GEOLEX®
INCORPORATED

Alberto A. Gutiérrez, C.P.G.

May 16, 2011

Case 14664

Mr. Richard Ezeanyim, PE
Bureau Chief, Engineering & Geological Services
NM Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

VIA E-MAIL and FEDERAL EXPRESS

RE: FRONTIER FIELD SERVICES LLC. C-108 APPLICATION FOR MALJAMAR AGI#1

Dear Mr. Ezeanyim:

Pursuant to our conversations and meetings last month enclosed you will find two copies of the above-referenced C-108 application for an acid gas injection well at the Frontier Maljamar Gas Processing Plant located south of Maljamar in Lea County, NM. By copy of this letter a copy of this application is being transmitted also to the Hobbs District Office. Copies of the proposed legal notice and the notice letter to be sent to all required parties are included in Appendix D to the application

As we discussed, Frontier Field Services LLC requests that this application be placed on the docket for the Division Examiner Hearing set for June 23, 2011.

Sincerely,
Geolex, Inc.

Alberto A. Gutiérrez, RG
President
Consultant to Frontier Field Services, LLC.

AMERICAN INSTITUTE OF PROFESSIONAL GEOLOGISTS
CERTIFICATE NUMBER
6421
AIPG
ALBERTO A. GUTIERREZ
CERTIFIED PROFESSIONAL GEOLOGIST

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2011 MAY 17 P 2:52

Enclosure

cc: w/ enclosure Buddy Holt, NMOCD Hobbs District Office
w/o enclosure Jamie Bailey, NMOCD Director, Santa Fe
w/o enclosure Florene Davidson, NMOCD, Santa Fe
w/enclosure John Prentiss, Frontier Field Services, Maljamar Plant
w/enclosure Matt Franzen, Frontier Field Services, Tulsa OK
w/enclosure Ocean Munds-Dry, Holland and Hart, Santa Fe

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Albuquerque, New Mexico 87102

email: aag@geolex.com
web: www.geolex.com

FRONTIER field services, llc
southern ute indian tribe

C-108 Application for Approval to Drill and Operate a New Well For The Injection of Acid Gas Frontier Field Services, LLC Maljamar Natural Gas Processing Plant

(Unit O, Section 21, Township 17 S, Range 32 E)

May 16, 2011

Prepared For:

Frontier Field Services, LLC
4200 E. Skelly Dr., #700
Tulsa, OK 74135

Submitted To:

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Prepared By:

Geolex, Inc.
500 Marquette Avenue, NE, Suite 1350
Albuquerque, New Mexico 87102
Telephone: (505) 842-8000

GEOLEX® INCORPORATED

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

Case 14601

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____Secondary Recovery _____Pressure Maintenance __X__Disposal _____Storage
Application qualifies for administrative approval? _____Yes __X__No

II. OPERATOR: **Frontier Field Services, LLC.**
ADDRESS: **4200 Skelly Dr., #700, Tulsa, OK 74135**
CONTACT PARTY: **Alberto A. Gutierrez, R.G.- GEOLEX, INC.** PHONE: **(505)-842-8000**

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary. **A CROSS REFERENCE TO THE APPLICABLE SECTIONS OR APPENDICES IN THE ATTACHED C108 APPLICATION FOR EACH ROMAN NUMERAL BELOW IS SPECIFIED BY SECTION AND/OR APPENDIX NUMBERS.**

IV. Is this an expansion of an existing project? _____Yes __X__No
If yes, give the Division order number authorizing the project: **N/A**

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. **SECTIONS. 5 and 6; APPENDICES B, C and 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.
SECTIONS 4 and 5; APPENDICES A, B and C.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected; **SECTIONS 1, 2, and 3**
2. Whether the system is open or closed; **SECTIONS 1, 2, 4 and 7**
3. Proposed average and maximum injection pressure; **SECTIONS 1 and 3**
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, **SECTION 4 and APPENDIX A**
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.). **SECTIONS 3 and 4; 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. **SECTION 4 and APPENDIX A**

IX. Describe the proposed stimulation program, if any. **N/A**

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). **WELL IS NOT YET DRILLED**

*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. **SECTION 4 and APPENDIX A.**

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. **SECTION 7**

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

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, C.P.G. TITLE: President, Geolex, Inc.®; Consultant to Frontier Field Services LLC

SIGNATURE: _____ DATE: 5/16/11

E-MAIL ADDRESS: aag@geolex.com

* 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: **SEE ATTACHED APPLICATION**

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

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section. **Section 21, T17S, R32 E, 130' FSL, 1813' FEL - SECTIONS 1, 3 and 4.**

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined. **SEE SECTION 3 FOR PROPOSED WELL DESIGN. FINAL DESIGN WILL BE SUBMITTED WHEN PROPOSED WELL IS DRILLED AND COMPLETED.**

(3) A description of the tubing to be used including its size, lining material, and setting depth. **SECTION 3 AND FIGURE 4 FOR PROPOSED WELL DESIGN**

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used. **SECTION 3**

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name. **SECTIONS 1 and 4**

(2) The injection interval and whether it is perforated or open-hole. **SECTION 3**

(3) State if the well was drilled for injection or, if not, the original purpose of the well. **N/A- WELL IS NOT YET DRILLED**

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations. **N/A**

(5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any. **SECTIONS 4 and 5; APPENDICES A, B and C**

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location. **SECTION 5; APPENDICES C and D. WE WILL NOTIFY OPERATORS AND LEASEHOLD OWNERS AND SURFACE OWNERS WITHIN THE AREA OF REVIEW PURSUANT TO NMOCD REGULATIONS AND WE WILL SUBMIT AFFIDAVITS OF PUBLICATION OF NOTICE AND CERTIFIED MAIL RETURN RECEIPTS AT HEARING.**

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include: **SEE APPENDICES C and D FOR DRAFT OF PUBLIC NOTICE – AFFIDAVIT OF PUBLICATION OF NOTICE FROM NEWSPAPER WILL BE SUBMITTED AT HEARING.**

(1) The name, address, phone number, and contact party for the applicant;

(2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;

(3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

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1.0 EXECUTIVE SUMMARY

On behalf of Frontier Field Services, LLC (Frontier), Geolex®, Inc. (Geolex) has prepared and is hereby submitting a complete C-108 application for approval to drill, complete and operate a combined acid gas injection and CO_2 sequestration well (Maljamar AGI #1) adjacent to the Frontier Gas Plant which is located on approximately 19 acres in Section 21, T17S, R32E near Maljamar in Lea County, New Mexico (Figure 1). The well will be drilled vertically at 130 feet from the south line and 1,813 feet from the east line of Section 21 (Figure 2).

