well Head	Nell Head Conditions				11	TAG			
Temp	Pressure	Gas vol	Comp	Inject Rate Density ¹	Density ¹	SG ²	density	volume	volume
Ŀ	psi	MMSCFD	CO ₂ :H ₂ S	lb/day	kg/m ³			ft³	ldd
100	1200	0.5	38:61	52341	737.05	0.74	/ 6.15) 1137	203
CONDITIONS AT BOT	T BOTTOM OF WELL	ELL						c it a	0
	Injectior	Injection Zone Conditions	su				TAG		
Temp	Pressure ³	Depth _{top}	Depth _{top} Depth _{bottom}	MW ⁴	Density ¹	SG ²	density	volume	volume

CONDITIONS IN RESERVOIR AT EQUILIBRIUM

168 ldd

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7.43 Ib/gat-

0.89

889.45 kg/m³

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4672 psi

100 ш

lb/gal 8.8 8

	volume	bbl	185	
	volume	ft ³	1039	
TAG	density	Ipreal .	(9.74)	
	SG ²		0.81	
	Density ¹	kg/m³	806.78	
	Porosity ⁶	ft	24	
tions	Depth _{bottom}	ft	10500	
n Reservoir Conditions	Depth _{top}	ft	6027	
Injection R	Pressure ³	psi	4672	
	Temp ⁵	÷	147	

CONSTANTS

	SCF/mol	
Molar volume at STD	0.7915	
	g/mol	lom/dl
Molar weight of H ₂ S	34.0809	0.0751
Molar weight of CO ₂	44.0096	0.0970
Molar weight of H ₂ O	18.015	0.0397

¹ Density calculated using AQUAlibrium software

² Specific gravity calculated assuming a constant density for water

³ PP = 0.433/8.33 * MW * Depthmid = 4672 psi

⁴ MW = drilling mud weight

 $^{\rm S}$ Reservoir temp. is bottom hole temperature from geophysical logs

 $^{\rm 6}$ Porosity is estimated using geophysical logs for Metropolis Disposal #1

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CALCULATION OF MAXIMUM INJECTION PRESSURE LIMITATIC	RESSURE LIMITATIC
SG _{TAG}	0.74
$PG = 0.2 + 0.433 (1.04 - SG_{TAG})$	0.331 psi/ft
IP_max = PG *Depth	3288 psi

Where: SG_{TAG} is specific gravity of TAG; PG is calculated pressure gradient; and IP_{max} is calculated maximum injection pressure.

CALCULATION OF 30 YEAR AREA OF INJECTION

L

Cubic Feet/day (5.6146 ft ³ /bbl)	1039 ft ³ /day
Cubic Feet/30 years	11381726 ft³/30 years
Area = V/Net Porosity (ft)	474239 ft ² /30 years
Area = V/Net Porosity (ft) (43560 ft ² /aci	10.9 acres/30 years
Radius =	389 ft

	-	,							-	-			
API Num	Operator	Distance	Rng	Tsh	Sec	Sec Well Name	Type	Type Status	Injection	Injection Volume (bbl/yr)		Depth	Injection
/		(miles)							2008	2009	2010	(t)	Zone
V 3001531905	3001531905 Agave Energy Co	00.0	25E	18S		36 Metropolis Disposal #1	AGi 🗸	Active	0	0	0	0 10500	DevMontoya
3001526562	3001526562 Yates Petroleum Corp	4.93	25E	19S	7	Roy SWD 003	SWD (Active (182502	65402	83943	11180	DevEllenburger
3001521045	3001521045 Nearburg Producing Co	5.55	25E	19S	27	Aikman SWD State 001	SWD (Active)	779647	386721	155756	10520	Devonian
3001521141	3001521141 Nearburg Producing Co	7.01	25E	20S	4	Holstun SWD 001	SWD	Active (7923	258723	302408	10600	Devonian
3001510340	3001510340 Yates Petroleum Corp	7.70	25E	20S	S	Monsanto Foster SWD 001	SWD	Active (3456304 3407877 1259810	3407877	1259810	10641	Devonian
3001520257	3001520257 Yates Petroleum Corp	8.03	25E	20S	6	King SWD 001	SWD	Active /	1254086 1560587	1560587	880451	10555	Devonian
3001522242	3001522242 Yates Petroleum Corp	(8.09 ^{-/} 25E	25E	17S	23	17S 23 Mitchell SWD 002	Swb (SWD (Active)	54081	54081 63600 44232	44232	9500	Devonian

Table 2. Saltwater Disposal Wells Injecting into the Devonian - Montoya Sequence Within Ten Miles of Metropolis Disposal #1

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Table 3. Water Wells Within One Mile of Metropolis Disposal #1

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MUN DO9	Owner	Distance Rng Tsh (miles)	Rng	Tsh	Sec	Sec Diversion (acre ft/yr)	Use	Well Depth Water Depth Source (ft) (ft)	Water Dep (ft)	th Source	
RA 03975	Gulf Oil Corp	0.24	25E	185	36	0	MOQ	430	1 270 (Artesian	
RA 07639	Nearburg Producing Co	0.72	25E	19S	-	0	PRO	260	172	Shallow	
RA 04128	E. T. Howell	0.80	25E	195	2	m	STK	211	100	Shallow	
RA 05344	Yates Petroleum Corp	0.91	25E	18 S	26	0	PRO	455	200	Shallow	
RA 05233	Yates Petroleum Corp	0.91	25E	185	26	0	PRO	N/A	N/A	Shallow	

APPENDICES

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APPENDIX A

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Injection Records for Metropolis Disposal #1; Analysis of Injection Fluids; and Data on Reservoir and Freshwater Fluid

Injection Records for Metropolis Disposal #1, 2006-2007

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Gas	MSCF	32.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.39	93.31	12.06	16.42	72.72	59.08	76.88	105.02	117.20	01.92	0.00		987.50
Press	psig	1180.00	762.01	962.09	1168.28							1169.14				1169.26						•		1184.52 1						1166.58 1	1161.94		6
Date		6/1/06	6/2/06	6/3/06	6/4/06	6/5/06	6/6/06	6/7/06	6/8/06	90/6/9	6/10/06	6/11/06	6/12/06	6/13/06	6/14/06	6/15/06	6/16/06	6/17/06	6/18/06	6/19/06	6/20/06	6/21/06	6/22/06	6/23/06	6/24/06	6/25/06	6/26/06	6/27/06	6/28/06	6/29/06	6/30/06		TOTAL
Gas	MSCF	102.15	62.44	63.82	47.75	99.42	97.59	102.54	115.01	103.38	106.56	100.90	81.69	103.90	103.18	98.91	86.59	58.23	121.69	106.99	116.85	66.86	114.50	117.40	97.68	71.03	70.71	63.08	17.84	60.11	0.00	64.98	2623.78
Press	psig	1133.74	1132.15	1301.59	1282.06	1149.24	1146.55	1232.38	1146.43	1151.56	1148.63	1146.31	1144.97	1147.78	1185.13	1182.08	1143.63	1144.97	1195.26	1318.44	1200.51	1136.30	1136.06	1139.84	1130.68	1140.33	1137.40	1526.95	1630.10	1509.00	1181.96	1186.35	
Date		5/1/06	5/2/06	5/3/06	5/4/06	5/5/06	5/6/06	5/7/06	5/8/06	5/9/06	5/10/06	5/11/06	5/12/06	5/13/06	5/14/06	5/15/06	5/16/06	5/17/06	5/18/06	5/19/06	5/20/06	5/21/06	5/22/06	5/23/06	5/24/06	5/25/06	5/26/06	5/27/06	5/28/06	5/29/06	5/30/06	5/31/06	TOTAL
Gas	MSCF	26.53	82.73	62.67	46.03	36.68	23.99	6.53	101.18	43.09	58.06	43.15	2.79	35.71	74.43	106.43	108.38	92.51	122.40	82.03	96.93	110.19	106.62	109.42	100.13	99.42	98.75	102.85	112.83	111.16	115.39		2319.01
Press	psig	197.64	779.47	1143.63	1143.63	1159.37	1155.47	1151.80	1157.79	1156.44	1155.59	1191.48	1144.11	1145.70	1146.31	1155.95	1135.93	1140.45	1143.50	1131.42	1136.42	1161.33	1137.52	1140.86	1139.84	1136.54	1139.84	1148.87	1143.99	1137.64	1140.82		
Date		4/1/06	4/2/06	4/3/06	4/4/06	4/5/06	4/6/06	4/7/06	4/8/06	4/9/06	4/10/06	4/11/06	4/12/06	4/13/06	4/14/06	4/15/06	4/16/06	4/17/06	4/18/06	4/19/06	4/20/06	4/21/06	4/22/06	4/23/06	4/24/06	4/25/06	4/26/06	4/27/06	4/28/06	4/29/06	4/30/06		TOTAL
Gas	MSCF	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.00	00.00	0.00	00.00	00.0	0.00	00.00	0.00	0.00	00.00	0.00	24.79	0.00	00'0	0.00	0.00	00.00	0.00	0.00	24.79
Press	psig	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.37	0.49	0.49	0.49	1119.94	1.71	1143.50	NDC	NDC	839.16	839.16	1297.69	587.68	645.43	299.70	
Date		3/1/06	3/2/06	3/3/06	3/4/06	3/5/06	3/6/06	3/7/06	3/8/06	3/9/06	3/10/06	3/11/06	3/12/06	3/13/06	3/14/06	3/15/06	3/16/06	3/17/06	3/18/06	3/19/06	3/20/06	3/21/06	3/22/06	3/23/06	3/24/06	3/25/06	3/26/06	3/27/06	3/28/06	3/29/06	3/30/06	3/31/06	TOTAL

Table A-1. Injection Records Metropolis Disposal #1, March 2006-February 2010

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Table A-1. (cont.)

Date	Press	Gas	Date	Press	Gas	Date	Press	Gas	Date	Press	Gas
	psig	MSCF		psig	MSCF		psig	MSCF		psig	MSCF
7/1/06	1163.77	102.96	8/1/06	1181.10	55.65	9/1/06	1170.60	150.42	10/1/06	1133.49	174.51
7/2/06	1170.60	115.64	8/2/06	1187.25	127.70	9/2/06	1144.11	140.30	10/2/06	1133.86	151.60
7/3/06	1166.21	113.08	8/3/06	1192.82	146.97	9/3/06	1145.94	123.31	10/3/06	1133.86	138.35
7/4/06	1171.58	93.81	8/4/06	1174.39	146.80	9/4/06	1159.01	143.78	10/4/06	1155.83	157.79
7/5/06	1174.51	109.65	8/5/06	1169.63	135.34	9/2/6	1218.09	41.58	10/5/06	1133.37	160.79
7/6/06	1192.82	111.01	8/6/06	1187.70	133.58	9/9/6	122.14	75.36	10/6/06	1138.86	165.19
7/7/06	1198.47	161.76	8/7/06	1210.28	131.44	90/2/6	1115.30	105.23	10/7/06	1150.10	190.22
7/8/06	1169.38	165.24	8/8/06	1187.57	138.18	9/8/06	1151.68	64.62	10/8/06	1134.96	187.69
2/6/2	1174.14	157.11	8/9/06	1217.97	135.90	90/6/6	823.29	83.72	10/9/06	1135.81	190.32
7/10/06	1235.92	149.74	8/10/06	1141.18	130.33	9/10/06	1152.66	128.91	10/10/06	1140.21	185.20
7/11/06	1250.93	142.49	8/11/06	1160.35	40.43	9/11/06	1148.26	124.15	10/11/06	1138.50	175.70
7/12/06	1235.31	116.97	8/12/06	859.18	0.00	9/12/06	1117.38	133.89	10/12/06	1136.30	178.44
7/13/06	1223.59	146.77	8/13/06	815.11	67.42	9/13/06	1153.64	95.96	10/13/06	1135.08	188.80
7/14/06	1168.04	138.58	8/14/06	1158.15	111.29	9/14/06	1136.30	110.23	10/14/06	1135.08	176.82
7/15/06	1151.19	145.12	8/15/06	1183.42	149.81	9/15/06	1184.52	110.94	10/15/06	1136.42	179.32
7/16/06	1155.71	91.16	8/16/06	1156.20	145.07	9/16/06	1139.11	129.90	10/16/06	1136.54	179.19
7/17/06	1156.44	138.71	8/17/06	1149.36	106.88	9/11/06	1133.49	70.68	10/17/06	1135.20	142.87
7/18/06	1163.89	150.93	8/18/06	1148.75	110.31	9/18/06	1134.96	61.74	10/18/06	1133.74	127.83
7/19/06	1152.66	151.97	8/19/06	1148.26	0.00	9/19/06	1161.57	61.20	10/19/06	1136.06	109.22
7/20/06	1146.07	155.57	8/20/06	1148.87	113.56	9/20/06	1151.19	57.11	10/20/06	1149.12	104.22
7/21/06	1150.58	110.06	8/21/06	1151.19	92.77	9/21/06	1156.44	62.81	10/21/06	1167.31	126.52
7/22/06	1173.29	144.10	8/22/06	1154.12	107.98	9/22/06	1150.22	84.43	10/22/06	1142.53	123.55
7/23/06	1171.21	146.21	8/23/06	1172.31	99.71	9/23/06	1145.33	99.78	10/23/06	1140.08	122.79
7/24/06	1153.88	152.66	8/24/06	1169.75	99.56	9/24/06	1138.01	102.43	10/24/06	1160.84	123.22
7/25/06	1179.03	125.25	8/25/06	1143.50	91.64	9/25/06	1128.00	121.86	10/25/06	1141.06	124.58
7/26/06	1150.95	166.48	8/26/06	1144.24	101.92	9/26/06	1127.14	139.19	10/26/06	1137.77	98.80
7/27/06	1142.89	113.26	8/27/06	1145.70	60.66	9/27/06	1128.73	116.67	10/27/06	1375.69	127.37
7/28/06	1259.60	123.20	8/28/06	1145.46	93.06	9/28/06	1133.74	115.64	10/28/06	1142.65	119.98
7/29/06	1155.59	137.75	8/29/06	1155.83	96.96	9/29/06	1133.49	128.26	10/29/06	1136.30	126.44
7/30/06	1443.69	160.61	8/30/06	1144.97	126.87	90/08/6	1130.81	122.02	10/30/06	1145.21	141.83
7/31/06	1179.15	117.37	8/31/06	1154.49	94.35				10/31/06	1137.52	123.72
TOTAL		4155.22	TOTAL		3230.57	TOTAL		3106.12	TOTAL		4622.87

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Date	Drace	Gac	Date	Press	Gas	Date	Press	Gas	Date	Press	Gas
5	psig	MSCF		psig	MSCF		psig	MSCF		psig	MSCF
11/1/06	1138.62	160.03	12/1/06	0.00	0.00	1/1/07	1107.00	147.86	2/1/07	1651.35	73.51
11/2/06	1135.57	160.91	12/2/06	0.00	0.00	1/2/07	1104.93	154.51	2/2/07	1159.50	127.44
11/3/06	1135.69	164.56	12/3/06	0.00	0.00	1/3/07	1085.03	150.75	2/3/07	1629.49	88.98
11/4/06	1134.71	152.61	12/4/06	0.00	0.00	1/4/07	1113.47	149.63	2/4/07	1105.41	109.68
11/5/06	1131.17	153.03	12/5/06	0.00	00.00	1/5/07	1109.81	131.01	2/5/07	1119.94	100.27
11/6/06	1133.00	153.34	12/6/06	0.00	00.0	1/6/07	1109.57	129.08	2/6/07	1122.99	121.45
11/7/06	1132.15	153.03	12/7/06	0.00	0.00	1/7/07	1107.25	150.35	2/7/07	1104.44	133.19
11/8/06	1129.95	147.61	12/8/06	0.00	51.81	1/8/07	1110.05	135.57	2/8/07	1097.85	144.59
11/9/06	1132.76	131.34	12/9/06	872.00	137.80	1/9/07	NDC	141.75	2/9/07	1097.48	140.78
11/10/06	1128.37	142.24	12/10/06	0.00	145.63	1/10/07	120.56*	141.22	2/10/07	1096.38	148.45
11/11/06	1128.85	143.46	12/11/06	00.0	121.88	1/11/07	1109.32	135.95	2/11/07	1098.82	155.81
11/12/06	1125.92	145.69	12/12/06	1117.01	3.66	1/12/07	1107.00	149.87	2/12/07	1107.37	148.55
11/13/06	1128.85	143.00	12/13/06	NDC	0.00	1/13/07	1112.50	137.38	2/13/07	1100.17	146.91
11/14/06	1133.61	134.50	12/14/06	NDC	0.00	1/14/07	1114.81	124.73	2/14/07	1101.39	131.50
11/15/06	1128.24	134.16	12/15/06	72.70	0.00	1/15/07	1114.45	129.73	2/15/07	1105.66	109.44
11/16/06	1129.59	140.85	12/16/06	1116.77	0.00	1/16/07	1115.67	114.96	2/16/07	1109.69	109.92
11/17/06	126.14*	99.47	12/17/06	1116.77	0.00	1/17/07	1112.37	83.85	2/17/07	1102.00	59.19
11/18/06	1123.36	80.62	12/18/06	1116.89	00.0	1/18/07	1119.45	49.69	2/18/07	1100.41	61.13
11/19/06	1126.29	101.40	12/19/06	13.67*	37.07	1/19/07	1113.35	103.93	2/19/07	1101.39	57.67
11/20/06	1124.70	104.94	12/20/06	1048.89	109.51	1/20/07	1094.31	113.34	2/20/07	1099.43	35.52
11/21/06	1121.16	105.83	12/21/06	1115.55	114.87	1/21/07	1114.69	115.72	2/21/07	1102.00	22.13
11/22/06	1122.75	105.35	12/22/06	1115.43	88.02	1/22/07	1115.79	100.06	2/22/07	1115.43	38.67
11/23/06	1122.38	100.68	12/23/06	1113.11	97.02	1/23/07	1109.32	100.49	2/23/07	1125.56	49.58
11/24/06	1122.87	107.14	12/24/06	1115.18	95.61	1/24/07	1045.84	94.27	2/24/07	NDC	63.63
11/25/06	1121.90	108.13	12/25/06	1109.08	116.42	1/25/07	1117.87	100.36	2/25/07	NDC	41.65
11/26/06	1115.43	108.05	12/26/06	1107.61	127.32	1/26/07	1108.34	117.10	2/26/07	1112.74	62.68
11/27/06	1120.80	107.36	12/27/06	1107.73	125.09	1/27/07	1107.61	121.68	2/27/07	1119.45	46.90
11/28/06	00.0	0.00	12/28/06	1043.64	124.92	1/28/07	1109.57	91.37	2/28/07	1107.25	48.80
11/29/06	00.0	00.0	12/29/06	1106.76	115.87	1/29/07	1155.47	108.70			
11/30/06	0.00	0.00	12/30/06	1111.64	125.47	1/30/07	1115.18	115.44			
			12/31/06	1107.61	121.89	1/31/07	80.09*	79.66			
TOTAL		3489.33	TOTAL		1859.86	TOTAL		3720.01	TOTAL		2578.02

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1104.68 100.70 4/1/07 1102.36 77.02 5/1/07 1123.36 6/1/07 1140.02 11105.45 101.48 4/3/07 1101.48 7.2.35 5/3/07 1117.30 6/3/07 1140.08 11105.65 102.42 4/5/07 1100.25 55.16 5/5/07 1117.34 6.5.25 6/3/07 1140.08 11105.66 102.42 4/5/07 11108.10 23.43 5/6/07 1113.93 6/4/07 1140.08 1105.16 102.11 4/5/07 11108.10 23.43 5/1/07 1130.23 5/1/07 1140.08 1099.16 4/1 1115.31 5/1/07 1130.93 5/1/07 1130.33 5/1/07 1140.23 1099.13 4/1 1113.23 5/1/107 1130.93 5/1/107 1130.93 5/1/107 1140.03 1100.23 81.31 4/11/07 1100.26 5/1/107 1130.93 5/1/107 1140.27 1100.23 81.30 4/14/07 1103.95 5/1/107 <th></th> <th>psig</th> <th>MSCF</th> <th></th> <th>psig</th> <th>MSCF</th> <th></th> <th>psig</th> <th>MSCF</th> <th></th> <th>psig</th> <th>MSCF</th>		psig	MSCF		psig	MSCF		psig	MSCF		psig	MSCF
1105.54 114.56 $4/2/07$ 1101.87 7.2.55 $5/2/07$ 1131.30 40.94 1100.29 114.81 $6.2.76$ $6/3/07$ 1140.08 1105.56 102.42 $4/5/07$ 1102.56 $5/5/07$ 1114.81 $6.5.26$ $6/5/07$ 1130.08 1105.66 102.41 $4/6/07$ 1102.55 55.16 $5/5/07$ 1114.84 $6.5.26$ $6/5/07$ 1130.08 1105.66 102.41 $4/6/07$ 1118.501 2.2.33 $5/6/07$ 1113.293 $5/6/07$ 1130.03 1099.15 $4/5/07$ 1113.591 2.2.92 $5/7/07$ 1130.23 $6/5/07$ 1140.03 1099.16 $4/10/07$ 1138.60 714.07 1130.23 $5/10/07$ 1130.23 $6/10/07$ 1140.03 1190.25 81.06 $4/11/07$ 1130.70 1130.23 $5/12/07$ 1130.23 $6/12/07$ 1140.65 1190.25 81.06 $4/12/07$ 1130.23 $5/12/07$ 1132.35 $6/12/07$	3/1/07	1104.68	100.70	4/1/07	1102.36	77.02	5/1/07	1123.60	68.16	6/1/07	1140.21	0.00
1105.65 104.84 4/3/07 1102.56 5/3/07 1117.95 6/3/07 114.008 1105.65 102.8 4/4/07 1102.56 6/3 6/3/07 114.00 1105.66 102.17 4/6/07 1102.56 6/3 6/3/07 1140.08 1105.66 102.17 4/6/07 1102.50 5/3/07 114.81 6/3/07 1140.08 1105.66 102.17 4/6/07 1115.91 25.92 5/7/07 111.74 64.52 6/6/07 1140.03 1099.13 100.01 4/7/07 1118.60 12.30 5/8/07 111.29 2.561 6/7/07 1140.03 1099.13 87.01 4/10/07 1107.00 113.03 5/11/07 113.03 5/11/07 1140.33 1100.53 87.31 4/13/07 1093.55 5/14/07 113.03 5/11/07 1140.57 1100.53 87.33 4/13/07 1093.55 5/14/07 113.05 5/14/07 1140.57 1100.53 87.33	3/2/07	1105.54	114.60	4/2/07	1101.87	72.55	5/2/07	1131.30	40.94	6/2/07	1140.45	0.00
1105.05 105.88 4/4/07 1102.61 5/3/07 111.4 65.2.5 6/4/07 1140.08 1106.56 102.42 4/5/07 1102.36 5.5.16 5/5/07 1140.01 1106.56 102.42 4/5/07 1102.35 5.5.16 5/5/07 1140.01 1106.56 10.2 4/6/07 1145.91 2.8.3 5/5/07 1140.01 1009.13 100.01 4/7/07 1115.91 2.8.45 5/5/07 1140.02 1009.105 61.47 114.60 1141.60 1141.94 5.2.28 5/7/07 1140.03 1100.519 87.81 4/11/07 1009.92 5.1.2/07 1130.53 6/12/07 1140.63 1100.55 87.31 4/13/07 1009.95 5/12/07 1120.73 6/14/07 1140.75 1100.55 87.33 6/11.07 1130.33 5/12/07 1120.48 6/12/07 1140.75 1100.55 87.03 6/11.07 110.33 5/12/07 1121.74 6/12/07	3/3/07	1109.69	104.84	4/3/07	1100.29	72.34	5/3/07	1117.99	62.97	6/3/07	1140.08	0.00
1105.66 102.42 4/5/07 1102.36 55.16 5/5/07 1114.94 65.60 6/5/07 1139.96 10091.13 100011 4/707 1115.91 25.93 5/8/07 1111.74 64.52 6/5/07 1139.95 10091.13 10091.13 1000 4/8/07 1115.60 12.33 5/8/07 1113.05 6/5/07 1140.33 1009.105 86.16 4/10/07 1098.94 7.14 5/10/07 1130.55 0.000 6/9/07 1140.33 1100.23 87.01 4/11/07 1103.25 5/11/07 1130.55 0.000 6/9/07 1140.33 1100.53 87.30 4/11/07 1103.35 5/11/07 1120.13 6/11/07 1140.45 1100.55 87.30 4/12/07 1103.35 5/11/07 1123.16 6/11/07 1140.45 1100.55 87.30 1120.71 122.73 5/11/07 1123.16 6/11/07 1140.75 1100.55 87.30 1120.71 122.73	3/4/07	1105.05	105.88	4/4/07	1102.61	61.70	5/4/07	1114.81	65.25	6/4/07	1140.08	0.00
1106.64 92.17 $4/6/07$ 1108.10 28.43 $5/6/07$ 1117.74 64.52 $6/6/07$ 1140.02 1099.13 100001 $4/7/07$ 1115.91 25.92 $5/7/07$ 1117.99 22.61 $6/7/07$ 1140.03 1099.19 $6.1.42$ $4/8/07$ 1114.86 12.30 $5/8/07$ 1112.99 22.61 $6/7/07$ 1140.03 1099.19 $6.1.4$ $4/10/07$ 1018.39 $5/14/07$ 112.99 $5.7.78$ $6/10/07$ 1140.03 1100.29 87.81 $4/11/07$ 1107.00 22.73 $5/14/07$ 112.815 $5/14/07$ 1140.75 1100.155 87.09 $4/12/07$ 1099.55 50.80 $5/14/07$ 112.816 $6/10/07$ 1140.67 1100.773 87.09 $4/12/07$ 1099.55 $50.84/70$ 1140.70 1140.75 1100.773 87.20 $4/12/07$ 1099.55 $5/14/07$ 1125.67 $6/12/07$ 1140.75 11007.73 87	3/5/07	1105.66	102.42	4/5/07	1102.36	55.16	5/5/07	1114.94	65.60	6/5/07	1139.96	0.00
1091.13 100.01 4/7/07 1115.91 25.92 5/7/07 1117.99 22.61 6/7/07 1140.08 1089.67 61.42 4/8/07 1114.86 5.38/07 1130.55 6/9/07 1140.03 1099.06 72.81 4/9/07 1114.86 5.2.28 5/9/07 1130.95 6/11/07 1140.03 1100.053 88.106 4/12/07 1103.20 22.73 5/11/07 1130.35 6/13/07 1140.33 1100.153 88.106 4/12/07 1103.25 5/15/07 1120.67 94.16 6/13/07 1140.63 1100.175 88.703 4/15/07 1099.55 50.80 5/15/07 1120.75 94.14/07 1140.57 1100.175 87.03 4/13/07 1100.285 5/15/07 1120.75 94.14/07 1140.57 1100.175 87.03 4/15/07 1100.285 5/15/07 1120.76 94.14/07 1140.57 1100.155 87.12 1120.76 1130.76 1130.76 1140.57	3/6/07	1106.64	92.17	4/6/07	1108.10	28.43	5/6/07	1117.74	64.52	6/6/07	1140.21	0.00
1089.67 61.42 4/8/07 1118.60 12.30 5/8/07 1129.95 0.00 6/8/07 1140.03 1099.109 96.16 4/10/07 1098.94 7.14 5/10/07 1130.25 0.00 6/9/07 1140.03 1100.29 87.81 4/11/07 1107.00 2.273 5/11/07 1128.85 30.31 6/11/07 1140.03 1100.29 87.81 4/11/07 1103.25 5/13/07 1123.85 30.31 6/11/07 1140.45 1100.53 82.31 4/13/07 1099.55 50.80 5/13/07 1120.67 94.60 6/13/07 1140.45 1100.53 82.31 4/13/07 1009.55 50.80 5/13/07 1130.44 59.99 6/14/07 1140.57 1100.57 84.70 1097.50 54.32 5/13/07 1130.45 5/14/07 1140.57 1100.73 84.70 1102.56 54.31 5/13/07 1132.65 6/13/07 1140.57 1109.73 84.70	3/7/07	1091.13	100.01	4/7/07	1115.91	25.92	5/7/07	1117.99	22.61	6/7/07	1140.08	0.00
1094.06 72.81 4/9/07 1114.94 52.28 5/9/07 1130.55 0.00 6/9/07 1140.03 1109219 96.16 4/11/07 1039.34 7.14 5/11/07 1130.33 5/11/07 1140.33 1100.29 87.81 4/11/07 1107.00 22.73 5/11/07 1123.48 87.25 6/11/07 1140.45 1100.55 87.03 4/15/07 1093.55 50.80 5/14/07 1140.45 1100.75 87.03 4/15/07 1097.60 54.32 5/15/07 1130.44 5/14/07 1140.67 1100.75 87.03 4/15/07 1097.60 54.32 5/15/07 1130.44 5/14/07 1140.67 1100.75 84.79 4/15/07 1097.60 5/14/07 1132.65 6/13/07 1140.67 11007.15 87.05 6/13/07 1102.85 17.11 5/17/07 1120.76 1140.70 11095.28 29.14 4/13/07 1107.61 17.11 5/13/07 1140.77	3/8/07	1089.67	61.42	4/8/07	1118.60	12.30	5/8/07	1129.95	0.00	6/8/07	1140.33	0.00
1099.19 96.16 4/10/07 1098.94 7.14 5/10/07 1130.93 54.7 6/10/07 1140.33 1100.23 87.81 4/11/07 1107.00 22.73 5/11/07 1130.35 6/12/07 1140.33 1100.53 87.31 4/13/07 1039.55 5.0.80 5/14/07 1120.45 6/12/07 1140.57 1100.55 87.03 4/15/07 1039.55 5.0.80 5/14/07 1130.45 6/14/07 1140.57 1100.73 84.70 4/15/07 1097.60 54.32 5/14/07 1130.45 5/14/07 1140.57 1100.73 84.70 4/15/07 1102.85 17.11 5/17/07 1135.57 63.96 6/12/07 1140.57 1100.73 84.30 4/15/07 1107.45 5/14/07 1135.57 63.96 6/12/07 1140.57 1092.72 35.10 4/18/07 1107.61 17.45 5/14/07 1130.56 6/14/07 1140.57 1093.13 4/15/07 1107.61	3/9/07	1094.06	72.81	4/9/07	1114.94	52.28	5/9/07	1130.56	0.00	6/9/07	1140.08	0.00
1100.29 87.81 4/11/07 1107.00 22.73 5/11/07 1128.85 30.31 6/11/07 1140.33 1100.26 81.06 4/12/07 11137.33 51.66 5/12/07 1140.45 1100.53 81.06 4/12/07 11132.35 50.80 5/13/07 1140.45 1100.53 84.79 4/14/07 1103.25 50.80 5/14/07 1140.57 1100.77 84.79 4/15/07 1099.66 5/15/07 1130.46 5/14/07 1140.57 1100.77 84.70 4/15/07 1097.66 5/15/07 1130.44 5/15/07 1140.57 1100.77 84.20 4/15/07 1102.66 5/15/07 1130.45 6/15/07 1140.57 1092.72 35.10 4/18/07 1107.61 17.41 5/15/07 1132.66 6/14/07 1140.57 1093.72 35.10 4/18/07 1107.61 17.45 5/18/07 1132.66 6/14/07 1140.57 1093.73 4/12/07 1107.61	3/10/07	1099.19	96.16	4/10/07	1098.94	7.14	5/10/07	1130.93	54.78	6/10/07	1140.33	0.00
109.68 81.06 4/12/07 1113.23 51.66 5/12/07 112.05 87.25 6/12/07 1140.45 1100.53 82.31 4/13/07 1099.55 50.80 5/13/07 1120.67 94.60 6/13/07 1140.45 1100.53 84.73 4/15/07 1099.55 50.80 5/15/07 1130.67 94.60 6/13/07 1140.57 1101.75 87.03 4/15/07 1093.95 5/15/07 1132.65 6/14/07 1140.70 1107.73 84.20 4/15/07 1102.85 177.11 5/17/07 1132.65 6/13/07 1140.70 1095.28 29.14 4/17/07 1102.65 5/17/07 1132.65 6/13/07 1140.70 1095.28 47.10 4/1070 1102.65 5/17/07 1132.65 6/13/07 1140.70 1094.31 45.78 4/13/07 1107.61 1134.71 5/13/07 1140.45 1094.31 45.78 6/13/07 1107.12 25.31 5/13/07 1134.71	3/11/07	1100.29	87.81	4/11/07	1107.00	22.73	5/11/07	1128.85	30.31	6/11/07	1140.33	0.00
1100.53 82.31 $4/13/07$ 1099.55 50.80 $5/13/07$ 1120.67 94.60 $6/13/07$ 1140.45 1100.15 87.70 $4/14/07$ 1103.95 34.05 $5/14/07$ 1127.14 63.95 $6/14/07$ 1140.57 1101.75 87.03 $4/15/07$ 1009.66 54.32 $5/15/07$ 1130.44 59.99 $6/12/07$ 1140.57 1107.73 84.20 $4/16/07$ 1003.89 54.32 $5/16/07$ 1130.57 63.95 $6/14/07$ 1140.57 1107.73 84.20 $4/17/07$ 1102.85 17.11 $5/11/07$ 1130.57 63.96 $6/17/07$ 1140.57 1092.72 35.10 $4/17/07$ 1102.46 117.41 $5/19/07$ 1132.64 $4/17/07$ 1140.67 1092.72 35.10 $4/13/07$ 1102.46 $5/18/07$ 1132.57 $6/12/07$ 1140.67 1092.71 $4/72/07$ 1107.12 1107.12 $5/23/07$ 1134.71 $6/12$	3/12/07	1099.68	81.06	4/12/07	1113.23	51.66	5/12/07	1123.48	87.25	6/12/07	1140.45	0.00
1100.65 84.79 $4/14/07$ 1103.45 $5.14/07$ 1127.14 63.95 $6/14/07$ 1140.57 1101.75 87.03 $4/15/07$ 1039.66 54.32 $5/15/07$ 1130.44 59.99 $6/15/07$ 1140.57 1107.73 84.20 $4/15/07$ 1007.66 54.32 $5/15/07$ 1130.44 59.99 $6/17/07$ 1140.57 1095.28 29.14 $4/17/07$ 1102.85 17.11 $5/17/07$ 1135.67 63.36 $6/17/07$ 1140.57 1092.72 35.10 $4/19/07$ 1107.61 17.41 $5/19/07$ 1132.64 42.73 $6/19/07$ 1140.57 1094.31 $4/5.78$ $4/12/07$ 1107.25 40.88 $5/21/07$ 1132.66 $6/23/07$ 1140.67 1094.31 $4/5.78$ $4/21/07$ 1107.25 40.88 $5/21/07$ 1134.71 57.29 $6/12/07$ 1130.07 1099.43 $4/29/07$ 11107.12 27.69 $5/21/07$ 1134.71	3/13/07	1100.53	82.31	4/13/07	1099.55	50.80	5/13/07	1120.67	94.60	6/13/07	1140.45	0.00
1101.75 87.03 $4/15/07$ 1097.60 54.32 $5/15/07$ 1130.44 59.99 $6/15/07$ 1140.70 1107.73 84.20 $4/16/07$ 1098.94 54.69 $5/16/07$ 1135.57 63.398 $6/17/07$ 1140.57 1095.28 29.14 $4/17/07$ 1107.61 17.41 $5/17/07$ 1135.57 63.398 $6/17/07$ 1140.67 1092.72 35.10 $4/18/07$ 1107.61 17.41 $5/19/07$ 1132.64 42.73 $6/18/07$ 1140.94 1093.82 47.10 $4/20/07$ 1107.54 25.31 $5/20/07$ 1134.71 6.276 $6/20/07$ 1140.645 1094.31 45.78 $4/21/07$ 1107.25 40.88 $5/21/07$ 1134.71 $67.26/07$ 1110.64 1094.31 45.78 $4/21/07$ 1107.12 27.69 $5/23/07$ 1134.71 $57.26/07$ 1101.87 1097.36 39.52 $4/24/07$ 11107.12 27.69 $5/23/07$ 1134.71 $57.26/07$ 1101.87 1097.48 42.39 $4/25/07$ 11107.12 27.69 $5/23/07$ 1134.77 $6/26/07$ 1101.87 1097.48 42.39 $4/25/07$ 11107.12 27.69 $5/23/07$ 1134.71 $57.26/07$ 1101.87 1097.48 42.39 $4/25/07$ 11107.12 27.69 $5/23/07$ 1134.71 $57.26/07$ 1101.87 1097.48 42.39 $4/25/07$ 11107.12 27.69 $5/23/07$ 1134.71	3/14/07	1100.65	84.79	4/14/07	1103.95	34.05	5/14/07	1127.14	63.95	6/14/07	1140.57	0.00
1107.73 84.20 $4/16/07$ 1098.94 54.69 $5/16/07$ 1135.57 63.98 $6/16/07$ 1140.57 1095.28 29.14 $4/17/07$ 1107.61 17.45 $5/18/07$ 1132.64 42.73 $6/18/07$ 1140.57 1092.72 35.10 $4/18/07$ 1107.61 17.41 $5/19/07$ 1132.64 42.73 $6/18/07$ 1140.94 1093.82 47.10 $4/20/07$ 1105.54 25.31 $5/19/07$ 1131.65 43.73 $6/19/07$ 1140.97 1093.82 47.10 $4/20/07$ 1105.54 25.31 $5/20/07$ 1131.64 42.73 $6/19/07$ 1140.97 1094.31 45.78 $4/21/07$ 1107.12 27.69 $5/22/07$ 1134.71 57.29 $6/22/07$ 1100.87 1099.54 46.75 $4/22/07$ 1110.745 84.46 $5/22/07$ 1134.71 57.29 $6/22/07$ 1101.87 1097.48 $4/2.707$ 11107.12 27.69 $5/22/0$	3/15/07	1101.75	87.03	4/15/07	1097.60	54.32	5/15/07	1130.44	59.99	6/15/07	1140.70	0.00
1095.28 29.14 $4/17/07$ 1102.85 $17/107$ 1140.70 1092.72 35.10 $4/18/07$ 1107.61 17.45 $5/18/07$ 1132.64 42.73 $6/17/07$ 1140.70 1092.72 35.10 $4/18/07$ 1107.61 17.45 $5/18/07$ 1132.64 42.73 $6/18/07$ 1140.94 1094.18 34.34 $4/19/07$ 1105.54 25.31 $5/19/07$ 1134.71 62.276 $6/13/07$ 1140.94 1094.31 45.78 $4/21/07$ 1105.54 25.31 $5/20/07$ 1134.71 62.207 $6/19/07$ 1140.94 1094.51 $4/22/07$ 1110.54 18.44 $5/22/07$ 1134.71 57.29 $6/22/07$ 1102.84 1091.62 $41.37/07$ 1107.12 27.407 1134.71 57.29 $6/22/07$ 1101.87 1097.56 42.307 1107.12 27.567 1133.471 57.29 $6/22/07$ 1101.87 1097.48 $4/25/07$	3/16/07	1107.73	84.20	4/16/07	1098.94	54.69	5/16/07	1135.57	63.98	6/16/07	1140.57	0.00
1092.72 35.10 $4/18/07$ 1107.61 17.45 $5/18/07$ 1132.64 42.73 $6/18/07$ 1140.94 1094.18 34.34 $4/19/07$ 1103.10 17.41 $5/19/07$ 1129.59 60.27 $6/19/07$ 1141.06 1094.31 45.78 $4/12/07$ 1107.25 40.88 $5/21/07$ 1131.42 64.35 $6/20/07$ 1140.45 1094.31 45.78 $4/21/07$ 1107.25 40.88 $5/21/07$ 1134.71 62.26 $6/21/07$ 1130.07 1094.31 45.78 $4/22/07$ 1107.12 27.69 $5/23/07$ 1134.71 52.26 $6/22/07$ 1102.48 1091.62 41.39 $4/22/07$ 1107.12 27.69 $5/23/07$ 1133.68 64.54 $6/22/07$ 1101.87 1097.36 39.52 $4/24/07$ 1110.72 27.69 $5/23/07$ 1133.68 $6/22/07$ 1101.87 1097.48 42.49 $4/25/07$ 1107.12 27.69 $5/23/07$ 1133.68 $6/22/07$ 1101.87 1097.48 42.49 $47.26/07$ 1112.56 42.40 $5/23/07$ 1133.78 $6/27/07$ 1101.87 1095.74 42.49 47.407 11112.55 42.740 $5/22/07$ 1133.78 $6/27/07$ 1101.87 1095.65 43.49 47.407 1112.55 42.407 1131.75 $6/29/07$ 1101.87 1095.66 43.49 $5/26/07$ 1132.18 $5/29/07$ 1133.215 $6/27$	3/17/07	1095.28	29.14	4/17/07	1102.85	17.11	5/17/07	1126.05	43.30	6/11/07	1140.70	0.00
1094.18 34.34 4/19/07 1103.10 17.41 5/19/07 1129.59 60.27 6/19/07 1141.06 1093.82 47.10 4/20/07 1105.54 25.31 5/20/07 1131.42 64.35 6/20/07 1140.45 1094.31 45.78 4/21/07 1107.12 27.69 5/23/07 1134.71 62.26 6/21/07 1130.07 1099.54 46.75 4/22/07 1110.54 18.44 5/22/07 1130.68 64.54 6/22/07 1102.48 1091.62 41.39 4/25/07 1107.12 27.69 5/23/07 1133.71 65.26 6/21/07 1101.87 1097.36 39.52 4/24/07 1112.50 32.18 5/24/07 1133.77 64.36 6/22/07 1101.87 1097.36 42.49 4/25/07 1112.50 32.18 5/24/07 1133.71 64.36 6/22/07 1101.87 1095.75 42.40 1112.50 32.18 5/24/07 1133.71 64.30 6/22/07 1101.87 1095.75 43.26/07 11112.55 42.40 5/	3/18/07	1092.72	35.10	4/18/07	1107.61	17.45	5/18/07	1132.64	42.73	6/18/07	1140.94	0.00
1093.82 47.10 4/20/07 1105.54 25.31 5/20/07 1131.42 64.35 6/20/07 1140.45 1094.31 45.78 4/21/07 1107.12 27.69 5/21/07 1134.71 62.26 6/21/07 1130.07 1094.31 45.78 4/21/07 1107.12 27.69 5/23/07 1134.71 62.26 6/21/07 1102.48 1091.62 41.39 4/23/07 1107.12 27.69 5/23/07 1134.71 57.29 6/23/07 1101.87 1091.62 41.39 4/25/07 1110.712 27.69 5/24/07 1133.71 64.26 6/24/07 1101.87 1097.48 42.30 1112.50 32.18 5/24/07 1133.71 64.29 6/24/07 1101.87 1095.40 42.49 4/25/07 1112.56 32.18 5/24/07 1133.71 64.29 6/24/07 1101.87 1095.40 42.49 4/26/07 1112.47 42.30 1133.71 64.30 6/26/07 1141.06 1096.51 43.40 1113.77 64.30 5/26/07 1133.	3/19/07	1094.18	34.34	4/19/07	1103.10	17.41	5/19/07	1129.59	60.27	6/19/07	1141.06	0.00
1094.31 45.78 4/21/07 1107.25 40.88 5/21/07 1134.71 62.26 6/21/07 1130.07 1089.54 46.75 4/22/07 1110.54 18.44 5/22/07 1130.68 64.54 6/22/07 1103.48 1091.62 41.39 4/23/07 1107.12 27.69 5/23/07 1133.71 57.29 6/23/07 1101.87 1091.62 41.39 4/25/07 1110.78 32.18 5/24/07 1133.300 66.87 6/24/07 1101.87 1097.36 39.52 4/24/07 1112.50 32.18 5/24/07 1133.300 66.87 6/24/07 1101.87 1095.40 42.49 4/25/07 1112.50 32.18 5/26/07 1133.300 66.87 6/24/07 1101.87 1095.40 42.49 4/26/07 1112.47 42.30 5/26/07 1133.31 64.30 6/26/07 1141.06 1096.55 43.18 4/26/07 1113.47 42.30 5/26/07 1133.38 60.30 6/26/07 1141.06 1096.65 43.31.8 4/26/07 <td< td=""><td>3/20/07</td><td>1093.82</td><td>47.10</td><td>4/20/07</td><td>1105.54</td><td>25.31</td><td>5/20/07</td><td>1131,42</td><td>64.35</td><td>6/20/07</td><td>1140.45</td><td>0.00</td></td<>	3/20/07	1093.82	47.10	4/20/07	1105.54	25.31	5/20/07	1131,42	64.35	6/20/07	1140.45	0.00
1089.54 46.75 4/22/07 1110.54 18.44 5/22/07 1130.68 64.54 6/22/07 1102.48 1091.62 41.39 4/23/07 1107.12 27.69 5/23/07 1134.71 57.29 6/23/07 1101.87 1097.36 39.52 4/24/07 1112.50 32.18 5/24/07 1133.00 66.87 6/24/07 1101.87 1097.48 42.99 4/25/07 1107.86 40.44 5/25/07 1133.20 66.87 6/24/07 1101.87 1095.40 42.49 4/26/07 1113.47 42.30 5/26/07 1132.88 67.77 64.90 6/26/07 1101.75 1095.40 42.49 4/26/07 1113.47 42.30 5/26/07 1132.88 67.77 64.20 1141.06 1095.43 4123/07 1112.25 46.67 5/27/07 1132.18 5	3/21/07	1094.31	45.78	4/21/07	1107.25	40.88	5/21/07	1134.71	62.26	6/21/07	1130.07	34.68
1091.62 41.39 4/23/07 1107.12 27.69 5/23/07 1134.71 57.29 6/23/07 1101.87 1097.36 39.52 4/24/07 1112.50 32.18 5/24/07 1133.00 66.87 6/23/07 1101.87 1097.48 42.99 4/25/07 1107.86 40.44 5/25/07 1132.88 67.77 6/25/07 1101.87 1095.40 42.49 4/26/07 1113.47 42.30 5/26/07 1137.77 64.90 6/26/07 1141.06 1095.40 42.49 4/26/07 1112.25 45.40 5/26/07 1137.77 64.90 6/26/07 1131.65 1095.63 37.59 4/28/07 1112.25 45.40 5/28/07 1132.18 61.70 6/28/07 1135.19 1096.63 37.59 4/28/07 1115.55 42.40 5/28/07 1132.15 63.77 6/29/07 1135.19 1095.64 36.04 4/28/07 1110.79 37.52 5/29/07 1132.15 63.77	3/22/07	1089.54	46.75	4/22/07	1110.54	18.44	5/22/07	1130.68	64.54	6/22/07	1102.48	1.34
1097.36 39.52 4/24/07 1112.50 32.18 5/24/07 1133.00 66.87 6/24/07 1101.87 1097.48 42.99 4/25/07 1107.86 40.44 5/25/07 1132.28 67.77 6/25/07 1101.75 1095.40 42.49 4/26/07 1113.47 42.30 5/26/07 1137.77 64.90 6/26/07 1141.06 1096.75 43.18 4/27/07 1112.25 46.67 5/27/07 1133.36 61.70 6/26/07 1135.81 1096.75 43.18 4/27/07 1112.25 42.40 5/27/07 1133.36 61.70 6/28/07 1135.81 1096.75 43.18 4/27/07 1115.55 42.40 5/27/07 1133.36 61.70 6/28/07 1135.81 1096.63 37.59 4/28/07 1115.55 42.40 5/29/07 1132.15 63.77 6/29/07 1135.39 1056.63 36.20 4/29/07 1110.79 37.52 5/29/07 1132.15 63.77 6/29/07 1138.23 1058.94 36.20 4/29/07 1123	3/23/07	1091.62	41.39	4/23/07	1107.12	27.69	5/23/07	1134.71	57.29	6/23/07	1101.87	3.23
1097,48 42.99 4/25/07 1107.86 40.44 5/25/07 1132.88 67.77 6/25/07 1101.75 1095,40 42.49 4/26/07 1113.47 42.30 5/26/07 1137.77 64.90 6/26/07 1141.06 1096.75 43.18 4/27/07 1112.25 46.67 5/27/07 1133.86 60.90 6/26/07 1141.06 1096.63 37.59 4/28/07 1115.55 42.40 5/28/07 1133.86 60.90 6/27/07 1135.81 1096.63 37.59 4/29/07 1115.55 42.40 5/28/07 1132.15 63.77 6/29/07 1118.23 1096.63 37.50 1110.79 37.52 5/29/07 1132.15 63.77 6/29/07 1118.23 1098.94 36.20 4/29/07 1123.12 35.41 5/30/07 1132.15 63.37 6/29/07 1118.23 1098.94 36.20 4/30/07 1123.12 35.30/07 1132.64 46.46 6/30/07 1120.43 <td>3/24/07</td> <td>1097.36</td> <td>39.52</td> <td>4/24/07</td> <td>1112.50</td> <td>32.18</td> <td>5/24/07</td> <td>1133.00</td> <td>66.87</td> <td>6/24/07</td> <td>1101.87</td> <td>0.00</td>	3/24/07	1097.36	39.52	4/24/07	1112.50	32.18	5/24/07	1133.00	66.87	6/24/07	1101.87	0.00
1095.40 42.49 4/26/07 1113.47 42.30 5/26/07 1137.77 64.90 6/26/07 1141.06 1096.75 43.18 4/27/07 1112.25 46.67 5/27/07 1133.86 60.90 6/27/07 1135.81 1096.63 37.59 4/28/07 1115.55 42.40 5/28/07 1130.93 61.70 6/28/07 1125.19 1105.54 36.04 4/29/07 1110.79 37.52 5/29/07 1132.15 63.77 6/29/07 1118.23 1098.94 36.20 4/30/07 1123.12 35.41 5/30/07 1132.15 63.77 6/29/07 1118.23 1098.94 36.20 4/30/07 1123.12 35.41 5/30/07 1132.64 46.46 6/30/07 1120.43 1107.25 39.31 TOTAL 1174.30 TOTAL 107AL 107AL 107AL 107AL	3/25/07	1097.48	42.99	4/25/07	1107.86	40.44	5/25/07	1132.88	67.77	6/25/07	1101.75	19.63
1096.75 43.18 4/27/07 1112.25 46.67 5/27/07 1133.86 60.90 6/27/07 1135.81 1096.63 37.59 4/28/07 1115.55 42.40 5/28/07 1130.93 61.70 6/28/07 1125.19 1105.54 36.04 4/29/07 1110.79 37.52 5/29/07 1132.15 63.77 6/29/07 1118.23 1098.94 36.20 4/29/07 1123.12 35.41 5/30/07 1132.15 63.77 6/30/07 1118.23 1098.94 36.20 4/30/07 1123.12 35.41 5/30/07 1132.64 46.46 6/30/07 1120.43 1107.25 39.31 107AL 1174.30 707AL 1032 120.32	3/26/07	1095.40	42.49	4/26/07	1113.47	42.30	5/26/07	1137.77	64.90	6/26/07	1141.06	51.16
1096.63 37.59 4/28/07 1115.55 42.40 5/28/07 1130.93 61.70 6/28/07 1125.19 1105.54 36.04 4/29/07 1110.79 37.52 5/29/07 1132.15 63.77 6/29/07 1118.23 1098.94 36.20 4/30/07 1123.12 35.41 5/30/07 1132.64 46.46 6/30/07 1120.43 1098.94 36.20 4/30/07 1123.12 35.41 5/30/07 1132.64 46.46 6/30/07 1120.43 1107.25 39.31 TOTAL 1174.30 TOTAL 107AL 1032	3/27/07	1096.75	43.18	4/27/07	1112.25	46.67	5/27/07	1133.86	60.90	6/27/07	1135.81	106.78
1105.54 36.04 4/29/07 1110.79 37.52 5/29/07 1132.15 63.77 6/29/07 1118.23 1098.94 36.20 4/30/07 1123.12 35.41 5/30/07 1132.64 46.46 6/30/07 1120.43 1107.25 39.31 5/31/07 1138.50 10.32 120.43 2055.13 TOTAL 1174.30 TOTAL 107AL 1682.34 TOTAL	3/28/07	1096.63	37.59	4/28/07	1115.55	42.40	5/28/07	1130.93	61.70	6/28/07	1125.19	138.99
1098.94 36.20 4/30/07 1123.12 35.41 5/30/07 1132.64 46.46 6/30/07 1120.43 1107.25 39.31 5/31/07 1138.50 10.32 2055.13 TOTAL 1174.30 TOTAL 107.21 10.32 7074 1120.43	3/29/07	1105.54	36.04	4/29/07	1110.79	37.52	5/29/07	1132.15	63.77	6/29/07	1118.23	133.56
1107.25 39.31 5/31/07 1138.50 10.32 2055.13 TOTAL 1174.30 TOTAL 1682.34 TOTAL	3/30/07	1098.94	36.20	4/30/07	1123.12	35.41	5/30/07	1132.64	46.46	6/30/07	1120.43	121.26
2055.13 TOTAL 1174.30 TOTAL 1682.34 TOTAL	3/31/07	1107.25	39.31				5/31/07	1138.50	10.32			
	TOTAL		2055.13	TOTAL		1174.30	TOTAL		1682.34	TOTAL		610.63