The Maljamar AGI #1 is anticipated to have a total depth of approximately 10,000 feet in the lower Leonard and Wolfcamp series along the northern margin of the Delaware Basin (Permian). The primary proposed injection zone will be within a porous debris and algal mound carbonate facies in the Wolfcamp with secondary potential targets in the lower Leonard. All of these zones are between 9,300 and 10,000 feet. Analysis of the reservoir characteristics of these units confirms that they act as excellent closed-system reservoirs that should easily accommodate the future needs of Frontier for disposal of acid gas and sequestration of CO_2 from the plant. Frontier needs to safely inject up to 2.0 million standard cubic feet (MMSCF) per day of treated acid gas (TAG) for 30 years. Geologic studies conducted for the selection of this location demonstrate that the proposed injection zone is readily capable of accepting and containing the proposed acid gas and CO_2 injection volumes well 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 zones (lower Leonard and Wolfcamp);
- The past and current uses of the proposed intervals;
- Total feet of net porosity in the Wolfcamp;
- The stratigraphic and structural setting of the targeted zones relative to any nearby active or plugged wells, and other wells penetrating the intervals;
- The identification of and sample notification letter that will be sent to all surface owners within a one mile radius of the proposed injection well;
- The identification of all wells within a two mile radius 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;
- 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;
- The preliminary revision of the existing Rule 11 plan for the facility to accommodate the proposed changes in operation and the new AGI facility (to be submitted in final form before commencing injection of acid gas).

Based upon this detailed evaluation, as summarized in this application, Frontier 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 by permanently sequestering a significant volume of CO_2 which would otherwise continue to be released to the atmosphere and the flaring of H_2S which currently takes place at the Plant. At the expected ratio of 12% H_2S and 88% CO_2, injecting 2.0 MMSCFD will sequester 10.7 tons of H_2S and 101.2 tons of CO_2 per day.

Our research has identified one primary and two secondary AGI targets in the algal-mound and slope-debris facies of the lower Leonard and Wolfcamp intervals, a series of thick (up to 200 feet) porous deposits formed along the former shelf break of the Delaware Basin isolated within tight mudstones and micrites, located approximately 9,000 to 10,000 feet below the plant.

Our geological evaluation shows that the most promising zone is the lower Wolfcamp Reservoir. This unit lies between approximately 9,800 to 10,000 feet, has an area of 190 acres, and an estimated net capacity of 24.2 million barrels of TAG. Additional potential reservoirs lie in the lower Leonard, above the Wolfcamp, and include:

- The lower Leonard Reservoir #1, lying at depths of approximately 9,300 to 9,400 feet, with an extent of 64 acres, a net porosity of 33 feet, and an estimated capacity of 9 million barrels of TAG, and
- The lower Leonard Reservoir #2, at depths from 9,450 to 9,550 feet, with an area of 53 acres, 17 feet of net porosity, and a estimated capacity of 3.8 million barrels of TAG.

Although the Wolfcamp reservoir is our primary target, we will log and, if promising, perforate and test the lower Leonard zones to determine their feasibility for TAG injection.

These reservoirs are effectively sealed laterally and above and below by the much less permeable adjacent facies. These less permeable rocks consist of finer-grained deeper water sediments from the transgressive units that were deposited during and after the deposition of the porous algal mound/detrital faces.

At the anticipated reservoir conditions (130°F and 3400 psi), each million standard cubic feet of TAG will be compressed to 425 barrels (2,387 cubic feet).

As an example of the injectibility of these reservoirs, we have researched the injection capacity of two salt water injection (SWD) wells completed in the lower Wolfcamp located south of the Frontier plant:

- COG Operating LLC Federal BI 001, 0.9 miles south in Section 28 (injected 3,900 BBL/Day in 2010),
- COG Operating LLC Maljamar SWD 29 001, 1.2 miles south in Section 29 (injected 2,500 BBL/Day in 2010)

The performance of these wells clearly demonstrates the capacity of similar, though not connected, units in this formation. Based on these data, we have concluded that the Leonard and Wolfcamp mounds provide ample porosity, permeability and volume to serve Frontier's injection needs.

Although 201 wells are listed within one mile of the proposed AGI, only 12 wells, of which six are active and six plugged, penetrate into or through the Wolfcamp. NMOCD files show that all of the twelve wells have been completed and/or plugged in a manner that will effectively isolate the Wolfcamp interval.

None of the six active wells produce from the Wolfcamp. The nearest well active in the Wolfcamp is the Federal B1 001 salt water injection well, approximately one mile south of the plant. Two other active wells have been plugged back to shallower zones (ie, San Andres), again isolating the Wolfcamp. The remaining two active producing wells are producing from the Devonian (13,600 feet) and the McKee (14,800 feet). Therefore, the proposed AGI activities into the confined lower Wolfcamp algal mound will not cause any impacts to existing production and/or plugged wells.

In addition to providing a safe and adequate reservoir for H_2S and CO_2, the geologic environment is ideal to demonstrate the required capture and sequestration of CO_2 to obtain future credits or offsets.

Active oil and gas leases in the one-mile area are held by ConocoPhillips Company and COG Operating LLC. With the exception of plant property owned by Frontier and Mid-America, all of the adjacent lands within one mile are federal lands administrated by the Bureau of Land Management and some minor amount of state land. All surface owners and operators within a one-mile radius of the proposed injection well will be notified at least 20 days prior to the NMOCD hearing pursuant to the requirements of NMOCD.

There is no permanent body of surface water within several miles of the plant. A search of the New Mexico State Engineer's files shows that only one water well (owned by Reliant Processing, approximately 0.1 miles southwest of the Gas Plant) lies within one mile of the proposed AGI. This well has a total depth of 158 feet. Available information shows that groundwater occurs at a depth of approximately 70 to 85 feet, and is hosted by the sandstones in the underlying Triassic Dockum Group. The planned well design will completely isolate the fresh water-bearing zones through the Rustler (source of the deepest groundwater) by surface casing that will be cemented to the surface. The proposed injection zone is a closed system, and there are no open faults, fractures, or other structures that could potentially serve as a pathway between the proposed injection zone and any sources of fresh water.

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 herein.

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), and

In addition, this application includes the following supporting information:

- Appendix A: Wolfcamp Formation Fluid Analysis and Analyses of Frontier Maljamar Gas Plant TAG.
- Appendix B: Table and Map of Water Wells within One Mile Area of Review and Groundwater Analyses
- Appendix C: Maps and spreadsheets 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 a CD with complete NMOCD file on each plugged and active well penetrating the Wolfcamp within one mile of the proposed AGI.
- Appendix D: Maps and spreadsheets identifying operators, lessees, surf ace owners and other interested parties for notices, copies of notice letters and certified mail receipts, and copies of the public notices for the hearing.

It is anticipated that this application shall be the subject of a NMOCD hearing on June 23, 2011.

3.0 PROPOSED CONSTRUCTION AND OPERATION OF MALJAMAR AGI #1 WELL

The proposed injection well will be drilled adjacent to the Frontier Plant Site in Unit O, 130 feet from the south line and 1813 feet from the east line of Section 21, T17S, and R32E at. Figure 2 shows the proposed location of the new well. Frontier will apply for an operator number and file the required bond for the proposed Maljamar AGI #1 upon approval of this C-108 and prior to commencement of drilling.

3.1 CALCULATED MAXIMUM INJECTION PRESSURE

The well will be designed and constructed such that it will serve as the injection conduit for a stream of treated acid gas. The treated acid gas stream (TAG) will be of approximately the following composition:

- 88% CO_2
- 12% H_2S
- Trace Components of $C_1 - C_7$

The total volume of TAG to be injected under this scenario will be approximately 425 barrels per day for each million cubic feet at reservoir conditions. Pressure reduction valves will be incorporated to assure that maximum surface injection pressure allowed by NMOCD will not be exceeded.