Table A-1. (cont.)

Date	Press	Gas	Date	Press	Gas	Date	Press	Gas	Date	Press	Gas
	psig	MSCF		psig	MSCF		psig	MSCF		psig	MSCF
7/1/07	1123.60	115.12	8/1/07	1124.82	00.0	9/1/07	1397.42	00.0	10/1/01	1.59	0.00
7/2/07	1128.49	130.70	8/2/07	1123.48	0.00	9/2/07	1393.64	0.00	10/2/07	1.59	0.00
7/3/07	1126.05	129.28	8/3/07	1123.60	0.00	9/3/07	1389.00	00.00	10/3/07	1.59	0.00
7/4/07	1125.19	135.11	8/4/07	1124.46	0.00	9/4/07	1384.48	00.00	10/4/07	1.71	0.00
7/5/07	1126.05	101.15	8/5/07	1124.70	0.00	9/5/07	1379.97	0.00	10/5/07	0.85	0.00
7/6/07	1125.07	00.0	8/6/07	1124.46	0.00	6/0/2	1375.94	0.00	10/6/07	1.59	0.00
70/1/1	1122.63	00.0	8/7/07	1124.58	0.00	70/1/6	1371.42	00.00	10/7/01	1.59	0.00
7/8/07	1122.38	00.00	8/8/07	1124.95	0.00	9/8/07	1366.91	0.00	10/8/07	0.85	0.00
70/6/1	1122.63	00.00	8/9/07	1123.73	0.00	70/6/6	1363.00	0.00	10/9/01	1.71	00.00
7/10/07	1122.51	00.00	8/10/07	1123.60	0.00	9/10/07	1358.48	00.00	10/10/07	1.59	0.00
7/11/07	1122.26	0.00	8/11/07	1123.48	0.00	9/11/07	1353.84	0.00	10/11/07	1.59	0.00
7/12/07	1121.04	0.00	8/12/07	1123.48	0.00	9/12/07	1349.08	0.00	10/12/07	NDC	0.00
7/13/07	1122.26	0.00	8/13/07	1123.73	00.0	9/13/07	1343.71	00.0	10/13/07	NDC	0.00
7/14/07	1122.51	0.00	8/14/07	1123.48	0.00	9/14/07	1338.46	0.00	10/14/07	NDC	0.00
7/15/07	1122.87	0.00	8/15/07	1123.60	00.0	9/15/07	1333.33	00.0	10/15/07	2.08	00.0
7/16/07	1122.99	0.00	8/16/07	1123.60	00.0	9/16/07	1327.96	00.00	. 10/16/07	1.71	0.00
7/11/07	1122.75	0.00	8/17/07	1123.48	00.00	9/17/07	1322.84	0.00	10/11/07	1.83	00.00
7/18/07	1122.75	0.00	8/18/07	1123.73	0.00	9/18/07	1317.83	00.00	10/18/07	1.83	0.00
7/19/07	1122.99	0.00	8/19/07	1124.70	0.00	9/19/07	1312.46	0.00	10/19/07	1.59	00.00
7/20/07	1122.75	0.00	8/20/07	1125.07	0.00	9/20/07	399.80	0.00	10/20/07	1.59	00.0
7/21/07	1123.36	0.00	8/21/07	1124.46	0.00	9/21/07	5.01	0.00	10/21/07	0.85	0.00
7/22/07	1123.12	0.00	8/22/07	1123.48	0.00	9/22/07	3.17	00.00	10/22/07	1.59	0.00
7/23/07	1123.36	0.00	8/23/07	1433.32	0.00	9/23/07	2.56	00.00	10/23/07	1.83	0.00
7/24/07	1123.24	00.00	8/24/07	1430.02	0.00	9/24/07	2.44	00.00	10/24/07	1.71	0.00
7/25/07	1123.73	0.00	8/25/07	1426.11	0.00	9/25/07	2.08	0.00	10/25/07	1.59	0.00
7/26/07	1124.46	0.00	8/26/07	1422.57	0.00	9/26/07	1.83	0.00	10/26/07	0.85	00.00
7/27/07	1123.48	0.00	8/27/07	1418.06	0.00	9/27/07	1.95	0.00	10/27/07	1.59	0.00
7/28/07	1124.58	00.00	8/28/07	1413.29	0.00	9/28/07	1.83	00.00	10/28/07	0.73	0.00
7/29/07	1124.82	00.00	8/29/07	1409.14	0.00	9/29/07	. 1.59	0.00	10/29/07	1.83	0.00
7/30/07	1123.48	0.00	8/30/07	1404.99	0.00	9/30/07	1.83	0.00	10/30/07	1.71	0.00
7/31/07	1124.58	0.00	8/31/07	1399.87	0.00				10/31/07	1.59	0.00
TOTAL		611.36	TOTAL		00.0	TOTAL		00.00	TOTAL		0.00

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Gas	MSCF	0.00	00.00	00.00	0.00	0.00	00.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0	00.00	00.0	00.0	0.00	00.00	0.00	00.00	0.00	00.00	0.00	00.00	00.00	0.00	0.00	0.00	0.00			0.00
Press	psig	2.08	2.08	2.20	2.08	2.08	2.08	1.95	2.08	2.08	1.95	2.08	2.08	1.95	2.08	1.95	1.95	2.08	1.95	1.95	NDC	2.44	2.08	1.95									
Date		2/1/08	2/2/08	2/3/08	2/4/08	2/5/08	2/6/08	2/7/08	2/8/08	2/9/08	2/10/08	2/11/08	2/12/08	2/13/08	2/14/08	2/15/08	2/16/08	2/17/08	2/18/08	2/19/08	2/20/08	2/21/08	2/22/08	2/23/08	2/24/08	2/25/08	2/26/08	2/27/08	2/28/08	2/29/08			TOTAL
Gas	MSCF	00.0	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0	00.0	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	00.00	00.00	0.00	00.0	00.00	0.00	0.00	0.00
Press	psig	1.95	2.08	2.08	2.20	2.08	2.08	2.08	1.95	1.95	2.20	2.08	2.08	2.08	2.08	1.95	2.08	1.95	2.20	2.08	1.95	2.08	2.08	2.08	1.95	2.08	1.95	2.08	2.08	2.08	2.08	2.08	
Date	×	1/1/08	1/2/08	1/3/08	1/4/08	1/5/08	1/6/08	1/7/08	1/8/08	1/9/08	1/10/08	1/11/08	1/12/08	1/13/08	1/14/08	1/15/08	1/16/08	1/17/08	1/18/08	1/19/08	1/20/08	1/21/08	1/22/08	1/23/08	1/24/08	1/25/08	1/26/08	1/27/08	1/28/08	1/29/08	1/30/08	1/31/08	TOTAL
Gas	MSCF	00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Press	psig	1.95	1.83	1.83	1.83	1.95	1.83	1.83	1.83	1.83	1.71	1.83	1.83	1.83	1.95	1.83	1.95	1.95	1.83	1.95	1.95	1.83	1.95	1.71	2.08	2.32	2.20	2.20	NDC	NDC	NDC	2.20	
Date		12/1/07	12/2/07	12/3/07	12/4/07	12/5/07	12/6/07	12/7/07	12/8/07	12/9/07	12/10/07	12/11/07	12/12/07	12/13/07	12/14/07	12/15/07	12/16/07	12/17/07	12/18/07	12/19/07	12/20/07	12/21/07	12/22/07	12/23/07	12/24/07	12/25/07	12/26/07	12/27/07	12/28/07	12/29/07	12/30/07	12/31/07	TOTAL
Gas	MSCF	00.00	0.00	0.00	00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
Press	psig	1.71	1.95	1.59	1.71	1.59	0.85	1.59	1.59	1.59	1.59	1.71	1.59	1.71	1.59	0.85	1.71	1.83	1.71	1.71	1.59	1.71	1.71	1.71	1.83	1.83	1.83	1.83	1.95	1.83	1.95		
Date		11/1/07	11/2/07	11/3/07	11/4/07	11/5/07	11/6/07	11/7/07	11/8/07	11/9/07	11/10/02	11/11/07	11/12/07	11/13/07	11/14/07	11/15/07	11/16/07	11/17/07	11/18/07	11/19/07	11/20/07	11/21/07	11/22/07	11/23/07	11/24/07	11/25/07	11/26/07	11/27/07	11/28/07	11/29/07	11/30/07		TOTAL

Table A-1. (cont.)

Gas	MSCF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.00	0.00	0.00	0.00		0.00	0.00
Press	psig	1.71	NDC	0.85	1.59	1.59	1.71	1.59	1.71	1.59	1.71	1.83	1.83	1.71	1.59	1.71	1.83	1.71	1.59	1.83	1.71	0.73	1.59	1.71	1.59	1.59	1.83	1.83		1.71	1.71 0.85
Date		6/1/08	6/2/08	6/3/08	6/4/08	6/5/08	6/6/08	6/7/08	6/8/08	6/9/08	6/10/08	6/11/08	6/12/08	6/13/08	6/14/08	6/15/08	6/16/08	6/17/08	6/18/08	6/19/08	6/20/08	6/21/08	6/22/08	6/23/08	6/24/08	6/25/08	6/26/08	6/27/08		6/28/08	6/28/08 6/29/08
Gas	MSCF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
Press	psig	14.77	10.74	8.30	5.98	5.01	4.52	3.17	0.73	0.73	1.59	0.61	0.49	0.73	0.85	0.61	0.73	0.49	0.85	1.59	1.59	1.59	0.85	0.85	0.73	1.59	1.59	1.59		0.61	0.61 0.85
Date		5/1/08	5/2/08	5/3/08	5/4/08	5/5/08	5/6/08	5/7/08	5/8/08	5/9/08	5/10/08	5/11/08	5/12/08	5/13/08	5/14/08	5/15/08	5/16/08	5/17/08	5/18/08	5/19/08	5/20/08	5/21/08	5/22/08	5/23/08	5/24/08	5/25/08	5/26/08	5/27/08	100,00	80/87/5	5/29/08 5/29/08
Gas	MSCF	0.00	00.0	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.00	0.00	0.00	0.00	0.00	0.00	0.00	00.00	0.00	00.00	0.00	0.00	0.00	0.00		20.00	0.00
Press	psig	2.44	2.32	2.44	2.44	2.44	2.56	2.44	2.56	2.56	2.32	2.56	1.95	2.32	2.32	2,44	2.44	2.56	2.56	2.44	2.44	2.69	2.81	2.56	2.20	2.32	2.32	2.20	00. 1	7.20	28.20
Date		4/1/08	4/2/08	4/3/08	4/4/08	4/5/08	4/6/08	4/7/08	4/8/08	4/9/08	4/10/08	4/11/08	4/12/08	4/13/08	4/14/08	4/15/08	4/16/08	4/17/08	4/18/08	4/19/08	4/20/08	4/21/08	4/22/08	4/23/08	4/24/08	4/25/08	4/26/08	4/27/08	20/2C/V	00/07/1	4/29/08
Gas	MSCF	00.00	0.00	0.00	00.0	0.00	00.0	0.00	00.00	00.0	00.00	0.00	00.00	00.00	0.00	0.00	0.00	00.00	0.00	0.00	0.00	00.00	0.00	00.00	00.00	0.00	0.00	00.00	000	222	0.00
Press	psig	2.20	2,44	1.95	2.20	2.69	1.95	2.32	1.83	2.44	2.32	2.32	2.44	2.56	2.32	2.32	2.20	2.56	2.20	2.44	2.44	2.56	2.56	1.83	2.20	2.44	2.44	2.81	2.08	i	2.44
Date		3/1/08	3/2/08	3/3/08	3/4/08	3/5/08	3/6/08	3/7/08	3/8/08	3/9/08	3/10/08	3/11/08	3/12/08	3/13/08	3/14/08	3/15/08	3/16/08	3/17/08	3/18/08	3/19/08	3/20/08	3/21/08	3/22/08	3/23/08	3/24/08	3/25/08	3/26/08	3/27/08	3/28/08		3/29/08

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Date	Press	Gas	Date	Press	Gas	Date	Press	Gas	Date	Press	Gas
	psig	MSCF		psig	MSCF		psig	MSCF		psig	MSCF
7/1/08	1.59	00.0	8/1/08	2.08	0.00	9/1/08	1.71	00.0	10/1/08	1.71	0.00
7/2/08	1.71	0.00	8/2/08	1.83	0.00	9/2/08	1.71	00.00	10/2/08	1.71	0.00
7/3/08	0.85	0.00	8/3/08	2.08	0.00	9/3/08	1.59	00.00	10/3/08	1.71	0.00
7/4/08	1.83	0.00	8/4/08	1.83	0.00	9/4/08	1.71	00.00	10/4/08	1.71	0.00
7/5/08	1.71	0.00	8/5/08	2.08	0.00	9/5/08	1.71	0.00	10/5/08	1.83	0.00
7/6/08	1.71	0.00	8/6/08	1.95	0.00	9/6/08	1.71	00.00	10/6/08	1.83	00.00
2/1/08	1.71	0.00	8/7/08	1.95	0.00	9/7/08	1.71	00.00	10/7/08	1.71	0.00
7/8/08	0.85	00.0	8/8/08	1.95	0.00	9/8/08	1.71	0.00	10/8/08	1.71	0.00
80/6/1	1.71	00.00	8/9/08	1.95	0.00	9/6/6	1.59	0.00	10/9/08	1.71	00.0
7/10/08	0.85	0.00	8/10/08	2.08	0.00	9/10/08	1.59	00.00	10/10/08	1.71	00.00
7/11/08	1.71	00.0	8/11/08	2.08	0.00	9/11/08	1.59	0.00	10/11/08	1.71	0.00
7/12/08	1.83	0.00	8/12/08	2.08	0.00	9/12/08	1.59	00.00	10/12/08	1.59	0.00
7/13/08	1.71	00.0	8/13/08	2.08	0.00	9/13/08	1.95	00.00	10/13/08	1.59	00.00
7/14/08	1.83	00.00	8/14/08	1.95	0.00	9/14/08	1.71	0.00	10/14/08	1.59	0.00
7/15/08	1.95	0.00	8/15/08	1.59	0.00	9/15/08	1.59	00.00	10/15/08	1.71	0.00
7/16/08	1.71	00.00	8/16/08	1.59	00.00	9/16/08	1.59	00.00	10/16/08	1.59	00.00
7/17/08	1.83	00.0	8/17/08	1.71	00.00	9/17/08	1.59	00.0	10/17/08	1.59	0.00
7/18/08	1.71	00.00	8/18/08	2.08	0.00	9/18/08	1.59	00.00	10/18/08	1.59	0.00
7/19/08	1.83	0.00	8/19/08	2.20	0.00	9/19/08	1.71	00.00	10/19/08	1.59	0.00
7/20/08	1.71	0.00	8/20/08	1.95	0.00	9/20/08	1.59	00.00	10/20/08	1.71	0.00
7/21/08	1.95	0.00	8/21/08	2.20	0.00	9/21/08	1.59	00.00	10/21/08	1.71	0.00
7/22/08	1.95	0.00	8/22/08	1.95	0.00	9/22/08	1.71	00.00	10/22/08	1.83	0.00
7/23/08	1.95	0.00	8/23/08	1.95	0.00	9/23/08	1.71	00.00	10/23/08	0.85	00.00
7/24/08	1.83	0.00	8/24/08	1.95	0.00	9/24/08	1.59	00.00	10/24/08	1.71	0.00
7/25/08	1.83	0.00	8/25/08	1.83	0.00	9/25/08	1.71	0.00	10/25/08	1.95	00.00
7/26/08	1.71	0.00	8/26/08	1.83	0.00	9/26/08	1.59	00.00	10/26/08	1.71	0.00
7/27/08	0.85	0.00	8/27/08	1.95	0.00	9/27/08	1.59	00.00	10/27/08	0.85	0.00
7/28/08	1.95	0.00	8/28/08	2.08	0.00	9/28/08	1.71	0.00	10/28/08	1.59	0.00
7/29/08	1.95	0.00	8/53/08	1.59	0.00	9/29/08	1.71	00.00	10/29/08	1.59	0.00
7/30/08	1.83	0.00	8/30/08	1.59	0.00	9/30/08	1.71	0.00	10/30/08	1.59	0.00
7/31/08	1.95	0.00	8/31/08	1.71	0.00				10/31/08	1.59	0.00
TOTAL		0.00	TOTAL		0.00	TOTAL		0.00	TOTAL		0.00

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Gas	MSCF	0.00	0.00	0.00	0.00	0.00	0.00	00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00
Press	psig	2.08	1.95	1.95	2.08	2.08	2.08	2.20	2.20	2.08	2.20	2.08	2.08	2.08	2.20	2.08	1.95	2.08	1.95	1.95	1.95	2.08	1.95	2.08	2.08	2.08	2.20	2.20	2.08				
Date		2/1/09	2/2/09	2/3/09	2/4/09	2/5/09	2/6/09	2/7/09	2/8/09	2/9/09	2/10/09	2/11/09	2/12/09	2/13/09	2/14/09	2/15/09	2/16/09	2/17/09	2/18/09	2/19/09	2/20/09	2/21/09	2/22/09	2/23/09	2/24/09	2/25/09	2/26/09	2/27/09	2/28/09				TOTAL
Gas	MSCF	0.00	0.00	0.00	0.00	0.00	0.00	00.00	0.00	0.00	0.00	00.00	0.00	0.00	0.00	0.00	0.00	00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0,00
Press	psig	2.08	2.08	2.08	2.20	1.95	1.95	1.95	2.08	2.08	1.95	1.95	1.95	1.83	2.08	1.95	1.95	1.95	1.95	1.95	1.95	1.83	1.95	1.95	1.95	2.08	2.08	2.08	2.08	2.20	1.95	2.08	
Date		1/1/09	1/2/09	1/3/09	1/4/09	1/5/09	1/6/09	1/7/09	1/8/09	1/9/09	1/10/09	1/11/09	1/12/09	1/13/09	1/14/09	1/15/09	1/16/09	1/17/09	1/18/09	1/19/09	1/20/09	1/21/09	1/22/09	1/23/09	1/24/09	1/25/09	1/26/09	1/27/09	1/28/09	1/29/09	1/30/09	1/31/09	TOTAL
Gas	MSCF	00.0	00.00	0.00	0.00	0.00	00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0,00	0.00	0.00	00.00	0.00	0.00	0.00	00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Press	psig	1.71	1.83	1.83	1.71	1.71	1.83	1.83	1.83	2.08	1.83	1.95	1.83	1.95	2.08	1.95	1.95	1.83	1.83	1.83	2.20	1.95	1.95	1.95	1.95	1.95	2.08	1.95	1.95	1.83	1.95	1.95	
Date		12/1/08	12/2/08	12/3/08	12/4/08	12/5/08	12/6/08	12/7/08	12/8/08	12/9/08	12/10/08	12/11/08	12/12/08	12/13/08	12/14/08	12/15/08	12/16/08	12/17/08	12/18/08	12/19/08	12/20/08	12/21/08	12/22/08	12/23/08	12/24/08	12/25/08	12/26/08	12/27/08	12/28/08	12/29/08	12/30/08	12/31/08	TOTAL
Gas	MSCF	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	00.00	00.00	0.00	0.00	00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.00	0.00	0.00	0.00	00.00	0.00	0.00	0.00	0.00		0.00
Press	psig	0.85	1.59	1.71	1.83	1.83	1.71	1.83	1.71	1.83	1.71	1.71	1.71	1.83	1.83	1.59	1.71	1.83	1.71	1.71	1.59	1.59	1.71	1.59	1.71	1.71	1.83	1.83	1.71	1.83	1.83		
Date		11/1/08	11/2/08	11/3/08	11/4/08	11/5/08	11/6/08	11/7/08	11/8/08	11/9/08	11/10/08	11/11/08	11/12/08	11/13/08	11/14/08	11/15/08	11/16/08	11/17/08	11/18/08	11/19/08	11/20/08	11/21/08	11/22/08	11/23/08	11/24/08	11/25/08	11/26/08	11/27/08	11/28/08	11/29/08	11/30/08		TOTAL

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6	MSCF	o.	0	0	0	O	Ö	Ö	Ö	ö	ö	o.	Ö	ö	Ö	Ö	Ö	Ö	Ö	Ö	ö	Ö	Ó	Ö	Ö	Ö	Ö	Ö	o	Ó	Ö		
Press	psig	0.85	0.85	0.73	0.73	0.73	1.59	1.59	0.85	1.59	0.85	1.59	0.73	1.59	1.59	1.59	1.59	1.59	0.85	0.73	0.85	1.59	1.59	0.85	0.85	0.85	NDC	1.71	0.85	0.73	0.85		
Date		6/1/09	6/2/09	6/3/09	6/4/09	6/2/9	60/9/9	60/1/9	6/8/9	60/6/9	6/10/09	6/11/09	6/12/09	6/13/09	6/14/09	6/15/09	6/16/09	6/11/09	6/18/09	6/19/09	6/20/09	6/21/09	6/22/09	6/23/09	6/24/09	6/25/09	6/26/09	6/27/09	6/28/09	6/23/09	6/30/06		TOTAL
Gas	MSCF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	000
Press	psig	1.95	1.71	1.71	1.59	1.71	1.71	1.59	1.71	1.59	0.73	0.73	0.61	1.59	0.85	0.85	0.85	0.61	0.85	0.73	0.73	0.85	0.85	0.61	0.73	0.73	0.85	0.73	0.85	0.85	0.85	0.73	
Date		5/1/09	5/2/09	5/3/09	5/4/09	5/5/09	5/6/09	5/7/09	5/8/09	5/9/09	5/10/09	5/11/09	5/12/09	5/13/09	5/14/09	5/15/09	5/16/09	5/17/09	5/18/09	5/19/09	5/20/09	5/21/09	5/22/09	5/23/09	5/24/09	5/25/09	5/26/09	5/27/09	5/28/09	5/29/09	5/30/09	5/31/09	TOTAL
Gas	MSCF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	000
Press	psig	2.44	2.32	2.44	2.44	2.44	2.56	2.44	2.56	2.56	2.32	2.56	1.95	2.32	2.32	2.44	2.44	2.56	2.56	2.44	2.44	2.69	2.81	2.56	2.20	2.32	2.32	2.20	2.20	28.20	20.39		
Date		4/1/09	4/2/09	4/3/09	4/4/09	4/5/09	4/6/09	4/7/09	4/8/09	4/9/09	4/10/09	4/11/09	4/12/09	4/13/09	4/14/09	4/15/09	4/16/09	4/17/09	4/18/09	4/19/09	4/20/09	4/21/09	4/22/09	4/23/09	4/24/09	4/25/09	4/26/09	4/27/09	4/28/09	4/29/09	4/30/09		TOTAL
Gas	MSCF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	000
Press	psig	1.95	2.08	2.08	2.20	2.08	2.08	2.08	2.08	2.08	2.08	2.08	1.95	1.95	1.95	2.08	2.08	2.08	2.08	2.08	2.08	1.95	2.08	2.20	2.20	2.20	2.08	2.08	2.20	2.08	2.20	2.20	
Date		3/1/09	3/2/09	3/3/09	3/4/09	3/5/09	3/6/09	3/7/09	3/8/09	3/9/09	3/10/09	3/11/09	3/12/09	3/13/09	3/14/09	3/15/09	3/16/09	3/17/09	3/18/09	3/19/09	3/20/09	3/21/09	3/22/09	3/23/09	3/24/09	3/25/09	3/26/09	3/27/09	3/28/09	3/29/09	3/30/09	3/31/09	TOTAL

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Date	Press	Gas	Date	Press	Gas	Date	Press	Gas	Date	Press	Gas
	psig	MSCF		psig	MSCF		psig	MSCF		psig	MSCF
7/1/09	0.85	0.00	8/1/09	0.85	0.00	9/1/6	1.59	0.00	10/1/01	1.71	00.0
7/2/09	1.59	0.00	8/2/09	0.85	0.00	9/2/6	0.85	0.00	10/2/09	1.59	0.00
7/3/09	0.85	0.00	8/3/09	1.59	0.00	9/3/09	1.59	0.00	10/3/09	1.59	00.00
7/4/09	0.73	0.00	8/4/09	0.85	0.00	9/4/09	0.85	0.00	10/4/09	1.83	00.00
7/5/09	0.73	0.00	8/5/09	1.59	0.00	9/2/6	1.71	0.00	10/5/09	1.59	0.00
7/6/09	0.73	0.00	8/6/09	1.59	0.00	60/9/6	0.85	0.00	10/6/09	1.71	00.0
60/1/1	0.73	0.00	8/7/09	0.85	0.00	60/1/6	1.59	0.00	10/7/09	1.59	0.00
7/8/09	1.59	0.00	8/8/09	1.59	0.00	9/8/6	1.59	0.00	10/8/09	0.85	00.0
60/6/2	1.71	0.00	60/6/8	1.59	0.00	60/6/6	0.85	0.00	10/9/09	1.59	00.00
7/10/09	1.59	0.00	8/10/09	1.59	0.00	9/10/09	0.85	0.00	10/10/09	1.71	00.0
7/11/09	1.59	0.00	8/11/09	1.59	0.00	9/11/09	1.59	0.00	10/11/09	0.85	0.00
7/12/09	1.59	0.00	8/12/09	1.59	0.00	9/12/09	0.85	0.00	10/12/09	0.85	0.00
7/13/09	0.85	0.00	8/13/09	0.85	0.00	9/13/09	0.85	0.00	10/13/09	0.85	00.0
7/14/09	1.59	0.00	8/14/09	1.59	0.00	9/14/09	0.85	0.00	10/14/09	1.59	0.00
7/15/09	1.59	0.00	8/15/09	1.59	0.00	9/15/09	1.59	0.00	10/15/09	1.59	0.00
7/16/09	0.85	0.00	8/16/09	1.59	0.00	9/16/09	0.85	0.00	10/16/09	1.59	0.00
7/17/09	1.59	0.00	8/17/09	1.59	0.00	9/11/0	1.83	0.00	10/17/09	1.59	0.00
7/18/09	0.73	0.00	8/18/09	1.59	0.00	9/18/09	0.85	0.00	10/18/09	1.59	0.00
60/61/2	0.85	0.00	8/19/09	1.59	0.00	9/19/09	1.71	0.00	10/19/09	1.59	0.00
7/20/09	1.59	0.00	8/20/09	1.59	00.00	9/20/03	0.85	0.00	10/20/09	1.59	0.00
7/21/09	1.71	0.00	8/21/09	1.59	0.00	9/21/09	1.59	0.00	10/21/09	0.85	00.0
7/22/09	0.73	0.00	8/22/09	1.59	0.00	9/22/09	0.85	0.00	10/22/09	0.85	0.00
7/23/09	0.85	0.00	8/23/09	1.59	0.00	9/23/09	0.85	0.00	10/23/09	1.59	0.00
7/24/09	0.85	0.00	8/24/09	0.85	0.00	9/24/09	0.85	0.00	10/24/09	1.71	0.00
7/25/09	1.59	0.00	8/25/09	1.59	0.00	9/25/09	0.85	0.00	10/25/09	1.59	0.00
7/26/09	1.71	0.00	8/26/09	1.59	0.00	9/26/09	1.59	0.00	10/26/09	0.85	0.00
7/27/09	0.85	0.00	8/27/09	1.59	0.00	60/22/6	1.71	0.00	10/27/09	1.59	0.00
7/28/09	1.59	0.00	8/28/09	0.85	0.00	9/28/09	1.83	0.00	10/28/09	1.71	00.00
7/29/09	0.85	0.00	8/29/09	1.71	0.00	9/29/09	1.59	0.00	10/29/09	1.71	00.0
7/30/09	0.85	0.00	8/30/09	1.59	0.00	60/0E/6	1.59	0.00	10/30/09	1.59	0.00
7/31/09	0.73	0.00	8/31/09	1.59	0.00				10/31/09	0.85	0.00
TOTAL		0.00	TOTAL		0.00	TOTAL		0.00	TOTAL		0.00

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Gas	MSCF	00.0	00.00	0.00	0.00	00.00	00.00	00.00	0.00	00'0	00.00	00.00	0.00	00.00	00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.00	0.00	0.00				0.00
Press	psig	2.08	1.95	1.95	1.95	1.95	1.95	2.08	2.08	1.83	1.95	1.95	1.95	1.95	1.95	1.95	1.95	2.08	1.83	2.08	2.08	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95				
Date		2/1/10	2/2/10	2/3/10	2/4/10	2/5/10	2/6/10	2/7/10	2/8/10	2/9/10	2/10/10	2/11/10	2/12/10	2/13/10	2/14/10	2/15/10	2/16/10	2/17/10	2/18/10	2/19/10	2/20/10	2/21/10	2/22/10	2/23/10	2/24/10	2/25/10	2/26/10	2/27/10	2/28/10				TOTAL
Gas	MSCF	00.0	0.00	0.00	0.00	00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0	00.0	0.00	0,00	0.00	0.00	0.00	00.00	0.00	0.00	0.00	0.00	0.00	0.00
Press	psig	1.83	1.83	1.83	1.71	1.83	1.83	1.83	1.83	1.83	1.95	1.95	1.95	2.08	1.95	1.83	1.95	2.08	2.08	1.95	2.08	2.08	1.95	2.20	1.95	1.95	1.95	2.08	1.95	1.95	1.95	2.08	
Date		1/1/10	1/2/10	1/3/10	1/4/10	1/5/10	1/6/10	1/7/10	1/8/10	1/9/10	1/10/10	1/11/10	1/12/10	1/13/10	1/14/10	1/15/10	1/16/10	1/17/10	1/18/10	1/19/10	1/20/10	1/21/10	1/22/10	1/23/10	1/24/10	1/25/10	1/26/10	1/27/10	1/28/10	1/29/10	1/30/10	1/31/10	TOTAL
Gas	MSCF	0.00	0.00	0.00	0.00	0.00	00.00	0.00	00.00	0.00	00.0	00.0	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.00	0.00	00.00	0.00	00.00	0.00	0.00	0.00
Press	psig	1.59	1.83	0.85	1.59	1.71	1.71	1.71	1.83	1.71	1.71	1.83	1.83	1.71	1.83	1.71	1.59	1.59	1.83	1.71	1.83	1.71	1.83	1.83	1.83	1.83	1.83	1.95	1.71	1.83	1.83	1.83	
Date		12/1/09	12/2/09	12/3/09	12/4/09	12/5/09	12/6/09	12/7/09	12/8/09	12/9/09	12/10/09	12/11/09	12/12/09	12/13/09	12/14/09	12/15/09	12/16/09	12/17/09	12/18/09	12/19/09	12/20/09	12/21/09	12/22/09	12/23/09	12/24/09	12/25/09	12/26/09	12/27/09	12/28/09	12/29/09	12/30/09	12/31/09	TOTAL
Gas	MSCF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
Press	psig					0.85	1.59	1.59	1.59	1.59	0.85	0.85	1.59	1.59	1.71	1.59	0.85	1.59	1.71	1.71	1.59	1.59	1.59	1.71	1.59	1,59	1.59	1.71	1.71	1.83	1.59		
Date		11/1/09	11/2/09	11/3/09	11/4/09	11/5/09	11/6/09	11/7/09	11/8/09	11/9/09	11/10/09	11/11/09	11/12/09	11/13/09	11/14/09	11/15/09	11/16/09	11/17/09	11/18/09	11/19/09	11/20/09	11/21/09	11/22/09	11/23/09	11/24/09	11/25/09	11/26/09	11/27/09	11/28/09	11/29/09	11/30/09		TOTAL

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Analysis of Injection Fluid for Metropolis Disposal #1

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"Let your interest in measurement be our concern"	
PRECISION SERVICE, INC.	
P.O. Box 3659 * Casper, Wyoming 82602 * (307) 237-9327	Run H
P.O. Box 2604 * Roswell, New Mexico 88201 * (505) 622-9874	Date Run

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Analysis Results Summary

Run No. 930226-5 Data Run 02/26/93 Data Samplad 02/25/93

GPANGL, L50

Pressure Base:

Real BTU Dry:

Real BTU Wet:

BTU Dry:

BTU Wet:

Z Factor:

. # Value:

Avg Mol Weight:

28 Lb Froduct:

Methane+ GPM:

Propane+ GPM:

Pentane+ GPM:

Butane+ GPH:

Ethane+ GPM:

Ave CoFt/Gal:

Real Calc. Specific Gravity:

Field Specific Gravity:

Standard Pressure:

Field:	DAGGER DRAN					•	
Well Name:	ACID GAS	-	Producer:	YATES	PETROLEUM	CORPORATION	
Sta. Number:			County:	rddi		State:	M
Purpose:	WEBELLI		Sampled By:	KARL	BARNY		
Sampling Temp:	DEG	7	Atmos Temp:	57	DRG 7		
Volume/day:			Formation:				
Pressure on Cylinder:	11 PSI	Ie	Line Pressure:	24.2	PS1A		

GAS COMPONENT ANALYSIS

38

Mol X GPM

Analysis for YATES PETROLIUM CORPORATION

			/
Carbon Dioxide	CD2	38.311 ~	l
Nitrogen	N 2	0.019	/
Hydrogen Sulfide	H25	60.810 -	r
Nethane	CI	0.340	0.058
Iso-Butane	ICÍ	0.009	0,003
Nor-Butane	NC4	0.049	0.015
Iso-Pentane	1C5	0.045	0.018
Nor-Pentane	IC5	0.098	0.035
Hexanes Plus	68+	0.319	0.137

TOTAL 100.000 0.265

REMARKS:

H2S ON LOCATION: 60.810 X = 608,100 PPM

Fri Feb 26 16:17:37 1993

Approved by: JEFF DECL

14.730

418

408

1.924

1.314

14.698

0.9926

1.3106

38.0743

67.9661

0.3077

0.265

0.207

0.207

0.207

0.189

415

No. に、地震の Analysis of Devonian Formation Water From North Indian Basin Well No. 1 Sec. 6 N. S. S. A VALE AN SAL

Indian Hills State Comm Well No. 7 Printed Injection Well Attachment to C - 108 (Part VII)

Proposed Operations - continued

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5. If injection is for disposal purpose into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.)

Marathon Oil Company ran a DST test on North Indian Basin Well No. 1 (Section 9, T-21-S, R-23-E, Eddy County New Mexico) in 1963. The DST tested the interval 10,009 ft to 10,100 ft. Based on the DST, the following analysis was reported:

Specific Gravity	1.109	
рН	6.8	
Resistivity	.285	@ 94F
Chlorides (Cl)	11,000	
Sulfates (SO4)	1500	
Alkalinity (HCO3)	610	
Calcium (Ca)	1080	
Magnesium (Mg)	775	
Iron (Fe)	20	
Sodium (Na)	5359	
Sulfides (H2S)	negl.	

Analyses of Freshwater From Wells (POD# RA 05244 and RA 05233) Within a One-Mile Radius of Metropolis Disposal #1

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1. See ----

ATTACHMENT C Page 1

WATER ANALYSIS REPORT

Petrolite Corporation 422 West Main Street Artesia, NM 88210-2041

TRETOLITE DIVISION

(505) 746-3588 Fax (505) 746-3580

> Reply to: P.O. Box 1140 Artesia, NM 88211-7531

					8
Company	YATES PETROLEU	м	Date	: 02/23/96)
Address	E : ARTESIA, NM		Date Sampled	: 02/22/96	i
Lease	: QUEEN		Analysis No.	: 0226	
Well	: WATER WELL				
Sample	Pt. : UNKNOWN				
	ANALYSIS		mg/L		* meg/L
				•	
1.	рн .	7.3			
2.	H2S	OPPM,			
з.	Specific Gravity	1.005			
4	Total Dissolved Solids		1039.3 (•
5.	Suspended Solids		NR		
6.	Dissolved Oxygen		NR		
7.	Dissolved CO2		NR \		
8.	Oil In Water		NR		
9.	Phenolphthalein Alkalin	nity (CaCO3)			
10.	Methyl Orange Alkalinit				
	Bicarbonate	нсоз	195.0	HCO3	3.2
12.	Chloride	Cl	149.0	Cl	4.2
13.	Sulfate	S04	400.0	SO4	8.3
14.	Calcium	Ca	146.0	Ca	7.3
15.	Magnesium	Mg	51.i	Mg	4.2
16.	Sodium (calculated)	Na	97.5	Na	4-2
17.	Iron	Fe	0.8	· ·	
18.	Barium	Ba	0.0		
19.	Strontium	Sr	0.0		
20.	Total Hardness (CaCO3)		575.0		
)		

PROBABLE MINERAL COMPOSITION

		:	
<pre>*milli equivalents per Liter ++</pre>	Compound Equ	iv wt X meg/L	= mg/L
7 *Ca < *HCO3 3	· · ·	1.0 3.2 [°] 8.1 4.1	259 278
4 *Mg> *SO4 8	CaC12 5	5.5	
4 *Na> *C1 4	MgSO4 6	0.2 4.2 7.6	253
Saturation Values Dist. Water 20 C	NaHCO3 8-	4.0	
CaCO3 13 mg/L CaSO4 * 2H2O 2090 mg/L		1.0 0.0 8.4 4.2	З 246
BaSO4 2.4 mg/L			

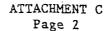
REMARKS:

ANDY MILLER ·

Petrolite Oilfield Chemicals Group

Respectfully submitted,

SHAWNA MATTHEWS





SCALE TENDENCY REPORT

Company	: YATES PETROLEUM	Date	:	02/23/96
Address	: ARTESIA, NM	Date Sampled	:	02/22/96
Lease	: QUEEN	Analysis No.	:	0226
Well	: WATER WELL	Analyst	:	SHAWNA MATTHEWS
Sample Pt.	: UNKNOWN		•	

STABILITY INDEX CALCULATIONS (Stiff-Davis Method) CaCO3 Scaling Tendency

s.I.	=	0.1	at	60	deg.	F	or	16	deg.	С
s.I.	=	0.2	at	80	deg.	F	or	27	deg.	С
s.I.	=	0.2	at	100	deg.	F	or	38	deg.	С
s.I.	=	0.3	at	120	deg.	F	or	49	deg.	С
s.I.	s	0.4	at	140	deg.	F	or	60	deg.	С

CALCIUM SULFATE SCALING TENDENCY CALCULATIONS (Skillman-McDonald-Stiff Method) Calcium Sulfate

S	=	1212	at	60	deg.	F	or	16	deg (2
S		1227	at	80	deg.	F	or	27	deg (2
S	=	1216	at	100	deg.	F	or	38	deg (2
S	=	1207	at	120	deg.	F	or	49	deg (2
S	=	1198	at	140	deg.	F	or	60	deg (2

Petrolite Oilfield Chemicals Group

Respectfully submitted, SHAWNA MATTHEWS



ATTACHMENT C Page 3

Petrolite Corporation 422 West Main Street Artesia, NM 88210-2041

TRETOLITE DIVISION

(505) 746-3588 Fax (505) 746-3580

WATER ANALYSIS REPORT

Reply to: P.O. Box 1140

Artesia, NM 88211-7531

	ANALYSIS		mg/L		* meg/L
1.	PH	7.5		,	
2.	H2S	O PPM		(
3.	Specific Gravity	1.000		1	
4.	Total Dissolved Soli	ds	1065.3	(
5.	Suspended Solids		NR		
6.	Dissolved Oxygen		NR	1	
7.	Dissolved CO2		NR		
8.	Oil In Water		NR		
9.	Phenolphthalein Alka	linity (CaCO3	>		• :
10.	Methyl Orange Alkali	nity (CaCO3)			
11.	Bicarbonate	HCO	3 134.0	HCO3	2.2
12.	Chloride	Cl	85.0	Cl	2.4
13.	Sulfate	S04	550.0	SO4	11.5
14.	Calcium	Ca	134.0	Ca	6.7
15.	Magnesium	Mg	59.6	Mg	4.9
16.	Sodium (calculated)	Na	102.5	Na	4.5
17.	Iron	Fe	0.3		
18.	Barium	Ba	0.0		
19.	Strontium	Sr	0.0		
20.	Total Hardness (CaCO)	3 }	580.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Lite		Compound	Equiv wt)	(meq/L	≈ mg/L
++ 7 *Ca < *HCO3	++	Ca(HCO3)2	81.0		170
{}		CaSO4	68.1	2.2	. 178
5 *Mg> *SO4	11	CaCl2	55.5	4.5	306
/				i.	
4; *Na> *Cl	1 21	Mg(HCO3)2	73.2		
	2	MgSO4	60.2	4.9	295
	++	MgCl2	47.6		
Saturation Values Dist. Wat	er 20 C	NaHCO3	84.0		
CaCO3 13 m	g/L	Na2SO4	71.0	2.1	146
CaSO4 * 2H2O 2090 m	g/L	NaCl	58.4	2.4	140
BaSO4 2.4 m	g/L				

REMARKS:

----- ANDY MILLER

Petrolite Oilfield Chemicals Group

Respectfully submitted, SHAWNA MATTHEWS



ATTACHMENT C Page 4

SCALE TENDENCY REPORT

Date : 02/15/96 : YATES PETROLEUM Company : ARTESIA, NMN Date Sampled : 02/14/96 Address Analysis No. : 0223 : NORTH WINDMILL Lease : SHAWNA MATTHEWS Analyst Well : Sample Pt. :

STABILITY INDEX CALCULATIONS (Stiff-Davis Method) CaCO3 Scaling Tendency

S.I.	2	0.1	at	60	deg.	F	or	16	deg.	С
5.I.	2	0.2	at	80	deg.	F	or	27	deg.	С
s.I.	=	0.2	at	100	deg.	F	or	38	deg.	С
s.I.	=	0.3	at	120	deg.	F	or	49	deg.	С
s.I.	3	0.4	at	140	deg.	F	or	60	deg.	С

CALCIUM SULFATE SCALING TENDENCY CALCULATIONS (Skillman-McDonald-Stiff Method) Calcium Sulfate

S	=	1121	at	.60	deg.	F	or	16	deg	С
S	=	1137	at	80	deg.	F	or	27	deg	С
S	⇒	1128	at	100	deg.	F	or.	38	deg	С
S	2	1119	at	120	deg.	F	or	49	deg	С
S	=	1110	at	140	deg.	F	or	60	deg	С

Petrolite Oilfield Chemicals Group

Respectfully submitted, SHAWNA MATTHEWS

APPENDIX B

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Map and Table of All Wells within Two Miles of Metropolis Disposal #1; Map and Table of All Wells within One Mile of Metropolis Disposal #1 Table B-1. All Wells Within Two Miles of Metropolis Disposal #1 (see Figure B-1 for Locations)

											- 1		
API Num	Operator	Distance (miles)	Plug Date	Spud Date	Rng	Tsh	Sec	Well Name	Type	Status	PBTD (ft)	Depth (ft)	Zone
3001531905	Agave Energy Co	0.00	N/A	8/1/2001	25E	18S	36	Metropolis Disposal #1	AGI	Active		10500	Devonian-Montoya
3001500107	Gulf Oil Corp	0.20	4/10/1964	12/31/1958	25E	18S	36	Eddy St Ac 001	lio	Plugged	9218	9283	Morrow
3001510561	Monsanto Oil Co	0.33	6/9/1965	5/30/1965	25E	18S	36	Kincaid 001	Oil	Plugged		9330	Morrow
3001523701	Yates Petroleum Corp	0.44	N/A	2/7/2000	25E	18S	35	Rio Penasco JX Com 002	Gas	Active	9243	9300	Atoka-Morrow
3001500108	Gulf Oil Corp	0.59	7/9/1959	3/9/1959	25E	18S	36	Eddy St AC 002	0il	Plugged		1802	San Andres-Yeso-Abo
3001510828	Yates Petroleum Corp	0.67	4/30/2007	5/25/1966	25E	18S	36	State AU 001	Oil	Plugged	1760	1834	San Andres-Yeso-Abo
3001523292	Amoco Production Co	0.72	4/7/1993	4/25/1980	25E	19S	1	Alley 001	Oil	Plugged	9316	9362	Morrow
3001521411	Yates Petroleum Corp	0.77	9/23/2005	11/26/1974	25E	18S	25	Wilkinson AZ 003	lio	Plugged	2341	2450	San Andres-Yeso
3001531906	Yates Petroleum Corp	0.79	N/A	9/9/2002	25E	185	36	Suburb AZS State 001	Gas	Active	9300	9340	Morrow
3001522286	Yates Petroleum Corp	0.82	N/A	9/6/1977	25E	185	25	Gerard AW 004	lio	Active	1540	1550	San Andres-Yeso
3001520137	Yates Petroleum Corp	0.88	5/22/2006	8/28/1994	25E	18S	25	Wilkinson AZ 002	lio	Plugged	2407	2450	San Andres-Yeso
3001520007	Yates Petroleum Corp	0.88	10/17/2005	5/19/1967	25E	18S	25	Wilkinson AZ 001	lio	Plugged	3400	5120	San Andres-Yeso
3001520134	Yates Petroleum Corp	0.88	10/2/1992	4/16/1968	25E	18 S	36	Lowe BK St 001	lio	Plugged	1558	1590	San Andres-Yeso
3001500106	Resler & Sheldon	0.91	12/1/1957	5/24/1957	25E	18S	26	Wilkinson 001	lio	Plugged		1401	San Andres-Yeso
3001523025	Yates Petroleum Corp	0.92	9/4/1996	10/12/1979	26E	18S	31	Metcalf LT Com 001	Oil	Plugged	3865	9370	San Andres-Yeso
3001521430	Yates Petroleum Corp	0.92	5/25/2006	12/4/1974	25E	18S	25	Nix Curtis BH 004	lio	Plugged		1495	San Andres-Yeso
3001522278	Yates Petroleum Corp	0.94	N/A	8/30/1977	25E	185	26	Wilkinson AZ 004	lio	Active	2422	2500	San Andres-Yeso
3001522328	Yates Petroleum Corp	0.94	9/22/2010	10/30/1977	25E	18S	35	Gushwa DR 002	lio	Plugged		2400	San Andres-Yeso
3001510800	Yates Petroleum Corp	0.95	11/7/2005	6/2/1966	25E	18S	25	Gerard AW 001	oil	Plugged		2648	San Andres-Yeso
3001522652	Yates Petroleum Corp	0.96	N/A	8/16/1978	25E	185	35	Rio Penasco JX 001	Gas	Active	9190	9265	Marrow
3001531719	Yates Petroleum Corp	0.98	N/A	5/24/2001	25E	18S	25	Yates AS Fee Com 006	Gas	Active	9151	9172	Morrow
3001522311	Yates Petroleum Corp	0.98	N/A	10/9/1977	25E	18S	26	Babcock IR 001	lio	Active		2500	San Andres-Yeso
3001523426	Yates Petroleum Corp	0.98	N/A	9/23/1980	25E	18S	35	Gushwa DR 003	Gas	Active	9080	9160	Morrow
3001524163	Anadarko Petrol. Corp	0.99	2/8/1994	5/27/1982	25E	19S	1	Anderson 001	Gas	Plugged	9150	9354	Morrow
3001521406	Yates Petroleum Corp	0.99	N/A	10/28/1974	25E	18S	25	Yates AS Fee 003	Oil	Active	1484	1620	San Andres-Yeso
3001521422	Yates Petroleum Corp	1.02	N/A	11/18/1974	25E	18S	25	Yates AS Fee 004	lio	Active	2406	2475	San Andres-Yeso
3001525996	Terra Resources Inc	1.02	11/26/1988	10/28/1988	26E	185	31	Sleepy 001	0il	Plugged		9350	Morrow
3001521410	Yates Petroleum Corp	1.03	N/A	11/13/1974	25E	185	25	Gerard AW 003	lio	Active	1492	1530	San Andres-Yeso
3001520113	Yates Petroleum Corp	1.07	N/A	12/27/1967	25E	18S	25	Nix Curtis BH 002	Oil	Active	1671	1705	San Andres-Yeso
3001521204	Yates Petroleum Corp	1.11	11/30/2006	10/3/1974	25E	185	25	Nix Curtis BH 003	Oil	Plugged		1520	San Andres-Yeso
3001520016	Yates Petroleum Corp	1.12	5/23/2006	3/3/1967	25E	185	25	Yates AS Fee 002	lio	Plugged	4570	5917	San Andres-Yeso
3001510740	Yates Petroleum Corp	1.13	N/A	2/24/1966	25E	18S	25	Yates AS Fee 001	Oil	Active		1859	San Andres-Yeso
3001523353	Yates Petroleum Corp	1.13	N/A	7/8/1998	25E	19S	2	Rio Penasco KD Com 002	Gas	Active	9298	9300	Wolfcamp

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API Num	Operator	Distance (miles)	Plug Date	Spud Date	Rng	Tsh	Sec	Well Name	Type	Status	PBTD (ft)	Depth (ft)	Zone
3001523511	Yates Petroleum Corp	1.15	6/8/1995	11/10/1980	26E	18S	31	Stromberg OM 001	Oil	Plugged	3085	3100	San Andres-Yeso
3001522136	Yates Petroleum Corp	1.16	7/1977	6/18/1977	25E	185	26	Yates AS Fee 005	Oil	Plugged		822	San Andres-Yeso
3001522272	Yates Petroleum Corp	1.16	5/3/2007	8/24/1977	25E	185	26	Yates AS Fee 005Y	lio	Plugged	1533	1600	San Andres-Yeso
3001510886	Yates Petroleum Corp	1.18	5/9/2002	11/12/1966	25E	185	25	Gerard AW 002	lio	Plugged	1500	2630	San Andres-Yeso
3001532450	Yates Petroleum Corp	1.20	N/A	11/22/2002	26E	185	31	Bones Bad 001	Gas	Active	8970	9350	Atoka-Morrow
3001521002	Yates Petroleum Corp	1.22	N/A	10/29/1973	25E	18 S	35	Gushwa DR 001	NO	Active	2886	9220	San Andres-Yeso
3001524704	Yates Petroleum Corp	1.22	6/15/2005	12/7/1983	25E	185	26	BonnieE YM 001	lio	Plugged	3107	3250	San Andres-Yeso
3001520140	Yates Petroleum Corp	1.23	5/11/2007	5/6/1968	26E	185	30	Nickson BM 001	lio	Plugged	3410	3418	San Andres-Yeso
3001510890	Yates Petroleum Corp	1.24	N/A	11/25/1966	25E	185	25	Federal AY 001	Oil	Active		2628	San Andres-Yeso
3001522293	Yates Petroleum Corp	1.25	5/7/2007	9/14/1977	26E	185	30	Nickson BM 004	oil	Plugged	1545	1550	San Andres-Yeso
3001526270	Nearburg Producing Co	1.25	2/9/1990	1/15/1990	26E	19S	9	Howe 6 L 001	lio	Plugged		9335	Morrow
3001505938	Yates Petroleum Corp	1.25	11/1976	1/13/1961	25E	185	25	Yates Fed 001	Oil	Plugged		2323	San Andres-Yeso
3001522116	Yates Petroleum Corp	1.27	11/25/2007	4/21/1977	25E	18 S	25	Yates Federal 003	oil	Plugged	1707	1750	San Andres-Yeso
3001521434	Yates Petroleum Corp	1.27	N/A	12/9/1974	25E	185	25	Hornbaker BA 003	(ĩO	Active	2422	2500	San Andres-Yeso
3001520070	Yates Petroleum Corp	1.28	N/A	6/29/1967	25E	185	25	Nix Curtis BH 001	lio	Active	3353	3400	San Andres-Yeso
3001521065	Yates Petroleum Corp	1.28	11/19/2007	11/4/1974	25E	185	26	Yates Federal 002	liO	Plugged	2460	2552	San Andres-Yeso
3001520015	Yates Petroleum Corp	1.37	2/20/1992	2/10/1967	25E	185	25	Hornbaker BA 001	lio	Plugged	4500	5320	San Andres-Yeso
3001520400	Yates Petroleum Corp	1.40	N/A	3/24/1971	25E	18S	25	Federal AY 002	lio	Active	1597	0906	San Andres-Yeso
3001520592	Yates Petroleum Corp	1.42	N/A	3/15/1972	25E	18S	25	Hornbaker BA 002	lio	Active	1628	9150	San Andres-Yeso
3001521393	Yates Petroleum Corp	1.42	7/6/2006	10/16/1974	26E	18S	30	Nickson BM 003	io	Plugged		1550	San Andres-Yeso
3001522648	Yates Petroleum Corp	1.44	4/7/1979	8/13/1978	26E	19 S	9	Majorie BGR 001	lio	Plugged		9310	Atoka-Morrow
3001500110	Yates Petroleum Corp	1.44	1/1976	5/3/1960	25E	195	2	CA Land & Cattle Co 001	lio	Plugged	2768	5818	San Andres-Yeso
3001522135	Yates Petroleum Corp	1.50	N/A	4/29/1977	25E	185	25	Stark BG 002	lio	Active	1716	1723	San Andres-Yeso
3001523227	Yates Petroleum Corp	1.51	N/A	4/6/1980	25E	195	2	Rio Penasco KD Com 001	Gas	Active	9191	9260	Morrow
3001520056	Yates Petroleum Corp	1.56	11/21/2003	6/6/1967	25E	18 5	25	Stark BG 001	lio	Plugged	3342	3700	San Andres-Yeso
3001523801	Wildcat Energy LLC	1.56	11/15/96 TA	5/28/1981	25E	19S	11	Rio Penasco KD Com 003	Gas	TA	8165	9360	Canyon
3001525991	Nearburg Producing Co	1.59	N/A	9/30/1988	25E	19S	12	Rose 12A 001	Gas	Active	8800	9345	Strawn
3001523978	Yates Petroleum Corp	1.59	N/A	11/12/1981	25E	19S	ŝ	Rio Penasco RT Com 001	Gas	Active	6154	9226	Wolfcamp
3001520064	Yates Petroleum Corp	1.60	1/3/2008	6/19/1967	25E	185	25	Kincaid BI 001	lio	Plugged	3268	3300	San Andres-Yeso
3001522420	Nearburg Producing Co	1.61	1/31/2001	2/17/1978	26E	19S	9	Liggett Com 001	Gas	Plugged	9305	9318	Morrow
3001500155	Yates Petroleum Corp	1.64	N/A	3/22/1958	25E	18S	34	Scout EH Federal 001	0i	Active		2800	San Andres-Yeso
3001523546	Anadarko Petrol. Corp	1.67	11/1983	12/17/1980	25E	19S	12	Glass 001	lio	Plugged	9020	9394	Atoka
3001520755	Yates Petroleum Corp	1.67	3/20/1974	10/17/1972	25E	185	25	Kincaid BI Com 002	Öİ	Plugged	1755	9029	San Andres-Yeso
3001505929	Yates Petroleum Corp	1.68	1/18/1962	11/24/1961	26E	185	ß	Culpepper(A-F) 001	Ō	Plugged		1330	San Andres-Yeso

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API Num	Operator	Distance (miles)	Plug Date	Spud Date	Rng	Tsh	Sec	Well Name	Type	Status	PBTD (ft)	Depth (ft)	Zone	
3001505928	Yates Petroleum Corp	1.68	9/21/1961	7/29/1961	26E	185	30	Culpepper AD 001	Iio	Plugged		9355	Morrow	
3001523496	Yates Petroleum Corp	1.69	8/11/2006	10/28/1994	25E	185	34	Rio Penasco OJ Com 001	Gas	Plugged	8810	9140	Atoka	
3001528499	Yates Petroleum Corp	1.72	N/A	5/19/1995	25E	185	34	Scout EH Federal Com 00	lio	Active	6154	6202	Wolfcamp	
3001500111	Yates Petroleum Corp	1.72	N/A	4/20/1960	25E	19S	ĸ	Federal AK 001	lio	Active		6100	Wolfcamp	
3001510243	Martin Yates Jr et al	1.73	4/1979	9/23/1963	25E	18S	26	LDY 001	lio	Plugged	1380	2569	San Andres-Yeso	
3001521038	Yates Petroleum Corp	1.77	N/A	12/8/1973	25E	185	34	Scout EH Federal Com 00	Oil	Active	5762	5922	Wolfcamp	_
3001521560	Yates Petroleum Corp	1.78	8/6/2007	7/11/1975	2 ⁵ E	18S	27	Scout EH Federal Com 00	Gas	Piugged	8868	0606	Atoka-Morrow	
3001520031	Yates Petroleum Corp	1.78	1/2/2008	4/1/1967	25E	18 S	24	MOBIL BB 001	lio	Plugged	3699	5716	San Andres-Yeso	
3001523114	Yates Petroleum Corp	1.85	2/1980	1/10/1980	25E	185	23	N. Penasco MG Com. 001	lio	Plugged		9040	Morrow	_
3001510164	Yates Petroleum Corp	1.86	6/18/1963	2/28/1961	25E	19S	m	John A Yates 001	Oil	Plugged		153	Wolfcamp	
3001525876	Nearburg Producing Co	1.88	11/23/2002	2/18/1988	26E	19S	7	Glass 001	Gas	Plugged	9338	9401	Morrow	
3001500258	Yates Petroleum Corp	1.92	5/9/2005	10/16/1960	26E	18 S	32	Nix Curtis J F 001	lio	Plugged	3202	9295	San Andres-Yeso	
3001523074	Yates Petroleum Corp	1.93	N/A	12/5/1979	25E	<u>195</u>	11	Rio Penasco MF Federal (Gas	Active	8865	9363	Canyon	-
3001527789	Yates Petroleum Corp	1.95	2/18/1994	2/2/1994	25E	18 5	34	Rio Penasco RT 002	oil	Plugged		6200	Wolfcamp	
3001522321	Dorchester Exploration Ir	1.95	1/1978	10/28/1977	26E	19S	7	Secrest et al 001	lio	Plugged		9415	Morrow	
3001523726	Yates Petroleum Corp	1.97	N/A	6/18/1981	25E	18S	34	Scout EH Federal Com 00	Gas	Active	8765	9150	Wolfcamp	

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API Num	Operator	Distance (miles)	Plug Date	Spud Date	Rng	Tsh.	Sec	Well Name	Type	Status	PBTD (ft)	Depth (ft)	Zone
3001531905	Agave Energy Co	0.00	N/A	8/1/2001	25E	185	36 .	Metropolis Disposal #1	AGI	Active		10500	Devonian-Montoya
3001500107	Gulf Oil Corp	0.20	4/10/1964	12/31/1958	25E	185	36	Eddy St Ac 001	Oil	Plugged	9218	9283	Morrow
3001510561	Monsanto Oil Co	0.33	6/9/1965	5/30/1965	25E	185	36	Kincaid 001	lio	Plugged		0550	Morrow
3001523701	Yates Petroleum Corp	0.44	N/A	2/7/2000	25E	18S	35	Rio Penasco JX Com 002	Gas	Active	9243	9300	Atoka-Morrow
3001500108	Gulf Oil Corp	0.59	7/9/1959	3/9/1959	25E	185	36	Eddy St AC 002	lio	Plugged		1802	San Andres-Yeso-Abo
3001510828	Yates Petroleum Corp	0.67	4/30/2007	5/25/1966	25E	185	36	State AU 001	lio	Plugged	1760	1834	San Andres-Yeso-Abo
3001523292	Amoco Production Co	0.72	4/7/1993	4/25/1980	25E	19S	-	Alley 001	Oil	Plugged	9316	9362	Morrow
3001521411	Yates Petroleum Corp	0.77	9/23/2005	11/26/1974	25E	185	25	Wilkinson AZ 003	lio	Plugged	2341	2450	San Andres-Yeso
3001531906	Yates Petroleum Corp	0.79	N/A	9/9/2002	25E	185	36	Suburb AZS State 001	Gas	Active	9300	9340	Morrow .
3001522286	Yates Petroleum Corp	0.82	N/A	9/6/1977	25E	185	25	Gerard AW 004	lio	Active	1540	1550	San Andres-Yeso
3001520137	Yates Petroleum Corp	0.88	5/22/2006	8/28/1994	25E	185	25	Wilkinson AZ 002	lio	Plugged	2407	2450	San Andres-Yesö
3001520007	Yates Petroleum Corp	0.88	10/17/2005	5/19/1967	25E	185	25	Wilkinson AZ 001	lio	Plugged	3400	5120	San Andres-Yeso
3001520134	Yates Petroleum Corp	0.88	10/2/1992	4/16/1968	25E	185	36	Lowe BK St 001	lio	Plugged	1558	1590	San Andres-Yeso
3001500106	Resler & Sheldon	0.91	12/1/1957	5/24/1957	25E	185	26	Wilkinson 001	lio	Plugged		1401	San Andres-Yeso
3001523025	Yates Petroleum Corp	0.92	9/4/1996	10/12/1979	26E	185	31	Metcalf LT Com 001	oil	Plugged	3865	9370	San Andres-Yeso
3001521430	Yates Petroleum Corp	0.92	5/25/2006	12/4/1974	25E	185	25	Nix Curtis BH 004	oit	Plugged		1495	San Andres-Yeso
3001522278	Yates Petrolęum Corp	. 0.94	N/A	8/30/1977	25E	185	26	Wilkinson AZ 004	lio	Activé	2422	2500	San Andres-Yeso
3001522328	Yates Petroleum Corp	0.94	9/22/2010	10/30/1977	25E	185	35	Gushwa DR 002	lio	Plugged		2400	San Andres-Yeso
3001510800	Yates Petroleum Corp	0.95	11/7/2005	6/2/1966	25E	185	25	Gerard AW 001	lio	Plugged		2648	San Andres-Yeso
3001522652	Yates Petroleum Corp	0.96	N/A	8/16/1978	25E	185	35	Rio Penasco JX 001	Gas	Active	9190	9265	Morrow
3001531719	Yates Petroleum Corp	0.98	N/A	5/24/2001	25E	185	25	Yates AS Fee Com 006	Gas	Active	9151	9172	Morrow
3001522311	Yates Petroleum Corp	0.98	N/A	10/9/1977	25E	185	26	Babcock IR 001	lio	Active		2500	San Andres-Yeso
3001523426	Yates Petroleum Corp	0.98	N/A	9/23/1980	25E	185	35	Gushwa DR 003	Gas	Active	9080	9160	Marrow
3001524163	Anadarko Petrol. Corp	66.0	2/8/1994	5/27/1982	25E	195	1	Anderson 001	Gas	Plugged	9150	9354	Morrow
3001521406	Yates Petroleum Corp	0.99	N/A	10/28/1974	25E	18S	25	Yates AS Fee 003	Oil	Active	1484	1620	San Andres-Yeso

Table B-2. All Wells Within One Mile of Metropolis Disposal #1 (see Figure B-2 for Locations)

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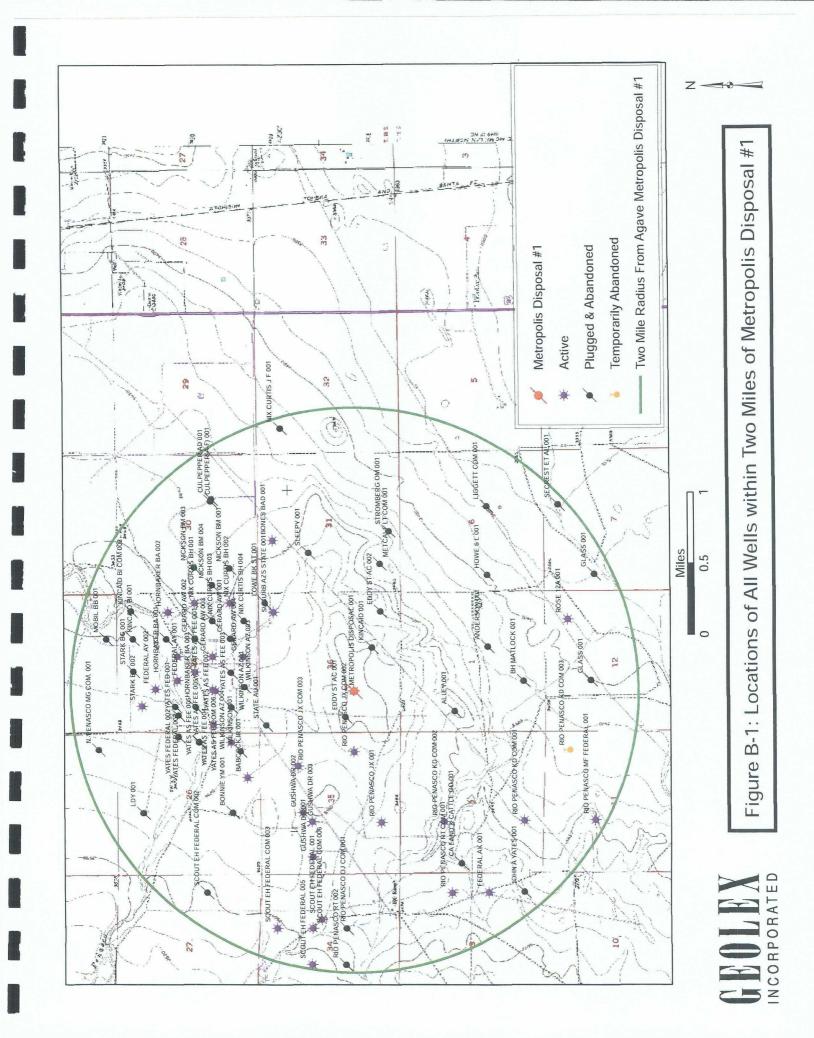
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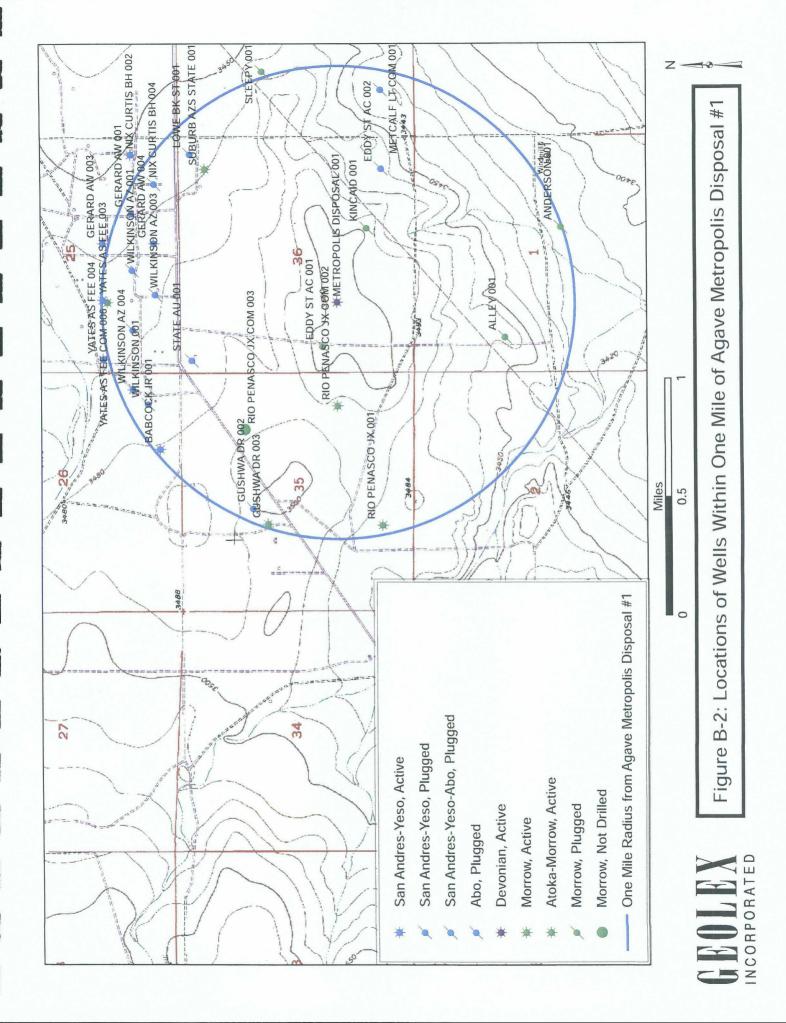
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APPENDIX C

Well Records, Documentation, and Plugging Diagrams for All Plugged Wells within One Mile of Metropolis Disposal #1

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Distance Plug Date Spud Date Rng Tsh Sec W (miles) 4/10/1964 12/31/1958 25F 18S 36 0.20 4/10/1964 12/31/1958 25F 18S 36 0.33 6/9/1965 5/30/1965 25F 18S 36 0.59 7/9/1959 3/9/1959 25F 18S 36 0.57 4/7/1993 4/25/1980 25F 18S 36 0.72 4/7/1993 4/25/1994 25F 18S 36 0.77 9/23/2005 11/26/1974 25F 18S 25 0.88 10/17/2005 5/19/1967 25F 18S 25 0.88 10/2/1992 4/16/1968 25F 18S 36 0.91 12/1/1957 5/24/1957 25F 18S 36 0.92 5/25/2006 12/4/1974 25F 18S 36 0.92 5/24/1957 5/24/1957 25F 18S							
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0.77 9/23/2005 11/26/1974 25E 185 25 0.88 5/22/2006 8/28/1994 25E 185 25 0.88 10/17/2005 5/19/1967 25E 185 25 0.88 10/17/2005 5/19/1967 25E 185 25 0.88 10/2/1992 4/16/1968 25E 185 25 0.91 12/1/1957 5/24/1957 25E 185 36 0.92 9/4/1996 10/12/1979 26E 185 31 0.92 5/25/2006 12/4/1974 25E 185 25 0.92 5/25/2006 12/4/1977 25E 185 35 0.93 5/22/2010 10/30/1977 25E 185 35 0.95 11/7/2005 6/2/1966 25E 185 35	25E	1 Alley 001	liO	Plugged	9316	9362	Morrow
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	25E		W 001 Oil	Plugged		2648 Sa	San Andres-Yeso
25E	5/27/1982 25E 19S		1 001 Gas	Plugged	9150	9354	Morrow

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Table C-1. All Wells Within One Mile of Metropolis Disposal #1 (see Figure C-1 for Locations)

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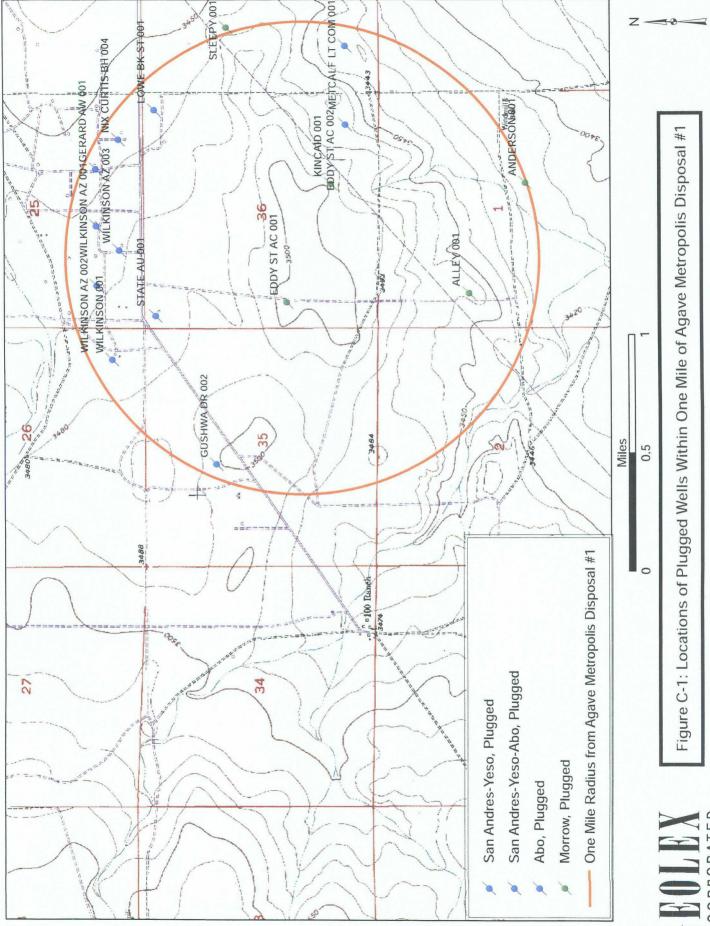
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INCORPORATED

EDDY ST AC 001 API# 30-015-00107 LOCATED 0.20 MILES FROM METROPOLIS DISPOSAL #1

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NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

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at so a

MISCELLANEOUS NOTICES

Submit this notice in TRIPLICATE to the District Office, Oil Conservation Commission, before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Notice by Checking Below

OTICE OF INTENTION O CHANGE PLANS		DTICE OF INTENTION TO EMPORARILY ABANDON WELL	NOTICE OF INTENTION TO DRILL DEEPER	REDEIV
OTICE OF INTENTION O PLUG WELL		OTICE OF INTENTION Plug Back	Notice of Intention to Set Liner	MAR 2.3 156
IOTICE OF INTENTION 0 Squeeze		OTICE OF INTENTION	Notice of Intention to Shoot (Ning)	ARTEBIA, OFFICE
OTICE OF INTENTION O GUN PERFORATE		otice of Intention Other)	NOTICE OF INTENTION (OTHER)	
DIL CONSERVATION COM ANTA FE, NEW MEXICO	MISSION	Hobbs, New Met	······································	1.964
Gentlemen:				
	tention to do cert	ain work as described below a	the	
Competition	iny or Operator)	Lesse	Well No. 1	in
14 SW 14 of (40-acre Bubdivision)	Sec	, T. 10-0 , R 29-6	NMPM., MILICES	Pool
1. Set CI BP at 2. Any free pei with jet cut	; approximat indicato iter and pul.	r and out 5-1/2" can l casing.	ing off immediately abo	_
1. Set (I BP at 2. Buy free ped with jet cut 3. Spot cement Permo-Penn, 2200' to 210 and 50' to a cement plug hele, and p	approximat iter and pul plug from 8 5750' to 56 0' - across markee. If will be set lugs to sur	ely 8950' and spot r and cut 5-1/2" eau l casing. 050 to 7950 - acres: 50' - across W. C. (Olorietta, 1250' to the casing is recov across the cut with	5 make commt on top. Fing off immediately above s casing cut, 6900' to 6 Trab, 1500' to 100' - a co 1150' - across surface rered from a shallower do 1 50' inside casing and	800' - across eross top Abs, casing shee with a 100'
 Set CI BP at Buny free pei with jet cut Spot cement Permo-Penn, 2200' to 210 and 50' to a cement phag hele, and p Install k" X 	approximat iter and pul plug from 8 5750' to 56 0' - across markee. If will be set lugs to sur	ely 8950' and spot i r and cut 5-1/2" eau 1 caming. 050 to 7950 - acres: 50' - across W. C. (Chorietta, 1250' to the caming is record across the cut with face. e marker and clean i	b sacks commt on top. Fing off immediately above to casing out, 6900' to 6 Greb, 4500' to 4400' - a to 1150' - across surface wered from a shallower d to 50' inside casing and location.	800' - across eross top Abs, casing shee with a 100'
1. Set CI BP at 2. Buy free pei with jet cut 3. Spot cement Permo-Penn, 2200' to 210 and 50' to a cement plug hele, and p hele, and p hele, and p	approximat nt indicato ter and pul plug from 8 5750' to 56 0' - across marface. If will be set lugs to sur: k' dry hol	ely 8950' and spot i r and cut 5-1/2" eau 1 caming. 050 to 7950 - acres: 50' - across W. C. (Chorietta, 1250' to the caming is record across the cut with face. e marker and clean i	b sacks commt on top. Fing off immediately above a casing out, 6900' to 6 Trab, 4500' to 4400' - a b 1150' - across surface word from a shallower d a 50' inside casing and location.	800' - across eross top Abs, casing shee with a 100'
L. Set CI BP at 2. Buy free pel with jet cut 3. Spot cement Furme-Penn, 2200' to 210 and 50' to 2 cement plug hele, and p 4. Install A" I Approved. MAR 2 Except as follows:	approximat nt indicato ter and pul plug from 8 5750' to 56 0' - across merice. If will be set lugs to sur k' dry hol 3 1964	ely 8950' and spot i r and cut 5-1/2" eau l casing. 050 to 7950 - acress 50' - acress W. C. (Olorietta, 1250' to the casing is recov across the cut with face. e marker and clean : By	b sacks commt on top. Fing off immediately above a casing out, 6900' to 6 Trab, 4500' to 4400' - a b 1150' - across surface word from a shallower d a 50' inside casing and location.	800' - asress eross top Abe, oasing shee epth a 100' 50' in open
1. Set OI BP at 2. Buy free pel with jet cut 3. Spot cement Permo-Penn, 2200' to 210 and 50' to a cement plug hele, and p 4. Install 4" X Approved OIL CONSERVATION COMM	approximat nt indicato ter and pul plug from 8 5750' to 56 0' - across merice. If will be set lugs to sur k' dry hol 3 1964	ely 8950' and spot i r and cut 5-1/2" can l cazing. 050 to 7950 - acres: 50' - across W. C. (Olorietta, 1250' to the cazing is record across the cut with face. e marker and clean : By	b sacks commt on top. Fing off immediately above s casing cut, 6900' to 6 Greb, 4500' to 4400' - a coll50' - across surface rered from a shallower d a 50' inside casing and location. Deliginal Corporation Deliginal Corporation	800' - asress eross top Abe, oasing shee epth a 100' 50' in open

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HUNBER 2' COPI 			MISCEL	LANEOU	ONSER S REP	VATION C	COMMISSIO N WELLS	N	FORM C-103 (Rev 3-55)
Name of Comp				Addre					
Oalf 01] Lease	L Corporatio	911	Well No.			HGDDa, J Township	im Marico	Range	
Date Work Per		Pool	1	L	36	18-8 County	<u></u>	25	<u>-I</u>
3-31 to	4-10-64	Wildca		05 (6) 1		Ent	<u>k</u>		
	eg Drilling Opera		S A REPORT			Other (E	Explain):	·	······
Plugging		C-Lease	emedial Work				, .,		
	md 50' in (35 sacks fre	on 4500' to 14	ه دو وال	ACKS ITO	1 2200				TEAM 1230. 1
1150'-	35 sacks fre across surf	em 4500' to 44 face casing sh nd installed d	oe. Spot	ted 18 m	icks fi	rom 0 to	50' in to indoned Ap REC APR		9, E1,554 . 1964
1150' - Cleaned	35 sacks fre across sari location an	face casing sh	Position	ited 18 m	ecks fr	Company	50' in to Indoned Ap R E C APR		9, 61,564 1964
1150' - Cleansd	35 sacks fre across sari location an	face casing sh nd installed d	Position Produc LOW FOR R	tion For Executed 18 and States for the second seco	ecks fr Plugget Emen WORK R	Company Gulf Oi	50' in to indoned Ap R E C APR C L Corpore		9, E1,554 . 1964
Ulso - Cleaned	35 sacks fre across surf location an	FILL IN BE	Position Produc LOW FOR R ORIG	tion For REMEDIAL INAL WELL	ecks fr Plugge Emen WORK R	Company Galf 01 EPORTS 01	50' in to Indoned Ap R E APR I Corpore	P of E17 1. C. ESIA. ESIA.	Derrice
Vitnessed by R. W. Sa D F Elev.	35 sacks free across surf location and ands	FILL IN BE	Position Produc LOW FOR R	ted 18 m mrker.	EMEN WORK R DATA	Company Gulf Of Producing	50' in to indoned Ap R E C APR I Corpora NLY	P of (E) V 17'	npletion Date
Vitnessed by R. W. Sa D F Elev.	35 sacks free across surf location and ands	FILL IN BE	Position Produc LOW FOR R ORIG	ted 18 m mrker.	ecks fr Plugge Emen WORK R	Company Gulf Of Producing	50' in to indoned Ap R E C APR I Corpora NLY	P of (E) V 17'	npletion Date
User - Cleaned Witnessed by R. W. Se D F Elev. Tubing Diame	35 sacks fre across surf location an ands	FILL IN BE	Position Produc LOW FOR R ORIG	ted 18 m mrker.	EMEN WORK R DATA	Company Gulf Of Producing	50' in to indoned Ap R E C APR I Corpora NLY	P of (E) V 17'	npletion Date
Usersed by R. W. Sa D F Elev. Tubing Diame Perforated Int	35 sacks fre across sard location and ands T etter terval(s)	FILL IN BE	Position Produc LOW FOR R ORIG	etion For REMEDIAL INAL WELL O	EMEN WORK R DATA	Company Gulf Oi Producing eter	50' in to indoned Ap R E C APR I Corpora NLY	P of (E) V 17'	Derfiece ceals 9,ELSEL. 1964 C. Derfiece appletion Date
Usersed by R. W. Sa D F Elev. Tubing Diame Perforated Int	35 sacks fre across sard location and ands T etter terval(s)	FILL IN BE	Position Produc LOW FOR R ORIGI	etion For REMEDIAL INAL WELL O	EMEN WORK R DATA ing Diamo	Company Gulf Oi Producing eter	50' in to indoned Ap R E C APR I Corpora NLY	P of (E) V 17'	Derrice
Usersed by R. W. Sa D F Elev. Tubing Diame Perforated Int	35 sacks fre across sard location and ands T eter terval(s) terval Date of	FILL IN BE D Oil Productio	Position Produc ELOW FOR R ORIG PBTI PBTI RESUL on Gas F	Ction For REMEDIAL INAL WELL O Oil Str Production	ing Diame KOYER	Company Galf Oi Producing eter ation(s)	50' in termined App REC APR I Corpore NLY Interval Oil String REC	P of E17 17 1. C. E51A E51A Con Con Con Con Con Con Con Con Con Con	Presentation Date 1964 Dirice pletion Date $1 \vee E D$ $1 \vee $
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Usor - Cleaned Witnessed by R. W. Se D F Elev. Tubing Diame Perforated lat Open Hole lat Test Before Workovet After	35 sacks fre across sard location and ands T terval(s) terval Date of Test	FILL IN BE D Oil Productio	Position Produc ELOW FOR R ORIG PBTI PBTI	CFPD	ing Diamo KOVER	Company Galf Oi EPORTS Of Producing eter ation(s) Production B P D	50' in ter R E C APR APR 1 Corpore NLY Interval Oil Strin R E Cubic feet/	P of E17 1. C. ESIA ESIA Con as Depth Con APR 2 APR 2 D. ESIA	$\frac{1964}{1 \times E}$
USO' - Cleaned Witnessed by R. W. Se D F Elev. Tubing Diame Perforated Int Open Hole Int Test Before Workover After Workover	35 sacks fre across sard location and ands T terval(s) terval Date of Test	FILL IN BE	Position Produc ELOW FOR R ORIG PBTI PBTI	CFPD	EMEN WORK R DATA ing Diamo ting Form KOVER Water I F teby certi- the best of	Company Galf Oi Producing eter ation(s) Production B P D	50' in ter Indoned Ap R E C APR I Corpore NLY Interval Oil Strin R E GOR Cubic feet/ sc. CNLD BY	P of E17 1. C. ESIA ESIA Con as Depth Con APR 2 APR 2 D. ESIA	$\frac{1964}{1 \times E}$
USO' - Cleaned Witnessed by R. W. Se D F Elev. Tubing Diame Perforated Int Open Hole Int Test Before Workover After Workover Approved by Title	35 sacks fre across sard location and ands T terval(s) terval Date of Test	Fill IN BE D Tubing Depth Oil Production BPD RVATION COMMISSIOn	Position Produc ELOW FOR R ORIG PBTI PBTI	CFPD	EMBRI WORK R DATA ing Diamo ing Form KOVER Water I F Water I F F tion	Company Galf Oi EPORTS Of Producing eter ation(s) Production B P D	50' in ter R E C APR APR I Corpora NLY Interval Oil Strin R E GOR Cubic feet/ Interval Cubic feet/ Cubic feet	P of E17 1. C. ESIA ESIA Con as Depth Con APR 2 APR 2 D. ESIA	Price coal r P,ELELL. 1964 C. Price apletion Date $V \in D$ 1 = 1964 C. 1 = 1964 C. 1 = 1964 C. C. C. C. C. C. C. C. C. C.