The calculated maximum allowable injection pressure would be approximately 2,973 psi (depending on specific gravity of final TAG 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 final specific gravity of the injection stream according to the following formula:

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

and $PG = 0.2 + 0.433\ (1.04 - SG_{tag})$ where:

SG_{tag} = specific gravity of treated acid gas (pressure and temperature dependent; calculated as the average density in the tubing, using surface conditions of 100°F and 1,500 psi, and bottom hole conditions of 100°F and 3,400 psi; see Table 1 for details)

For the maximum requested injection volume (2 MMSCF/Day) it is assumed that:

$SG_{tag} = 0.78$
$D_{top} = 9{,}500$ feet

Therefore:

$$PG = 0.2 + 0.433\ (1.04 - 0.78) = 0.313$$

$$IP_{max} = PG(D_{top}) = 0.313 \times 9{,}500 = 2{,}973 \text{ psi}$$

Based on the performance of the existing injection well, it is anticipated that the average injection pressure would not exceed 2,973 psi. Based on the above calculations, Frontier is requesting approval of a maximum injection pressure to be 2,973 psi at the surface.

Table 1: Pressure and Volume Calculations for TAG, Proposed Frontier Maljamar AGI #1

PROPOSED INJECTION STREAM CHARACTERISTICS

TAG	H_2S	CO_2	H_2S	CO_2	TAG
Gas vol MMSCFD	conc. mol %	conc. mol %	inject rate lb/day	inject rate lb/day	inject rate lb/day
2	12.00	88.00	22781	215734	238516

CONDITIONS AT WELL HEAD

Well Head Conditions		TAG							
Temp F	Pressure psi	Gas vol MMSCFD	Comp CO_2:H_2S	Inject Rate lb/day	Density[1] kg/m^3	SG[2]	density lb/gal	volume ft^3	volume bbl
100	1500	2	88:12	238516	663.70	0.66	5.54	5754	1025

CONDITIONS AT BOTTOM OF WELL

Injection Zone Conditions					TAG				
Temp F	Pressure[3] psi	$Depth_{top}$ ft	$Depth_{bottom}$ ft	Ave. Thick. ft	Density[1] kg/m^3	SG[2]	density lb/gal	volume ft^3	volume bbl
100	3400	9500	9750	250	896.03	0.90	7.48	4262	759

CONDITIONS IN RESERVOIR AT EQUILIBRIUM

Injection Reservoir Conditions					TAG				
Temp[5] F	Pressure[3] psi	Ave. Por. %	Swr	Porosity[6] ft	Density[1] kg/m^3	SG[2]	density lb/gal	volume ft^3	volume bbl
130	3400	12	0.45	16.5	799.90	0.80	6.68	4774	850

CONSTANTS

	SCF/mol	
Molar volume at STD	0.7915	
	g/mol	lb/mol
Molar weight of H_2S	34.0809	0.0751
Molar weight of CO_2	44.0096	0.0970
Molar weight of H_2O	18.015	0.0397

[1] Density calculated using AQUAlibrium software

[2] Specific gravity calculated assuming a constant density for water

[3] PP is extrapolated using successful Drill Stem Tests at nearby wells

[4] Thickness is the ave. total thickness of coarse sand units in the reservoir zone

[5] Reservoir temp. is extrapolated from bottomhole temp. measured at nearby wells

[6] Porosity is estimated using geophysical logs from nearby wells

CALCULATION OF MAXIMUM INJECTION PRESSURE LIMITATION

SG_{TAG}	0.78
$PG = 0.2 + 0.433\ (1.04\text{-}SG_{TAG})$	0.313 psi/ft
$IP_{max} = PG * Depth$	2970 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

Cubic Feet/day (5.6146 ft^3/bbl)	4774 ft^3/day
Cubic Feet/30 years	52312423 ft^3/30 years
Area = V/Net Porosity (ft)	3170450 ft^2/30 years
Area = V/Net Porosity (ft) (43560 ft^2/ac	72.8 acres/30 years
Radius =	1005 ft
	0.19 miles

Calculations presented in Table 1 (incorporating the compressibility of the TAG at reservoir conditions) show that, given a more detailed calculation of well pressure,. Over 30 years, a daily injection volume of 2 MMSCF/Day of TAG will occupy approximately 52.3 million cubic feet in the reservoir. As discussed in Section 4.3, a calculated gross net porosity of 30 feet in the reservoir is reduced to an effective net porosity of 16.5 feet after correcting for a residual water content of 45%. Based on a net porosity of 16.5 feet, we calculate that the 30-year injection volume will occupy approximately 72.8 acres of the reservoir, with a radius of 0.19 miles.

3.2 WELL DESIGN

While the injected fluid will be dehydrated, the line that will convey the TAG to the well from the compression facilities will be a 3 inch steel line (304 or 316) to provide added corrosion protection. The final design for the compression facilities and associated piping and layout of H_2S alarms and other safety equipment will be submitted for NMOCD review prior to commencement of injection operations as part of a revised Rule 11 plan. The schematic of the new AGI facilities and tie-in to the existing Frontier Plant are shown in Figure 3, and the preliminary design for the injection well is shown on Figure 4.

The proposed well (Maljamar AGI #1) will be a vertical well, spudded on property leased by the Frontier Field Services LLC. This design will allow Frontier to access the primary injection zone and potentially two other zones from this location. The well will be drilled vertically to a final total depth of approximately 10,000 feet.

The well will have each string of the telescoping casing cemented to the surface and will include a subsurface safety valve (SSV) on the production tubing to assure that fluid cannot flow back out of the well in the event of a failure of the injection equipment. In addition, the annular space between the projection tubing and the well bore will be filled with an inert fluid such as diesel fuel as a further safety measure which is consistent with injection well designs which have been previously approved by NMOCD for acid gas injection.

Design and materials considerations include: placement of SSV and the packer, double casing through freshwater resources and shallow production zones (Dockum and Rustler Group (groundwater), Artesia Group and San Andres-Grayburg (oil and gas production)), characterization of the zone of injection, and a total depth (TD) ensuring identification of the reservoirs. Three casing strings are proposed (Figure 4):

1. Surface casing to approximately 550 feet, beneath the Triassic "Redbeds", to protect the fresh water.
2. Intermediate casing to approximately 4,200 feet, to isolate the Permian salt units (Salado/Castile) and the productive units in the Artesia Group (Yates and Queen) and the San Andres/Grayburg.
3. Production casing extending down to the final total depth (TVD 10,000 feet). Following logging and analysis, the injection intervals will be determined, and the final depth of the long string, perforation zones and packer location will be selected.

A suitable drilling rig will be chosen for the job that will include a 5,000 psi blowout preventer (minimum) and choke manifold for any unforeseen pressures encountered. The borehole for the surface casing will be drilled with a 17 ½ inch bit to a depth of approximately 550 feet, and 13 $^{3}/_{8}$ inch, 48.0 ppf, H40, STC casing will be installed and cemented to the surface with approximately 600 sacks of cement (or amount adequate to circulate the cement to the surface). The intermediate hole will be drilled with a 12 ¼ inch bit to a depth of approximately 4,200 feet. There an 8 $^{5}/_{8}$ inch, 24.0 ppf, J55, STC surface casing string will be run and cemented to surface with approximately 1,500 sacks of cement. Visual inspections of cement returns to the surface will be noted in both the conductor and surface pipe casing jobs. Casing and cement integrity will be demonstrated by pressure-testing after each cement job.

After verifying the intermediate casing, the well will be drilled to the projected TD of 10,000 feet using a 7 $^{7}/_{8}$ inch bit.

The proposed open hole logging suite for the TD run consists of a Dual Induction, Density-Neutron-Gamma Ray Porosity and Fracture Matrix Identification (FMI) log in the lower Leonard and the Wolfcamp and a portion of the caprock and basal seal formations, with rotary sidewall cores in the Wolfcamp. A conventional core will be collected from the Wolfcamp zone to evaluate the permeability of this caprock. Additional sidewall cores may also be obtained from the Wolfcamp to allow more detailed reservoir analysis.

After the logs have been evaluated, the production casing consisting of approximately 10,000 feet of 5½ inch, 15.5 ppf, L80 casing grade will be run and cemented with an approximate total of 1500 sacks of cement. A 30 foot section of Corrosion Resistant Alloy (CRA) material will be inserted into the string at the packer setting depth to provide a corrosion resistant seat for the packer later in the job. The cementing of the long string will be accomplished in two stages. The first stage will seal the annular space from total depth (approximately 10,000 feet) to a level well above the CRA joint. This stage will employ acid-resistant cement (CORROSACEM™ or equivalent). For the second stage, a DV Tool previously inserted in the casing (at approximately 5000) feet will be used to pump the remaining cement to the surface.

Once the cement has set up, the tubing adaptor for the wellhead will be welded on the wellhead and the rig will be released. A casing integrity (pressure test) will be performed to test the casing just prior to releasing the rig. Following successful testing and the release of the drilling rig, a workover rig will be used and a cement bond log will be run to ascertain the quality of the cement bond of the production casing. It is important that a good bond be established around the injection interval as well as below the CRA joint to assure that acid gas mixed with formation water do not travel up the outside of the casing and negatively impact the integrity of the casing job.

Once the integrity of the cement job has been determined, the selected injection intervals will be perforated with approximately four shots per foot. At this location a total of 500 feet of target areas may be perforated. A temporary string of removable packer and tubing will be run, and injection tests (step tests) will be performed to determine the final injection pressures and volumes. Once the reservoirs have been tested, the final tubing string including a permanent packer, approximately 9300 feet of 2 $^{7}/_{8}$ inch, 6.5 ppf, L80 ULTRA FX premium thread tubing, and an SSV will be run into the well. A ¼ inch inconel steel line will connect the SSV to a hydraulic panel at the surface.

The National Association of Corrosion Engineers (NACE) issues guidelines for metals exposed to various corrosive gases like the ones in this well. For a H_2S/CO_2 stream of acid gas that is de-watered at the surface through successive stages of compression, downhole components such as the SSV and packer need to be constructed of Inconel 925. The CRA joint will be constructed of a similar alloy from a manufacturer such as Sumitomo. A product like SM2550 (with 50% nickel content) will likely be used. The gates, bonnets and valve stems within the Christmas tree will be nickel coated as well.

The rest of the Christmas tree will be made of standard carbon steel components and outfitted with annular pressure gauges that report operating pressure conditions in real time to a gas control center located remotely from the wellhead. In the case of abnormal pressures or any other situation requiring immediate action, the acid gas injection process can be stopped at the compressor and the wellhead shut-in using a hydraulically operated wing valve on the Christmas tree. The SSV provides a redundant safety feature to shut in the well in case the wing valve does not close properly.

After the AGI well is drilled and tested to assure that it will be able to accept the volume of injection fluid (without using acid gas), it will be completed with the approved injection equipment for the acid gas stream. The Rule 11 Plan will be finalized when the compression facility design and well connection design is complete and will be submitted for NMOCD review and approval prior to commencement of TAG injection into the Frontier AGI well. A Rule 11 Plan for the current facility at Maljamar was submitted on May 10, 2011.

4.0 REGIONAL AND LOCAL GEOLOGY AND HYDROGEOLOGY

4.1 GENERAL GEOLOGIC SETTING

The Frontier Gas Plant is located in the southern half of Section 21, T 17 S, R 32 E, in Lea County, New Mexico, approximately 3 miles southeast of Maljamar (Figure 1). The Plant is located within a physiographic area which has been referred to as the Querecho Plains by various authors including Nicholson & Clebsch (1961). This area is almost entirely covered at the surface by Holocene reddish brown dune sand underlain by a hard caliche surface or calcareous silts which may be found in buried valleys or internally drained Quaternary playas. These dune sands are locally stabilized with shin oak, mesquite and some burr-grass. There are no surface bodies of water or groundwater discharge sites within one mile of the Plant; and where drainages exist in interdunal areas, they are ephemeral, discontinuous, dry washes. A prominent outcrop of the Pliocene Ogallala Formation (Mescalero Ridge) trends to the northwest-southeast, immediately east of Maljamar. Beneath the Holocene and Quaternary deposits lies the underlying Triassic redbeds of the Dockum Group. The Triassic units are in turn underlain by the Rustler Formation and followed by the Ochoa series of evaporites including the Castile and the Salado Formations. Beneath these formations is the Permian sequence of the Delaware Basin described generally below.

4.2 BEDROCK GEOLOGY

Figure 5 is a generalized stratigraphic column showing the Permian Formations that underlie the Plant site. The Plant is located on the northern margin of the Delaware Basin province of the Permian Basin, where Permian rocks generally dip to the south as they transition from a sequence of shelf and shelf-edge carbonates and sandstones to basinal-equivalent shale, sandstones, and limestones to the west. Shallow production in the area is from the Yates, Seven Rivers, Queen, and San Andres Formations. Deeper production has been found in the Permian Paddock, and Yeso/Abo, the Pennsylvanian Cisco, Strawn and Morrow, and other targets in the Devonian and McKee (Ordovician). Please see Appendices A and B for additional information on oil and gas wells within the area of review.

The anticipated depths to formation tops at the proposed well site are:

Formation	**Depth (feet)**
San Andres	3,880
Glorieta	5,380
Tubbs	6,900
Abo (lower Leonard)	7,580
Wolfcamp	9,550
Pennsylvanian	10,000 (Est. TD at Pennsylvanian top)
Cisco	10,400
Strawn	11,400
Morrow	11,990
Mississippian	12,450
Devonian	13,500

4.3 LITHOLOGIC AND RESERVOIR CHARACTERISTICS OF THE WOLFCAMP

As seen in Figure 6, the area now underlain by the Plant was near to the shelf-basin topographic break in Wolfcamp time (290-270 million years old). Changes in eustatic and tectonic fluctuations in sea levels lead to the formation of numerous algal mound and associated detrital carbonate deposits along the inflection between the shallower shelf and the deeper basin. Higher sea levels favored the formation of algal mounds in this area, while lower sea levels caused the formation of debris fans between and below the mounds. This system has lead to the deposition of similar "reef" and fan bodies throughout the Permian system, in the Abo, San Andres and Capitan formations (Figure 7).