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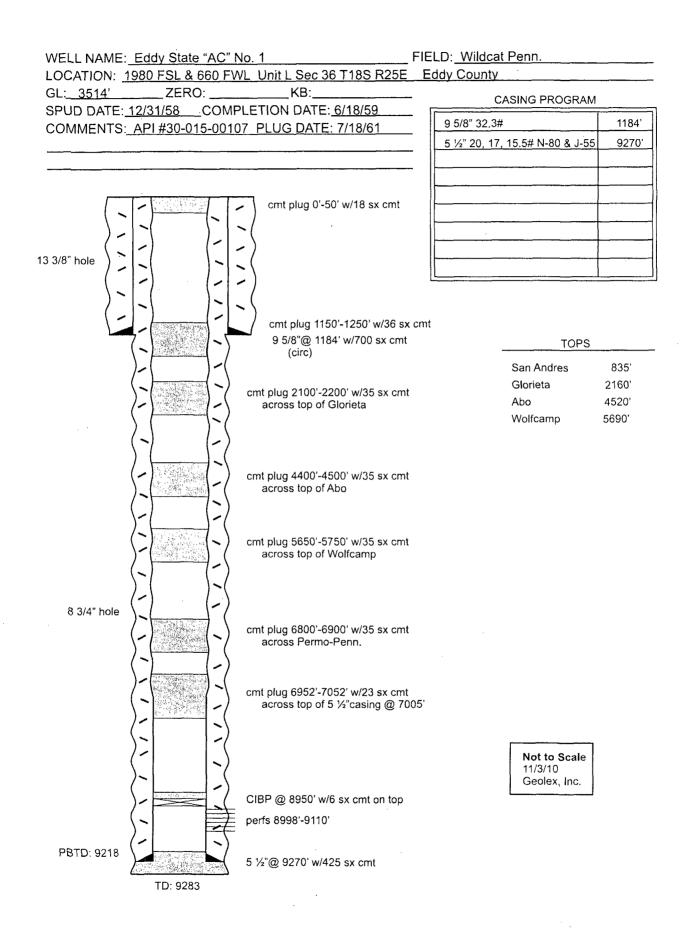
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KINCAID 001 API# 30-015-10561 LOCATED 0.33 MILES FROM METROPOLIS DISPOSAL #1

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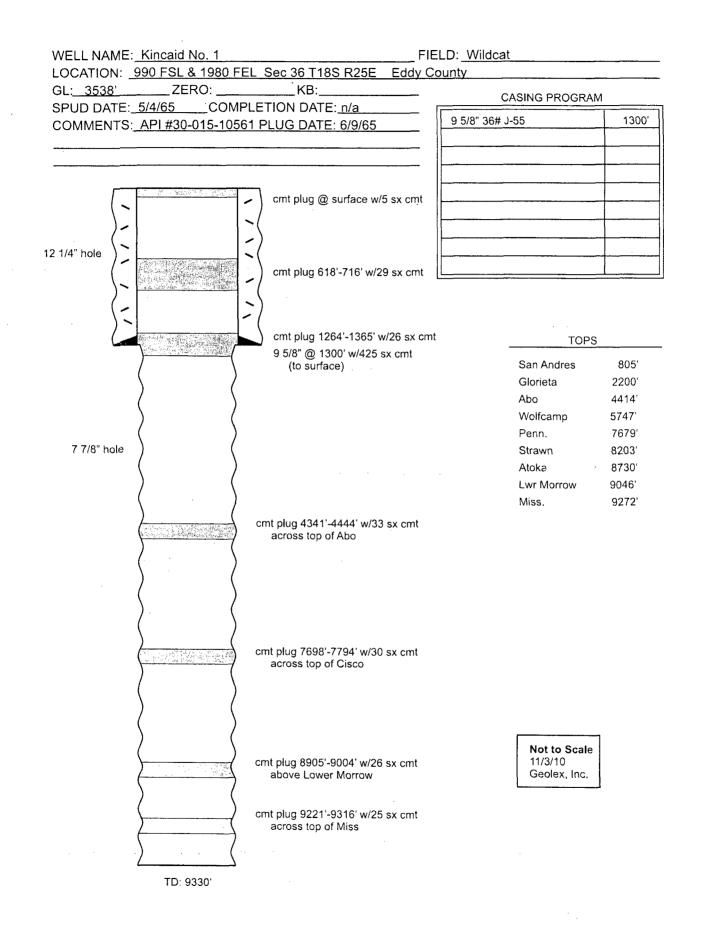
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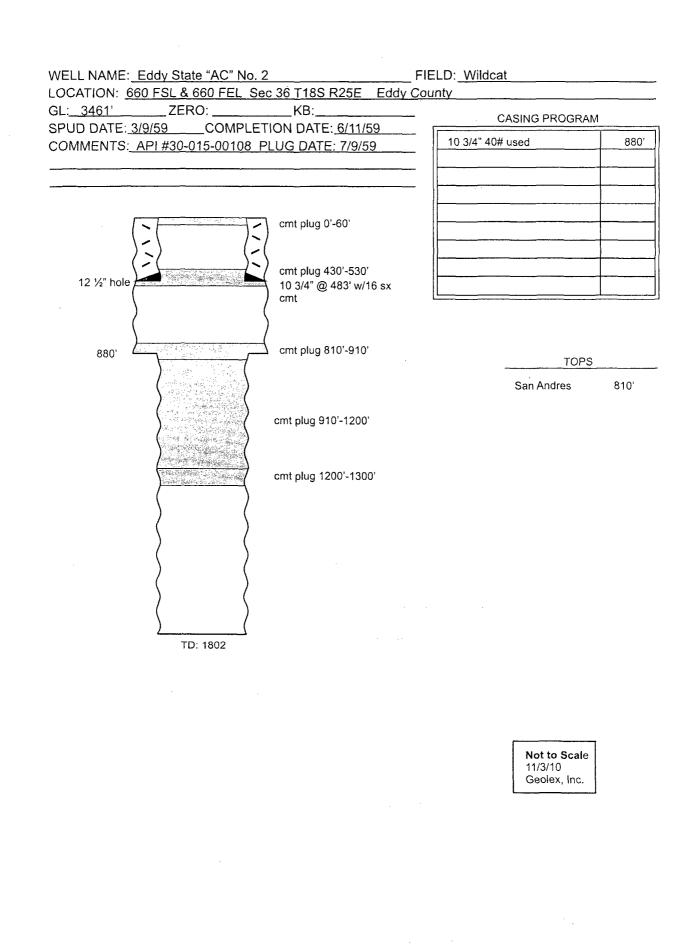
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Submit 3 Copies To Appropriate District	State of Ne	ew Mexico	Form C-103
Office District I	Energy, Minerals an	d Natural Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240			WELL API NO.
<u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVA	TION DIVISION	30-015-10828 5. Indicate Type of Lease
District III	1220 South S	t. Francis Dr.	STATE STATE
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, I	NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505			E 10165
	TICES AND REPORTS ON V	VELLS	E-10165 7. Lease Name or Unit Agreement Name
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1. Type of Well: Oil Well	Gas Well 🗌 Other		8. Well Number
2. Name of Operator Yates Petroleum Corpora	tion	FEB 2 0 2007 OCD - ARTESIA NW	9. OGRID Number 025575
3. Address of Operator			10. Pool name or Wildcat
105 S. 4 th Street, Artesia	, NM 88210		Penasco Draw San Andres Yeso
4. Well Location			1
Unit Letter <u>D</u> :	330 feet from the	North line and	330 feet from the West line
Section 36		Range 25E	NMPM Eddy County
		her DR, RKB, RT, GR, etc. 3477'GR	
Pit or Below-grade Tank Application	or Closure		
Pit type Depth to Groundwa	ter Distance from neares	t fresh water well Dis	stance from nearest surface water
Pit Liner Thickness: m	il Below-Grade Tank: Volun	nebbls; Co	onstruction Material
12. Check	Appropriate Box to Indi	cate Nature of Notice,	Report or Other Data
NOTICE OF I	NTENTION TO:	SUB	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK] PLUG AND ABANDON	REMEDIAL WOR	K 🗌 ALTERING CASING 🗌
TEMPORARILY ABANDON		COMMENCE DR	
PULL OR ALTER CASING] MULTIPLE COMPL [CASING/CEMEN	т јов
OTHER:	ſ	OTHER:	
13. Describe proposed or con	pleted operations. (Clearly si		d give pertinent dates, including estimated date
of starting any proposed v or recompletion.	vork). SEE RULE 1103. For	Multiple Completions: At	ttach wellbore diagram of proposed completion
of recompletion.			
Yates Petroleum Corporation plans	to plug and abandon this wel	l as follows:	
1 Rig up all safety equipment as a	needed POOH with TAC S/	N perf sub mud joint with	bull plug and all but 533' of tubing.
2. RIH with gauge ring and junk b		, port sub, mud joint with	our plug and an out 555 of tubing.
3. Set a 4-1/2" CIBP at 1150' with	a 35' cement on top.		
 4. Spot 100' cement plug (25 sx) a 5. Spot 100' cement plug (25 sx) a 			
6. Cut off wellhead and install dry			
NOTE: Yates Petroleum Corporat	ion will use steel pits and no e	earth pils	
			Notity OCD 24 hrs. prior
			To any work dong.
			-
I hereby certify that the informatio	nabove is true and complete t	to the best of my knowledge	e and belief. I further certify that any pit or below-
grade tank has been/will be constructed	or closed according to NMOCD gui	delines 🗌, a general permit 🗍	or an (attached) alternative OCD-approved plan [].
SIGNATURE (Jan	untas TITLE	Regulatory Compliance Si	upervisor DATE February 16, 2007
Type or print name Tina Hu	erta E-mail ad	dress: <u>tinah@ypcnm.c</u>	
For State Use Only	1	/	
APPROVED BY:	Tuftin TI	TLE Luthy.	DATE 420/07
Conditions of Approval (if any):	· · ·		

Section 2.

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Office.	oriate District		of New Me				n C-10
Distance I		Energy, Miner	rals and Natu	ral Resources			y 27, 200
1625 N. French Dr., Hobbs,	, NM 88240	0.7			WELL API NC		
<u>District II</u> 1301 W. Grand Ave., Artesi	5 NM 88710	OIL CONSE	ERVATION	DIVISION		0-015-10828	
District III	a, 19191 00210	· · · ·	outh St. Fran		5. Indicate Typ		-
1000 Rio Brazos Rd., Aztec	., NM 87410		a Fe, NM 87		STATE 6. State Oil &		
<u>District IV</u> 1220 S. St. Francis Dr., San	ta Fe. NM		a i 0, i 4141 07	Month	1	Jas Lease No.	
87505				I MAY	The second se	E-10165	
SUR	NDRY NOTI	CES AND REPORTS	S ON WELLS	OCD - AT	V. Lease Name	or Unit Agreemen	t Name
(DO NOT USE THIS FORM DIFFERENT RESERVOIR	M FOR PROPOS	ALS TO DRILL OR TO I	DEEPEN OR PLI	JG BACK TO A	NA NA	State AU	
PROPOSALS.) 1. Type of Well: Oil	Well	Gas Well 🔲 🛛 C	Other P&A		8. Well Numbe	er 1	
2. Name of Operator					9. OGRID Nur		
Yates Petroleu		n				025575	
 Address of Operator 105 S. 4th Street 		JM 88210			10. Pool name Penasco I	or Wildcat Draw San Andres Y	'eso
4. Well Location Unit Letter	D ;	330 feet from the	North	line and	330 feet fro	om the West	line
Section	36	Township		nge 25E		ddy County	-
		11. Elevation (Show		RKB RT GR etc			
it or Below-grade Tank A	polication 0		3477				
it type Depth :			nannet feach w	otor well Die	tance from nearest s	urface water	
it Liner Thickness:	mil	Below-Grade Tank:	: Volume	bbls; Co	onstruction Material	·····	
		appropriate Box to	o Indicate N		•		
		TENTION TO:			SEQUENT R		
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TEMPORARILY ABAN		CHANGE PLANS		COMMENCE DR		PLUG AND ABA	NDON 🖄
PULL OR ALTER CAS	SING	MULTIPLE COMPL	- 🗆	CASING/CEMEN	ТЈОВ		
				OTHER:			Г
OTHER:							
	osed or compl	eted operations. (Cle	early state all t	pertinent details, an	d give pertinent d	ates, including esti	mated d
13. Describe propo	proposed wo	eted operations. (Clerk). SEE RULE 110.	early state all f 3. For Multipl	pertinent details, and le Completions: At	d give pertinent d tach wellbore dia	ates, including esti gram of proposed of	mated d completi
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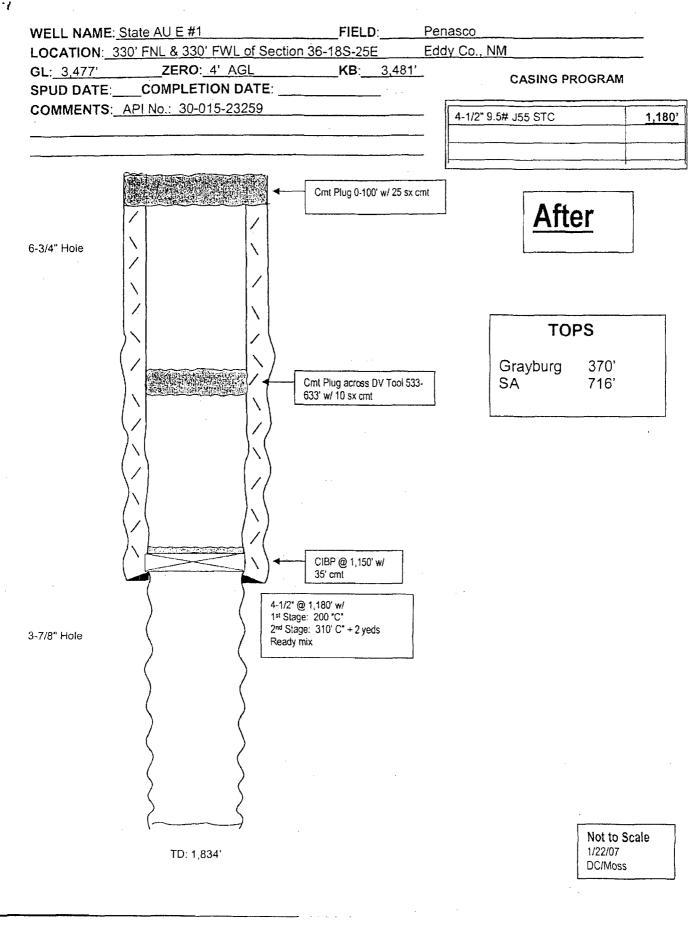
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ALLEY 001 API# 30-015-23292 LOCATED 0.72 MILES FROM METROPOLIS DISPOSAL #1

to Appropriate Dignet Office	State of New M Energy, Minerals and Natural I			e C-103 sed 1-1-89
DISTRICT I P.O. Box 1980, Hobba, NM 88240	OIL CONSERVATIO		WELL API NO.	
DISTRICT II P.O. Drawer DD, Anesia, NM 88210	Santa Fe, New Mexico		<u>30-015 - 23</u> 5. Indicate Type of Lease	292
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410		APR 1 2 1993	6. State Oil & Gas Lesse No.	FEE 🔀
	ICES AND REPORTS ON WE			
(DO NOT USE THIS FORM FOR PRE DIFFERENT RESE		N OP PEUG BACK TO A	7. Lease Name or Unit Agreement N	//////////////////////////////////////
I. Type of Well: OIL OIL OIL WELL MELL	**************************************		Alley Com	
2 Name of Operator Amoco Producti	Dh Company		& Well No.	
3. Address of Operator 1	uston Tx 77253	(Room 17.180)	9. Pool marne or Wildow Boyd Morro	ລ
4. Well Location Unit Letter <u>E</u> : ZOS	O Feet From The iv	Line and	60 Feet From The	/ Line
Section	Township 195	Range ZSE	NMPM Eddy	County
	10. Elevation (Show whether	TDF, RKB, RT, GR, euc.) 3.5 GTR		
	Appropriate Box to Indicate FENTION TO: PLUG AND ABANDON			
				ANDONMENT 🛄
		CASING TEST AND CI		
DTHER:	tions (Clearly state all perturbed details	OTHER:		
<pre>- spot 100' cmt plu - PERF BELOW 13 3/8 - 450'-350' inside - CAP X 10' CMT AT</pre>	at 8950', cap w/ 35 ig from 7288'-7188' (p ig from 5705'-5605' (c ig from 3675'-3575' (f ig from 1355'-1255' (f SHOE AT 452' X pump and outside of 5 1/2' SURFACE x steel plate	OTHER: and give periment dates, inclu- cont. LOAD HOLE benn). wolfcamp). bone springs). 5 5/8" shoe) and 5 100' smt plug ' csg and tag.	EMENT JOB	
<pre>DTHER: 12 Describe Proposed or Completed Open work) SEE RULE 1103. - MI. RUSU. - POH x PROD EQPT. - rih w/ cibp x set - spot 100' cmt plu - spot - spot</pre>	at 8950', cap w/ 35 ig from 7288'-7188' (p ig from 5705'-5605' (v ig from 3675'-3575' (f ig from 1355'-1255' (s is SHOE AT 453' X pump and outside of 5 1/2'	OTHER: and give periment dates, inclu- benn). wolfcamp). bone springs). 5 5/8" shoe) and 5 100' smt plug " csg and taq. e x marker x cle	EMENT JOB	nosed
<pre>III. Describe Proposed or Completed Open work) SEE RULE 1103. - MI. RUSU. - POH x PROD EQPT. - rih w/ cibp x set - spot 100' cmt plu - spot 100' cmt plu - spot 100' cmt plu - spot 100' cmt plu - PERF BELOW 13 3/8 - 450'-350' inside - CAP X 10' CMT AT - RD. MOSU.</pre>	at 8950', cap w/ 35 ig from 7288'-7188' (ig from 5705'-5605' (ig from 3675'-3575' (ig from 1355'-1255' (' SHOE AT 455' X pum and outside of 5 1/2' SURFACE x steel plate	OTHER: and give periment dates, inclu- benn). wolfcamp). bone springs). 5/8" shoe) and 5/8" shoe) and 5/80' cmt plug ' csg and taq. e x marker x cle Nonty	EMENT JOB	nosed
<pre>I2 Describe Proposed or Completed Open work) SEE RULE 1103.</pre> - MI. RUSU POH x PROD EQPT rih w/ cibp x set - spot 100' cmt plu - Sp	at 8950', cap w/ 35 ig from 7288'-7188' (p ig from 705'-5605' (c ig from 3675'-3575' (l ig from 1355'-1255' (s "SHOE AT 453' X pump and outside of 5 1/2' SURFACE x steel plate SURFACE x steel plate	OTHER: and give persinent dates, inclu- benn). wolfcamp). bone springs). 9 5/8" shoe) and 5 100' smt plug " csg and taq. e x marker x cle Nonity kd 4/92.	EMENT JOB	nosed
THER: 12 Describe Proposed or Completed Opera- work) SEE RULE 1103. - MI. RUSU. - POH x PROD EQPT. - rih w/ cibp x set - spot 100' cmt plu - PERF BELOW 13 3/8 - 450' - 350' inside - CAP X 10' CMT AT - RD. MOSU. (LUISEd Proposal, OTI 1 bereby certify that the information shows a true skonature	at 8950', cap w/ 35 ig from 7288'-7188' (p ig from 5705'-5605' (v ig from 3675'-3575' (p ig from 1355'-1255' (s s SHOE AT 455' X pump and outside of 5 1/2' SURFACE x steel plate SURFACE x steel plate Simi propose(Submit and complete to the book of my knowledge and Summer and state of m	OTHER: and give persinent dates, inclu- benn). wolfcamp). bone springs). 9 5/8" shoe) and 5 100' Smt plug ' csg and taq. a x marker x cle Nonty kd 4/92.	EMENT JOB	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<pre>I2 Describe Proposed or Completed Open work) SEE RULE 1103.</pre> - MI. RUSU POH x PROD EQPT rih w/ cibp x set - spot 100' cmt plu - PERF BELOW 13 3/8 - GAP X 10' CMT AT - RD. MOSU. (EUiSed Proposal, Original Strength	at 8950', cap w/ 35 ig from 7288'-7188' (p ig from 705'-5605' (c ig from 3675'-3575' (l ig from 1355'-1255' (s "SHOE AT 453' X pump and outside of 5 1/2' SURFACE x steel plate SURFACE x steel plate	OTHER: and give persinent dates, inclu- benn). wolfcamp). bone springs). 9 5/8" shoe) and 5 100' smt plug " csg and taq. e x marker x cle Nonity kd 4/92.	EMENT JOB	nosed

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- Submit 3 Copies	state of Nev			rm C-103
to Appropriate District Office	Energy, Minerals and Natur	ral Resources Department	APR 1 9 1993 Re	vised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM 88	240 OIL CONSERVA P.O.Boy		WELL	19 - Martin Martin, Santa S
DISTRICT II P.O. Drawer DD. Artesia, NM	Santa Fe. New Me		30-015-232 5. Indicate Type of Lease	
DISTRICT III 1000 Rio Brazos Rd., Aztec, NN	1 87410		STATE 6. State Oil & Gas Lease No.	FEE
(DO NOT USE THIS FORM F DIFFERENT	Y NOTICES AND REPORTS OR PROPOSALS TO DRILL OR TO RESERVOIR. USE "APPLICATION ORM C-101) FOR SUCH PROPOSA	DEEPEN OR PLUG BACK TO A FOR PERMIT"	7. Lease Name or Unit Agreem	nent Name
I. Type of Well OL G. WELL W			Alley Com Gas Unit	
2. Name of Operator	ELL OTHER		8. Well No.	
Amoco Production Company		i.	1	;
3. Address of operator			9. Pool name or Wildcat	· · · · · · · · · · · · · · · · · · ·
P.O. Box 3092, Houst	on, Texas 772	53-3092	Boyd Morro	w ;
4. Well Location				
Unit Letter E :	2080 Feet From The	North Line and	360 Feet From The	West Line
Section 1	Township 19-S	Range 25-E	NMPM Eddy, NM	County
	10. Elevation (Sho	w whether DF, RKB, RT, GR, etc.)		······
		3463.5 GL		
	Plug and abandon			·
EMPORARILY ABANDON	CHANGE PLANS		OPNS. PLUG AND	
ULL OR ALTER CASING		CASING TEST AND CI	EMENT JOB	
THER:		OTHER:		
work.) SEE RULE 1103. MIRUSU 4-1-93 X POH X TE PMP 20 SX CMT 7086-7296	eted Operations (Clearly state all pertin 3G X PKR X CIBP SA 8950' X TST 5 X 20 SX CMT 5503-5713 X 20 3EHIND 5-1/2" X IN 5-1/2" CSG X	X 750 PSI X OK X CAP X 35' (SX CMT 3476-3686 X 25 SX C	CMT (8915') X DISP HOLE X 9. MT 1120-1343 X PER 390' X (5# GL BW MUD X CIRC CMT. CIRC
PLUGGED X ABANDONED.				
				0
				Post ID- 4-36-9 VyH
				YXH YXH
				, ,
I hereby certify that the/informat	ion above is true and complete to the b	est of my knowledge and belief.		
SIGNATURE Revince	a M France		SSISTANT DATE	04-13-93
TYPE OF PRINT NAME DEVINA	M. PRINCE			NE NO. (713) 596-7686
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APPROVED BY Lauf	mill	TITLE CHARACTER	DATE	JUN 2 6 1993
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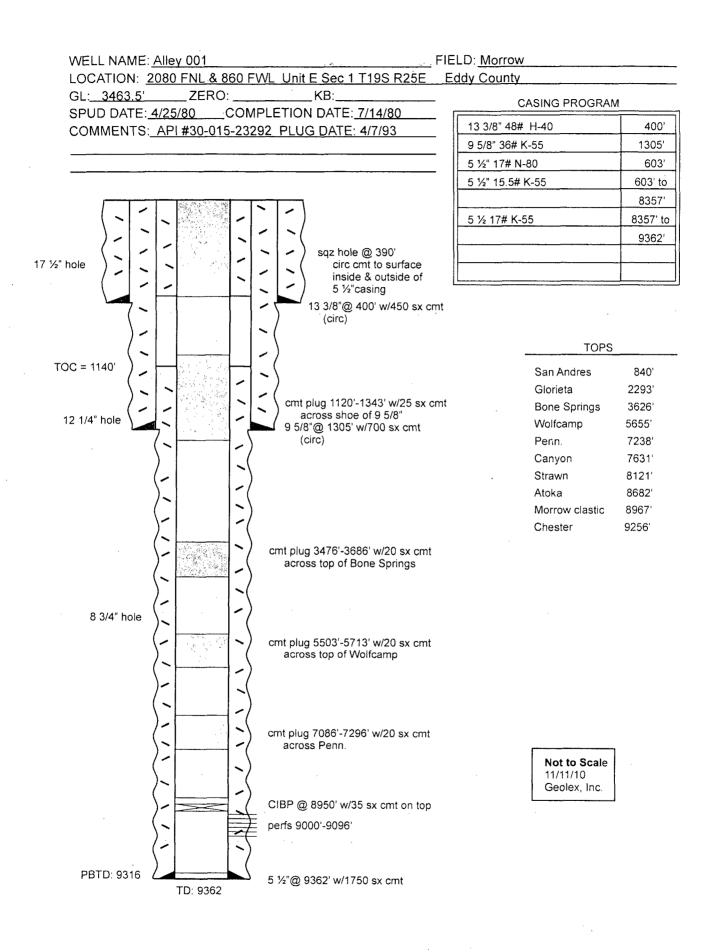
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WILKINSON AZ 003 API# 30-015-21411 LOCATED 0.77 MILES FROM METROPOLIS DISPOSAL #1

	Submit 3 Copies To Appropriate District		State of New 3	Mexico		Form C-103
	Office			atural Resources		May 27, 2004
_	District I 1625 N. French Dr., Hobbs, NM 88240	Energy,		atural Resources	WELL API NO.	
•	District II)-015-21411
	1301 W. Grand Ave., Artesia, NM 88210			ON DIVISION	5. Indicate Type	
	District III	12:	20 South St. F	rancis Dr.	STATE	FEE 🕅
	1000 Rio Brazos Rd., Aztec, NM 87410		Santa Fe, NM	87505	6. State Oil & G	
	District IV 1220 S. St. Francis Dr., Santa Fe, NM					us Leuse 110.
	87505					
r	SUNDRY NO	TICES AND REI	OPTS ON WEI	10	7 Lease Name (or Unit Agreement Name
1	(DO NOT USE THIS FORM FOR PROP					ilkinson AZ
	DIFFERENT RESERVOIR. USE "APPL				8. Well Number	
	PROPOSALS.)				8. well Number	
	1. Type of Well: Oil Well 🛛	Gas Well	Other	RECEIVED		3
	2. Name of Operator			RECEIVED	9. OGRID Num	
	Yates Petroleum Corpora	ition		JUL 1 3 2005		025575
	Address of Operator				10. Pool name o	
	105 S. 4 th Street, Artesia	, NM 88210		OOD-AHTEOM	Penasco Di	raw San Andres Yeso
	4. Well Location					
	Unit Letter N :	480 feet fro	om the Sa	outh line and	1780 feet from	m the West line
	Section 25	Towns		Range 25E	NMPM Ed	dy County
		11. Elevation	(Show whether	DR, RKB, RT, GR, etc.)		
				169'GR		
	Pit or Below-grade Tank Application	or Closure				
	Pit type Depth to Groundwa	ter Distar	ce from nearest fre	ah water well Dis	tance from nearest su	rface water
	Pit Liner Thickness: m	il Below-Grad	e Tank: Volume	bbls; Co	nstruction Material	
	12. Check	Appropriate I	Box to Indicate	Nature of Notice,	Report or Othe	r Data
				· · · · · · · · · · · · · · · · · · ·		
	NOTICE OF I	NTENTION 7	ΓO·	SUB	SEQUENT RE	
	PERFORM REMEDIAL WORK		-	REMEDIAL WOR		
		CHANGE PL		COMMENCE DRI		PLUG AND ABANDON
	PULL OR ALTER CASING		OMPL	CASING/CEMENT	ГЈОВ 🗌	
			1 1			-
	OTHER:			OTHER:		<u> </u>
	 Describe proposed or com of starting any proposed v or recompletion. 					ram of proposed completion
	Yates Petroleum Corporation plans	s to plug and abar	ndon this well as	follows:		
	1. MIRU all safety equipment nec	essary.				
	2. Set a 4-1/2" CIBP at 2115' with	a 35' cement on t	op.			
	3. Spot 25 sx cement at 1146'. Ta	ig plug.				
	4. Spot 25 sx cement at 371'. Tag					
	5. Spot 15 sx cement from 150' to					
	6. Cut off wellhead and install ma					
	NOTE: Yates Petroleum Corporat	tion will use steel	pits and no eart	h pits		
	· · · · · · · · · · · · · · · · · · ·		r	· · · ·		
	hereby certify that the informatio	n above is true ar	nd complete to th	e best of my knowledge	e and belief. I furt	her certify that any pit or below-
1	grade tank has been/will be constructed o	or closed according	to NMOCD guidelin	es 🔲, a general permit 🔲	or an (attached) alter	native OCD-approved plan 🔲.
	۸ .					
i	SIGNATURE	Huerta		Regulatory Complian	nce Supervisor	DATEJuly 11, 2005
	i	-				
,	Type or print name <u>Tina Hue</u>	erta	_ E-mail addres	s:tinah@ypcnm.co	m Teleph	one No. <u>505-748-1471</u>
		$\gamma \eta \eta$			•	
1						
	For State Use Only			Field Supe	rvisor	1111 14 000
	For State Use Only APPROVED BY:	LAK -	TITLE		ervisor	one No. <u>505-748-1471</u>

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Submit 3 Copies To Appropriate District Office	State of New Mexico	Form C-103 May 27, 2004
District I	Energy, Minerals and Natural Resources	WELL API NO.
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	<u>30-015-21411</u>
District III	1220 South St. Francis Dr.	5. Indicate Type of Lease STATE SEE SEE
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505		
	FICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
	OSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A ICATION FOR PERMIT" (FORM C-101) FOR SUCH	Wilkinson AZ
PROPOSALS.)	Gas Well 🗌 Other P&A	8. Well Number 3
2. Name of Operator	RECEIVED	9. OGRID Number
Yates Petroleum Corpora 3. Address of Operator	tionSEP 2 9 2005	025575 10. Pool name or Wildcat
105 S. 4 th Street, Artesia		Denne Den Can Andre Vers
4. Well Location		
Unit Letter <u>N</u> :	480 feet from the South line and	1780 feet from the West line
Section 25	Township 18S Range 25E 11. Elevation (Show whether DR, RKB, RT, GR, et	NMPM Eddy County
	3469'GR	
Pit or Below-grade Tank Application		
Pit type Depth to Groundwa Pit Liner Thickness: m	ter Distance from nearest fresh water well I il Below-Grade Tank: Volume bbls;	Distance from nearest surface water Construction Material
	Appropriate Box to Indicate Nature of Notice	e, Report of Other Data
		BSEQUENT REPORT OF:
PERFORM REMEDIAL WORK		RK ALTERING CASING RILLING OPNS. PLUG AND ABANDON
PULL OR ALTER CASING		
OTHER:	OTHER:	
13. Describe proposed or con	pleted operations. (Clearly state all pertinent details, a	nd give pertinent dates, including estimated date
of starting any proposed v or recompletion.	work). SEE RULE 1103. For Multiple Completions: A	Attach wellbore diagram of proposed completion
9/21/05 - 4-1/2" casing partially co	ollapsed at surface. Repaired casing. Cannot get gauge	e ring in. RIH with MMCPI workstring. Tagged
at 495'.		
Class "C" cement at 495'. Cemen	. Still full. Drilled down 2", fluid dropped out but still t on tubing at 356'.	cannot drill past 495°. Squeezed with 125 sx
9/23/05 - Tagged top of fish at 49:	5'. Pumped 127 sx cement at 186'. Cement circulated.	WOC 3 hrs and tagged at 12'. Installed dry
hole marker with 2 sx cement. WI	ELL IS PLUGGED AND ABANDONED. FINAL R	EPORT.
	Approved as to plugging of the well hore. Lia under bond is retained until surface restoratio	
	environmental remediation and final inspection is complet	ed.
I hereby certify that the informatio	n above is true and complete to the best of my knowled	ge and belief. I further certify that any nit or below-
grade tank has been/will be constructed t	r closed according to NMOCD guidelines [], a general permit [] or an (attached) alternative OCD-approved plan].
SIGNATURE 1 June +	TITLE Regulatory Compliance S	upervisor DATE September 28, 2005
Type or print name Tina Hu	zrta E-mail address: <u>tinah@ypcnm.</u>	com Telephone No505-748-1471
For State Use Only		
APPROVED BY: Conditions of Approval (if any):	TITLE	DATE

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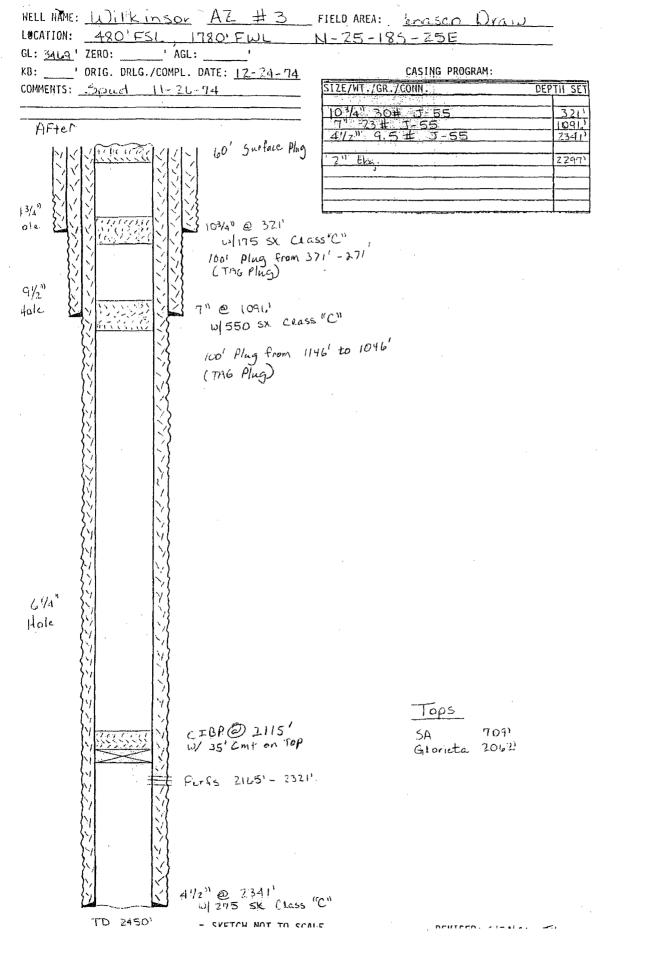
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WILKINSON AZ 002 API# 30-015-20137 LOCATED 0.88 MILES FROM METROPOLIS DISPOSAL #1

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Office	State e	of New Mex	lico		Form C-103
	Energy, Minera				May 27, 2004
District I 1625 N. French Dr., Hobbs, NM 88240	,			WELL API NO.	
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSE	RVATION	DIVISION	<u>30-015-2</u>	
1301 W. Grand Ave., Artesia, NM 86210 District III		uth St. Franc		5. Indicate Type of Leas	se FEE 🕅
1000 Rio Brazos Rd., Aztec, NM 87410		Fe, NM 87:		6. State Oil & Gas Leas	
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505					C 110.
	LICES AND REPORTS	ON WELLS		7. Lease Name or Unit	Agreement Name
(DO NOT USE THIS FORM FOR PROP DIFFERENT RESERVOIR. USE "APPL	OSALS TO DRILL OR TO D	DEEPEN OR PLU		Wilkinson	• •
PROPOSALS.) 1. Type of Well: Oil Well	Gas Well	Other		8. Well Number	
			RECEIVED	9. OGRID Number	
2. Name of Operator Yates Petroleum Corpora	tion		JAN 2 7 2006	9. OGRID Number 02557	5
3 Address of Operator				10 Pool name or Wildo	
105 S. 4 th Street, Artesia	NM 88210	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	NUL-MITERN	Penasco Draw San	Andres Yeso
4. Well Location Unit Letter M :	990 feet from the	South	line and	990 feet from the	West line
Section 25	Township	18S Ran	 ge 25E	NMPM Eddy	County
	11. Elevation (Show	whether DR,	RKB, RT, GR, etc.,		
		3467'0	GR :		
Pit or Below-grade Tank Application		waamat faash wa	tan wall Dia	ton to from a const surface wa	•
	il Below-Grade Tank:			nance from nearest surface was	ler
12. Check	Appropriate Box to	Indicate Na	iture of Notice,	Report or Other Data	
NOTICE OF I	NTENTION TO:	1	SUB	SEQUENT REPOR	T OF:
PERFORM REMEDIAL WORK	-	ION 🛛	REMEDIAL WOR		RING CASING
TEMPORARILY ABANDON				LLING OPNS.	AND ABANDON
PULL OR ALTER CASING] MULTIPLE COMPL		CASING/CEMEN	ТЈОВ 🗌	
OTHER:			OTHER:		П
	mlated anomationa (Cla	arly state all n			hand here
 Describe proposed or con of starting any proposed v or recompletion. 					
of starting any proposed w or recompletion.	vork). SEE RULE 1103	3. For Multiple	e Completions: At		
of starting any proposed v or recompletion. Yates Petroleum Corporation plans	vork). SEE RULE 1103 s to plug and abandon th	3. For Multiple	e Completions: At		
of starting any proposed w or recompletion. Yates Petroleum Corporation plans 1. RU safety equipment as needed	vork). SEE RULE 1103 s to plug and abandon th	3. For Multiple	e Completions: At		
of starting any proposed v or recompletion. Yates Petroleum Corporation plans 1. RU safety equipment as needed 2. POII with production equipmer	work). SEE RULE 1103 s to plug and abandon th	3. For Multiple	e Completions: At	tach wellbore diagram of	
of starting any proposed w or recompletion. Yates Petroleum Corporation plans 1. RU safety equipment as needed 2. POII with production equipmer 3. RU WSC to pump down 3-1/2"	work). SEE RULE 1103 s to plug and abandon th casing establishing inje	3. For Multiple his well as follo ection rate. Pu	e Completions: At	tach wellbore diagram of	
of starting any proposed v	work). SEE RULE 1103 s to plug and abandon th casing establishing inje	3. For Multiple his well as follo ection rate. Pu	e Completions: At	tach wellbore diagram of	
of starting any proposed w or recompletion. Yates Petroleum Corporation plans 1. RU safety equipment as needed 2. POII with production equipmer 3. RU WSC to pump down 3-1/2" 4. Install dry hole marker, clean lo	work). SEE RULE 1103 s to plug and abandon th	3. For Multiple his well as follo ection rate. Pu er regulated.	e Completions: At	tach wellbore diagram of	
of starting any proposed w or recompletion. Yates Petroleum Corporation plans 1. RU safety equipment as needed 2. POII with production equipmer 3. RU WSC to pump down 3-1/2"	work). SEE RULE 1103 s to plug and abandon th	3. For Multiple his well as follo ection rate. Pu er regulated.	e Completions: At	tach wellbore diagram of	
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of starting any proposed v or recompletion. Yates Petroleum Corporation plans I. RU safety equipment as needed 2. POII with production equipmer 3. RU WSC to pump down 3-1/2" 4. Install dry hole marker, clean lo NOTE: Yates Petroleum Corporat NOTE: Yates Petroleum Corporat I hereby certify that the informatio grade tank has been/will be constructed of SIGNATURE	work). SEE RULE 1103 s to plug and abandon th	3. For Multiple nis well as follo ection rate. Pu- er regulated. ad no earth pit. plete to the be- CD guidelines [] FLE _Regulate	e Completions: At ows: mp 100 sx cement s Notify C a st of my knowledg , a general permit ory Compliance Su	tach wellbore diagram of filling casing to surface. CD 24 hrs . prior to ny work done. e and belief. I further certifor an (attached) alternative of the surface of	proposed completion y that any pit or below CD-approved plan
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inbrit 3 Copies To Appropriate District State of New Mexico	Form C-103
Energy, Minerals and Natural Resources	May 27, 2004
enoh Dr., Hobbs, NM 88240	WELL API NO. 30-015-20137
1301 W. Grand Ave., Artesia, NM 88210 OIL CONSERVATION DIVISION	5. Indicate Type of Lease
District III 1220 South St. Francis Dr.	STATE FEE
District IV Santa Fe, NM 8/505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505	
SUNDRY NOTICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH	_
PROPOSALS.) BECENED	Wilkinson AZ
I Type of Well: Oil Well Gas Well Gos Well Other P&A	8. Well Number
2. Name of Operator MAY 2 6 2006	9. OGRID Number
Yates Petroleum Corporation	025575
3. Address of Operator	10. Pool name or Wildcat
105 S. 4 th Street, Artesia, NM 88210	Penasco Draw San Andres Yeso
4. Well Location	
Unit Letter <u>M</u> : 990 feet from the <u>South</u> line and	990 feet from the <u>West</u> line
Section 25 Township 18S Range 25E	NMPM Eddy County
11. Elevation (Show whether DR, RKB, RT, GR, etc.)	
Pit or Below-grade Tank Application [] or Closure []	
Pit type Depth to Groundwater Distance from nearest fresh water well Dis	tanas from assest surface water
	nance from nearest surface water
12. Check Appropriate Box to Indicate Nature of Notice,	Report or Other Data
NOTICE OF INTENTION TO: SUB	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK D PLUG AND ABANDON REMEDIAL WOR	
— — — — — — — — — — — — — — — — — — — —	
PULL OR ALTER CASING MULTIPLE COMPL CASING/CEMEN	
	_
OTHER: OTHER: OTHER: 13. Describe proposed or completed operations. (Clearly state all pertinent details, and	d give partinent dates including estimated dat
of starting any proposed work). SEE RULE 1103. For Multiple Completions: At or recompletion.	
	100 //
5/19/06 – Established injection rate down casing with 11 bbls. Squeezed with 100 sx ceme $5/22/06$ – Tagged at 780'. Pumped 30 sx cement from 700' to surface. WOC 1 hr. Cemen	ni at 100# max pressure.
WELL IS PLUGGED AND ABANDONED. FINAL REPORT.	it at suitace. Instance of y note market.
Approved as to plugging of the welt bore. Ltability under bond is retained until surface restoration.	
Approved as to plugging of the well bore. Ltability under bond is retained until surface restoration, environmental	
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Approved as to plugging of the well here. Lubility under bond is retained until surface restoration, environmental remediation and final inspection is completed.	or an (attached) alternative OCD-approved plan .
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YATES PETROLEUM CORPORATION

Location:25M,18S,25E Well: Wilkinson AZ #2 Eddy Co, NM Field:Penasco Draw (San Andres Yeso) Elevation: 3467' GL Spud: 4/23/68 TD:1530' Compl.5/14/68 After Casing And Cementing: 8 5/8" 28# J-55@ 1044'in 11" hole. Cmted w/400 sxs. T/cement @340' Grouted through 3/4" w/100 sxs. 5 1/2" 14# J-55 @ 1527'. TOC 5 1/2" @460' Cmted w/180 sxs. TOC@460'. 8 5/8"@ 1044' Original Completion: 5/8/68-Perf. 1378'-1440'. 1378' Spicezcol Acidize w/3000 gals, Frac w/ 3500# sand & 120,000 gals. 1440' water. Potential: 5/23/68-P/60 BOPD & 80 BLWPD Status: Current Production: 5 BOPM 8/93 5 1/2"@ 1527' Cum Production: 20,317 BO 8/93 Yeso ferts 2,136-2,3681

> 3 1/2" @ 2,450 9.3" 2-35 Centere Circ to Surface

50 ucc 2e 100 sks Aurin Lequinsie Float Collar B 2:11:7

Revised 1/26/010

mit

WILKINSON AZ 001 API# 30-015-20007 LOCATED 0.88 MILES FROM METROPOLIS DISPOSAL #1

Office		New Mexi				Form	
District I	Energy, Minerals	and Natural	Resources	·····		May 2	.7, 20
1625 N. French Dr., Hobbs, NM 88240				WELL A		0007	
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSER	VATION D	IVISION		30-015-2		
District III		h St. Franci			ate Type of Lea		
1000 Rio Brazos Rd., Aztec, NM 87410		e, NM 875(TATE	FEE 🛛	
District IV	Bana 1	c, 14141 0750	5	o. State	Oil & Gas Leas	se No.	
1220 S. St. Francis Dr., Santa Fe, NM 87505							
SUNDRY NOT	ICES AND REPORTS O			7. Lease	Name or Unit		Jame
DIFFERENT RESERVOIR. USE "APPLIC					Wilkinso	n AZ	
PROPOSALS.)				8. Well	Number		
1. Type of Well: Oil Well	Gas Well 🗌 🛛 Oth	ier RECI	IVED		1		
2. Name of Operator		1120.		9. OGR	ID Number		
Yates Petroleum Corporati	on	SEP 2	0 2005		0255		
3. Address of Operator		000	niegin	10. Poo	l name or Wilde	cat	
105 S. 4 th Street, Artesia, 1	NM 88210	QQ4r	، بي المراجع ا المراجع المراجع ا	Pe	nasco Draw Sai	n Andres Yes	60
4. Well Location	000 feat from the	South	line and	2310	fact from the	West	1:
Unit Letter <u>N</u> :	990 feet from the	South	line and		feet from the	West	line
Section 25		18S Range		NMPM	Eddy	County	2
	11. Elevation (Show w			ic.)			
		3462'G	<u> </u>				
it or Below-grade Tank Application 🗌 o							
it type Depth to Groundwate	r Distance from ne	arest fresh wate	well	Distance from	nearest surface wa	iter	
Pit Liner Thickness: mil	Below-Grade Tank: V	olume	bbls;	Construction	Material		
12. Check	Appropriate Box to L	ndicate Nati	ire of Notic	e, Report o	or Other Data		
	NTENTION TO:	1	SI				
			EMEDIAL WO			ERING CASI	
			OMMENCE D			GAND ABAND	ON
PULL OR ALTER CASING	MULTIPLE COMPL		ASING/CEME	NT JOB			
			THEO				-
OTHER: 13. Describe proposed or comp	alatad amountions (Class		THER:		·	1. 1	
of starting any proposed w	ork) SEE DITE 1103	For Multinle	linent details,	And give per	inent dates, inc	luding estim	
or recompletion.	ork). SEE ROLE 1105.	roi multiple	Jompieuons:	Attach went	ore diagram of	proposed co	mpie
bi recompletion.							
	to plug and abandon this	well as follow					
Vates Petroleum Corporation plans	to plug and abandon mis		5.				
Yates Petroleum Corporation plans	CC9TV						
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				Form C	103
Submit 3 Copies To Appropriate District	State of	New Mexico		I UIII C	105
Office District I	Energy, Minerals	and Natural Resource	es	May 27,	2004
1625 N. French Dr., Hobbs, NM 88240			WELL A		
District II 1301 W. Grand Ave., Artesia, NM 88210		VATION DIVISION	N 5 India	30-015-20007 ate Type of Lease	
District III	1220 Sout	h St. Francis Dr.		TATE FEE	
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa F	e, NM 87505		Oil & Gas Lease No.	
1220 S. St. Francis Dr., Santa Fe, NM 87505					
	ICES AND REPORTS O	N WELLS	7. Lease	Name or Unit Agreement Na	me
(DO NOT USE THIS FORM FOR PROP	OSALS TO DRILL OR TO DE	EPEN OR PLUG BACK TO A		Wilkinson AZ	
DIFFERENT RESERVOIR. USE "APPL PROPOSALS.)	ICATION FOR PERMIT" (FO	RM C-101) FOR SUCH	8. Well	Number	
1. Type of Well: Oil Well	Gas Well 🗌 🛛 Ot	her P&RECEIVED		1	_
2. Name of Operator		, , ,		ID Number	
Yates Petroleum Corpora	tion	OCT 2 1 2005	10	025575 I name or Wildcat	
 Address of Operator 105 S. 4th Street, Artesia. 	NM 88210	000-Ani 58		nasco Draw San Andres Yeso	
4. Well Location					
Unit Letter <u>N</u> :	990 feet from the	South line and	2310	feet from the West	line
Section 25	Township	18S Range 25	SE NMPM	Eddy County	
		3462'GR			
Pit or Below-grade Tank Application					
Pit type Depth to Groundwa					
Pit Liner Thickness: m			bls; Construction I		
12. Check	Appropriate Box to I	ndicate Nature of N	otice, Report c	or Other Data	
	NTENTION TO:			NT REPORT OF:	
PERFORM REMEDIAL WORK	PLUG AND ABANDO		WORK	NT REPORT OF:	
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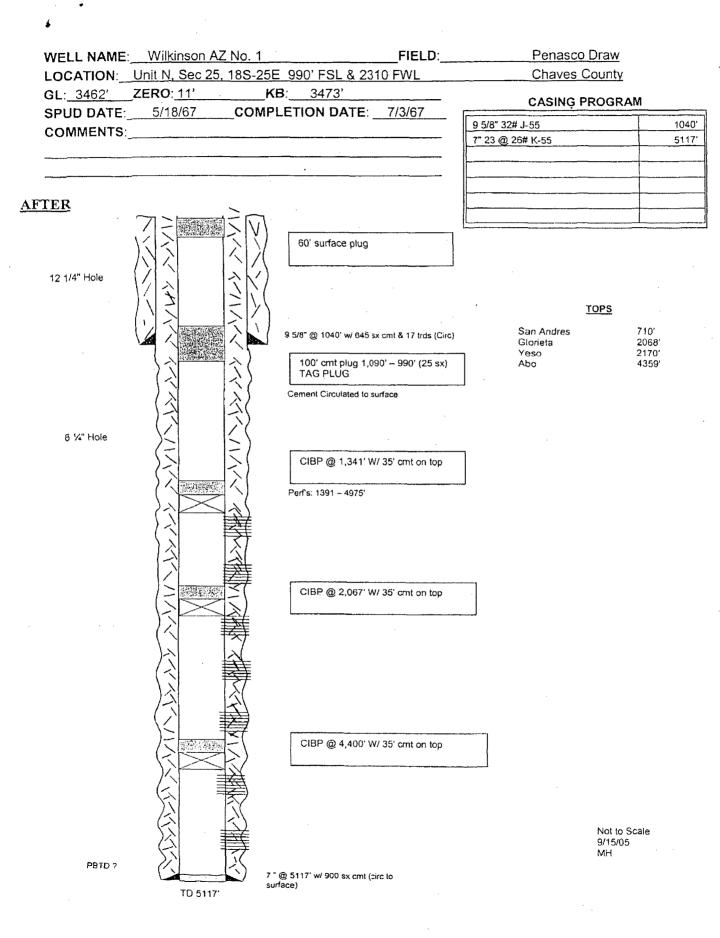
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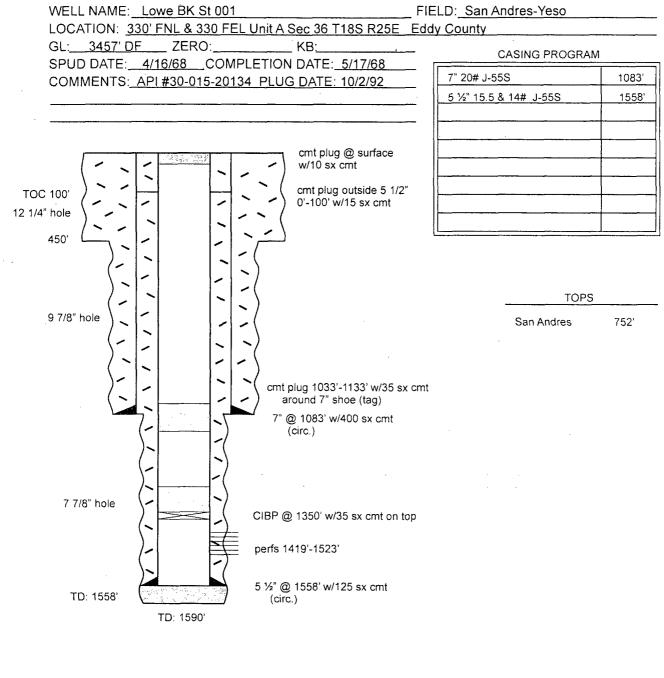
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} ~	Submit 3 Copies to Appropriate District Office	State of N Energy, Minerals and Nat				Form C-103 Revised 1-1-89
)	DISTRICT I P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVA			WELL API NO.	
	DISTRICT II P.O. Drawer DD, Artesia, NM 88210	P.O. B Santa Fe, New M			30-01 5. Indicate Type o	5 - 20134
	DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410				6. State Oil & Ga	STATE X FEE
	·				K-2310	
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	1. Type of Well: OIL OAS WELL WELL	OTHER	P&A		Lowe BK St	ate .
	2. Name of Operator YATES PETROLEUM CORPORT			······································	8. Well No.	
	3. Address of Operator 105 South 4th St., Ar				9. Pool name or V	
	4. Well Location		·			caw-San Andres-Yeso
	Unit LetterA :33	0 Feet From The Nort	h	Line and 330	Feet From	The East Line
	Section 36	Township 185	Ra		NMPM	Eddy County
		10. Elevation (Show	wheiher	DF, RKB, RT, GR, elc.)		
		Appropriate Box to Ind	icate l			
		TENTION TO:		SUB	SEQUENT R	EPORT OF:
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		CHANGE PLANS		COMMENCE DRILLING		
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	 Describe Proposed or Completed Oper work) SEE RULE 1103. 	rations (Clearly state all pertinent a	ietails, ar	nd give pertinent dates, inclu	ding estimated date of	f starting any proposed
	2) Circulate hole w	abandon well as fo and cap w/35' cemen with mud laden flui	t. d.	::		
	 Spot 35 sx plug Spot 10 sacks st 	1133-1033'. — <i>TAg</i> urface plug.				ن ا
	5) Install dry hole	e marker.				AUG 2 1992
	6) Clean and abando	on tocarton.				AUG 2 - 1992 D. C. D.
						APTESIA OFFICE
	I hereby certify that the information above is to	\sim			12021-1-5-	8-20.02
	SIONATORIA LA CATURA S	Soult		bele. Production St	upervisor	
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	SIONATORIO LA CONTILA S	Don AUT	m	Production St	<u></u>	тецерноне но, 505/748-14
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	SIONATURE LA CITULE & TYPE OFFRINT NAME JUANIT (This space for State Use)	Don AUT	m	Production St	<u></u>	тецерноне но, 505/748-14

OIL OAS OTHER P&A 2. Name of Operator 8. Well No. YATES PETROLEUM CORPORATION 1 3. Address of Operator 9. Pool name or Wildcat 105 South 4th St., Artesia, NM 88210 Penasco Draw-San Andres-Yeso	1. S.					
DIL CONSERVATION PLANTAL STATUSION PLANTAGE DA. Adda, NM BELLO DIL CONSERVATION PLANTAGE DA. 2013 Same F. New Marting of Status P.		to Appropriate				1
DIFFECTION O.C.C		DISTRICT 1 P.O. Box 1980, Hobbs, NM 88240	P.O. Bo	ox 2088		
INVERTIGATION C.C.D. Program 6. Sub CN & Guide No. INVERSING NO. ALSO, NO. F100 C.C.D. Program 6. Sub CN & Guiden No. INVERSING NO. CONFORCES AND DEPORTING ON WELLS: C.C.D. Program 7. Lase Name or Use Agreement Name ICD NOT USE THE FORM FORMORES IN DEPORTING ON FOR FERMITING NUME Lowe BK State 7. Lase Name or Use Agreement Name ICD NOT USE THE FORM FORMATION FOR FERMITING ON WELLS: Lowe BK State 7. Lase Name or Use Agreement Name IN Type of Wall Wall memor F6A 8. Well Name 1. Name of Operator 9. Pod mane or Widen: 9. Pod mane or Widen: 105 Sould Otto CORFORATION 1. Name of Operator 10. Action of Operator 9. Pod mane or Widen: 105 Sould Otto CORFORATION 1. 1. Notice A the St., Artesia, NM 88210 Feet From TheEast Lise 1. 1. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEMAN WORK PUL OR AND BANDON REMEDIAL WORK ALTERING CASING PLOTAN BANDONMENT KIN PUL OR ALTER CASING Commence Defulue Works Commence Defulue Works PLOTAN BANDONMENT KIN 11. Check Appropriate Box to Indicate		P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Me	the standards	5. Indicate Type of Lease	
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10. Elevalua (Show whether DF, RKB, KT, GK, etc.) 11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON TEMPORANLY ABANDON CHANGE PLANS COMMENCE OFILLING OPNS. PLUG AND ABANDONMENT KX PULL OR ALTER CASING CHANGE PLANS OTHER: OTHER: 12. Describe Proposed or Completed Operations (Clearly state all pertinent data), including estimated date of starting any proposed work) SEE RULE 1103. 10-2-92. RUPU. TOH w/rods and tubing. TIH with bit and scraper to 1400'. TOH w/bit and scraper. SEt CIBP at 1350'. Spot 35' of Class "C" Neat coment on top of CIBP. Set cement plug at 1135'-1035'. Spot 35' sx Class "C" Neat. Spot Class "C" Neat at surface. Installed dry hole marker. Rigged down. Note: Displace hole with 25%/bbl SW gel. Notified Johnny Robinson with NMOCD, Artesia, NM. Part TD-2 WELL PLUGGED AND ABANDONED. TTTL Production Supervisor I hereby confy use the information due to be for of my troovelage and build start of start due to 505/748-14/71 (The speec for Sum Uff Juanita Goodlett TTTL Production Supervisor I hereby confy use the information dore is the base of any troovelage and build start at sufficient dore is the base of any troovelage and build I hereby confy use the i) Feet From The North	Line and 330	Feet From The	East Line
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•	(Add	lress)			
LEASE Miltingen	WELL NO.	1 UNIT	s 26	T 188	R 25E
DATE WORK PERFOR	MED December 1957	POQL	Vilder	\$	
·					
This is a Report of: (C	heck appropriate	block)	Results of	Test of Ca	sing Shut-
Beginning Dri	lling Operations		Remedial	Work	
Plugging			Other		

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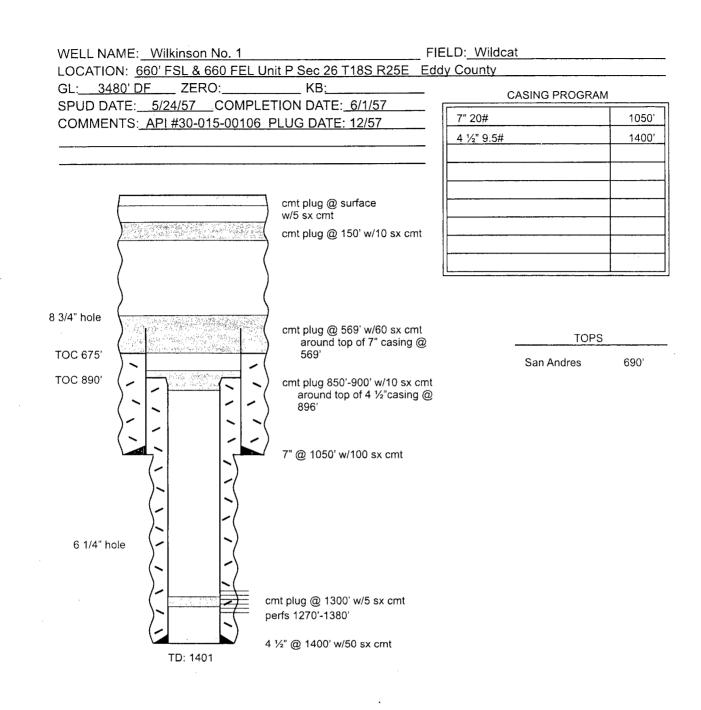
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Detailed account of work done, nature and quantity of materials used and results obtained.

Pemped well full of and lader fluid. Set 5 sacks connect plug at about 1300 forth and pulled tubing. Encount of 4 $1/2^{\circ}$ c 396 fort. Pulled one joint and placed 10 seeks of connect 350' to 900'. Pulled the 4 $1/2^{\circ}$ casing. Heached off 7: 6569' and purped 60 seeks connect ext bottom of 7:. Then pulled 7" casing. Heached off 7: 6569' and perturbed 10 seeks connect ext pulled tubing and set surface marker in 5 seek connect plug.

FILL IN BELOW FOR REMEDIAL WORK	REPORTS ONL	Y	
Original Well Data:		-	
DF Elev. TD PBD	Prod. Int.	Comp	ol Date
Tbng. Dia Tbng Depth C	Dil String Dia	Oil Stri	ng Depth
Perf Interval (s)			
Open Hole Interval Produc	ing Formation (s	•)	
RESULTS OF WORKOVER:		BEFORE	AFTER
Date of Test			
Oil Production, bbls. per day			
Gas Production, Mcf per day			
Water Production, bbls. per day			
Gas Oil Ratio, cu. ft. per bbl.			
Gas Well Potential, Mcf per day			
Witnessed by			
		(Com	pany)
OIL CONSERVATION COMMISSION Name (1) / Flagment	I hereby certif above is true a my knowledge Name	und complete	to the best of
Title Madda investore	Position	TRA 5 M	aven
Date AUG 1 L 1058	Company TR		······································



Not to Scale 11/3/10 Geolex, Inc.

B.HC. 140.00 M

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METCALF LT COM 001 API# 30-015-23025 LOCATED 0.92 MILES FROM METROPOLIS DISPOSAL #1

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	10. 37 COPICS #ECEIVED	Form C-103
殿	NTA FE	Supersedes Old C-102 and C-103 Ellective 1-1-65
	LE VE S.G.S. QECEIVE	Sa. Indicate Type of Lecse State Fee X
	AND OFFICE DFC 5 - 1972	5, State Oll & Gas Leose No.
Y.	SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT VISE THIS FOR DEPORTS OF THE DATE	
	OIL GAS WELL A OTNER.	7, Unit Agreement Name
*	Vame of Operator Yates Petroleum Corporation \checkmark	8. Form or Lease Name Metcalf LT Comm
	Address of Operator 207 South 4th Street - Artesia, NM 88210	9. Well No. 1 1 10. Field and Pool, or Wildcat Und
	UNIT LETTERM660 FEET FROM THE SOUTH LINE AND 1100 FEET FROM	LI-TAILE MITTER TIMEL MINUT
	West <u>31</u> 18S 26E	
	3437' GR	12. County Eddy
141124	Check Appropriate Box To Indicate Nature of Notice, Report or Or NOTICE OF INTENTION TO:	her Data T REPORT OF:
1	REGRM REMEDIAL WORK	ALTERING CASING
	LL OR ALTER CASING CHANGE PLANE CASING TEST AND CEMENT JOB OTHER PLUY BACK & S	PLUG AND ABANCONMENT
	OTNER	
Sec. Sec.	Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, includin, work) SEE RULE 1703. TD 9370': PBTD 4200'. Approval was obtained from Mr. Bill	· · · · · · · · · · · · · · · · · · ·
	Artesia, New Mexico to plug back well as follows: 1st plug Class H Neat. 2nd plug - 8770-8670' 35 sacks of Class H Ne	- 9150-9000' 50 saks
	7700-7600' 35 sacks of Class H Neat. 4th plug - 6900-6800 5th plug - 5800-5700' 35 sacks Class H Neat. 6th plug - 43	35 sacks Class H Neat.
	Class H Neat. PD 11:00 PM 11-20-79. TD 9370': PBTD 4200'. Ran 103 joints of $5\frac{1}{2}$ " 144 (4127') o:	
8	Cemented w/150 sacks 50-50 poz 2% gel, 5/10% CFR-2, 475 sac CFR-2. PD 9:45 PM 12-1-79. 1-Insert float shoe at 4142' 8	cks of Class C 5/10%
	Cement circulated 15 sacks to surface. NOC and tested to 1	
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2		
Sec. 1		
	I hereby certify that the information above is true and complete to the best of my knowledge and belief.	
	NED_ Chiefie Ameline Time Geol. Secty.	<u>12-4-79</u>
	ADVER BY IN G. Gresset ITLE SUPERVISOR. DISTRICT D	DEC 6 1979
and the second	NDITIONS OF APPROVAL, IF ANY:	
A.C.		

Submit 3 Copies to Appropriate District Office	State of New Me Energy, Minerals and Natural Re		Form C-103 Revised 1-1-1	89 Cl
DISTRICT I P.O. Box 1980, Hobbs, NM 88240 DISTRICT II P.O. Drawer DD, Artesia, NM 88210	OIL CONSERVATIO P.O. Box 208 Santa Fe, New Mexico	38	WELL API NO. 30-015-23025 5. Indicate Type of Lease	
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410	· · ·		6. State Oil & Gas Lease No.	FEE X
(DO NOT USE THIS FORM FOR PRO DIFFERENT RESERV	CES AND REPORTS ON WEL POSALS TO DRILL OR TO DEEPEN VOR. USE "APPLICATION FOR PEI 101) FOR SUCH PROPOSALS.)	OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name	
1. Type of Weil: OL CAS WELL X WELL	OTHER		Metcalf LT Com	
2. Name of Operator YATES PETROLEUM CORPORA	TION /		8. Well No. 1	·····
3. Address of Operator 105 South 4th St., Arte	······································	····	9. Pool name or Wildcat Penasco Draw San Andres 3	ſeso
4. Well Location Unit Letter M : 660) Feet From The South	Line and 110	0 Feet From The West	Lin
Section 31	100		NMPM Eddy	County
	10. Elevation (Show whether 3437	DF, RKB, RT, GR, elc.)		
11. Check A NOTICE OF INT	Appropriate Box to Indicate E ENTION TO:		eport, or Other Data SEQUENT REPORT OF:	
		REMEDIAL WORK		[
				MENT [
		CASING TEST AND CE		
OTHER:		OTHER:		[
12. Describe Proposed or Completed Operati work) SEE RULE 1103. Propose to plug and ab		nd give persinent dates, inclu	ding estimated date of starsing any proposed R E C E V	/E[[
$\overline{5}$ 3. Spot a 100' cement 4. Spot a 10 sack cem	plug across the 8-5/ plug across the 13-3 ent plug at surface.	8" casing shoe	at 1000'. JUL 1 1 19 at 400'. CLL CON.	
5. Install regulation	abandonment marker.		jēr¤ ≃sē g	
NOTIFY OCD-ARTESIA (50	95-748-1283) 24 HOURS	PRIOR TO COMMEN	CING PLUGGING OPERATIONS	
I hereby certify that the information above is true	and complete to the best of my knowledge and	belief.		
signature <u>husty</u>	n • . =	Operations T	echnician DATE July 10.	<u>199</u>
TYPE OR PRINT NAME Rusty Klein			TELEPTHONE NO. 505	/748-
(This space for State Use) ORIGINAL DISTRICT	. SIGNED BY TIM W. GUM		JUL 19	1996
APPROVED BY			DATE	

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la Appropriate		New Mexico tural Resources Department	Form C-103 Revised 1-1-89
Dianet Office	OTL CONSERV	ATION DIVISION	
P.O. Box 1980, Hobbs, NM 88240		lox 2088	WELL API NO.
DISTRICT II P.O. Drawer DD, Artesia, NM 88210		lexico 87504-2088	30-015-23025 5. Indicate Type of Lease
DISTRICT III			STATE FEE X
1000 Rio Brazos Rd., Aztec, NM 87410			6. State Oil & Gas Lease No.
	TICES AND REPORTS O		
(DO NOT USE THIS FORM FOR PE DIFFERENT RESI	ERVOIR, USE *APPLICATION	FOR PERMIT IN A POR	7. Lease Name or Unit Agreement Name
	C-101) FOR SUCH PROPOSAL	SECEIVEL	
. Type of Well: OL (X) WELL (OTHER D		Manalf IT Car
WELL X WELL VELL		SEP 0 5 1996	Metcalf LT Com 8. Well No.
VATES PETROLEUM CORPO	RATION		1
Address of Operator 105 South 4th St., Ar Well Location Rot		ON. DIV.	9. Pool name or Wildcat
105 South 4th St., Ar Well Location Rot	tesia, NM 88210	DIST-2	Penasco Draw San Andres Yeso
Unit Letter $4 \times \frac{6}{100}$	60	th Line and1100)
Section 31	Township 185	Range 26E	NMPM Eddy County
		whether DF, RKB, RT, GR, etc.) 3437 ¹ GR	
<u></u>			uport or Other Data
	TENTION TO:	licate Nature of Notice, Re	SEQUENT REPORT OF:
	TENHON TO.		
	PLUG AND ABANDON		
	CHANGE PLANS		
		CASING TEST AND CE	D Past IU-1
			MEN 300 - 9-20-96 -
THER:	491-79-9		
12. Describe Proposed or Completed Ope work) SEE RULE 1103.	itations (Clearly state all pertinent	devails, and give pertinent dates, includ	ling estimated date of starting any proposed
8-31-9-3-96 - Moved	in and rigged up pu	illing unit. POOH wi	th rods and pump. Shut down
for holiday. NOTE:	Notified Ray Smith	n w/OCD-Artesia of co	th rods and pump. Shut down ommencing operations.
for holiday. NOTE: 9-4-96 - Nippled up 1	Notified Ray Smith BOP and wellhead.	n w/OCD-Artesia of co POOH with tubing, se	ommencing operations. eating nipple, perforated sub
for holiday. NOTE: 9-4-96 - Nippled up 1 and mud anchor. TIH	Notified Ray Smith BOP and wellhead. with 5-1/2" CIBP of	n w/OCD-Artesia of co POOH with tubing, se on tubing and set CIB	ommencing operations. eating nipple, perforated sub 3P at 2450'. Spotted 60 bbls
for holiday. NOTE: 9-4-96 - Nippled up 1 and mud anchor. TIH plugging mud from 241	Notified Ray Smith BOP and wellhead. with 5-1/2" CIBP of 50' to surface. Mi	h w/OCD-Artesia of co POOH with tubing, se on tubing and set CIE ixed and pumped 25 sa	ommencing operations. Pating nipple, perforated sub 3P at 2450'. Spotted 60 bbls acks Class C cement from
for holiday. NOTE: 9-4-96 - Nippled up 1 and mud anchor. TIH plugging mud from 24 2450-2250' (in 5-1/2 Class C cement from 1	Notified Ray Smith BOP and wellhead. with 5-1/2" CIBP of 50' to surface. Mi " casing). POOH wi 1050-950' (in 5-1/2)	h w/OCD-Artesia of co POOH with tubing, se on tubing and set CIH ixed and pumped 25 sa ith tubing to 1050'. 2" casing). Shut dow	ommencing operations. eating nipple, perforated sub 3P at 2450'. Spotted 60 bbls
for holiday. NOTE: 9-4-96 - Nippled up 1 and mud anchor. TIH plugging mud from 241 2450-2250' (in 5-1/2' Class C cement from Ray Smith w/OCD-Artes	Notified Ray Smith BOP and wellhead. with 5-1/2" CIBP of 50' to surface. Mi " casing). POOH wi 1050-950' (in 5-1/2 sia on cement plugs	h w/OCD-Artesia of co POOH with tubing, se on tubing and set CIH ixed and pumped 25 sa ith tubing to 1050'. 2" casing). Shut dow	ommencing operations. Bating nipple, perforated sub BP at 2450'. Spotted 60 bbls acks Class C cement from Mixed and pumped 25 sacks on for night. NOTE: Notified
for holiday. NOTE: 9-4-96 - Nippled up 1 and mud anchor. TIH plugging mud from 24 2450-2250' (in 5-1/2) Class C cement from Ray Smith w/OCD-Arte: 9-5-96 - TIH with tu	Notified Ray Smith BOP and wellhead. with 5-1/2" CIBP of 50' to surface. Mi " casing). POOH wi 1050-950' (in 5-1/2 sia on cement plugs bing and tagged to	h w/OCD-Artesia of co POOH with tubing, se on tubing and set CIH ixed and pumped 25 sa ith tubing to 1050'. 2" casing). Shut dow s. p of cement at 835'.	permencing operations. Eating nipple, perforated sub BP at 2450'. Spotted 60 bbls acks Class C cement from Mixed and pumped 25 sacks on for night. NOTE: Notified POOH with tubing to 450'.
for holiday. NOTE: 9-4-96 - Nippled up 1 and mud anchor. TIH plugging mud from 24 2450-2250' (in 5-1/2' Class C cement from Ray Smith w/OCD-Arte: 9-5-96 - TIH with tu Mixed and pumped 45 down BOP. Rigged dow	Notified Ray Smith BOP and wellhead. with 5-1/2" CIBP of 50' to surface. M: " casing). POOH w: 1050-950' (in 5-1/2 sia on cement plugs bing and tagged top sacks Class C cement wn pulling unit.	h w/OCD-Artesia of co POOH with tubing, se on tubing and set CIH ixed and pumped 25 sa ith tubing to 1050'. 2" casing). Shut dow s. o of cement at 835'. It from 450' to surfa Cleaned location and	ommencing operations. eating nipple, perforated sub 3P at 2450'. Spotted 60 bbls acks Class C cement from Mixed and pumped 25 sacks on for night. NOTE: Notified POOH with tubing to 450'. ace. POOH with tubing. Nippled installed regulation abandon-
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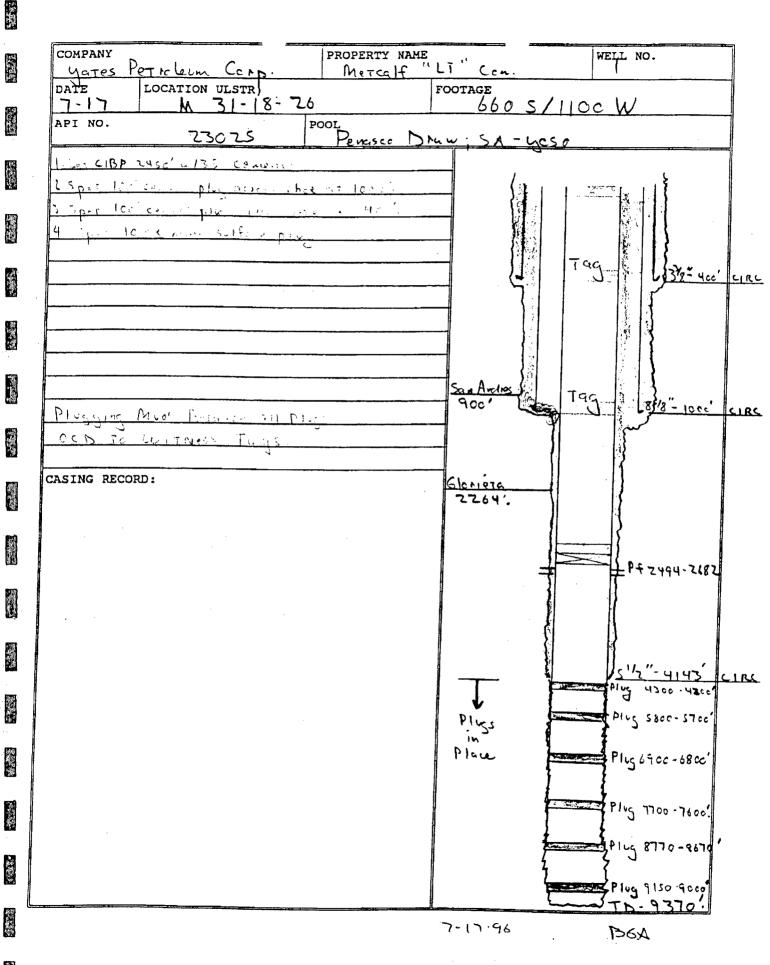
S. C. Sale

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NIX CURTIS BH 004 API# 30-015-21430 LOCATED 0.92 MILES FROM METROPOLIS DISPOSAL #1

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Submit 3 Copies To Appropriate District Office	State of Ne		Form C-10.
District I	Energy, Minerals and	d Natural Resources	May 27, 200
1625 N. French Dr., Hobbs, NM 88240			WELL API NO.
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVA	TION DIVISION	<u>30-015-21430</u>
District III	1220 South St	-	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, N		STATE FEE
District IV	Sama re, r	CUCIO INTR	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505			
	ICES AND REPORTS ON W	VELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPO			/ Lease runne of Chin Agreement runne
DIFFERENT RESERVOIR. USE "APPLIC	CATION FOR PERMIT" (FORM C	-101) FOR SUCH	Nix Curtis BH
PROPOSALS.)			8. Well Number
1. Type of Well: Oil Well 🛛	Gas Well Other	RECEIVED	4
2. Name of Operator			9. OGRID Number
Yates Petroleum Corporati	on	FEB 2 3 2006	025575
3. Address of Operator	<u></u>	UUU-MATERIM	10. Pool name or Wildcat
105 S. 4 th Street, Artesia, 1	NM 88210		Penasco Draw San Andres Yeso
4. Well Location		·····	1
Unit Letter P :	480 feet from the	South line and	990 feet from the East line

Section 25		Range 25E	NMPM Eddy County
	11. Elevation (Show wheth		
Pit or Below-grade Tank Application 🗌 o	題 pr Closure □	3457'GR	
			· · · · · · · · · · · · · · · · · · ·
Pit type Depth to Groundwate			tance from nearest surface water
Pit Liner Thickness: mil	Below-Grade Tank: Volum	nebbls; Co	enstruction Material
12. Check A	Appropriate Box to Indic	cate Nature of Notice,	Report or Other Data
	ITENTION TO:		SEQUENT REPORT OF:
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMEN	T JOB
OTHER:	Г	OTHER:	
	leted operations (Clearly st		d give pertinent dates, including estimated da
			tach wellbore diagram of proposed completion
or recompletion.	JIK). SEE KOLE 1105. FOI	Mutuple Completions. A	lach wentoble diagram of proposed completion
or recompletion.			
Yates Petroleum Cornoration plans	to plug and abandon this well	l as follows:	
		l as follows:	
I. RU safety equipment as needed.		l as follows:	
 RU safety equipment as needed. Set a 4-1/2" CIBP at 1348' with 3 		l as follows:	
 RU safety equipment as needed. Set a 4-1/2" CIBP at 1348' with 3. Perforate casing at 1147'. 	35' cement on top.		
 RU safety equipment as needed. Set a 4-1/2" CIBP at 1348' with 3. Perforate casing at 1147'. Spot 100' plug (35 sx) inside and 	35' cement on top. I outside of casing from 1147	7'-1047'. Tag Plug.	
 RU safety equipment as needed. Set a 4-1/2" CIBP at 1348' with 3 Perforate casing at 1147'. Spot 100' plug (35 sx) inside and Perforate casing at 370'. Attach 	35' cement on top. I outside of casing from 1147	7'-1047'. Tag Plug.	asing up 7" casing to surface leaving hole ful
 RU safety equipment as needed. Set a 4-1/2" CIBP at 1348' with 133. Perforate casing at 1147'. Spot 100' plug (35 sx) inside and Perforate casing at 370'. Attach of cement (62 sx). 	35' cement on top. d outside of casing from 1147 onto 4-1/2" casing and circul	7'-1047'. Tag Plug. late cement down 4-1/2" c	asing up 7" casing to surface leaving hole ful
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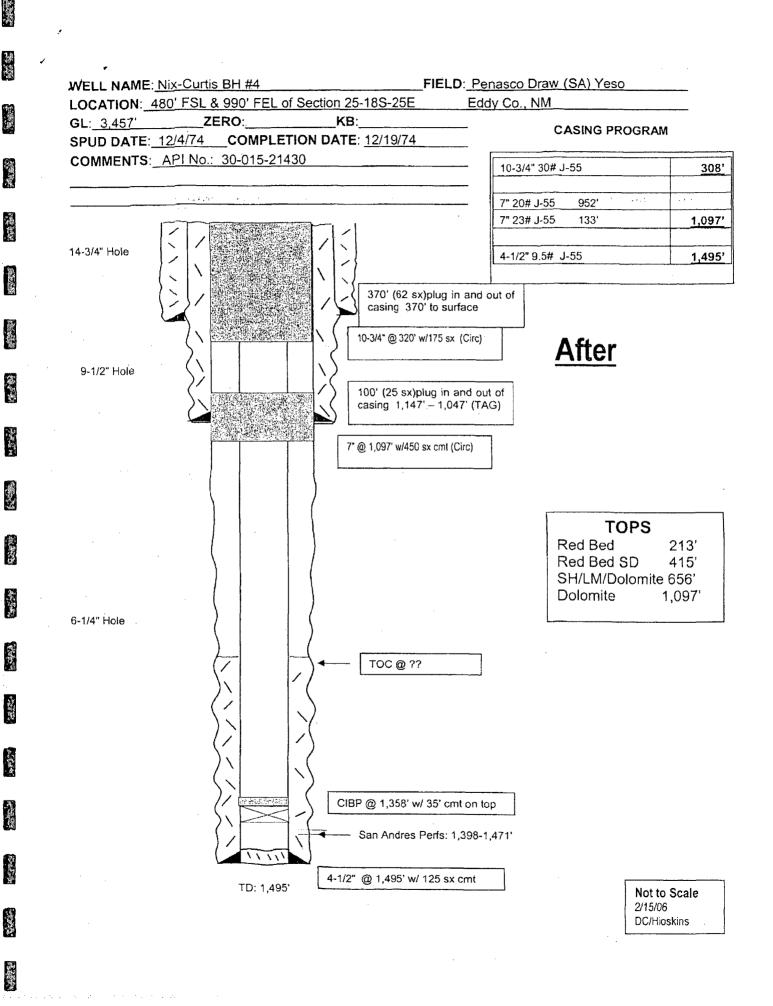
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1301 W. Grand Ave., Artesi	ia, NM 88210	OIL CONSERV			5. Indica	ite Type of Lea		
District III 1000 Rio Brazos Rd., Aztec	., NM 87410	1220 South 3			S	TATE	FEE 🛛	
District <u>IV</u> 1220 S. St. Francis Dr., San 87505		Santa Fe,	NM 87505		6. State	Oil & Gas Leas	se No.	
(DO NOT USE THIS FORM	M FOR PROPOSALS		EN OR PLUG B		7. Lease	Name or Unit	-	Namo
DIFFERENT RESERVOIR PROPOSALS.)	C USE "APPLICATIO	N FOR PERMIT (FORM	C-IUI)FOR SU	Сн	0.111.11	Nix Curti	is BH	
1 Type of Well: Oil	Well Gas	Well 🗌 Othe	r P&A		8. Well	Number 4		
2. Name of Operator		······································	RE	CEIVED	9. OGR	ID Number		
Yates Petroleu	um Corporation		JI /A	- 1		02553		
3. Address of Operato		0.010	4.1.1.1	MATEOIN	10. Pool	name or Wild		
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Section	25	Township 18 Elevation (Show whe	S Range	25E	NMPM	Eddy	County	
			3457'GR		•.J			
Pit or Below-grade Tank A	pplication 🚺 or Clos		<u> </u>					12241102
Pit type Depth	to Groundwater	Distance from neare	st fresh water v	vell D	istance from r	earest surface wa	ater	
Pit Liner Thickness:		Below-Grade Tank: Volu			Construction N			
1.	2 Check Appr	opriate Box to Ind	icate Natur	e of Notice	Report	r Other Data	-	
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GUSHWA DR 002 API# 30-015-22328 LOCATED 0.94 MILES FROM METROPOLIS DISPOSAL #1

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Office		of New Me		Form C-103
District 1	Energy, Minera	is and Natu	ral Resources	WELL API NO.
1625 N French Dr., Hobbs, NM 88240				30-015-22328
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSER	RVATION	DIVISION	5. Indicate Type of Lease
District III	1220 Sou	th St. Fran	ncis Dr.	STATE STATE STATE
1000 Rio Brazos Rd , Aztec, NM 87410 District IV	Santa	Fe, NM 87	7505	6. State Oil & Gas Lease No.
1220 S St Francis Dr , Santa Fe, NM		,		0. State Office Gas Lease (No.
87505				
	TICES AND REPORTS			7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROP				Gushwa DR
DIFFERENT RESERVOIR. USE "APPL PROPOSALS)	ICATION FOR PERMIT" (PC	JKM C-101) FC	JK SUCH	8. Well Number
1. Type of Well: Oil Well	Gas Well 🗌 🛛 Otl	HerDEC	ENCO	2
2. Name of Operator		THE6	EIVED	9. OGRID Number
Yates Petroleum Corporation			1 0 0040	025575
3. Address of Operator		<u> </u>	1-9-2010	10. Pool name or Wildcat
105 South Fourth Street, Artesia,	NM 88210			Penasco Draw; SA Yeso
		NMOCI	ARTESIA	
4. Well Location		La		
Unit Letter F . :	1650 feet from the	North	Ine and	2310 feet from the West line
Section 35	Township	18S Rai	nge 25E	NMPM Eddy County
	部 11. Elevation (Show			
		3499		
The second s				AT TERROLATING SECTOR SECTOR STATES A TONS
	4	T 12		
12. Check	Appropriate Box to	Indicate N	ature of Notice	e, Report or Other Data
	NTENTION TO:			BSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	_	NI 1571		
			REMEDIAL WO	
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PULL OR ALTER, CASING	MULTIPLE COMPL		CASING/CEME	NT JOB
	J			Ofic
		_		and give pertinent and the pertinent and give pertinent and provide the pertinent and provide the perturbation of the perturba
OTHER:			OTHER:	
13. Describe proposed or con	pleted operations. (Clea	irly state all p	pertinent details, a	and give pertinent days, including estimated da
of starting any proposed v	vork). SEE RULE 19.15	.7.14 NMAC	C. For Multiple C	completions: Attach wellbore the ram of
proposed completion or re	completion.			the the
				100° De
Yates Petroleum Corporation plan	to plug and abandon thi	s well as foll	lows:	" OOn Onor
Yates Petroleum Corporation plan	s to plug and abandon thi	s well as foll	lows:	" OONE Drior
1. MIRU WSU. Rig up any safety	equipment as needed. H	POOH with p	production equipr	nent.
2. Set a CIBP at 2116'. Pressure t	est casing and spot a 25 s	200H with p sx cement pli	production equipr ug from 1756'-21	nent. 16' across Glorieta top and over the CIBP.
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 MIRU WSU. Rig up any safety Set a CIBP at 2116'. Pressure t Spot a 300' (25 sx) Class "C" c if necessary. Spot a 430' (40 sx) Class "C" c necessary. Remove all surface equipment, NOTE: Yates Petroleum Corporat Spud Date: I hereby certify that the informatio SIGNATURE Type or print name Tina Hi For State Use Only APPROVED BY: 	requipment as needed. F est casing and spot a 25 s ement plug across and or ement plug across surface weld dry hole marker and ion will use steel pits and Rig n above is true and comp	OOH with p sx cement plu- over intermo- e casing shoe d clean locat d no earth plu- g Release Da g Release Da lete to the be TLE <u>Regu</u>	oroduction equipr ug from 1756'-21 ediate casing sho e and up to surfac ion as per regulat ts tte:	nent. 16' across Glorieta top and over the CIBP. e from 880'-1180'. WOC 3 hrs. Tag plug, reset e from 0-430'. WOC and tag plug, reset if ions. dge and belief. <u>tee Supervisor</u> DATE <u>July 15, 2010</u> <u>um.com</u> PHONE: <u>575-748-4168</u>
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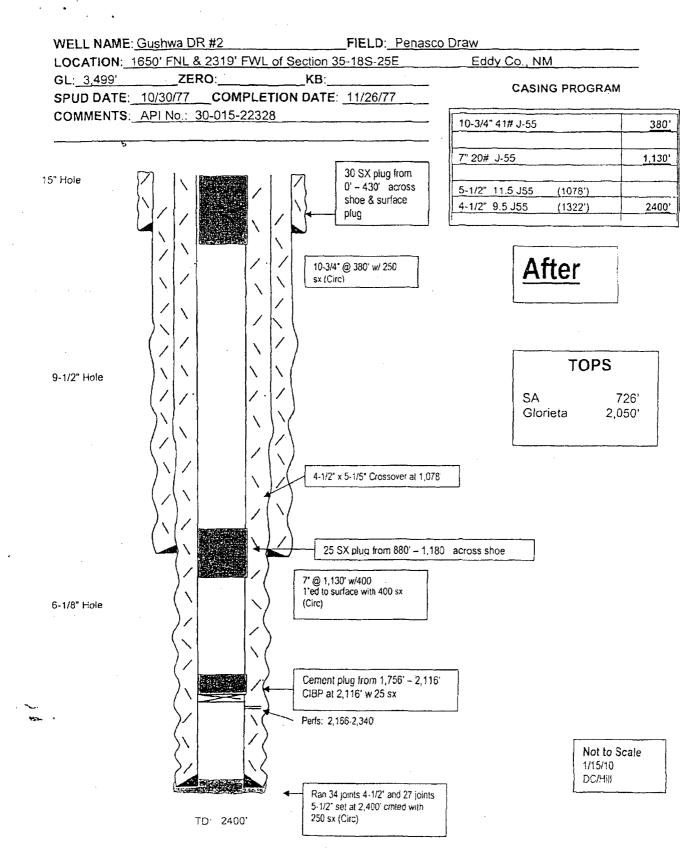
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1. A. M. A.