The algal mounds and debris fans are tabular bodies, typically elongated along the paleoshoreline, with thickness up to several hundred feet, and lateral extents of hundreds of feet to several miles. Within these units, porosity can be as high as 20%. In the surrounding muddier carbonate lagoon facies, permeability and porosity are much reduced. This geometry creates discrete reservoirs within surrounding seal rocks. These types of reservoirs have produced hydrocarbons, such as in the Abo Empire field, but also have formed barren reservoirs with good potential for AGI development. Other similar, yet isolated and distinct, Wolfcamp mound and fan facies are the three zones completed by COG Operating LLC for two salt water disposal (SWD) wells approximately one mile south of the Frontier Plant (Figure 8).

4.4 SEISMIC INTERPRETATION

Due to the discontinuous nature of the Wolfcamp mounds, we have evaluated 3-D seismic data from a two square-mile area surrounding the Plant to specifically identify and characterize their thickness and lateral extent. Our analyses have allowed us to identify three potential AGI reservoirs (lower Wolfcamp #3, lower Leonard #1, and lower Leonard #2) in the vicinity of the Frontier plant, and to provide quantitative estimates of reservoir extent and volume.

To calibrate the seismic velocities with known log data, three synthetic seismic logs were generated from acoustic logs from wells in the study area (Figure 9). This figure also summarizes a seismic structure interpretation of top of the Wolfcamp. The structure map clearly shows the shelf-basin geometry in this area, and was used as a basic tool in further evaluation of the facies, lithologies and relative porosity of the target units. Seismic analyses, integrated with log data, shows that the Wolfcamp zone has the largest lateral extent and the greatest volume. The lower Leonard units may also have some potential as secondary targets.

Figure 10 is an enhanced seismic cross-section, from the location shown in Figure 9. In this figure, the blue end of the color scale corresponds to high seismic amplitude (denser rocks), while the red end represents low amplitude (more porous units). The three target reservoirs (lower Leonard #1, lower Leonard #2, and lower Wolfcamp #3) are identified by the numbered arrows. Discontinuous low-amplitude events with underlying high-amplitude events, seen along a given horizon, are a good indication of localized porosity. In contrast, persistent low-amplitude events (black arrow in Figure 10) are more consistent with shale beds.

Figures 11 and 12 show the respective time slices and seismic cross-sections for the lower Wolfcamp unit. This unit is the most laterally extensive unit, and has excellent potential for AGI development. Although it trends towards the existing Wolfcamp producing wells to the northeast of the plant (see Figure 8), the seismic data show that there is a clear porosity barrier that isolates this zone.

Figure 13 is a time slice showing the geometry of the lower Leonard #1 (arrow 1 in Figure 10) reservoir in plan view. This map clearly shows the distribution and geometry of the porous facies in this unit, and just importantly shows that the unit is clearly bounded and sealed by much less porous surrounding rocks.

Figure 14 is a time slice showing the distribution of the porosity in the lower Leonard #2 zone (arrow 2 in Figure 10). This map shows that although the lower Leonard #2 unit is smaller and thinner than the lower Leonard #1 it still has useful volume, and is well-isolated by less porous surrounding rocks.

Figure 15 superimposes the areal extents of the three AGI-potential zones, and incorporates the estimated acreage, net porosity, and available capacity of each of the zones. These calculations can be summarized as:

- the primary injection target of lower Wolfcamp Reservoir, at 9,800 to 10,000 feet, has area of 190 acres, and an estimated capacity of 24.2 million barrels of TAG,
- the secondary injection target of the lower Leonard Reservoir #1, lying at depths of approximately 9,300 to 9,400 feet, has an extent of 64 acres, a net porosity of 33 feet, and an estimated capacity of 9 million barrels of TAG,
- the secondary injection target of the lower Leonard Reservoir #2, at depths from 9,450 to 9,550 feet, has an area of 53 acres, 17 feet of net porosity, and a estimated capacity of 3.8 million barrels of TAG.

After analysis of the geophysical logging of the proposed Maljamar AGI #1 well, specific zones will be selected for completion as AGI reservoirs. The seismic evaluation has given us confidence that:

- Effective AGI reservoirs exist in the area of the Frontier gas plant,
- The reservoirs are effectively isolated from any known or potential production in the area, and
- Specific drilling programs, locations and completion targets can be selected in a safe, cost-effective and effective manner.

4.5 CALCULATED AREAS OF FLUID INJECTION

Based on the geology described in Section 4.4, anticipated range of injection volumes, and the injection pressures and temperatures in the reservoir (see Section 3.1 and Table 1) we have calculated the range of injection areas for the anticipated ranges of injection volume, over an estimated 30-year life of the AGI well. These calculations are shown in Table 2, and shown in Figure 156.

As calculated in Section 3.1, each standard million cubic feet (MMSCF) of TAG at the surface will be compressed to approximately 425 barrels of supercritical fluid at reservoir pressures and temperature. Hence, a 30-year lifetime of injection will result in 4.6 million barrels in the reservoir per MMSCFD of TAG. As shown in the Table below, the Wolfcamp zone alone is capable of holding up to 5 times the anticipated injection rate for 30 years.

As shown in Figure 16, the proposed maximum injection rate of 2.0 MMSCFD will generate a "footprint" with an area of approximately 73 acres after considering the effect of irreducible water. This footprint will not impact any of the nearby wells.

Table 2: Calculated Volumes and Areas of TAG in Wolfcamp Reservoir						
Daily TAG Injection Volume (MMSCF)	Daily Volume of TAG in Reservoir (BBLS/D)	Total TAG Volume in Reservoir after 30 Years (BBLS)	Calculated Reservoir Volume in Wolfcamp (BBLS)	Percentage of Reservoir Occupied	Calculated Radii of Affected Area of Reservoir (Miles)	Affected Area of Reservoir (Acres)
2.0	850	9.3 Million	24 Million	38.8%	0.19	72.8

4.5 FORMATION FLUID CHEMISTRY

Formation fluid chemistry for the Wolfcamp is available from two nearby wells: Baish A 012 (API # 3002520568) located in Sec. 21, T17S, R32E, approximately 1 mile southwest of the Frontier gas plant, and Baish B 001 (API# 3002500637) located in Sec. 22, T17S, R32E, approximately 1.25 miles northeast of the Frontier gas plant. The reference information for the formation fluids is included in Appendix A.

Parameter	BAISH A 012	BAISH B 001
Mg^{++}	972	680
Na^{+}	52,298	34,704
$CO_3^{=}$	Nd	Nd
$HCO_3^{=}$	1,220	481
$SO_4^{=}$	4,400	3,900
Cl^{-}	50,000	33,000
Fe (free)	11	14
pH	7.6	7.4
$CaCO_3$	1.4	0.9

Analyses show that the formation waters are sodium/chloride brines.