		of New Mexico		Form C-103
	Office Energy, Miner	als and Natural Resources		May 27, 2004
M	1625 N. French Dr., Hobbs, NM 88240		WELL API NO.	
	District II 1301 W. Grand Ave., Artesia, NM 88210 OIL CONSE	ERVATION DIVISION	30-015-108	
<i></i>	District III 1220 Sc	outh St. Francis Dr.	5. Indicate Type of Lease	
精合	1000 Rio Brazos Rd., Aztec, NM 87410	a Fe, NM 87505	6. State Oil & Gas Lease	PEE
	District IV Santa Fe, NM		0. State Off & Gas Lease	INO.
	87505			
	SUNDRY NOTICES AND REPORTS	S ON WELLS	7. Lease Name or Unit Ag	reement Name
	(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO I	DEEPEN OR PLUG BACK TO A	Gerard A	
	DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (I	FORM C-101) FOR SUCH	8. Well Number	
	PROPOSALS.) 1. Type of Well: Oil Well Gas Well	Other RECEIVED	1	
	2. Name of Operator	Other RECEIVED	9. OGRID Number	
	Yates Petroleum Corporation	JUL 1 3 2005	025575	
25	3. Address of Operator		10. Pool name or Wildcat	
5	105 S. 4 th Street, Artesia, NM 88210	ODD-ARTEDIA	Penasco Draw San A	andres Yeso
	4. Well Location		_ 1	
	Unit Letter O : 990 feet from the	South line and	1650 feet from the	East line
	Section 25 Township	18S Range 25E		County
	11. Elevation (Sno)	w whether DR, RKB, RT, GR, etc 3458'GR		
	Pit or Below-grade Tank Application 🗌 or Closure 🗌	5456 GR		
6	Pit type Depth to Groundwater Distance from	nearest fresh water well D	istance from nonvest surface meter	
	Pit Liner Thickness: mil Below-Grade Tank	: Volumebbls; C	Construction Material	
	12. Check Appropriate Box to	o Indicate Nature of Notice	, Report or Other Data	
1		1	-	
	NOTICE OF INTENTION TO:		BSEQUENT REPORT	
	PERFORM REMEDIAL WORK PLUG AND ABAND			ING CASING
2	TEMPORARILY ABANDON CHANGE PLANS			ND ABANDON 🔲
	PULL OR ALTER CASING 🔲 MULTIPLE COMPL			
				_
_	OTHER: 13. Describe proposed or completed operations. (Clo	OTHER:	nd give nortinent dates	
	of starting any proposed work). SEE RULE 110	3 For Multiple Completions: A	ttach wellbore diagram of pr	ang estimated date
	or recompletion.	o. For Multiple Completions. A	Reach wendore diagram of pr	oposed completion
	*			
	Yates Petroleum Corporation plans to plug and abandon the	his well as follows:		
	1. MIRU all safety equipment necessary.			
	2. Set a 4-1/2" CIBP at 1160' with 35' cement on top.			
	3. Spot 25 sx cement at 766'.			
	4. Spot 15 sx cement from 150' to surface.			
Ŷ	6. Cut off wellhead and install marker.			
	NOTE: Yates Petroleum Corporation will use steel pits a	nd we earth nite		
	HOTE. Thes Terroleum Corporation with use steer pils a	na no earth plas		
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				
3				
	I hereby certify that the information above is true and com	plete to the best of my knowledge	ge and belief. I further certify t	hat any nit or below-
	grade tank has been/will be constructed or closed according to NMC	CD guidelines , a general permit] or an (attached) alternative OCE	-approved plan [].
	· // /			
	SIGNATURE Juna Jurta	TITLERegulatory Compli	ance Supervisor DATE	July 11, 2005
·····································	Type or print name <u>Tina Huerta</u> E-r	mail address: <u>tinah@ypcnm.c</u>	com Telephone No	505-748-1471
ά¢.	For State Use Only			
-	APPROVED BY:	TITLE Field S	upervisor DATE	JUL 14 2005
	Conditions of Approval (if any):		DATE DATE	
	······································			
S				

a series

Submit 3 Copies To Appropriate District Office '		lew Mexico	Form C-10
District I	Energy, Minerals a	nd Natural Resources	May 27, 200 WELL API NO.
1625 N. French Dr., Hobbs, NM 88240 - District II			30-015-10800
1301 W. Grand Ave., Artesia, NM 88210		ATION DIVISION	5. Indicate Type of Lease
District III 1000 Rio Brazos Rd., Aztec, NM 87410		St. Francis Dr.	STATE STATE STATE
District IV	Santa Fe,	NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505	•		
	TICES AND REPORTS ON	WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROP	OSALS TO DRILL OR TO DEEP	EN OR PLUG BACK TO A	Gerard AW
DIFFERENT RESERVOIR. USE "APPI	ICATION FOR PERMIT" (FORM	C-101) FOR SUCH	8. Well Number
PROPOSALS.) 1. Type of Well: Oil Well	Gas Well 🗌 Othe	P&A RECEIVED	1
2. Name of Operator			9. OGRID Number
Yates Petroleum Corpora	ition	NOV 1 0 2005	025575
 Address of Operator 105 S. 4th Street, Artesia 	NM 88210	ocu-ari Bou	10. Pool name or Wildcat Penasco Draw San Andres Yeso
4. Well Location			
Unit Letter O :	990 feet from the	South line and	1650 feet from the East line
Section 25			NMPM Eddy County
	11. Elevation (Show wh		
		3458'GR	
Pit or Below-grade Tank Application			
	ter Distance from near	est fresh water well D	istance from nearest surface water
Pit Liner Thickness: m	il Below-Grade Tank: Vol	umebbls; (Construction Material
12. Check	Appropriate Box to Inc	licate Nature of Notice	, Report or Other Data
		· .	-
	NTENTION TO:		
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WO	RK 🛛 ALTERING CASING [
PERFORM REMEDIAL WORK	PLUG AND ABANDONCHANGE PLANS	REMEDIAL WO COMMENCE DI	RK ALTERING CASING [RILLING OPNS.] PLUG AND ABANDON [
PERFORM REMEDIAL WORK	PLUG AND ABANDONCHANGE PLANS	REMEDIAL WO COMMENCE DI	RK ALTERING CASING [RILLING OPNS.] PLUG AND ABANDON [
PERFORM REMEDIAL WORK [TEMPORARILY ABANDON [PULL OR ALTER CASING [OTHER:	PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPL	REMEDIAL WO COMMENCE DI CASING/CEMEN OTHER:	RK ALTERING CASING [RILLING OPNS.] PLUG AND ABANDON [NT JOB
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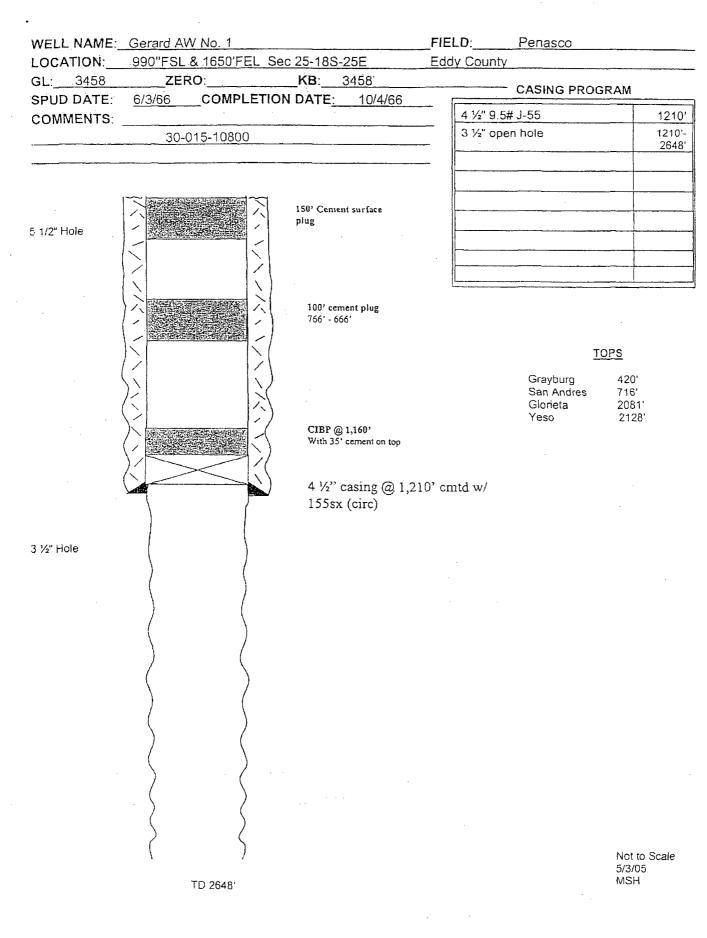
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Submit 3 Copies Submit 3 Copies to Appropriate District Office DISTRICT 1 P.O. Box 1980, Hobbs, NM 88240 DISTRICT II P.O. Drawer DD, Artesia, NM 88210 DISTRICT III P.O. Drawer DD, Artesia, NM 88210 DISTRICT III 1000 Rio Brazos Rd., Azzec, NM 87410 State of New Energy, Minerals and Natura OIL CONSERVAT P.O. Box Santa Fe, New Mexi Santa Fe, New Mexi			Form C-103 Revised J-1-89 C/C WELL API NO. 30-015-21463 S. Indicate Type of Lease STATE FEE X 6. State Oil & Gas Lease No.	
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I. Type of Well: OIL OAS WELL WELL			Anderson	
2. Name of Operator		·	8. Well No.	
Anadarko Petroleum Corporation				
PO Drawer 130, Ar	tesia, NM 88211-0	130	9. Pool name or Wildcat Boyd Morrow (Gas)	
4. Well Location	<u></u>		<u>,</u>	
Unit Letter :	980 Feet From The Sou	th Line and 198	30 Feet From The East Lin	
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Start Four

C-103 (Continued) Anderson #1

6. Shoot off 2 7/8" tbg at 5800' and pull. Shoot off 4½" casing at 5685' and pull.

7. GIH with 2 7/8" tbg and spot 35 sks of Class H cement with 2% CaCl from 5735' up to 5585'. WOC.Tag plug. This plug covers 4½" casing stub and Wolfcamp formation top.

- 8. Spot 30 sx Class H with 2% CaCl from 3920' up to 3820'. WOC. Tag plug. This plug covers base of salt.
- 9. Spot 30 sks Class H with 2% CaCl from 1370' up to 1270'. WOC. Tag plug. This plug covers 8 5/8" casing shoe.
- 10. Spot 30 sks Class H with 2% CaCl from 510' up to 410'. This plug covers 13 3/8" casing shoe.
- 11. Spot 50' surface plug.

1. Can 4

12. Cut off all casing and anchors. Set P&A marker. Clean and rip location.

Submit 3 Copies tc: Appropriate District Office	State of New Mer Energy, Minerals and Natural Re		5	Form C-103 Revised 1-1-89	
DISTRICT I P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVATIO P.O. Box 208		WELL API NO. 24/14	Ĩ,	
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Mexico 87504-2088			30-015-21463 5. Indicate Type of Lease	
DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410		MAR	6. State Oil & Gas Lease No	TE FEE X	
SUNDRY NOTICES AND REPORTS ON WELLS { DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A					
DIFFERENT RESE (FORM C	DPOSALS TO DRILL OR TO DEEPEN RVOIR. USE "APPLICATION FOR PEF -101) FOR SUCH PROPOSALS.)		7. Lease Name or Unit Agre	ement Name	
I. Type of Well: OI. OAS WELL WELL X	OTHER		Anderson		
2. Name of Operator	and a second	er en	8. Well No.		
Anadarko Petroleum 3. Address of Operator	Corporation		9. Pool name or Wildcat		
PO Drawer 130, Art	esia, NM 88211-0130		Boyd Morrow	Gas)	
	80 Feet From The South	Line and198	BO Feet From The	East Line	
Section 1	Township 195 Rat	25E	NMPM	Eddy County	
	10. Elevation (Show whether) 3413.9 GL	UF, KKB, KI, GK, elc.)			
	Appropriate Box to Indicate N	Nature of Notice, R	eport, or Other Data		
NOTICE OF IN	FENTION TO:	SUE	SEQUENT REPOR	IT OF:	
		REMEDIAL WORK		NG CASING	
	CHANGE PLANS	COMMENCE DRILLING	G OPNS. 🔲 PLUG A		
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OTHER:		OTHER:	······································	[]	
	ntions (Clearly state all pertinent details, an	d give pertinent dates, inclu	iding estimated date of starting a	nny proposed	
work) SEE RULE 1103. Note: This well had attached well	collapsed and part diagram.	ed 4½" casine	g when started	plugging. See	
plug in 1.81" p 2. Perforated 4 ho set at 8400'. S 1% HR-7 down co	d tbg unit. TOH wit rofile 9089'. les in 2 7/8" tbg a potted 28 sx Class iled tbg and out pe tbg and pker. WOC	t 9080'. WIH H cement with rfs in tbg,	with pker on o h 1% Halad 322 from 9080' up f	coiled tbg and and 2/10 of to 8640'.	
plug covers Mor 4. Rigged down coi 8224' up to 707 up 4½" casing. Canyon and Penn	row top. led tbg unit. RUPU. 5' by pumping down WOC. Tagged top of tops. (Cont'd)	Spotted 73 2 7/8" tbg. plug at 7063 page 2	sx Class H with Out hole in the	n 2% CaCl from g at 8224' and	
I hereby certify that the information above is to SIGNATURE 112 Margaret	ue and complete to the best of my knowledge and	beld. LE Field For	eman DAT	03-01-94	
TYPE OR FRINT NAME Mille	Braswell		रषा प्र	PHONE NO. 505-677-24	
(This space for State Use)					
mourner miles Switch	00	LE Field Repo	r	JUNC 9-94	
CONDITIONS OF AFFRD VAL, F ANY:			DATI /)		
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Form C-103 PAGE 2 Anadarko Petroleum 03-01-94

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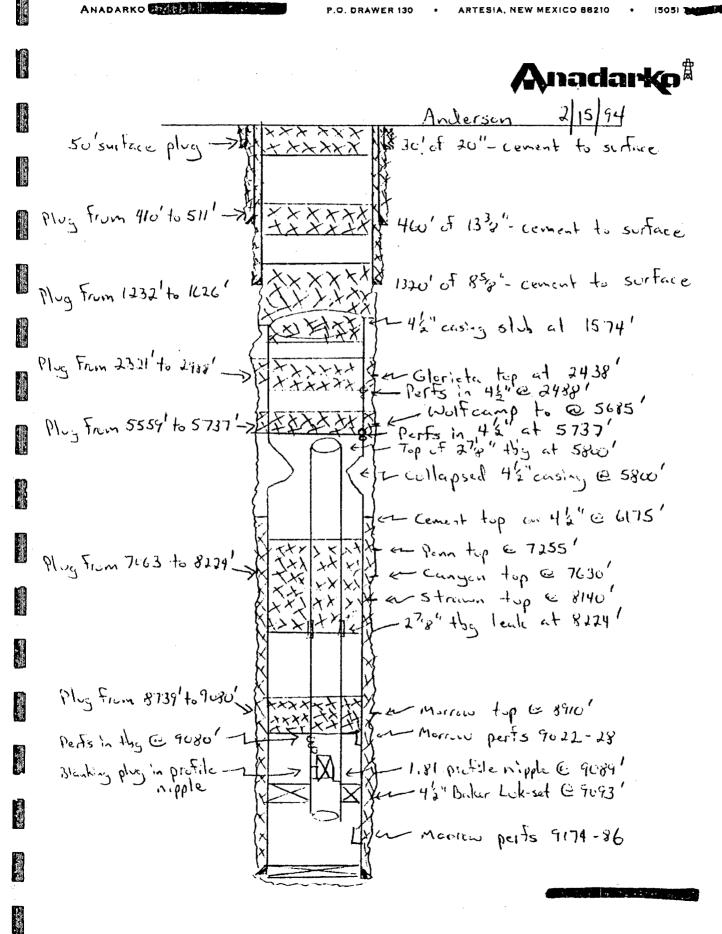
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- Cut off 2 7/8" tbg at 5800'. TOH with tbg. Pulled on 45" and found parted. 5. Recovered 1574' of 4½" casing.
- WIH with overshot on 4½" casing and tied casing back together. 6.
- WIH with pker on 2 3/8" tbg and set at 5328' KB. Pressured to 2000#. 7. Held. WIH with perf gun thru tbg and shot 4 holes in 45" casing at 5737'. Cement squeeze with 84 sx Class H with 2% CaCl from 5737' up to 5500'. WOC. Tagged top of plug at 5726'. Not enough plug.
- Spotted 12 sx Class H with 2% CaCl from 5721' up to 5559'. TOH. This plug 8. covers Wolfcamp top.
- Perforated 4 holes in casing at 2488'. WIH with pker and set at 2200'. 9. Spotted 66 sx Class H with 2% CaCl in and out of 4%" casing from 2488' up to 2300'. WOC. Tagged top of plug 2321'. TOH. This plug covers Glorieta top.
- Unset overshot on $4\frac{1}{2}$ " casing and TOH with 1574' of casing. 10.
- WIH with 2 3/8" tbg open ended and spotted 200 sx Class H with 2% CaCl 11. from 1626' up to 1150'. WOC. Tagged top of plug at 1232'. This plug covers 4½" stub and 8 5/8" casing shoe. Pulled up and spotted 30 sx Class H from 511' up to 410'. This plug
- 12. covers 13 3/8" casing shoe.
- 13. Pulled up and spotted 50' surface plug 02-08-94. RDPU.
- 14. Cleaned location and set P&A marker. Will do surface restoration as per agreement with land owner (Ralph Schafer).
 - Note: Salt gel mud is between all plugs and Johnny Robinson, with NMOCD, witnessed plugging of well.



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APPENDIX D

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Identification of Lessees, Surface Owners and other Interested Parties for Notices; Copies of Notice Letters and Certified Mail Receipts; Copy of Draft Public Notice for Hearing

TABLE D-1

OPERATORS WITHIN ONE MILE RADIUS OF AGAVE METROPOLIS DISPOSAL #1 WELL

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 Agave Energy Co 105 South 4th Street Artesia, NM 88210

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 Yates Petroleum Corporation 105 South 4th Street Artesia, NM 88210

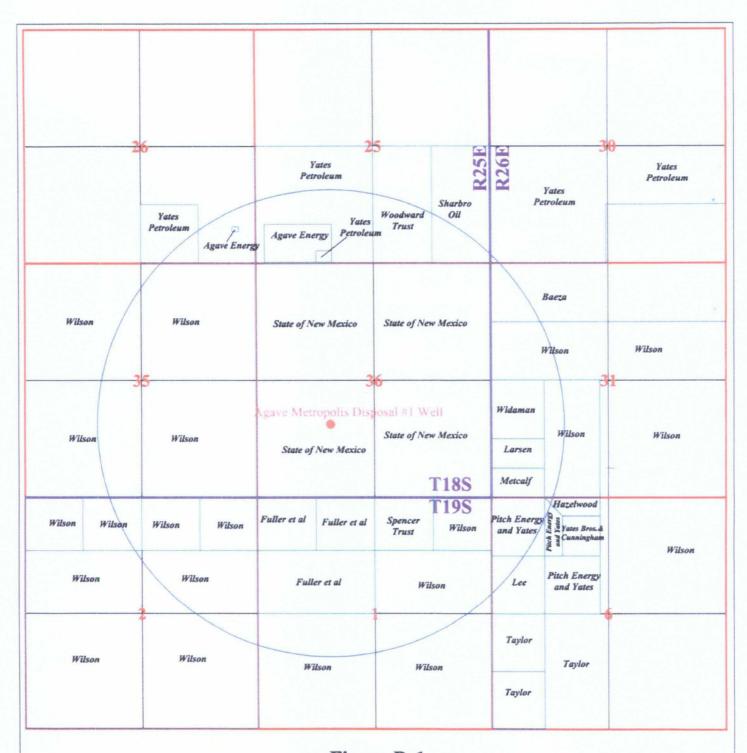


Figure D-1 Approximate Locations of Surface Owners Within One Mile of Agave Metropolis Disposal #1 Well

TABLE D-2

SURFACE OWNERS WITHIN ONE MILE RADIUS OF AGAVE METROPOLIS DISPOSAL #1 WELL

Section 36, Township 18 South, Range 25 East

State of New Mexico State Land Office 310 Old Santa Fe Trail P. O. Box 1148 Santa Fe, NM 87504

Section 35, Township 18 South, Range 25 East

Thomas & Wanda Wilson David & Diana Wilson 235 North Lake Rd. Artesia, NM 88210

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Section 26, Township 18 South, Range 25 East

Agave Energy Company 105 South 4th Street Artesia, NM 88210

Yates Petroleum Corporation 105 South 4th Street treet Artesia, NM 88210

Section 25, Township 18 South, Range 25 East

Sharbro Oil Company, LTD P. O. Box 840 Artesia, NM 88211

Woodward Trust Jeri & Dale Woodward 4748 Elder Avenue Seal Beach, CA 90740

Yates Petroleum Corporation 105 South 4th Street Artesia, NM 88210 Small square in SE/4 on map .57 acre tract in SE/4

SE/4 Less & Except a .57 acre tract

E/2 SE/4

W/2 SE/4

2.17 acre tract in SW/4 Tract 104-25.7 on map

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TABLE D-2 SURFACE OWNERS

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25.38 acre tract in SW /4 Agave Energy Company 105 South 4th Street Tract 104-25.8 on map Artesia, NM 88210 Yates Petroleum Corporation SW/4 less & except 105 South 4th Street 2 above tracts Artesia, NM 88210 Section 30, Township 18 South, Range 26 East Yates Petroleum Corporation SW/4 105 South 4th Street Artesia, NM 88210 Section 31, Township 18 South, Range 26 East Efren & Maria Baeza N/2 N/2 314 N. 14th Artesia, NM 88210 Thomas & Wanda Wilson S/2 NW/4; E/2 SW/4 David & Diana Wilson 235 North Lake Rd. Artesia, NM 88210 Blanche Widaman NW/4 SW/4 Wells Fargo Bank Industry Consulting Group Inc. P. O. Box 810490 Dallas, TX 75381 H. D. Larsen N/2 SW/4 SW/4 % Greta Edington $1715 - 20^{\text{th}}$ Street Gering, NE 69341 Ronald Metcalf S/2 SW/4 SW/4 P. O. Box 37 South Valley Road Palmer Lake, CO 80133

Page 2

TABLE D-2SURFACE OWNERS

Section 6, Township19 South, Range 26 East

Jim & Sandra Hazelwood P. O. Box 507 Troy, MT 59935

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Pitch Energy Corporation & Yates Petroleum Corporation 105 South 4th Street Artesia, NM 88210

Dwight M. Lee % Cindy McDermid 11177 Captains Cove Drive Soddy-Daisy, TN 37379

Section 1, Township 19 South, Range 25 East

Thomas & Wanda Wilson David & Diana Wilson 235 North Lake Rd. Artesia, NM 88210

Glenn R. Fuller 18495 Starduster Drive Nevada City, CA 95959

Section 1, Township 19 South, Range 25 East (continued)

B. E. Spencer Trust First National Bank P. O. Drawer AA Artesia, NM 88211

Section 2, Township 19 South, Range 25 East

Thomas & Wanda Wilson David & Diana Wilson 235 North Lake Rd. Artesia, NM 88210 10 acre tract in Lot 3

10 acre tract in Lot 3 & All Lot 4

Lot 5

S/2; S/2 NE/4; NE/4 NE/4

NW/4

Lot 2

All

Page 3

TABLE D-3

LÉASE HOLDERS WITHIN ONE MILE RADIUS OF AGAVE METROPOLIS DISPOSAL #1 WELL

1. Yates Petroleum Corporation 105 South 4th Street Artesia, NM 88210 (575) 748-1741

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Section 36-Township18S-Range 25E NE/4; SW/4 NW/4; SE/4 NW/4; NW/4 NW/4; NE/4 NW/4; NE/4 SE/4

Section 35-Township 18S-Range 25E S/2; N/2

Section 26-Township 18S-Range 25E SE/4

Section 25-Township18S-Range 25E SW/4; SE/4

Section 30-Township 18S-Range 26E SW/4

Section 31-Township 18S-Range 26E W/2

Section 6-Township 19S-Range 26E N/2

Section 2-Township 19S-Range 25E N/2

Section 1-Township19S-Range 25E S/2 NE/4; E/2 SE/4 Lease #VO-6141-0000 Lease # E1-0165-0001

(Yates, Abo, Myco and Marbob all hold leases)

Table D-3 Lease Holders

2. Chase Oil Corporation P. O. Box 1767 Artesia, NM 88210 (575) 746-9853

> Section 36-Township 18S-Range 25E; SW/4; NW/4 SE/4; SW/4 SE/4; SE/4 SE/4

Section 1-Township 19S-Range 25E NE/4 NE/4; W/2 SW/4; NW/4; W/2 SE/4; E/2 SW/4

3. Marbob Energy Corporation P. O. Box 227 Artesia, NM 88211

> Section 1-Township 19S-Range 25E S/2 NE/4; E/2 SE/4

4. DMD LLC P.O. Box 300 Artesia, NM 88211 (575) 746-2953

> Section 1-Township 19S-Range 25E NE/4 NE/4; W/2 SW/4

5. Abo Petroleum Corporation 105 South 4th Street Artesia, NM 88210

> Section 1-Township 19S-Range 25E S/2 NE/4; E/2 SE/4

6. Myco Industries, Inc. 105 South 4th Street Artesia, NM 88210

Section 1-Township 19S-Range 25E S/2 NE/4; E/2 SE/4 Lease #VO-8443-0000

(DMD LLC also has a lease on this tract)

(Yates, Abo, Myco and Marbob all hold leases)

(Chase Oil also has a lease on this tract)

(Yates, Abo, Myco and Marbob all hold leases)

(Yates, Abo, Myco and Marbob all hold leases)

Page 2

TABLE D-4

MINERAL OWNERS OF ONLY UNLEASED TRACT WITHIN ONE MILE RADIUS OF AGAVE METROPOLIS DISPOSAL #1 WELL

Section 1-Township 18S-Range 25E NW/4 NE/4

1. B. E. Spencer Trust First National Bank P. O. Drawer AA Artesia, NM 88211

1. S. S. S.

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- Wyatt A. Hartman
 W. B. Hickey
 Rt. #1 Box 181-A
 Chattahoochee, FL 32324
- Roy Hartman % Letha J. Hartman, 11025 Larkwood Apt. # 1701 Houston, TX 77096
- Margaret J. Carter
 2032 Medusa Way
 Sacramento, CA 95825
- William Harold Robinson % Margaret J. Carter 2032 Medusa Way Sacramento, CA 95825
- Frances M. Mohr % Margaret J. Carter 2032 Medusa Way Sacramento, CA 95825

- 7. Spitler Family Trust
 % Homer Edward Spitler & Mildred Ilene Spitler
 30315 Santa Fe Street Hemet, CA 92343
- Martha Jane Ford 3520 Roselawn Glendale, CA 91208
- Parrish Family Trust
 % James Paul Parrish & Carole D. Parrish
 1702 Paloma Avenue
 Glendale, CA 91208

TABLE D-5

RESIDENCES AND BUSINESS FACILITIES WITHIN ONE MILE RADIUS OF AGAVE METROPOLIS DISPOSAL #1 WELL

Section 31, Township 18 South, Range 26 East

- 1. Efren & Maria Baeza, 179 West Kincaid Ranch Road, Artesia, NM (Physical Address)
- 2. Raul and Delilah Baeza, 193 West Kincaid Ranch Road, Artesia, NM (Physical Address)
- 3. Christine Baeza, 175 West Kincaid Ranch Road, Artesia, NM (Physical Address)

Mailing Address: 314 North 14th Street, Artesia, NM 88210

Section 25, Township 18 South, Range 25 East

4. Yates Petroleum Corporation 105 South 4th Street Artesia, NM 88210

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5. Agave Energy Corporation 105 South 4th Street Artesia, NM 88210

Section 26, Township 18 South, Range 25 East

6. Agave Energy Corporation 105 South 4th Street Artesia, NM 88210

.57 acre tract in SE/4 (tract 104-26.2 on map)

7. Yates Petroleum Corporation 105 South 4th Street Artesia, NM 88210

Section 35, Township 18 South, Range 25 East

E/2; Home and Barns

8. David Wilson 80 West Kincaid Ranch Rd., Artesia, NM (Physical Address) Mailing Address: 235 North Lake Rd., Artesia, NM 88210

OTHER AGENCIES REQUIRING NOTICE

9. US Bureau of Land Management Carlsbad Field Office 620 East Greene Street Carlsbad, NM 88220-6292

10. New Mexico State Land Office (included in notice to surface owners within one mile radius)

2.17 acre tract in SW/4; (tract 104-25.7 on map) Office & Warehouse

25.38 acre tract in SW/4 (tract 104-25.8 on map) Gas Processing Plant

N/2 N/2; Residences

Compressor Station SE/4; Four Warehouse Buildings December 20, 2010

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Generic Notified Party Mailing Address City, State Zip Code

VIA CERTIFIED MAIL RETURN RECEIPT REQUESTED

RE: Agave Energy Company Application

This letter is to advise you that Agave Energy Company ("Agave") filed the enclosed application on December 20, 2010 with the New Mexico Oil Conservation Division ("NMOCD" or "the Division"). The application requests authority to inject acid gas and carbon dioxide (CO₂) into Agave's existing Metropolis Disposal #1 Well (API No. 30-015-31905). The well is located approximately 8 miles southwest of Artesia, New Mexico, between the Rio Peñasco and Four Mile Draw. More specifically, it is located 1,650 feet from the West line and 1,650 feet from the South line of Section 36, Township 18 South, Range 25 East, in Eddy County, roughly one mile south of Agave's Dagger Draw Processing Plant.

Agave proposes to recomplete and modify the Metropolis Disposal #1 Well in a manner that will ensure safe injection. The proposed injection would be into the basal Devonian, the Fusselman and the Montoya Formations through an injection interval from 9,930 to 10,500 feet. Agave proposes a maximum injection pressure of 3,300 psi and a maximum daily injection rate of 205 barrels. The recompleted well will serve as the disposal well for acid gas currently being flared at the Dagger Draw Processing Plant.

This application has been set for hearing before a Division Examiner at 8:15 am on Thursday, January 20, 2011 in Porter Hall at the NMOCD's Santa Fe office located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an owner of an interest that may be affected by Agave's application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging the application at a later date.

A party appearing at the hearing is required by the Division's rules to file a Pre-Hearing Statement with the NMOCD's Santa Fe office no later than January 13, 2011. This statement must be served on counsel for Agave and on all other parties and should include: your name and the name of your attorney, if any; a concise statement of the case; the names of all witnesses you will call to testify at the hearing; the approximate time you will need to present your case; and an identification of any procedural matters that need to be resolved prior to the hearing. Generic Notified Party December 20, 2010 Page 2

If you have any questions concerning this application, you may contact Mr. Alberto Gutierrez at (505) 842-8000 at Geolex, Inc. 500 Marquette Avenue NW, Suite 1350, Albuquerque, New Mexico 87102 or Agave's counsel, Mr. Thomas Hnasko, at (505) 982-4554 at Hinkle, Hensley, Shanor & Martin, LLP, 218 Montezuma, Santa Fe, NM 87504.

Sincerely, Geolex, Inc.

Alberto A. Gutiérrez, C.P.G. President Consultant to Agave Energy Company

Enclosure

AAG/lh

C:\ Projects\10-009\Reports\C-108\Notices\Final Agave Notice Letter.docx

AGAVE ENERGY COMPANY DRAFT PUBLIC NOTICE FOR HEARING

Case No. ______: *Application of Agave Energy Company for authority to inject, Eddy County, New Mexico.* Agave Energy Company requests an order authorizing it to inject acid gas and carbon dioxide (CO₂) from the Dagger Draw Processing Plant into its Metropolis Disposal #001 Well (API No. 30-015-31905). The well is located in Section 36, Township 18 South, Range 25 East, NMPM, in Eddy County, New Mexico. Agave Energy seeks approval to recomplete the Metropolis Disposal #001 Well and inject acid gas and CO₂ into the basal Devonian, Fusselman and Montoya formations in an injection interval from 9,930 feet to 10,500 feet, and approval of a maximum injection pressure of 3,300 psi and a maximum daily injection rate of 205 barrels. The Metropolis Disposal #001 well is located eight (8) miles southwest of Artesia, New Mexico.

APPENDIX E

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H₂S Contingency Plan Rule 11 Plan

H₂S Contingency Plan

Agave Dagger Draw Processing Plant and the Metropolis Disposal #1 Well

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Agave Energy Company

105 South 4th Street Artesia, NM 88210 (575-748-4555)

December 20, 2010

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 VI. Facility Description, Maps, and Drawings [AC [19.15.11.9.B(2)(c)][API RP-55 7.4 c.]. A. Dagger Draw Processing Plant B. Metropolis Disposal #1 Well C. Map of Plant and Well 	14
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X. Submission of H₂S Contingency Plans

A. Submission

B. Retention

C. Inventory

MAPS AND FIGURES

- Map 1 Agave Dagger Draw Plant Facilities Locations
- Map 2 General Diagram of Agave Dagger Draw Gas Plant and Location of Pipeline Connecting Plant with Metropolis Disposal #1 Well

Figure 1 Photos of Pipeline

APPENDICES

Appendix A – Facility Maps and Drawings

- Map A-1: Facility Map
- Map A-2: Alarms and Monitors, Dagger Draw Active Equipment
- Map A-3: Safety and Fire Equipment, Dagger Draw Active Equipment
- Map A-4: Evacuation Router, Dagger Draw Active Equipment
- Map A-5: Proposed Perimeter Alarms
- Map A-6: Metropolis Disposal #1 Well

Appendix B – Response Flow Diagram

Appendix C – ROE Calculations

Map C-1: Facility, Pipeline and Well Site ROE

Appendix D – Muster Areas and Evacuation Routes Map D-1: Evacuation Routes to Muster Areas

Appendix E – Distribution List

Agave H₂S Contingency Plan

OPERATOR QUICK REFERENCE GUIDE

Dagger Draw Processing Plant Level 1 Response FOR PLANT_OR WELLHEAD ALARMS

H₂S Detected Greater than 10 ppm H₂S Intermittent Audible Alarm and flashing amber lights

- Evacuate to Emergency Assembly Area
- Evacuate visitors from plant to designated Muster Area
- Notify Agave Management
- Assign operators to suit up in SCBA
- Check Computer for location of H₂S alarm
- Notify all entities in the 500 ppm ROE when perimeter monitors reach 10 ppm H₂S
- Wearing SCBA attempt to locate and repair leak
- Rotate Operators in 15 minute shifts • If H_2S levels exceed 10 ppm H_2S in
- emergency muster area relocate to alternate muster area

If H₂S levels exceed 20 ppm H₂S proceed to Level II response



Once resolved and monitored levels in plant are less than 10 ppm H₂S return to plant and continue to monitor

Location of Facilities

Agave Dagger Draw Processing Plant (See Map 1)

Go south of Artesia, NM on Hwy 285 approximately 9 miles to County Road 38 (Kincaid Ranch Road). Turn right (west) on Kincaid Ranch Road and go approximately 2.8 miles to Pipeline Road. Turn right (north) and go 0.2 miles to the Dagger Draw Gas Plant Office. Physical address is 278 Pipeline Road, Artesia, NM 88210. Section 25-Township 18S-Range 25E

Metropolis Disposal #1 Well (See Map 1)

Go south of Artesia, NM on Hwy 285 approximately 9 miles to County Road 38 (Kincaid Ranch Road). Turn right (west) on Kincaid Ranch Road and go 2.6 miles (just past the Agave Field Office). Turn left (south) on dirt lease road and go approximately 0.6 miles then turn left (east) and go 0.2 miles to the Metropolis Disposal #1 Well. Section 36-Township 18S-Range 25E

Emergency Trailer – Atoka Facility Location (See Map 1)

From Artesia, drive south on Highway 285 to County Road 39. Turn east and drive approximately 2 miles. The facility is on the south side of the road in NW/NE Sec 14 18S 26 E.

I. Introduction

[API RP-55 7.1]

The Agave Dagger Draw Processing Plant is a natural gas processing plant which handles and/or generates hydrogen sulfide (H_2S) and/or sulfur dioxide (SO_2). This H_2S contingency plan was created to outline procedures that are to be followed in the event of an H_2S release that occurs at the plant, the acid gas well, or on the acid gas pipeline. The response plan is the same regardless of where the release takes place. This plan complies with the New Mexico Oil Conservation Division (OCD) Rule 11. This plan also conforms to API RP-55.

II. Scope

[API RP-55 7.2]

This contingency plan is specific to the Agave Dagger Draw Gas Processing Plant and acid gas injection system. This plan contains procedures to provide an organized response to an unplanned release from the plant, well site and pipeline connecting them.

III. Plan Availability

[API RP-55 7.3]

This contingency plan shall be available to all personnel responsible for implementing any portion of the plan. Copies of the plan will be distributed to the following agencies: New Mexico Oil Conservation Division (OCD), New Mexico Department of Public Safety, Local Emergency Planning Committee (LEPC), Artesia Fire Department, Atoka Fire Department, Artesia Police Department, and Eddy County Sheriff's Department. The Plan will be available at the following Agave Energy Company locations: Dagger Draw Processing Plant, the Artesia Field Office, Emergency Response Trailer at Atoka (Map 1) and the Agave Main Office in Artesia.

IV. Emergency Procedures

[NMAC 19.15.11.9.B(2)(a)] [API RP-55 7.4 a]

A. Responsibilities and Duties of Personnel during an Emergency

1. Plant Manager or designee will serve as the Incident Commander (IC); is responsible for training operators assigned to the plant, contractors and visitors on the implementation of this plan; and will maintain communication with Agave management and residents within the radius of exposure (ROE).

2. Plant Supervisor or designee will serve as the Incident Commander (IC) in the absence of the Plant Manager; is responsible for training and supervising plant operators on the implementation of this plan, will maintain accountability of all contractors and visitors; and will maintain communication with the plant manager and Agave management.

3. Plant Operators will perform operations in accordance with this safety plan; assist in the accountability and evacuation of visitors and contractors to designated muster areas; and keep the plant supervisor and manager informed on the repair progress.

4. Essential Agave Personnel will be familiar with the procedures in this plan and assist plant operators in assisting with the implementation of this plan in a safe manner.

5. Visitors and contractors on site will be familiar with safety alarms and signals at the Dagger Draw Gas Processing Plant and the acid gas injection system; and adhere to instructions of Plant Operators and other Agave personnel in evacuation of the facilities.

Agave H₂S Contingency Plan

December 20, 2010

B. Immediate Action Plan

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1. The following outlines the immediate action Plan that is illustrated by the response flow diagram in Appendix B. This is to be used when responding to an H_2S release. Response levels are the same for a release at the plant or the acid gas well. Additional or long term response actions will be determined on a case-by-case basis, if needed, once the Incident Command Center (ICC) and System (ICS) are established following the immediate response.

Level	Alarms	Actions
I	Intermittent	1. The audible signal for a Plant emergency and evacuation is an intermittent alarm
	audible alarm	and yellow lights (repeating off/on) activated when levels of H ₂ S of 10 ppm or
	sounded	greater are detected. In addition, a flashing yellow light or beacon will be activated
	and/or	at 10 ppm or greater of H ₂ S. A computer in the control room and in the Plant
	flashing	Supervisor office establishes which H ₂ S monitor has activated the alarm and/or
	yellow lights	flashing yellow beacon, be it a plant monitor or well monitor. At the initial sound of
	activated for	the intermittent alarm or the flashing yellow beacon, assigned operators will put on
Ì	H₂S at 10	a 30 minute self-contained breathing apparatus (SCBA) and all other personnel in
	ppm or	the Plant complex or well site shall immediately evacuate the Plant or well site to
	greater.	the Emergency Assembly Area. If H ₂ S concentrations are 10 ppm or greater, then
		personnel will evacuate to a designated Muster Area determined by the Incident
		Commander (IC) (see Appendix D). The operators, upon suit up with the self-
		contained breathing apparatus (SCBA), will first help any persons in distress
		evacuate to the Emergency Assembly Area. If deemed necessary by the Plant
		Manager or Plant Supervisor, local emergency response service providers will be
		contacted by Plant personnel designated by the Plant Manager or Supervisor.
		2. All entities within the 500 ppm radius of impact (ROE) will be notified (by
		telephone) of a release if the perimeter alarms are activated at 10 ppm H ₂ S or
		greater. Notification will be done by personnel designated by the Plant Manager or
		his designee. The nature of the release and status of containment will be
		conveyed. Businesses will be advised to report the incident to employees working
		near the Plant and to alert any third party contractors or service companies
+		working in the Plant vicinity or imminently scheduled to work in the vicinity of the
	-	release. All should be instructed to leave the area and not to enter/re-enter area
		until further notice. Operators will put on self-contained breathing apparatus
		(SCBA).
		3. Wearing the self-contained breathing apparatus (SCBA), the operator(s) will
		attempt to fix the cause of the release. The H_2S levels at the Emergency Assembly Area will be monitored with a hand held or personal monitor and with the fixed
		monitor.
		4. The Incident Commander (IC) will set up secondary re-entry team(s) with 30
		minute self-contained breathing apparatus (SCBA) to re-enter and resolve the
		situation. Re-entry will occur in 15 minute shifts at the direction of the Incident
		Commander (IC) until the problem is resolved or the emergency shut down (ESD)
		is activated. If H_2S levels in the Emergency Assembly Areas exceed 10 ppm H_2S ,
		evacuate to alternate Emergency Assembly Area and continue to monitor
		Emergency Assembly Area with personal or handheld H ₂ S monitors. If evacuation
		to Muster Area occurs, road blocks will be established near the Muster Areas on
		Kincaid and Pipeline Road. If release is resolved and monitored levels in the Plant
		are less than 10 ppm H_2S , personnel may re-enter the Plant. The Oil Conservation
		Division (OCD) shall be notified within four hours of any release that activates the
		Plan. If the release is not resolved and H_2S levels continue to increase, Level 2
		Response is indicated.

evels	Alarms	Actions
11	Intermittent	1. The intermittent alarm and red flashing lights indicate the detection of H ₂ S greate
	audible alarm	than or equal to 20 ppm. (Flashing yellow lights indicate a H2S release of 10 ppm of
	sounded	greater and they will change to red for a release of 20 ppm or greater.) A control
	and/or	
		panel in the Plant supervisor's office establishes which H_2S monitor has activated the
	flashing red	alarm and or flashing red beacon, be it a plant monitor or a well monitor. At the initia
	lights	sound of the intermittent alarm or observance of the flashing red beacons, th
	activated for	operators will exit to the Muster Area designated by the Plant Manager or h
	H ₂ S greater	designee. Other personnel in the Plant complex will put on emergency escape pack
	than 20 ppm	located throughout the plant, or well location and evacuate along with the operato
		using the evacuation routes to the Emergency Assembly Area and then to the Must
1	ан — С.	Area (see Appendix D) designated by the Plant Manager or designee. At the
		assembly area, the Plant Manager or designee will assign operators to put on a 3
		minute self-contained breathing apparatus (SCBA). Local emergency response
		service providers will be contacted by Plant Manager or designee.
		2. All other entities within the 100 ppm and 500 ppm radius of impact (ROE) will b
		contacted by phone and notified of release and asked to evacuate when a perimet
		monitor reads 10 ppm H2S or greater . All entities within the 100 ppm radius
		impact (ROE) will be contacted by phone and notified of release. The nature of the
		release and status of containment will be conveyed. Depending on release statu
		and prevailing wind conditions, some entities within the 100 ppm radius of impa
		(ROE) may be asked to shelter in place or evacuate. Notifications will include b
	-	are not limited to the following:
		a) Other entities within the 100 ppm radius of impact (ROE), depending on release
		status and prevailing wind conditions, will be asked to shelter in place. The
		entities will be instructed to close any windows and shut off any a
		conditioning/heating until further notice. In addition, they will be instructed
		contact other employees/residents not currently present and instruct them not
		enter/reenter the area until further instruction.
		b) If a perimeter monitor is activated, the LEPC and law enforcement will the second s
		contacted by phone and notified of the release and status of containment. The
		Incident Commander (IC) will assign personnel notification responsibility.
		3. Operator(s) with 30 minute self-contained breathing apparatus (SCBA) will asses
		the release and attempt to resolve it. If after 45 minutes on scene there is r
		resolution, the operator(s) will notify the Plant Manager to determine if the
	· .	emergency shut down (ESD) should be activated.
		4. If monitored H ₂ S levels at Muster Area exceed 10 ppm, evacuate to an alterna
		Muster Area. If deemed necessary, local emergency response service providers w
		be contacted by the Incident Commander (IC).
		a) Re-entry will occur in full self-contained breathing apparatus (SCBA) and in
		minute shifts at the direction of the IC until IC determines problem has been
		resolved or emergency shut downs (ESDs) are activated.
		b) If release is resolved and monitored levels of H ₂ S in the Plant are less than
		ppm, personnel may return to Plant. The Oil Conservation Division (OCD) shall
		notified within four hours of any release that activates the Plan. All entitie
		previously notified will be informed that the release has been resolved an
		advised of the current monitored H_2S levels at the Plant.
		c) No resolution requires activation of full H_2S Plan with notifications and reporting
		as per Plan. If the release is not resolved and/or H_2S levels continue to increas
ł		
		Level 3 Response is indicated.
		d) Monitoring will continue after problems are abated, at the direction of the Pla
		Manager.

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Level	Alarms	Actions
	Intermittent	1. If H_2S is at 20 ppm or greater and repair efforts at Level 2 have been
	audible alarm	unsuccessful, worst case scenario, and/or catastrophic release have occurred, then
	sounded	implement a Level 3 response.
	and/or	2. Road blocks will be set up near the Muster Areas on Kincaid Road and Pipeline
	flashing red	Road.
	lights activated for	3. All personnel shall have evacuated to a designated Muster Areas. Evacuation of all entities within the 500 ppm radius of impact (ROE) will have been confirmed.
	catastrophic	Implement full H_2S Plan with all notifications and public agency involvement.
	release; fire;	Notifications to all entities within the 100 ppm radius of impact (ROE) will include the
	or explosion	nature of the release and status of containment. Notifications will include but are not
		limited to the following:
	ESD alarm is	a) All businesses within the 100 ppm radius of impact (ROE) will be instructed to
	a continuous	immediately alert all company personnel, third party contractors and/or services
	siren with red,	companies working in the area, and those imminently scheduled to work in the
	amber, and	area, of the release and evacuation status of the Plant. They will be instructed to
1	blue lights that	immediately leave and/or not enter/reenter the area within the roadblocks until
	flash	further instruction.
		b) All other entities (including private residents) within the 100 ppm radius of
	· · · · · ·	impact (ROE) will be instructed to immediately shelter in place, if appropriate
		based on the source of the release and the wind direction. Those entities will be
		instructed to close any windows and shut off any air conditioning/heating until
		further notice. In addition, they will be instructed to contact other
		employees/residents not currently present to not enter/reenter the area until further instruction.
		c) The Incident Commander (IC) will make the decision based on, but not limited
		to, H_2S concentration and wind direction, whether a safe evacuation can be
		implemented, and recommend an evacuation route.
		4. If escaping vapors have ignited, the vapors should be allowed to continue to burn
		unless the fire endangers personnel, other property, or other equipment.
		5. When applicable, maintain communication with the Plant Manager, or his
		designee, to keep him up-to-date of the situation and the action taken prior to his
	1	arrival at the location.
		6. Initiate and maintain a Chronological Record of Events log.
		7. Within one hour after the activation of the H_2S Plan, begin agency notifications by
		calling Oil Conservation Division (OCD) and National Response Center (NRC).
		8. Establish media staging area adjacent to Muster Area 2 and direct all media to it.
		9. Once resolved and monitored levels in the Plant and at Muster Area are less than
		10 ppm, roadblocks will be removed, and all entities within the 100 ppm radius of
		impact (ROE) will be allowed to return. All entities previously notified will be informed
		that the release has been resolved and advised of the current monitored H_2S levels. 10. Monitoring will continue after problems are abated, at the direction of the Plant
		Manager
		11. Agency reports to be submitted as required.
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Agave H₂S Contingency Plan

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C. Telephone Numbers and Communication Methods 1. Emergency Services

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1. Emergency Services	
AGENCY	TELEPHONE #
Artesia Fire Department	(575) 946-5050
Atoka Fire Department	(575) 946-5050
Artesia Police Department	(575) 746-5000
Eddy County Sheriff	(575) 887-7551
Carlsbad Police Department	(575) 885-2111
State Police (HMER)	
District 3 Roswell	(575) 827-9312
Sub District 3 Carlsbad	(575) 885-3138
Sub District 3 Hobbs	(575) 827-9320
Ambulance Services	
Artesia	(575) 746-5050
Carlsbad	(575) 885-2111

	Artesia	(575) 746-5050
	Carlsbad	(575) 885-2111
Hospitals		
	Artesia General	(575) 748-3333
	Carlsbad Medical Center	(575) 887-4100
	Veterinarians	
	Artesia Animal Clinic	(575) 748-2042
	Livingston Animal Clinic	(575) 746-6167
Helicopter Services		
	Lifeguard (Albuquerque)	1-800-633-5438
	Southwest Medivac (Hobbs)	1-800-242-6199
	AeroCare (Lubbock)	1-800-627-2376
	Air Med (El Paso)	(915) 772-1449

2. Government Agencies

AGENCY	TELEPHONE #
Oil Conservation Division (OCD)	(505) 476-3440
	(575) 748-1283
US BLM	(575) 887-6544
Local Emergency Planning Committee (LEPC)	(575) 887-9511
National Response Center (NRC)	1-800-424-8802

3. Operators and Contractors

COMPANY	TELEPHONE #
CVE	(575) 746-3571
PVT	(575) 748-1241
DCP Midstream	(800) 435-1679
Chevron/West Texas Pipeline Company	(800) 762-3404
Transwestern Pipeline	(281) 714-2265
Yates Petroleum Corporation	(575) 748-1471

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Name	Address	TELEPHONE #
David and Diana Wilson	80 West Kincaid Ranch Road	(575) 457-2309
Raul and Delilah Baeza	193 West Kincaid Ranch Road	(575) 308-3195
Efrin and Maria Baeza	179 West Kincaid Ranch Road	(575) 513-0471
Christine Baeza	175 West Kincaid Ranch Road	(575) 457-2585

5. Agave Internal Call List

NAME	TITLE	Office #	Cell #
J.B. Smith	President	(575) 748-4414	(575) 365-8517
Rusty Nasta	Operations Manager	(575) 748-4523	(575) 626-7971
Ivan Villa	Engineering Supervisor	(575) 748-4528	(575) 365-4888
Jennifer Knowlton	Environmental Engineer	(575) 748-4528	(505) 238-3588
Robert Moorhead	Plant Manager/South Mechanical	(575) 748-6815	(575) 365-4840
	Supervisor		
Gary Greenwood	Plant Supervisor	(575) 748-8414	(575) 365-6794
Mark Smith	PSM Coordinator/Plant Operator	(575) 748-8410	(575) 365-5053
Dustin McNeely	Plant Operator	N/A	(575) 703-5493
Justin Troublefield	Plant Operator	N/A	(575) 365-7503
Glen Blake	Regulatory Coordinator	(575) 748-4546	(575) 626-8168
Bill Johnson	South Measurement Supervisor	(575) 748-6816	(575) 365-4615
Jason Fuentes	South Pipeline Supervisor	(575) 748-4518	(575) 365-8939

6. Agave Energy Company will use 2-way radios and telephones to communicate internally. Telephone will be used for external communication.

D. Location of Nearby Residences, Roads, and Medical Facilities

- 1. The following residences are located within the ROE of the: a) Plant — None
 - b) Metropolis Disposal #1 Well None
 - c) Pipeline None
- 2. The following roads are located within the ROE:
 - a) Kincaid Ranch Road

b) Pipeline Road

3. There are no medical facilities located within the ROE.

E. Evacuation Routes, Emergency Assembly Area, Muster Areas, and Road Block Locations

1. Evacuation Routes, Emergency Assembly Area, and Muster Areas are depicted on Map D-1 in Appendix D.

2. Pre-planned road block locations are designated near the muster areas on Pipeline Road and Kincaid Ranch Road and are depicted on Map D-1 in Appendix D. Each location will have pre-positioned, portable road barriers with lights. The locations will have flashing lights and warning signs. If the release is sufficient to require evacuation to muster areas, then roadblocks near the muster areas on Kincaid Ranch Road and Pipeline Road to the west and north of the facility, respectively, will be established. The Incident Commander (IC) will designate a representative to staff each of the two roadblocks. If deemed necessary by the Incident Commander (IC), the State or Local Police will be asked to assist with maintaining the roadblocks.

3. Emergency lights on the Muster Area signs will be activated by any <u>perimeter alarm</u> of 10 ppm or greater H_2S or Level III activation.

F. Monitoring Equipment, Alarm Systems, Safety Equipment, and Supplies Available 1. EMERGENCY SHUTDOWN SYSTEM: There are (8) ESD manual stations located at various points in the facility. See Maps A-2 and A-3 in Appendix A. The Plant ESD can be activated at any time by any employee or at the direction of the Incident Commander (IC).

When any one of the eight (8) manual stations is activated, the system will be shutdown and the natural gas inlets and outlets will be blocked. The operators are also able to auto close the one (1) main block valve on the incoming gas line to the Plant. Activating these should allow the plant to avoid a Level 3 response. The Incident Commander (IC) can send trained personnel to designated off-site manual block valves. There are also various methods to shut down gas flow at the various wellheads and incoming gathering lines. These can and would be evaluated on a case by case basis.

Designated employees will have remote access to the plant controls including ESD capabilities.

2. PLANT ALARMS, VISIBLE BEACONS & WIND INDICATORS: Colored beacons, horns, and wind direction indicators are located in various locations throughout the Plant and are indicated in Appendix A on Maps A-2, A-3, and A-6.

The audible signal for an emergency response and Plant evacuation is a repeating intermittent alarm that sounds at H_2S concentrations of 10 ppm or greater. The alarm will remain intermittent when the concentration of the H_2S release is 20 ppm or higher. At the initial sound of this intermittent alarm, the plant operators will evacuate to the emergency assembly area put on a self-contained breathing apparatus (SCBA) and all personnel in the plant complex shall immediately proceed in a safe manner to the Emergency Assembly Areas as prescribed by the Emergency Action Plan.

A flashing red beacon signifies an H_2S release of 20 ppm or higher and all personnel in the plant complex shall immediately proceed in a safe manner to the Emergency Assembly Area located outside of the plant office. If this area is not determined to be safe, all will move to designated Muster Area. Evacuation routes and Muster Areas are indicated on the map in Appendix A, on Map A-4 and A-6 as well as Appendix D, on Map D-1.

A routine process alarm will cause a horn to sound. This horn sound is used to alert the plant Operator to return to the Control Room. No emergency response or evacuation is required when this horn sounds.

Wind direction indicators are installed throughout the plant. At least one wind direction indicator can be seen at any location within the Plant complex, as well as from any point on the perimeter of the plant. There are ten (10) windsocks located in the Plant.

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3. GAS DETECTION EQUIPMENT: The Plant uses a Smart Sensor System fixed plant H_2S Sensors. These sensors are a fixed point monitoring system used to detect the presence of hydrogen sulfide in ambient air. The yellow flashing beacon is activated at H_2S concentrations of 10 ppm or greater. The horn is activated with an intermittent alarm at H_2S concentrations of 10 ppm or greater. The lights change to red at 20 ppm H_2S and the horn remains intermittent. The fixed hydrogen sulfide monitors are strategically located throughout the Plant to detect an uncontrolled released of hydrogen sulfide. The Plant operators are able to monitor the H2S level of all the Plant sensors on the control monitor located in the control room and the Dagger Draw Plant Field Office. In addition, select employees can access this information remotely. These sensors are located on the plot plan in Appendix A, Maps A-2 and A-3. These sensors all have to be acknowledged and will not clear themselves. This requires immediate action for any occurrence or malfunction. The Plant sensors are calibrated monthly.

Redline wireless H_2S detectors are installed along the perimeter of the plant and the perimeter of the acid gas disposal well. Perimeter H_2S detectors report to the Redline monitor every five minutes to confirm detector functionality. Once H_2S gas is detected, the H_2S detectors report to the monitor every five seconds. The detectors will go into alarm at H_2S values of 10 ppm and above. Redline H_2S head unit locations are depicted on Map A-5 and A-6 in Appendix A.

Handheld gas detection monitors are available to plant personnel to check specific areas and equipment prior to initiating maintenance or work on the process equipment. There are 3 handheld monitors and each individual is assigned a personal H₂S monitor. The handheld gas detection devices are Industrial Scientific ITX 3-gas detectors and BW Gas Alert Micro 5 4-way monitors. The detectors have sensors for oxygen, LEL (explosive hydrocarbon atmospheres), hydrogen sulfide, and carbon dioxide. They indicate the presence of H₂S with a beeping sound at 10 ppm. The beeps change in tone as H₂S increases to 20 ppm. The personal monitors are set to alarm (beep) at 10 ppm with the beeps becoming closer together as the H₂S concentration increases to 20 ppm. Both the handheld and personal monitors have digital readouts of H₂S ppm concentration.

a) The compressor building has two methane sensors; one sends a call out at 30% lower explosive limit (LEL); the second shuts the compressors down at 50% lower explosive limit (LEL). The methane sensors are visual and audible alarms. The compressor building also is equipped with fire eyes that will also shut the units down. The four product pumps also have LEL sensors.

4. RESPIRATORS: The Plant has 30 minute self-contained breathing apparatus (SCBA) respirators and 5 minute escape packs strategically located throughout the Plant. The respirator locations are identified in Appendix A on Maps A-3 and A-6. All Plant personnel are certified to use the self-contained breathing apparatus (SCBA) respirators.

5. FIRE FIGHTING EQUIPMENT: The Plant personnel are trained only for insipient stage fire fighting. The fire extinguishers located in the Plant process areas, compressor buildings, process buildings, and company vehicles are typically a 20# ABC dry chemical fire extinguisher. See Appendix A, Maps A-3 and A-6 for locations. The Plant does not have a fire water system, only a utility water system that is not designed for fire fighting.

6. EMERGENCY RESPONSE TRAILER AND EQUIPMENT: Agave Energy Company has an Emergency Response Trailer located at the Atoka Facility (Map 1; Map D-2 Appendix D). This is located outside all radii of exposure (ROE) from the facility along the pipeline to the well.

Driving Directions: From Artesia, drive south on Highway 285 to County Road 39. Turn east and drive approximately 2 miles. The facility is on the south side of the road in the NW/NE Sec 14 18S 26 E. See Map D-2 in Appendix D. The trailer can serve as a mobile resource center or Incident Command Center.

a) EMERGENCY RESPONSE TRAILER CONTENTS

- · 2 wind socks / wind direction indicators w/poles & spares
- 1 110 volt generator, portable w/wheels
- 4 5-gas sensor ambient monitors (O₂, SO₂, LEL, CO, H₂S) with automatic air pumps (15 sec per foot) and data logging capability
- 1 calibration unit for monitors
- 5 intrinsically safe communication radios & chargers, 32 channel with capability to be programmed to fire service and police channels
- 4 20# stored pressure, ABC class Fire Extinguishers
- 4 4500 Grade D breathing air cylinders, regulator, low pressure alarm, and hose reel w/ 300 ft hose (total) and correct quick disconnects.
- 1 stretcher
- 1 20-person First Aid Kit with burn gel packets
- 4 30-minute SCBA's
- 4 work unit SCBA's
- 2 lights, mounted on each rear of trailer for night operations
- 2 hand cleaner for decontamination of petroleum products.
- 3 traffic Control Kits
- 1 emergency flare gun for lighting uncontrollable hazardous gases
- 2 full body harness and 150' X 2 lifelines
- 2 "Hazardous Area" "Do Not Enter" signs / barricades
- 2 burn gel blankets
- 1 set of maps and Emergency Response Plans
- 4 temporary use Nomex Fire retardant clothing (2-LG & 2-XLG)

7. TRAFFIC CONTROL KIT CONTENTS

- 3 electronic road flares
- 1 28" stop sign paddle
- 4 reflective traffic control vests
- 2 emergency signal wands
- 1 emergency Response Guidebook

8. FIRST AID EQUIPMENT LOCATIONS:

- a) First Aid Kits are located at the following locations:
- Lab
- Office
- b) Eye Wash stations are located at the following locations:
- Lab
- Office

9. PERSONAL H₂S MONITORS: All Agave personnel assigned to the Plant and associated field personnel are issued personal H₂S monitors.

10. SIGNS and MARKERS: The Plant has warning signs indicating the presence of " H_2S /Poisonous Gas" and high pressure gas at the entrance to the Plant. Emergency response phone numbers are posted at the entrance to the Plant. Signs are located at the Plant gate entrance indicating that all visitors are to sign in.

V. Characteristics of Hydrogen Sulfide (H₂S), Sulfur Dioxide (SO₂) and Carbon Dioxide (CO₂) [NMAC 19.15.11.9.B(2)(b)] [API RP-55 7.4 b.]

A. Hydrogen Sulfide (H₂S): Hydrogen Sulfide (H₂S): The proposed inlet gas streams into the Plant will contain a maximum of 7,600 ppm (or 0.76 mole percent) of hydrogen sulfide based on data generated from the sampling of the inlet gas at least daily. Hydrogen sulfide is a colorless, toxic and flammable gas, and has the odor of rotten eggs. Hydrogen sulfide gas is heavier than air. Hydrogen sulfide presents a significant health hazard by paralyzing the respiratory system resulting in serious injury or death.

Hydrogen Sulfide Properties and Characteristics				
CAS No.			7783-06-4	
Molecular Formula			H ₂ S	
Molecular Weight			34.082 g/mol	
Ceiling Concentration			20 ppm (OSHA)	
Ceiling Peak Concentration)		50 ppm (OSHA)	
TLV		<u> </u>	15 ppm (ACGIH)	
TWA			10 ppm (NIOSH)	
STEL			15 ppm (ACGIH)	
IDLH			100 ppm	
Specific Gravity Relative to	Air (Air=1	.0)	1.189	
Boiling Point		- 	-76.5F	
Freezing Point			-121.8F	
Vapor Pressure			396 psia	
Autoignition Temperature			518F	
Lower Flammability Limit			4.3%	
Upper Flammability Limit				
Stability		Stable		
pH in water		3		
Corrosivity	Reacts with metals, pla		Reacts with metals, plastics, tissues and nerves	
Physical Effects of Hydrogen Sulfide			f Hydrogen Sulfide	
Concentration				
Ppm	%	Physical Effects		
11	0.00010	Can be smelled (rotten egg odor)		
10	0.0010	Obvious & unpleasant odor; Permissible exposure level; safe		
		for 8 hour exposure		
20	0.0020	Acceptable ceiling concentration		
50	0.0050	Loss of sense of smell in 15 minutes		
100	0.0100	Immediately dangerous to life and health(IDLH) loss of sense		
		of smell in 3-15 minutes; stinging in eyes & throat; Altered		
		breathing		
200	0.0200	Kills smell rapidly; stinging in eyes & throat		

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500 .	0.0500	Dizziness; Unconscious after short exposure; Need artificial respiration
700	0.0700	Unconscious quickly; death will result if not rescued promptly
1000	0.1000	Instant unconsciousness; followed by death within minutes

B. Sulfur Dioxide (SO₂): Sulfur dioxide is produced as a by-product of H₂S combustion at the flare. The flare unit receives the residual hydrogen sulfide and carbon dioxide stream that is routed from the amine unit. It is colorless, transparent, and is non-flammable, with a pungent odor associated with burning sulfur. Sulfur dioxide is heavier than air, but will be picked up by a breeze and carried downwind at elevated temperatures. Sulfur dioxide can be extremely irritating to the eyes and mucous membranes of the upper respiratory tract.

Sulfur Dioxide Properties & Characteristics			
CAS No.		7446-09-5	
Molecular Formula	·	SO ₂	
Molecular Weight		64.07 g/mol	
PEL		5 ppm(OSHA)	
TWA		2 ppm(ACGIH)	
STEL		5 ppm(ACGIH)	
IDLH		100 ppm	
Specific Gravity Relative to Air (Air = 1.0)	2.26	
Boiling Point		14°F	
Freezing Point		-103.9°F	
Vapor Pressure		49.1 psia	
Auto ignition Temperature		N/A	
Lower Flammability Limit		N/A	
Upper Flammability Limit		N/A	
Stability		Stable	
Corrosivity		Could form an acid rain in aqueous solutions	
Physical Effects of Sulfur Dioxide			
Concentration	Effect		
1 ppm	Pungent odor, may cause respiratory changes		
2 ppm	Permissible exposure limit; Safe for an 8 hour exposure		
3-5 ppm		dor; normally a person can detect sulfur	
	dioxide in t		
		n Exposure Limit (STEL); Safe for 15 minutes	
	of exposure		
12 ppm Throat irrit		ation, coughing, chest constriction, eyes tear	
100 ppm	and burn		
	Immediately Dangerous To Life & Health (IDLH)		
150 ppm	So irritating that it can only be endured for a few minutes		
500 ppm	Causes a sense of suffocation, even with first breath		
1,000 ppm	Death may	result unless rescued promptly.	

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C. Carbon Dioxide (CO₂): The proposed inlet streams into the Plant will contain a maximum of 383,100 ppm (or 38.31 mole percent) of carbon dioxide based on data generated from the sampling of the inlet gas at least daily. Carbon dioxide gas is colorless, odorless and non-flammable and is heavier than air.

Carbon Dioxide Properties & Characteristics		
CAS No.	·	124-38-9
Molecular Formula		CO ₂
Molecular Weight	en service de la constance de la	44.010 g/mol
TWA		5,000 ppm
STEL	······································	30,000 ppm
IDLH		40,000 ppm
Specific Gravity Relative to Air	(Air = 1.0)	1.5197
Boiling Point		-109.12°F
Freezing Point	· · · · · · · · · · · · · · · · · · ·	-69.81°F
Vapor Pressure		830 psia
Autoignition Temperature		N/A
Lower Flammability Limit		N/A
Upper Flammability Limit		N/A.
Stability	· ·	Stable
pH in Saturated Solution	· · · · · · · · · · · · · · · · · · ·	3.7
Corrosivity		dry gas is relatively inert & not corrosive; can be corrosive to mild steels in aqueous solutions
	sical Effects of Carbon	Dioxide
Concentration Effect		Effect
1.0 %	Breathing rate increases slightly	
2.0 %	-	s to 50% above normal level.
	Prolonged exposure can cause headache, tiredness	
3.0 %	Breathing rate increases to twice normal rate and	
	becomes labored. Weak narcotic effect. Impaired hearing, headache, increased blood pressure and pulse rate	
4 – 5 %	Breathing increases to approximately four times normal rate, symptoms of intoxication become evident, and slight choking may be felt	
5 – 10 %	Characteristic sharp odor noticeable. Very labored breathing, headache, visual impairment, and ringing in the ears. Judgment may be impaired, followed within minutes by loss of consciousness	
10 – 100 %	Unconsciousness occurs more rapidly above 10% level. Prolonged exposure to high concentrations may eventually result in death from asphyxiation	

Agave H₂S Contingency Plan

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December 20, 2010

D. Radii of Exposure (ROE) [NMAC 19.15.11.7.K]

The basis for worst case scenario calculations is as follows:

- The hydrogen sulfide content of the inlet natural gas stream into the Agave Dagger Draw Gas Plant is variable, ranging upwards to 7,600 parts per million (ppm) or 0.76 mole percent. In reality, the actual H₂S concentration that the plant processes will be much less than this.
- The inlet gas H_2S concentration of 0.76 mole percent was determined using a massbalance approach, an analysis of 60.8 mole percent H_2S in the acid gas stream and a maximum acid gas flow rate of 0.5 MMSCFD. It is assumed that the amine system removes 100% of the H_2S from the inlet gas.
- The plant has a maximum daily (24 hour) processing volume of 40 MMSCF.
- The worst case scenario radius of exposure (ROE) also assumes an uncontrolled instantaneous release from the area around either the Metropolis Disposal #1 Well, the amine still at the facility and/or at any point along the pipeline connecting the two of the above referenced volume and concentration. Because the Plant is a throughput process plant, it is impossible that the entire 24 hour-throughput volume of the Plant could be released instantaneously as is assumed in the worst case scenario calculations of the ROE. However, to comply with NMAC 19.15.11, that assumption is the worst case scenario in the formulas/calculations provided here.

It should further be noted that the reason this rate, used as worst case, could not be released over a 24 hour period is the Plant's emergency shutdown (ESD) systems would be activated. The emergency shutdown (ESD) would prevent the flow of gas into the Plant in the event of an emergency. See Appendix C and Map C-1 for more information.

The formulas for calculating the two radius of exposure (ROE) are as follows:

100 ppm Radius of Exposure Calculation (as per 19 NMAC 15.11.7.K.1):

X=[(1.589)(hydrogen sulfide concentration)(Q)]

500 ppm Radius of Exposure Calculation (as per 19 NMAC 15.11.7.K.2):

X=[(0.4546)(hydrogen sulfide concentration)(Q)]

Where:

X = radius of exposure in feet

"hydrogen sulfide concentration" = the decimal equivalent of the mole or volume fraction of hydrogen sulfide in the gaseous mixture

Q = Escape rate expressed in cubic feet per day (corrected for standard conditions of 14.73 psi absolute and 60 degrees Fahrenheit)

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 Amine	Unit (Facility)
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500-ppm ROE	1648 feet
100-ppm ROE	3606 feet

Pi	pe	line	

500-ppm ROE	1648 feet
100-ppm ROE	3606 feet

Acid Gas Disposal Well		
500-ppm ROE	1648 feet	
100-ppm ROE	3606 feet	

The ROE for the facility, pipeline and well are shown on Map C-1 of Appendix C. This ROE pattern is designed to include the 100 and 500 ppm radii for a potential worst case failure at any point in the system from the facility at the north to the well to the south.

VI. Facility Description, Maps, and Drawings [NMAC 19.15.11.9.B(2)(c)] [API RP-55 7.4 c.]

A. Dagger Draw Processing Plant Description of Operations- The primary function of the plant is to remove H_2S and CO_2 from sour field gas so that the gas can meet pipeline specifications. The plant has been designated a primary Standard Industrial Classification (SIC) Code of 1311. The operation of the Agave Dagger Draw Gas Plant is intended to process 40 MMSCFD of gas. The facility is authorized to operate continuously (8,760 hr/yr) at design maximum capacity processing rates. The gas will be treated to remove acid gas components, dehydrated to remove water and processed to remove heavy (liquid) hydrocarbons from the gas stream. Several plant systems will be involved to perform these functions.

The amine unit is designed to remove acid gas components (carbon dioxide, hydrogen sulfide and mercaptans) from the natural gas stream. These components are removed from the natural gas because they are corrosive, hazardous to health, and reduce the heating value of the natural gas stream. In addition, the carbon dioxide can freeze in the cryogenic unit forming dry ice and forcing the shutdown of the facility. This is known as the gas sweetening process. The acid gas removed by the amine unit will be disposed of by either acid gas injection into a disposal well or by incinerating in a flare. The preferred method of disposal will be to compress the gas and inject it into the well. Under emergency situations, the gas will be flared to prevent the emission of lethal hydrogen sulfide to atmosphere.

The glycol dehydration unit will receive approximately 40.0 MMSCFD of treated gas (sweet) from the amine unit and reduce the water content of the gas by circulating triethylene glycol (TEG). Molecular sieve dehydration is used upstream of the cryogenic processes to achieve a -150°F dew point. The process uses two molecular sieve vessels with one vessel in service absorbing moisture from the gas stream and the other vessel in the regeneration mode.

The cryogenic unit is designed to liquefy natural gas components from the sweet, dehydrated inlet gas by removing work (heat) from the gas by means of the turbo expander. The cryogenic unit recovers natural gas liquids (NGL) by cooling the gas stream

to extremely cold temperatures (-150°F) and condensing components such as ethane, propane, butanes and heavier hydrocarbons. Once the sweet, dry gas exits the cryogenic unit, it needs to be recompressed to approximately 800 to 1200 psi before the gas is sent to the main transportation pipeline. This is accomplished with two 2500 horsepower electric drive compressors.

The hot oil system in the plant is used to provide heat to certain processes within the facility. The system will circulate approximately 600 GPM of hot oil and deliver 15.5 MMBTU/hr to other processes.

B. Metropolis Disposal #1 Well Description of Operations- The low pressure (< 10 psig), acid gas stream from the amine unit is routed to the acid gas compressor. The stream is then subject to a series of compression and cooling cycles, thus dehydrating and compressing the acid gas stream to a pressure of approximately 1150 psig. The high pressure acid gas stream then flows through a 2" stainless steel pipeline to the injection well site. At this point, the stream is introduced into the well.

There are a number of safeguards designed to prevent leaks or overpressure of the system. The acid gas compressor is equipped with multiple pressure transmitters. These transmitters monitor compressor suction and discharge pressures and are programmed to shut the acid gas system down when the pressures fall outside a pre-programmed operating range. As an additional safeguard, the compressor panel is also equipped with high and low pressure shutdowns for each stage of compression that will shut the compressor down when pressures reach preset high and low pressure set points.

As shown on Map 2, the acid gas pipeline runs from the Agave Dagger Draw Plant in a southwesterly direction, crosses Kincaid Ranch Road at the plant boundary and continues southwesterly along a gravel road for approximately 3680 feet. The pipeline then turns east along the Metropolis Disposal #1 Well access road for an additional 900 feet to the wellhead. South of Kincaid Ranch Road, the pipeline and well are entirely contained within Section 36, Township 18 South, Range 25 East. This land is owned by the State of New Mexico. Agave Energy has the following three Rights-of-Way from the State of New Mexico in this section for the pipeline: R18068, R17745 and R17949. The Metropolis Disposal #1 Well Site is covered under Yates Petroleum Company Oil Leases VO-6141-0000 and E1-0165-0001. The pipeline is buried at a depth of 6-1/2 feet for its entire length and is marked, as required, with permanent surface markers. (See Map 2 and Figure 1)

The acid gas pipeline is constructed from 2" inch 304 stainless steel tubing. The pipeline has been designed with a maximum allowable working pressure of 2350 psig. Historical injection pressures average 1150 psig. For leak detection purposes, the 2" acid gas line has been encased in 6" SDR 11 polyethylene pipe. A "sweet" gas stream flows through the annulus between the 6" and 2" pipelines at a preset pressure and flow rate. This sweet gas stream is monitored continuously for H₂S and over/ under pressure. If any one variable falls outside the predetermined operating range, the acid gas compressor is shut down and the acid gas stream is routed to the flare.

Safeguards for the acid gas injection well consist of a subsurface safety valve. This valve is designed to isolate and shut in the injection well if a leak occurs along the acid gas pipeline or at the surface of the well.

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C. Map of Plant and Metropolis Disposal #1 Well

See Appendix A, Map A-1

VII. Training and Drills

[NMAC 19.15.11.9.B(2)(d)] [API RP-55 7.4 d]

A. Responsibilities and Duties of Essential Personnel

1. Personnel responsible for implementing this plan shall be trained on their duties and responsibilities related to this plan during the annual on-site or table top training exercises.

2. Plant Orientation Training - All Plant personnel, visitors, and contractors must attend a Plant overview orientation prior to obtaining permission to enter the Plant. A refresher course on this training is required annually for all persons. This training also complies with the requirements of the Agave Energy Company Process Safety Management Program and Procedures Manual.

B. On-site or Classroom Drills

Agave Energy Company may use table top exercises as well as hands on emergency response training methods. Agave Energy Company shall conduct a table top exercise annually at a minimum.

C. Notification and Training of Others on Protective Measures in Emergency Situations

Affected residents will be invited to participate and/or observe annual drills, as well as being briefed on notification, evacuation, and shelter in place plans.

D. Training and Attendance Documentation

All training and drills will be documented. Documentation shall include sign in sheets, synopsis of the training conducted, and an after action review of the training.

E. Briefing of Public Officials on Evacuation and Shelter in Place Plans

Local law enforcement, first responders, and fire personnel will also be invited to participate and/or observe annual drills, as well as being briefed on notification, evacuation, and shelter in place plans.

VIII. Coordination with State Emergency Plans [NMAC 19.15.11.9.B(2)(e)]

A. Oil Conservation Division (OCD)

1. Oil Conservation Division (OCD) will be notified with an automatic email to the District II office advising of the activation of the H_2S Contingency Plan if any of the alarms are activated at 10 ppm H_2S or greater. In the event of a power failure, a phone call will be made within four hours. All subsequent paperwork will be filed in a timely fashion.

B. New Mexico State Police/ New Mexico Hazardous Materials Emergency Response Plan

1. The New Mexico State Police are responsible for overall scene management and coordination of all resources. A designated Emergency Response Officer (ERO) will establish the National Interagency Incident Management System (NIIMS) Incident Command System (ICS) as the Incident Commander (IC) and be responsible for management of all response resources on scene. Off-scene coordination of response resources will be handled through designated Headquarters Emergency Response Officers. Law enforcement-related activities will be coordinated by State Police.

IX. Plan Activation

[NMAC 19.15.11.9.C] [API RP-55 7.4 d]

A. Activation Levels

Level 1 – Intermittent alarm sounded and/or flashing amber beacons activated for H_2S greater than or equal to 10 ppm

Level 2 – Intermittent alarm sounded and/or flashing red beacons activated for H_2S greater than or equal to 20 ppm

Level 3 –Catastrophic release; fire; explosion; a continuous release of maximum volume for 24 hours; or NMAC 19.15.11: mandatory activation of indication of 100 ppm in any defined public area; 500 ppm at any public road; or 100 ppm at a distance greater than 3000 feet from the site or the release. Because the 100 ppm radius of impact (ROE) boundary is greater than 3000 feet from the site of release, a Level 3 response would occur before the escape of the 24 hour release volume.

B. Events that Could Lead to a Release of H₂S

- Inlet and plant piping failure
- Amine still failure
- Flange/gasket leaks on inlet and plant piping
- Flange/gasket leaks on the acid gas compressor
- Flange/gasket leaks at metropolis disposal well
- Failure of acid gas pipeline
- Valve packing
- Seal failure on acid gas compressor
- Failure of flare to ignite during Plant emergency blow down

X. Submission of H₂S Contingency Plans [NMAC 19.15.11.9.D]

A. Submission

1. Agave Energy Company will submit the H₂S Contingency Plan to the Oil Conservation Division (OCD).

B. Retention

1. Agave Energy Company shall maintain a copy of the contingency plan in the Main Office at 105 South 4th Street in Artesia, NM. The plan shall be readily accessible for review by the Oil Conservation Division (OCD) upon request.

C. Inventory

1. Agave Energy Company will file an annual inventory of wells, facilities and operations for which plans are on file with the Oil Conservation Division (OCD), to the Local Emergency Planning Committee (LEPC) and the State Emergency Response Commission as per NMAC 19.15.11.

2. The inventory shall include the name, address, telephone number, and point of contact for all operations in which plans are on file.

MAPS AND FIGURES

MAP 1: Agave Dagger Draw Plant Facilities Locations

- MAP 2: General Diagram of Agave Dagger Draw Gas Plant and Location of Pipeline Connecting Plant with Metropolis Disposal #1 Well
- FIGURE 1: Photos of Pipeline

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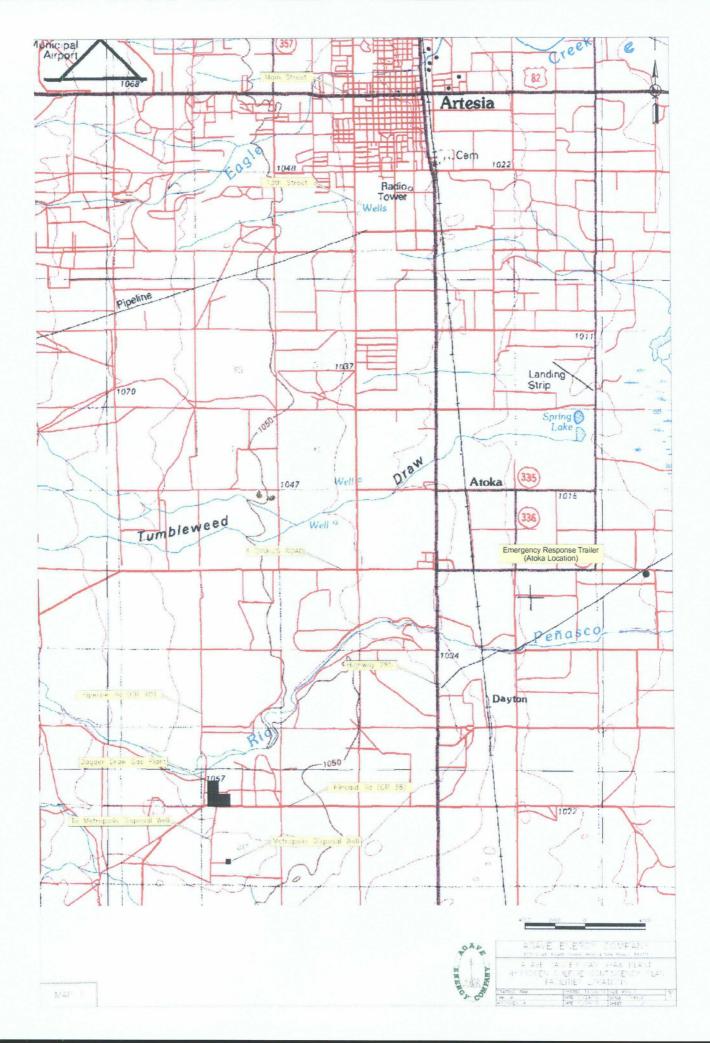
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Agave H₂S Contingency Plan

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Map 2: General Diagram of Agave Dagger Draw Gas Plant and Location of Pipeline Connecting the Plant with the Metropolis Disposal #1 Well





Figure 1: Photos of Pipeline Connecting Agave Energy's Dagger Draw Gas Plant With Metropolis Disposal #1 well. A) Acid Gas Compressed at the Gas Plant is Introduced to a 2" Stainless Steel Pipeline Surrounded by a 6" Polyethylene Pipe. Pipeline Integrity is Monitored Using a Stream of Sweet Natural Gas in the Volume Between the Two Pipes. B) Outside of the Fenced in Areas at the Plant and Wellhead, the Pipeline is Buried and Clearly Marked. C) The Pipeline Rises Above Ground and Connects to the Production Tree at the Metropolis Disposal #1 Wellhead

APPENDIX A – Facility Maps

Map A-1: Facility Map

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Map A-2: Alarms and Monitors, Dagger Draw Active Equipment

Map A-3: Safety and Fire Equipment, Dagger Draw Active Equipment

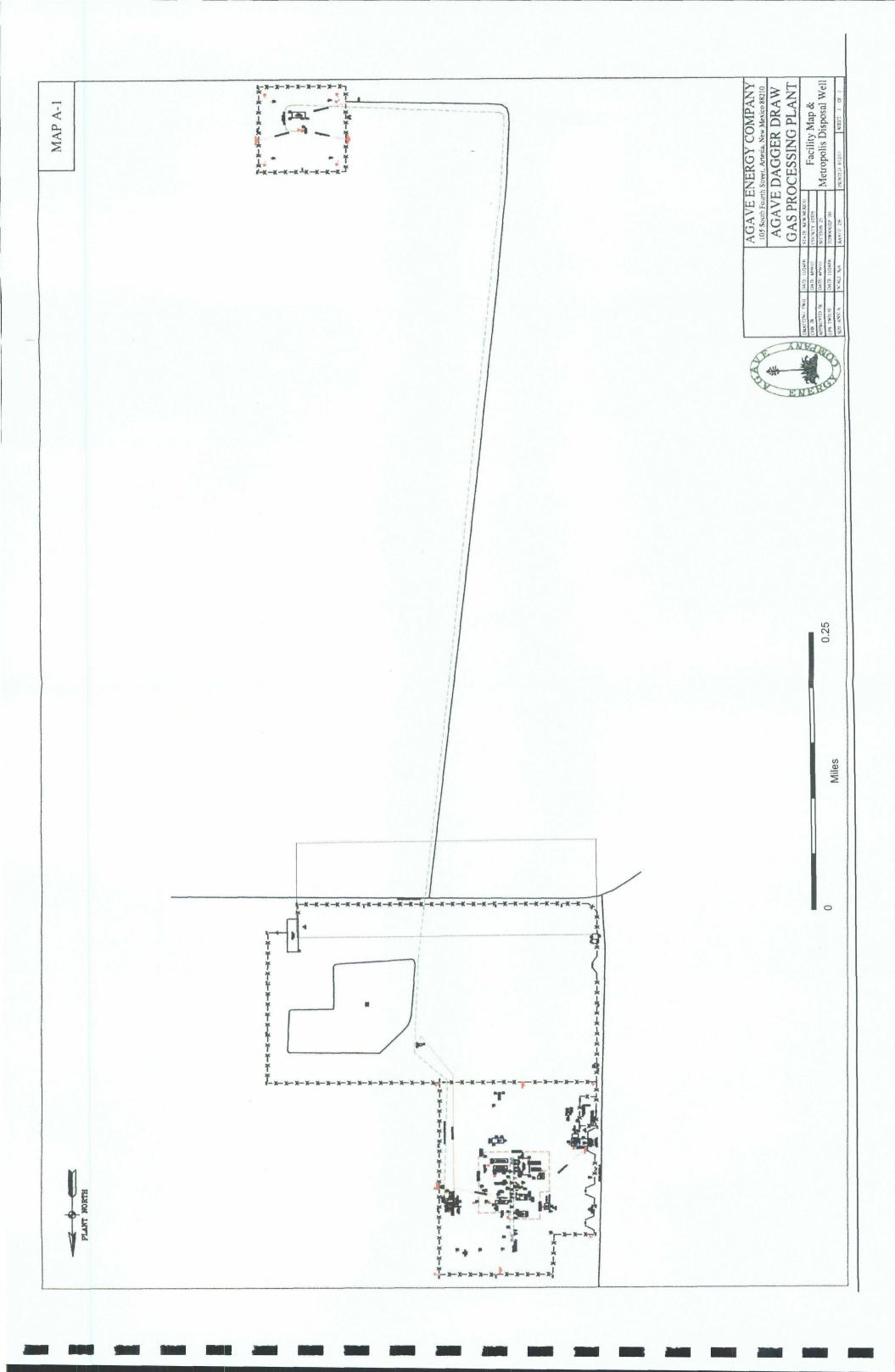
Map A-4: Evacuation Router, Dagger Draw Active Equipment