4.6 GROUNDWATER HYDROLOGY IN THE VICINITY OF THE PROPOSED INJECTION WELL

In the area of the Frontier Gas Plant, the surficial deposits are relatively thin layers of aeolian sands and both active and stabilized dunes. These materials are described in the *Soil Survey-Lea County, New Mexico* (United States Department of Agriculture, 1974) as the Kermit Dune Lands and the Maljamar Fine Sands. Under these sandy deposits lie the "redbeds" of the Triassic Dockum Group, in which ground water locally occurs in sandier beds of the mudrocks characterizing the Dockum. Local depth to groundwater in the Dockum is reported to be approximately 70 feet. The only significant aquifer in the area is the Pliocene Ogallala Formation, which crops out in the Mescalero Ridge, a prominent landform seen near Maljamar, approximately 3 miles northeast of the Plant (Nicholson and Clebsh, 1961).

As seen in Figure B-1, one water well is reported within one mile of the Plant, with a total depth of 158 feet. The results of a search of the New Mexico State Engineer's files for registered water wells in this area are included in Appendix B. Also included are the available groundwater analyses for water wells in this area. The nearest well listed is in Section 3, T17S, R32E, approximately 3 miles north of the plant. This well is completed in the Ogallala Formation, and has a Total Dissolved Solids of approximately 500 mg/L (Nicholson and Clebsh, 1961).

5.0 OIL AND GAS WELLS IN THE MALJAMAR AGI #1 AREA OF REVIEW AND VICINITY

Appendix C contains a complete list based on NMOCD records of all active, temporarily abandoned, abandoned and plugged oil and gas wells within two miles (Figure C1, Table C1) and those within the one-mile radius area of review (Figure B2) of the proposed AGI disposal well.

There are 565 recorded wells within two miles of the Plant, of which 351 are active and 214 are listed as plugged and abandoned. Within one mile of the plant, there are 201 wells, of which 139 are active and 62 are plugged and abandoned. These wells are shown in Figure C2.

A review of the available NMOCD data regarding the wells within one mile of the proposed AGI well shows that of the 201 total wells, only 12 intersect and/or penetrate the proposed injection zone in the Wolfcamp. Of the total 201 wells, 148 (74%) are less than 6,000 feet deep. These wells are or were targeted into the San Andres/Grayburg, Glorieta and Paddock zones. An additional 41 wells are drilled between 6,000 feet and 8,933 feet, targeting the Yeso and/or Abo formations. All of these wells' total depths are well above the Wolfcamp, which lies from 9,100 to 9,300 feet in this area.

5.1 STATUS OF WOLFCAMP-PENETRATING WELLS WITHIN ONE MILE OF FRONTIER GAS PLANT

As shown in the Table 3 below, and in the accompanying Figure C3 in Appendix C, there are a total of 12 wells penetrating the Wolfcamp "deep wells" in the one mile area of review. Information on the wells in the one mile area of review (see Table 2 below) includes their total depth, production or injection interval and current status. A review of the available data on these wells indicates that they are cased and cemented throughout the Wolfcamp interval, effectively sealing that formation and preventing any migration of injected fluids to deeper or shallower units. A copy of the NMOCD files for these 12 wells is included on the CD in Appendix C.

Table 3: Summary of Wells Penetrating Wolfcamp within One Mile of Frontier Gas Plant

API #	OPERATOR	SPUD DATE	PLUG DATE	TOTAL DEPTH	WELL NAME	WELL TYPE	STATUS	Producing/Target/ Injection Zone	Miles From Plant
3002500751 P	CONOCOPHILLIPS COMPANY	9/20/1948 Spud-24 in Deep WC 1982	9/17/2004	10,005	QUEEN B 036 (Baish B 36)	Oil	Plugged	Wolfcamp (Dry Hole) (9965-10,040)	0.37
3002521951 P	PAN AMERICAN PETROLEUM CORP	12/20/1966	1/2/1900	13,735	BAISH B FEDERAL 002	Oil	Plugged	Wolfcamp (Dry Hole)	0.40
3002500622 P	CONOCO INC	11/12/1958	1/2/1900	13,670	BAISH A 008 (Dry in WC)	Oil	Plugged	Cisco/Abo (plugged back)	0.57
3002535252	COG OPERATING LLC	11/17/2000	na	15,026	MC FEDERAL 006	Gas	Active	Devonian	0.68
3002500745	CONOCOPHILLIPS COMPANY	8/8/1961	na	9,680	MCA UNIT 382	Oil	Active	San Andres (plugged back)	0.70
3002500614 P	CONOCO INC	11/1/1993	3/3/1993	12,778	MCA UNIT 355	Injection	Plugged	Abo/Grayburg (plugged back)	0.73
3002500634 P	CONOCO INC	4/26/1951	1/2/1900	13,573	BAISH B 005	Oil	Plugged	Devonian	0.81
3002527068	COG OPERATING LLC	10/14/1980	na	12,992	FEDERAL BI 001	Salt Water Disposal	Active	Wolfcamp (plugged back)	0.86
3002508053 P	CONOCO INC	10/28/1959	9/5/1996	13,965	MCA UNIT 303	Injection	Plugged	Grayburg (plugged back)	0.92
3002520647	COG OPERATING LLC	10/25/1964	na	9,958	MC FEDERAL 007	Oil	Active	Paddock (plugged back)	0.94
3002534647	COG OPERATING LLC	6/16/1999	na	14,912	MC FEDERAL COM 001	Gas	Active	McKee	0.99
3002520568	CONOCOPHILLIPS COMPANY	11/22/1963	na	13,717	BAISH A 012	Oil	Active	Abo (plugged back) (To 9000 Deep) WC 9705-9882	0.99

3002530363 Conoco D/22 — Baish A Oil #14 — Act. Abo/WC

3002500619 Conoco K/21 — Baish A 5 — Act. Yates .47

5.2 CEMENTING, COMPLETION AND PLUGGING

The details of the completion and/or plugging design and construction of these 12 wells are summarized in the diagrams included in Appendix C. Also included are the complete NMOCD files for these wells, in electronic form, in the accompanying CD entitled "NMOCD Files for Wolfcamp-Penetrating Wells within One Mile of the Frontier Gas Plant". Table 4 below summarizes the casing and cementing information for the plugged deep wells.

Table 4: Casing and Cement Details for Plugged Deep Wells within One Mile of Frontier Gas Plant

API #	3002500614	3002500622	3002500634	3002500751	3002508053	3002521951
Well Name	MCA UNIT 355	BAISH A 008	BAISH B 005	QUEEN B 036 (Baish B 036)	MCA UNIT 303 *	BAISH B FEDERAL 002
Distance From Plant (miles)	0.73	0.57	0.81	0.37	0.92	0.40
Status	P&A	P&A	P&A	P&A	P&A	P&A
Total Depth (feet)	12,778	13,670	13,939	10,747	13,965	13,735
Conductor Depth (feet)	178	428	100	825	444	390
Intermediate Casing Depth (feet)	4,181	5,052	2,700	4,198	4,740	4,660
Long StringCasing Depth (feet)	11,813	13,642	13,562	10,745	Dry, not cased	10,301
Conductor TOC (feet)	Surface (NMOCD Files)	Surface (NMOCD Files)	Surface (NMOCD Files)	Surface (NMOCD Files)	Surface (NMOCD Files)	Surface (NMOCD Files)
Intermediate Casing TOC (feet)	Surface (NMOCD Files)	Surface (Calculated)	Surface (NMOCD Files)	3391 feet (NMOCD Files)	Surface (NMOCD Files)	Surface (NMOCD Files)
Long String Casing TOC (feet)	4,860 feet (NMOCD Files)	5,300 feet (Calculated)	3,000 feet (NMOCD Files)	5,890 feet (NMOCD Files)	Dry Hole, not cased	6,300 feet (Calculated)
Producing/Target/ Zone	Grayburg	Cisco/Abo	Devonian	San Andres	Wolfcamp (Dry Hole)	Grayburg
Top Wolfcamp (Depth)	**9,200**	**9,118**	**9,090**	**9,320**	**9,079**	**9,105**

In the cases of Baish A 008 and Baish B Federal 002, documentation was missing for the tops of cement (TOC) of either the intermediate or long string. In these cases, the TOC was calculated using the annular volumes provided in the Halliburton "Red Book" and the amounts (sacks) of cement provided in the NMOCD files. The length of the annulus filled with the cement was calculated using a very conservative cement yield of 1.0 cubic feet per sack. This indicates that all of the plugged wells' "long string" is effectively isolated from the lower Leonard and Wolfcamp injection zones. Similarly, Table 5 below summarizes the casing and cementing for the six active deep wells within one mile of the Plant. Only well MCA Unit 383 lacked details on the long string top of cement, and a calculated TOC of 7,700 feet was developed using the method described above. This also indicates that all of the active wells' "long string" is effectively isolated from the lower Leonard and Wolfcamp injection zones.

Table 5: Casing and Cement Details for Active Deep Wells within One Mile of Frontier Gas Plant						
API #	3002500745	3002520568	3002520647	3002527068	3002534647	3002535252
WellName	MCA UNIT 382	BAISH A 012	MC FEDERAL 007	FEDERAL BI0 01	MC FEDERAL COM 001	MC FEDERAL 006
Distance From Plant (miles)	0.70	0.99	0.94	0.86	0.99	0.68
Status	Active	Active	Active	Active (SWD)	Active	Active
Total Depth (feet)	9,680	13,717	9,958	12,992	14,912	15,026
Conductor Depth (feet)	360	863	821	723	525	748
Intermediate Casing Depth (feet)	4,576	4,570	4,600	4,500	4,657	4,600
Long StringCasing Depth (feet)	9,108	10,825	9,955	12,967	14,909	13,605
Conductor TOC (feet)	Surface (NMOCD Files)	Surface (NMOCD Files)	Surface (NMOCD Files)	Surface (NMOCD Files)	Surface (NMOCD Files)	Surface (NMOCD Files)
Intermediate Casing TOC (feet)	Surface (NMOCD Files)	Surface (NMOCD Files)	Surface (NMOCD Files)	Surface (NMOCD Files)	Surface (NMOCD Files)	Surface (NMOCD Files)
Long String Casing TOC (feet)	7700 feet (Calculated)	3000 feet (NMOCD Files)	2200 feet (NMOCD Files)	1345 feet (NMOCD Files)	705 feet (NMOCD Files)	Surface (NMOCD Files)
Producing/Injection Zone	Grayburg-San Andres	Paddock	Paddock	Wolfcamp	McKee	Devonian
Top Wolfcamp (Depth)	**9,230**	**9,170**	**9,046**	**9,320**	**9,050**	**9,100**

To determine the validity of the calculations for TOC based on annular volumes, number of cement sacks, and a yield of 1.0 cubic feet of cement per sack, the same calculations were applied to the wells where known TOC's were available. A complete set of calculations for the long-string TOCs are included as Table C2 in Appendix C.

The results of this evaluation are shown in Table 6 below. Calculated versus measured TOC's are very similar, with only well Queen B 036 showing a measured TOC (5,890 feet) significantly deeper that the estimated TOC of 4,101 feet.

Table 6: Calculated vs Measures Cement Tops, Deep Wells within One Mile of Frontier Gas Plant				
Well Name	Reported TOC	Calculated TOC	Depth to Top Wolfcamp	Total Depth
MCA UNIT 355	4,860	4,489	9,200	12,778
BAISH A 008	not reported	5,300	9,118	13,670
BAISH B 005	4,480	5,167	9,090	13,939
QUEEN B 036 (Baish B 036)	5,890	4,101	9,320	10,747
MCA UNIT 303	not completed	not completed	9,079	13,965
BAISH B FEDERAL 002	not reported	6,300	9,105	13,735
MCA UNIT 382	not reported	7,700	9,298	9,680
BAISH A 012	3,000	2,710	9,048	13,717
MC FEDERAL 007	2,200	2,000	9,046	9,958
FEDERAL BI 001	1,345	3,400	9,320	12,992
MC FEDERAL COM 001	705	Surface	9,051	14,912
MC FEDERAL 006	Surface	Surface	9,099	15,026

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

Geolex contracted with MBF Land Services in Roswell, New Mexico to research land records in Lea County to obtain a listing of all operators, oil, gas and mineral lessees, and surface owners within a one mile radius of the proposed AGI well. Appendix D includes the data from that search.

Table D-1 lists operators within this one-mile radius, and Table D-2 lists the names and addresses of surface owners within the same one mile area of review. As shown in Table D-1, production in the area of review is controlled by two operators as currently listed by the NMOCD internet database. Appendix D also includes Table D-3 which lists the names and addresses surface lessees of record in the area of review, Table D-4 listing businesses included in the area of review, as extracted from the Lea County land records, and Figure D-1 is a map showing the same data.

All of these operators, oil, gas and mineral lessees 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, according to the requirements of Section XIV of the C-108 and NMOCD's current policy on applications for acid gas injection wells. A draft form of this notice to interested parties is included in Appendix D. The proposed public notice that will be published in the Lovington Daily Leader at least 20 days prior to NMOCD Hearing is also included in Appendix D.

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 proposed Maljamar AGI #1 injection well has been performed. The investigation included the analysis of available 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 date, 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. The proposed injection zone is a closed system