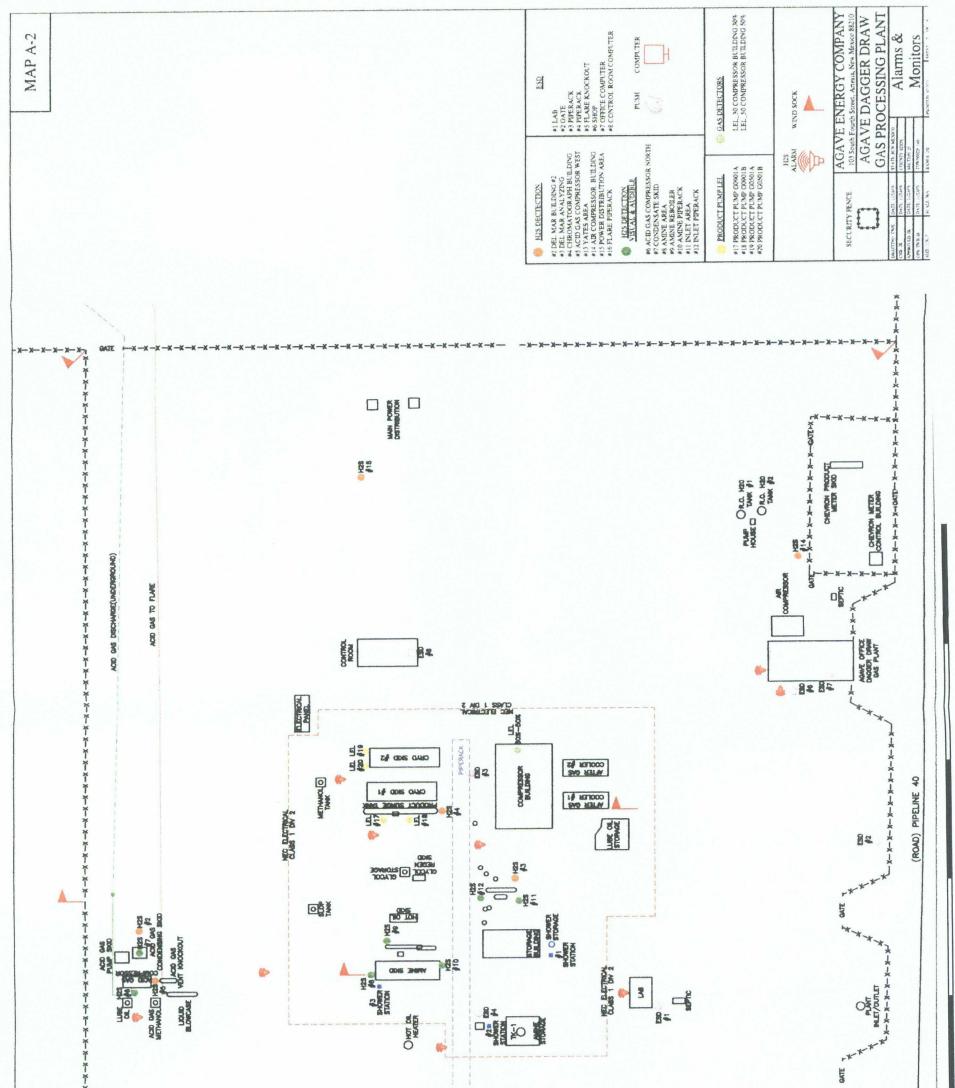
Map A-5: Proposed Perimeter Alarms

Map A-6: Metropolis Disposal Well

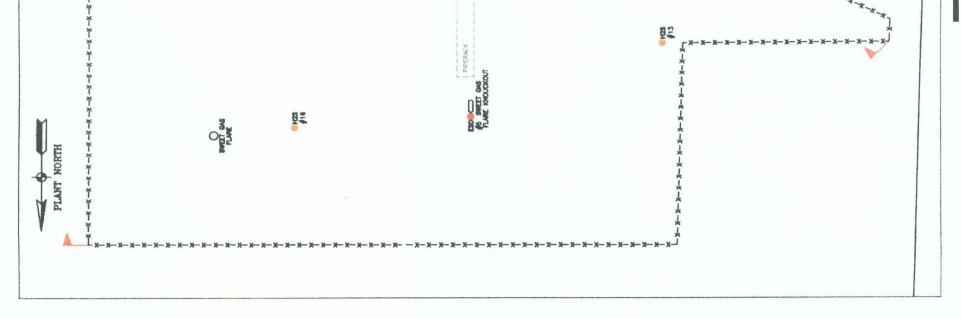
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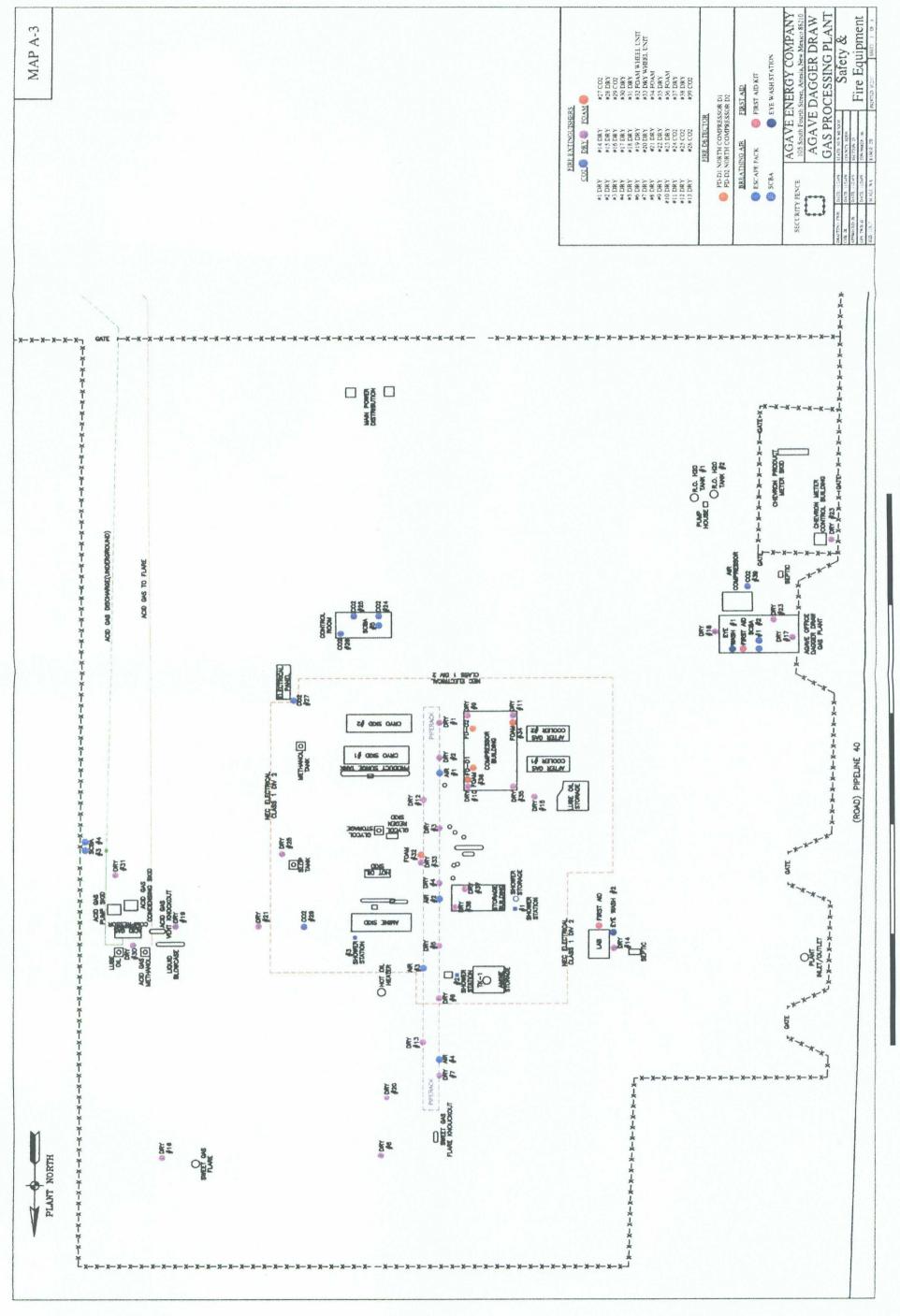
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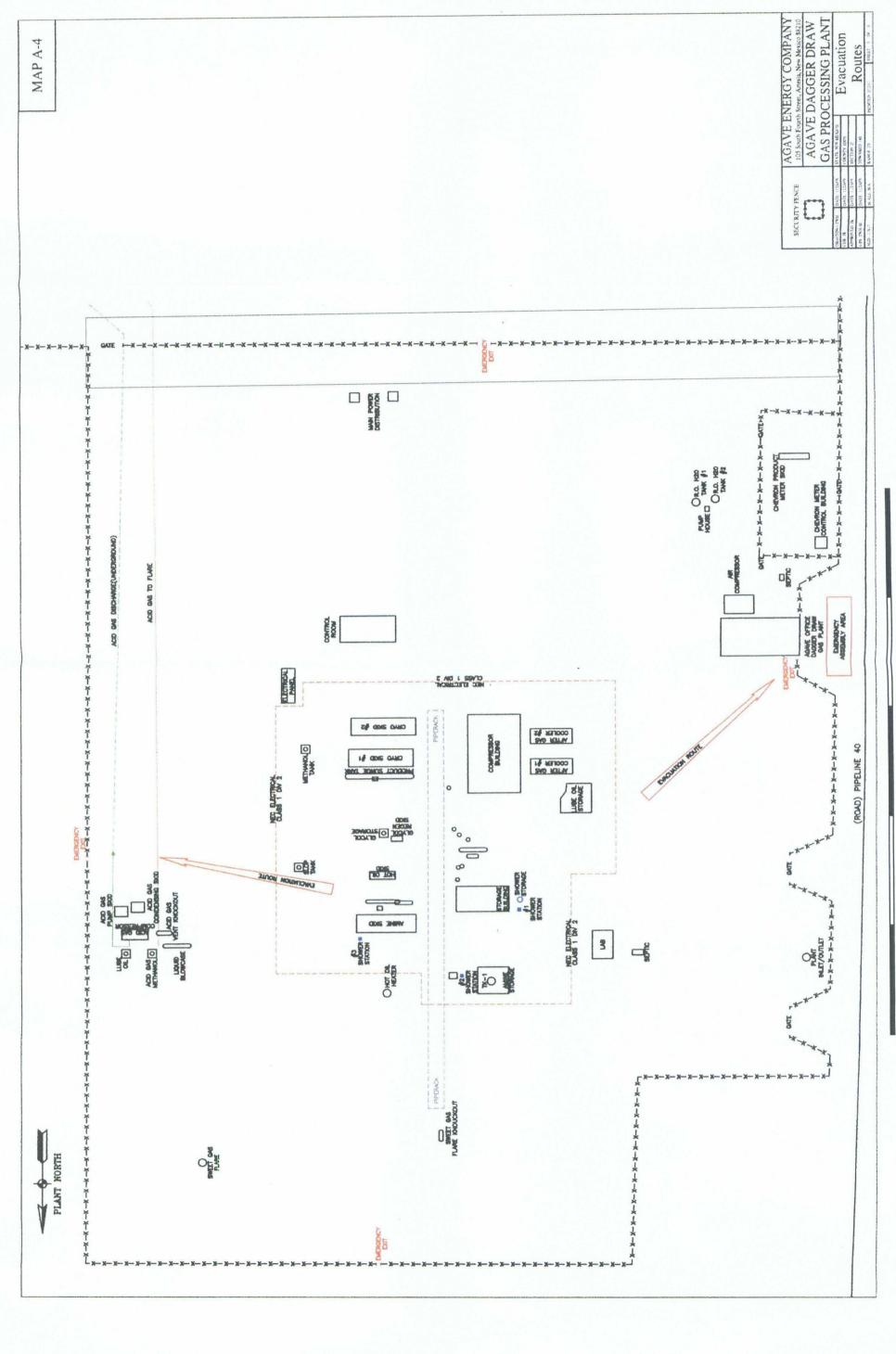
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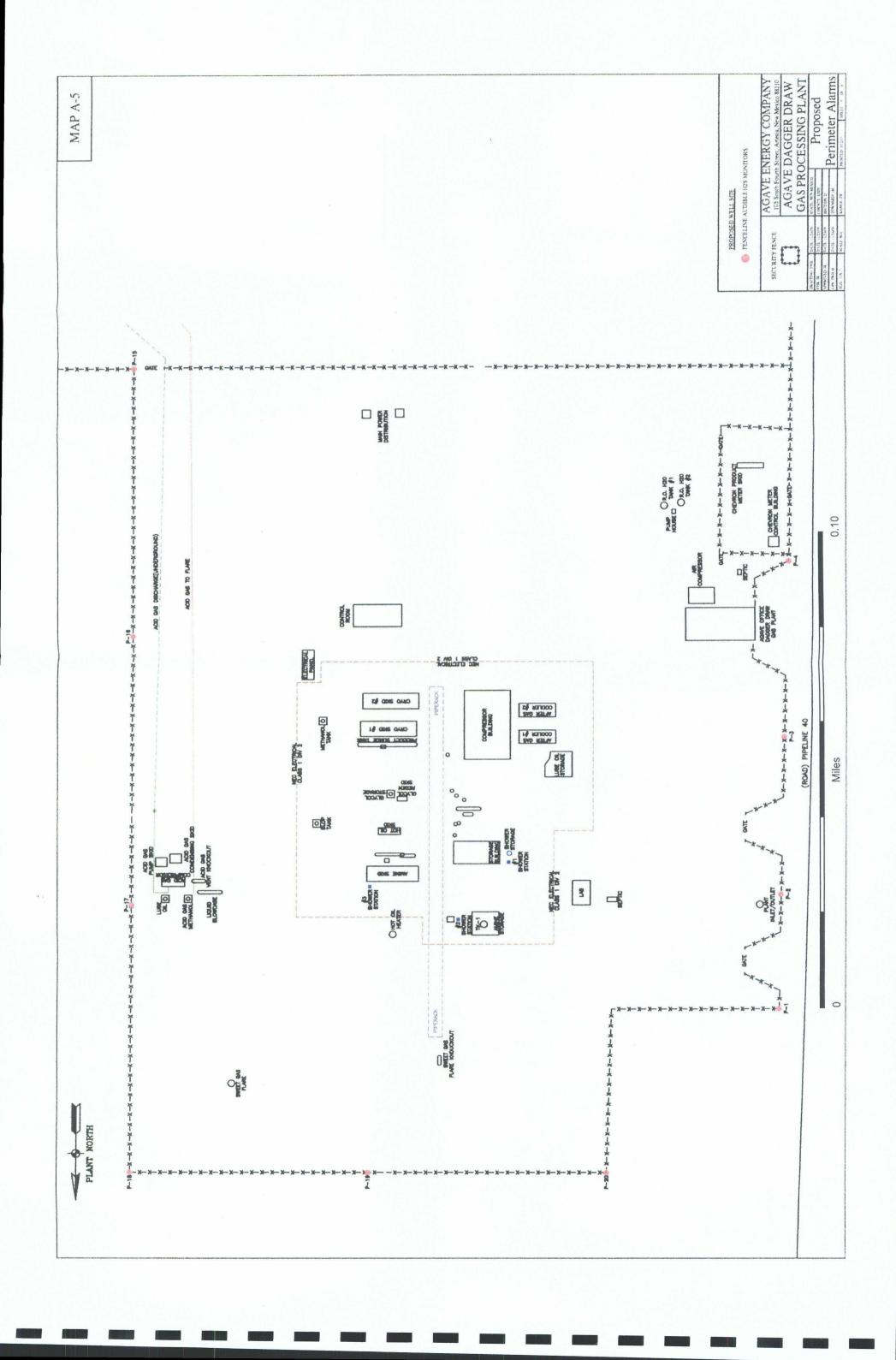
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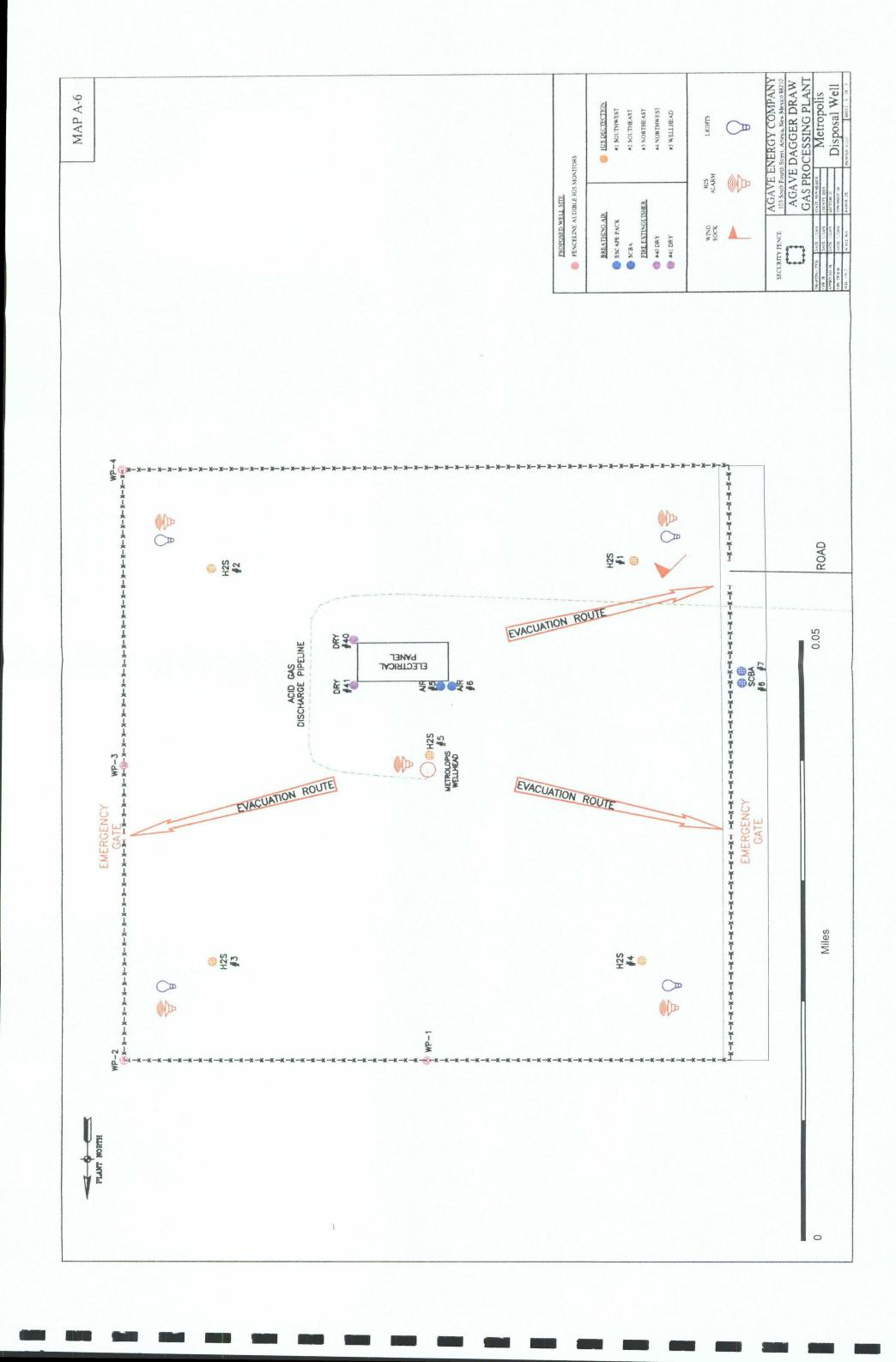


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APPENDIX B – Response Flow Diagrams

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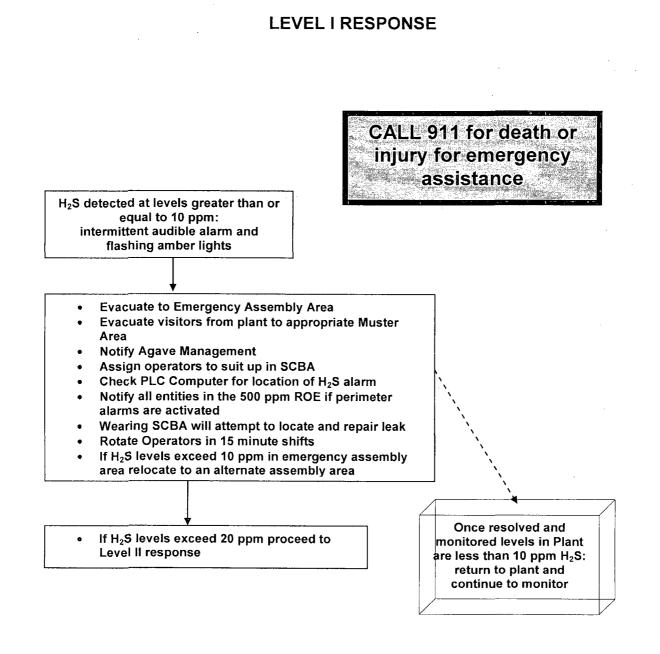
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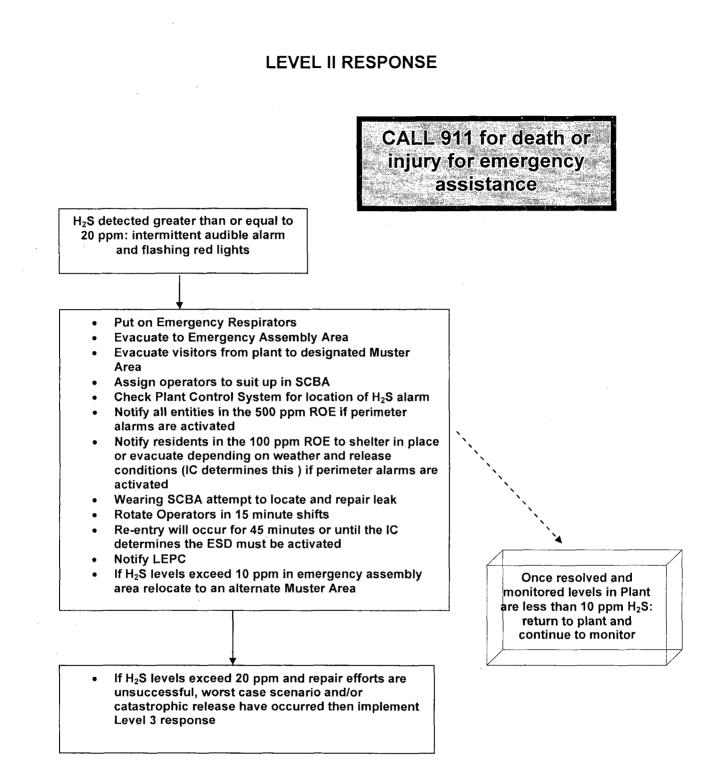
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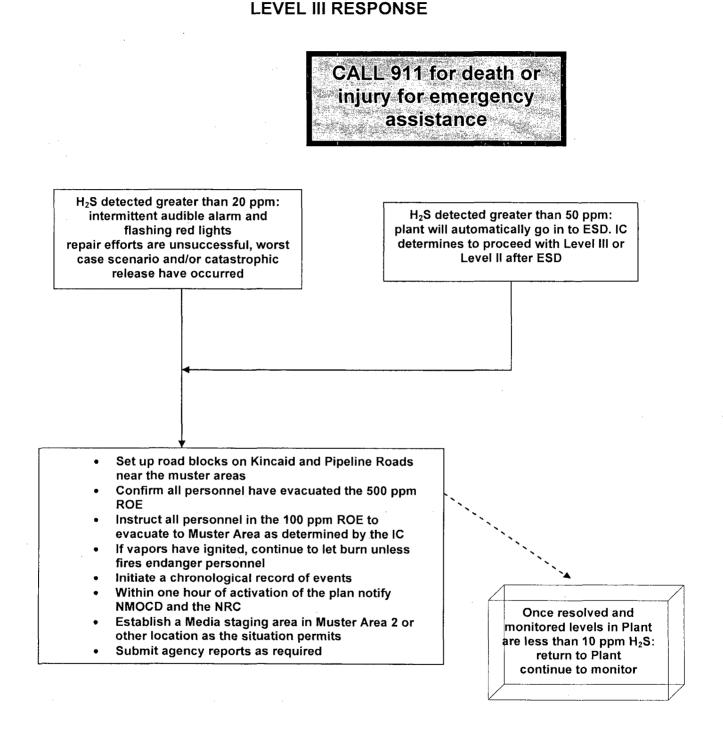
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APPENDIX C - Radius of Exposure Calculations

Map C-1 Radius of Exposure

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Agave H2S Contingency Plan

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APPENDIX C-RADIUS OF EXPOSURE CALCULATIONS

The basis for worst case scenario calculations is as follows:

- •The hydrogen sulfide content of the inlet natural gas stream into the Agave Dagger Draw Gas Plant is variable, ranging upwards to 7,600 parts per million (ppm) or 0.76 mole percent. In reality, the actual H₂S concentration that the plant processes will be much less than this.
- The inlet gas H_2S concentration of 0.76 mole percent was determined using a massbalance approach, an analysis of 60.8 mole percent H_2S in the acid gas stream and a maximum acid gas flow rate of 0.5 MMSCFD. It is assumed that the amine system removes 100% of the H_2S from the inlet gas.

The plant has a maximum daily (24 hour) processing volume of 40 MMSCF.

• The worst case scenario radius of exposure (ROE) also assumes an uncontrolled instantaneous release from the area around either the Metropolis #1 Well, the amine still at the facility and at any point along the pipeline connecting the two of the above referenced volume and concentration. Because the Plant is a throughput process plant, it is impossible that the entire 24 hour-throughput volume of the Plant could be released instantaneously as is assumed in the worst case scenario calculations of the ROE. However, to comply with NMAC 19.15.11, that assumption is the worst case scenario in the formulas/calculations provided here.

It should further be noted that the reason this rate, used as worst case, could not be released over a 24 hour period is the Plant's emergency shutdown (ESD) systems would be activated. The emergency shutdown (ESD) would prevent the flow of gas into the Plant in the event of an emergency. See Appendix C and Map C-1 for more information.

The formulas for calculating the two radius of exposure (ROE) are as follows:

100 ppm Radius of Exposure Calculation (as per 19 NMAC 15.11.7.K.1):

X=[(1.589)(hydrogen sulfide concentration)(Q)]

500 ppm Radius of Exposure Calculation (as per 19 NMAC 15.11.7.K.2):

X=[(0.4546)(hydrogen sulfide concentration)(Q)]

Where:

X = radius of exposure in feet

"hydrogen sulfide concentration" = the decimal equivalent of the mole or volume fraction of hydrogen sulfide in the gaseous mixture

Q = Escape rate expressed in cubic feet per day (corrected for standard conditions of 14.73 psi absolute and 60 degrees Fahrenheit)

ROE Inside the Plant

The escape rate (Q) is the maximum daily rate of the gaseous mixture produced or handled or the best estimate thereof. For releases inside the Agave Dagger Draw Gas Plant, the Company is using for contingency planning purposes an "escape rate" equal to the maximum inlet gas volume of 40,000 MCFD. The (actual) inlet gas volume at the Plant will be somewhat variable and is continuously metered. The Plant records daily inlet gas volumes and prepares a daily volume report. The assumed 40,000 MCFD inlet gas volume has been selected as the "escape rate" because it is the highest anticipated inlet volume that the Plant would handle under its proposed operations and is considered worst case interpretation of the volume of gas.

It should be noted that the plan will remain effective as long as the processed volume and H_2S content equate to the same or smaller ROE.

Previous monitoring data indicated variable inlet concentrations of hydrogen sulfide, but concentration will not exceed 7,600 ppm or .76 mole percent. Therefore, 7,600 ppm or .76 mole percent has been used in the worst case scenario operations for contingency planning purposes.

Using: Q = 40,000,000 H₂S conc = 7,600 ppm or .76 mole%

500-ppm RADIUS OF EXPOSURE CALCULATION

 $X = [(0.4546)^{*}(H_2S \text{ concentration})^{*}(\text{gas volume } (Q))]^{(0.6258)}$ $X = [(0.4546)^{*}(7,600^{*}.000001)^{*}(40,000,000)]^{(0.6258)}$

X = 1648 feet = 500-ppm ROE

100-ppm RADIUS OF EXPOSURE CALCULATION

 $X = [(1.589)^*(H_2S \text{ concentration})^*(gas \text{ volume})]^T$

 $X = [(1.589)^{*}(7,600^{*}.000001)^{*}(40,000,000)]^{*}$

X = 3606 feet = 100-ppm ROE

ROE Along the Pipeline and At the Injection Well

The escape rate (Q) is the best estimate of the maximum daily flow rate of the acid gas. For releases inside the Agave Dagger Draw Gas Plant, the Company is using for contingency planning purposes an "escape rate" equal to the 500 MCFD. The assumed 500 MCFD acid gas volume has been selected as the "escape rate" because it is the highest anticipated gas volume that the Plant would handle under its proposed operations and is considered the worst case interpretation of the volume of gas.

It should be noted that the plan will remain effective as long as the processed volume and H_2S content equate to the same or smaller ROE.

Previous monitoring data indicated variable inlet concentrations of hydrogen sulfide, but concentration will not exceed 608,000 ppm or 60.8 mole% at the inlet. Therefore, 608,000 ppm or 60.8 mole percent has been used in the worst case scenario operations for contingency planning purposes. Again, Agave does not measure the H_2S concentration in the acid gas stream; rather the concentration is calculated based on the inlet conditions.

Using: Q = 500,000

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 H_2S conc = 608,000 ppm or 60.8 mole%

500-ppm RADIUS OF EXPOSURE CALCULATION

 $X = [(0.4546)^{*}(H_{2}S \text{ concentration})^{*}(\text{gas volume } (Q))]$ $X = [(0.4546)^{*}(608,000^{*}.000001)^{*}(500,000)]$

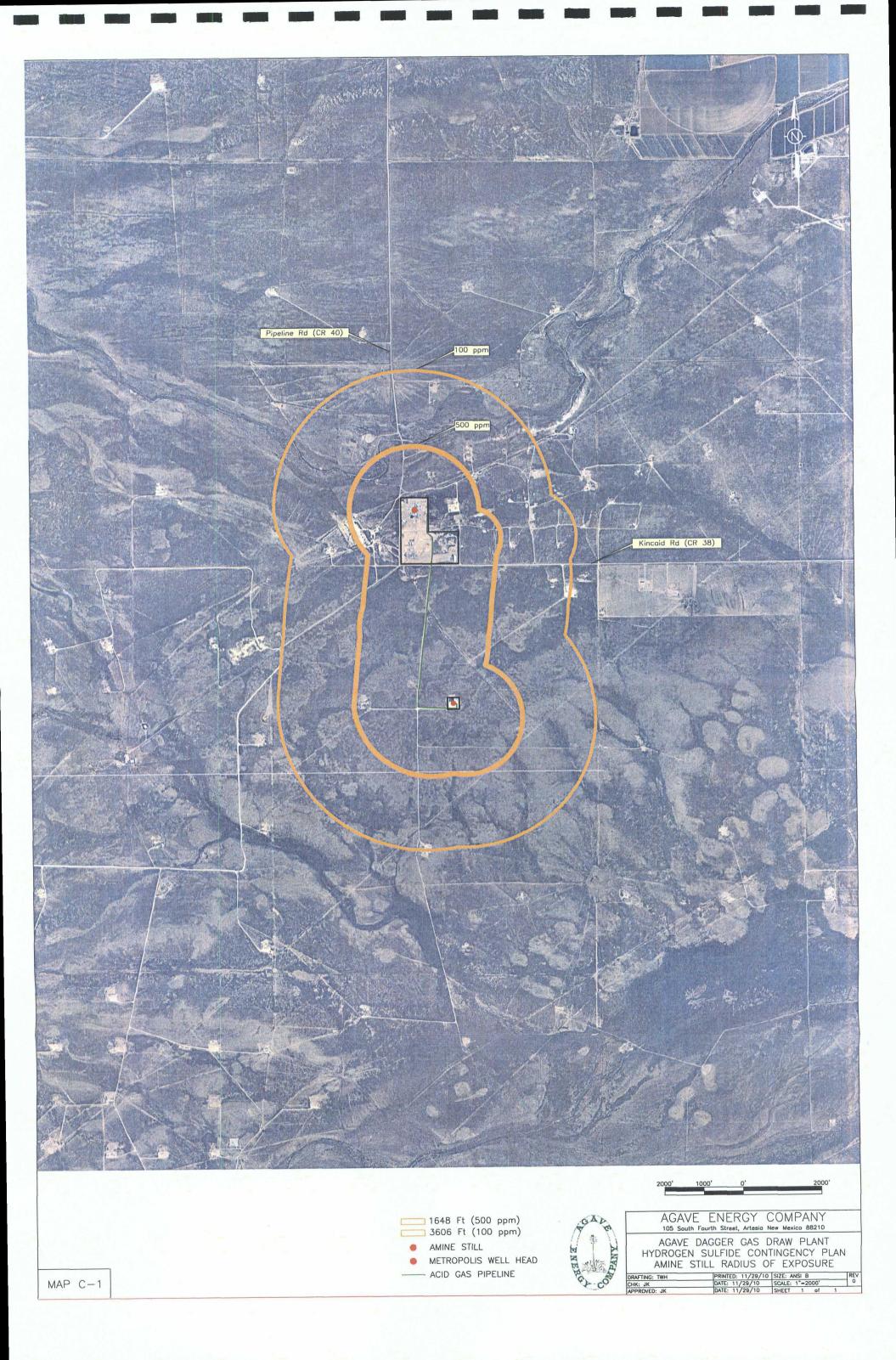
X = 1648 feet = 500-ppm ROE

100-ppm RADIUS OF EXPOSURE CALCULATION

 $X = [(1.589)^*(H_2S \text{ concentration})^*(gas \text{ volume})]$

 $X = [(1.589)^{*}(608,000^{*}.000001)^{*}(500,000)]$

X = 3606 feet = 100-ppm ROE



APPENDIX D – Muster Areas, Evacuation Routes

Map D-1: Evacuation Routes to Muster Areas

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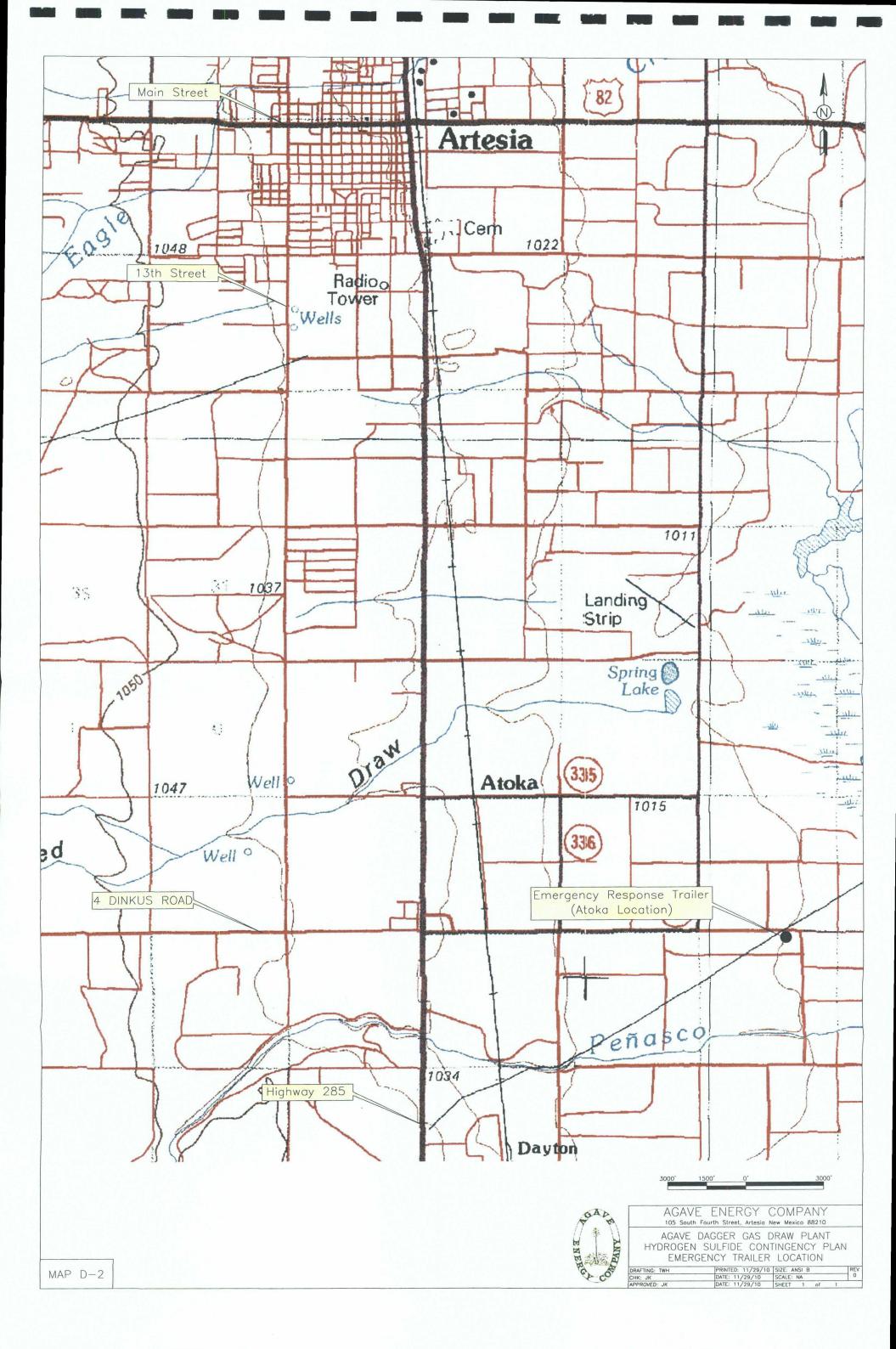
Map D-2: Atoka Facility– Safety Trailer Location

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APPENDIX E – H₂S Contingency Plan Distribution List

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OPERATORS WITHIN ONE MILE RADIUS OF AGAVE METROPOLIS DISPOSAL #1 WELL

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 Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210

SURFACE OWNERS WITHIN ONE MILE RADIUS OF AGAVE METROPOLIS DISPOSAL #1 WELL

Section 36, Township 18 South, Range 25 East

State of New Mexico State Land Office 310 Old Santa Fe Trail P. O. Box 1148 Santa Fe, NM 87504

Section 35, Township 18 South, Range 25 East

Thomas & Wanda Wilson David & Diana Wilson 235 N. Lake Rd. Artesia, NM 88210

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Section 26, Township 18 South, Range 25 East

Agave Energy Company P. O. Box 92108 Austin, TX 78709

Yates Petroleum Corporation 207 S. 4th Street Artesia, NM 88210

Section 25, Township 18 South, Range 25 East

Sharbro Oil Company, LTD P. O. Box 840 Artesia, NM 88211

Woodward Trust Jeri & Dale Woodward 4748 Elder Avenue Seal Beach, CA 90740

Yates Petroleum Corporation 105 S. 4th Street Artesia, NM 88210 All

All

Small square in SE/4 on map .57 acre tract in SE/4

SE/4 Less & Except a .57 acre tract

E/2 SE/4

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2.17 acre tract in SW/4 Tract 104-25.7 on map

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TABLE D-2 SURFACE OWNERS

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Agave Energy Company P. O. Box 92108 Austin, TX 78709	25.38 acre tract in SW /4 Tract 104-25.8 on map
Yates Petroleum Corporation 207 S. 4 th Street Artesia, NM 88210	SW/4 less & except 2 above tracts
Section 30, Township 18 South, Range 26 East	
Yates Petroleum Corporation 207 S. 4 th Street Artesia, NM 88210	SW/4
Section 31, Township 18 South, Range 26 East	
Efren & Maria Baeza 314 N. 14 th Artesia, NM 88210	N/2 N/2
Thomas & Wanda Wilson David & Diana Wilson 235 N. Lake Rd. Artesia, NM 88210	S/2 NW/4; E/2 SW/4
Blanche Widaman Wells Fargo Bank Industry Consulting Group Inc. P. O. Box 810490 Dallas, TX 75381	NW/4 SW/4
H. D. Larsen % Greta Edington 1715 – 20 th Street Gering, NE 69341	N/2 SW/4 SW/4
Ronald Metcalf P. O. Box 37 South Valley Road Palmer Lake, CO 80133	S/2 SW/4 SW/4

TABLE D-2SURFACE OWNERS

Section 6, Towhnship19 South, Range 26 East

Jim & Sandra Hazelwood P. O. Box 507 Troy, MT 59935

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Pitch Energy Corporation & Yates Petroleum Corporation P. O. Box 304 Artesia, NM 88211

Dwight M. Lee % Cindy McDermid 11177 Captains Cove Drive Soddy-Daisy, TN 37379

Section 1, Township 19 South, Range 25 East

Thomas & Wanda Wilson David & Diana Wilson 235 N. Lake Rd. Artesia, NM 88210

Glenn R. Fuller 18495 Starduster Drive Nevada City, CA 95959

Section 1, Township 19 South, Range 25 East (continued)

B. E. Spencer Trust Lot 2 First National Bank P. O. Drawer AA Artesia, NM 88211

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Section 2, Township 19 South, Range 25 East

Thomas & Wanda Wilson David & Diana Wilson 235 N. Lake Rd. Artesia, NM 88210

Page 3

10 acre tract in Lot 3

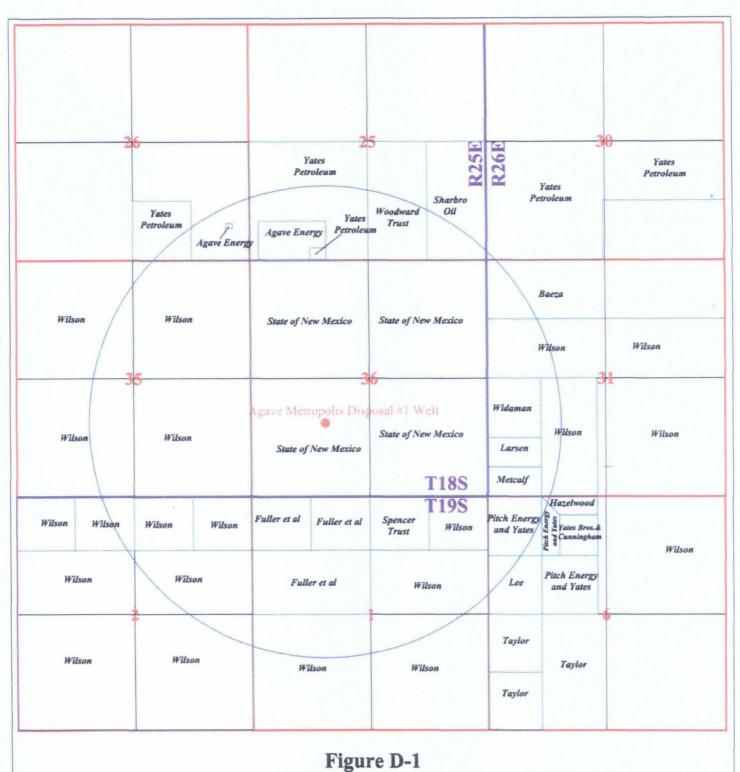
10 acre tract in Lot 3 & All Lot 4

S/2; S/2 NE/4; NE/4 NE/4

Lot 5

NW/4

All



Approximate Locations of Surface Owners Within One Mile of Agave Metropolis Disposal #1 Well

One Mile Circle Around Agave Metropolis Disposal #1 Well

LEASE HOLDERS WITHIN ONE MILE RADIUS OF AGAVE METROPOLIS DISPOSAL #1 WELL

1. Yates Petroleum Corporation 105 S. 4th Street Artesia, NM 88210 (575) 748-1741

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Section 36-Township18S-Range 25E NE/4; SW/4 NW/4; SE/4 NW/4; NW/4 NW/4; NE/4 NW/4; NE/4 SE/4

Section 35-Township 18S-Range 25E S/2; N/2

Section 26-Township 18S-Range 25E SE/4

Section 25-Township18S-Range 25E SW/4; SE/4

Section 30-Township 18S-Range 26E SW/4

Section 31-Township 18S-Range 26E W/2

Section 6-Township 19S-Range 26E N/2

Section 2-Township 19S-Range 25E N/2

Section 1-Township19S-Range 25E S/2 NE/4; E/2 SE/4 Lease #VO-6141-0000 Lease # E1-0165-0001

(Yates, Abo, Myco and Marbob all hold leases)

Table D-3 Lease Holders

2. Chase Oil Corporation P. O. Box 1767 Artesia, NM 88210 (575) 746-9853

> Section 36-Township 18S-Range 25E; SW/4; NW/4 SE/4; SW/4 SE/4; SE/4 SE/4

Section 1-Township 19S-Range 25E NE/4 NE/4; W/2 SW/4; NW/4; W/2 SE/4; E/2 SW/4

3. Marbob Energy Corporation P. O. Box 227 Artesia, NM 88211

Section 1-Township 19S-Range 25E S/2 NE/4; E/2 SE/4

4. DMD LLC P.O. Box 300 Artesia, NM 88211 (575) 746-2953

> Section 1-Township 19S-Range 25E NE/4 NE/4; W/2 SW/4

5. Abo Petroleum Corporation 105 S. 4th Street Artesia, NM 88210

> Section 1-Township 19S-Range 25E S/2 NE/4; E/2 SE/4

6. Myco Industries, Inc. 105 S. 4th Street Artesia, NM 88210

Section 1-Township 19S-Range 25E S/2 NE/4; E/2 SE/4 Lease #VO-8443-0000

(DMD LLC also has a lease on this tract)

(Yates, Abo, Myco and Marbob all hold leases)

(Chase Oil also has a lease on this tract)

(Yates, Abo, Myco and Marbob all hold leases)

(Yates, Abo, Myco and Marbob all hold leases)

MINERAL OWNERS OF ONLY UNLEASED TRACT WITHIN ONE MILE RADIUS OF AGAVE METROPOLIS DISPOSAL #1 WELL

Section 1-Township 18S-Range 25E NW/4 NE/4

1. B. E. Spencer Trust First National Bank P. O. Drawer AA Artesia, NM 88211

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See 1

- Wyatt A. Hartman
 W. B. Hickey
 Rt. #1 Box 181-A
 Chattahoochee, FL 32324
- Roy Hartman % Letha J. Hartman, 11025 Larkwood Apt. # 1701 Houston, TX 77096
- Margaret J. Carter 2032 Medusa Way Sacramento, CA 95825
- William Harold Robinson % Margaret J. Carter 2032 Medusa Way Sacramento, CA 95825
- Frances M. Mohr % Margaret J. Carter 2032 Medusa Way Sacramento, CA 95825

- Spitler Family Trust
 % Homer Edward Spitler & Mildred Ilene Spitler
 30315 Santa Fe Street Hemet, CA 92343
- Martha Jane Ford 3520 Roselawn Glendale, CA 91208
- 9. Parrish Family Trust
 % James Paul Parrish & Carole D.
 Parrish
 1702 Paloma Avenue
 Glendale, CA 91208

RESIDENCES AND BUSINESS FACILITIES WITHIN ONE MILE RADIUS OF AGAVE METROPOLIS DISPOSAL #1 WELL

Section 31, Township 18 South, Range 26 East N/2 N/2; Residences

1. Efren & Maria Baeza, 179 West Kincaid Ranch Road, Artesia, NM (Physical Address)

2. Raul and Delilah Baeza, 193 West Kincaid Ranch Road, Artesia, NM (Physical Address)

3. Christine Baeza, 175 West Kincaid Ranch Road, Artesia, NM (Physical Address)

Mailing Address: 314 N 14th Street, Artesia, NM 88210

Section 25, Township 18 South, Range 25 East

 Yates Petroleum Corporation 105 S. 4th Street Artesia, NM 88210 2.17 acre tract in SW/4; (tract 104-25.7 on map) Office & Warehouse

5. Agave Energy Corporation P. O. Box 92108 Austin, TX 78709

Section 26, Township 18 South, Range 25 East

 Agave Energy Corporation P. O. Box 92108 Austin, TX 78709 .57 acre tract in SE/4 (tract 104-26.2 on map) Compressor Station

SE/4: Four Warehouse Buildings

25.38 acre tract in SW/4

(tract 104-25.8 on map)

Gas Processing Plant

 Yates Petroleum Corporation 207 S. 4th Street Artesia, NM 88210

Section 35, Township 18 South, Range 25 East

E/2; Home and Barns

 David Wilson
 80 West Kincaid Ranch Rd., Artesia, NM (Physical Address) Mailing Address: 235 N. Lake Rd., Artesia, NM 88210

OTHER AGENCIES REQUIRING NOTICE

 US Bureau of Land Management Carlsbad Field Office
 620 East Greene Street Carlsbad, NM 88220-6292

10. New Mexico State Land Office (included in notice to surface owners within one mile radius)

Artesia, 1 5. Agave Er P. O. Box Austin, T Section 26 7

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APPENDIX E – H_2S Contingency Plan Distribution List

New Mexico Oil Conservation Division 1301 West Grand Avenue Artesia, NM 88210-1729

New Mexico Department of Public Safety 4207 W 2nd Street

Roswell, NM 88201-8857

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Local Emergency Planning Committee

324 S Canyon Street, Suite B Carlsbad, NM 88210

Artesia Fire Department

309 North 7th Street Artesia, NM 88210-1913

Atoka Fire Department

2611 South 13th Street Artesia, NM 88210-9333

Eddy County Sheriff's Department

Eddy County Courthouse 102 N. Canal Carlsbad, NM 88220

Dagger Draw Plant

278 Pipeline Road Artesia, NM 88210

Agave Main Office

105 South 4th Street Artesia, NM 88210