FIGURES

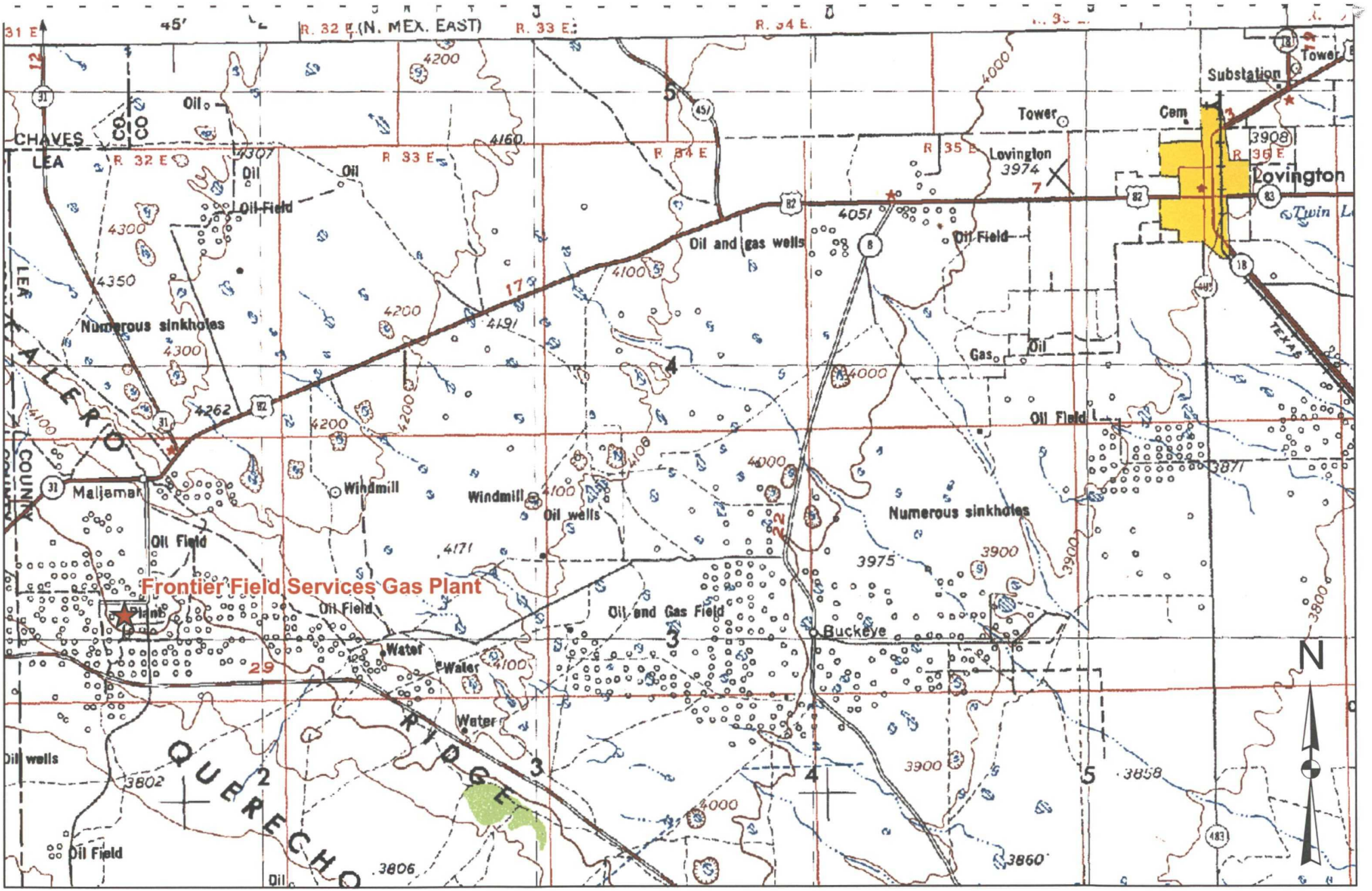


Figure 1: Location of Frontier Field Services, LLC Gas Plant

GEOLEX INCORPORATED

FRONTIER field services, llc

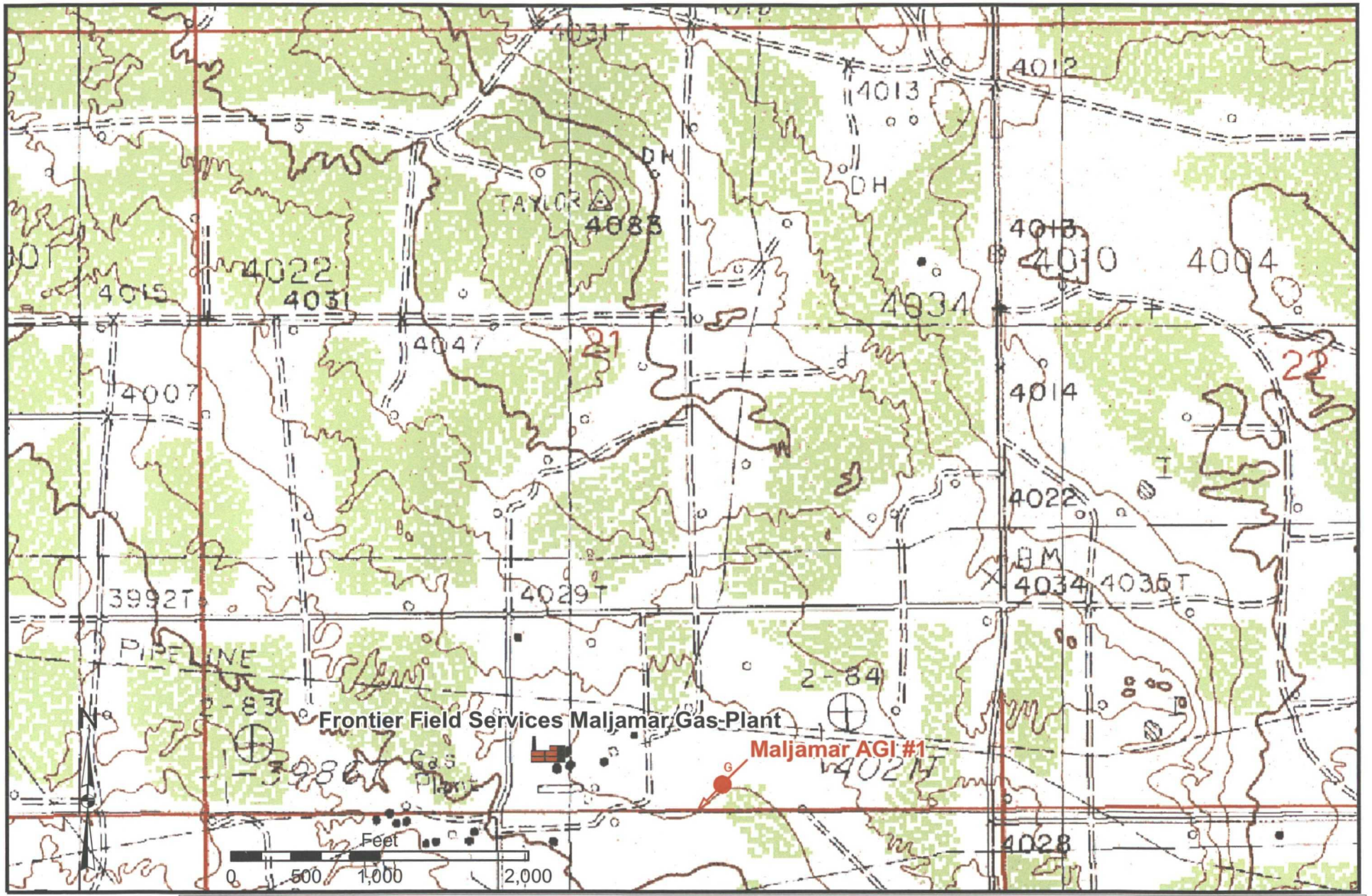


Figure 2: Location of Proposed Maljamar AGI #1
(Unit O, Section 21, T17S, R32E, 130 Feet FSL, 1813 Feet FEL, Lea Co., New Mexico))

GEOLEX® INCORPORATED

FRONTIER field services, llc southern ute indian tribe

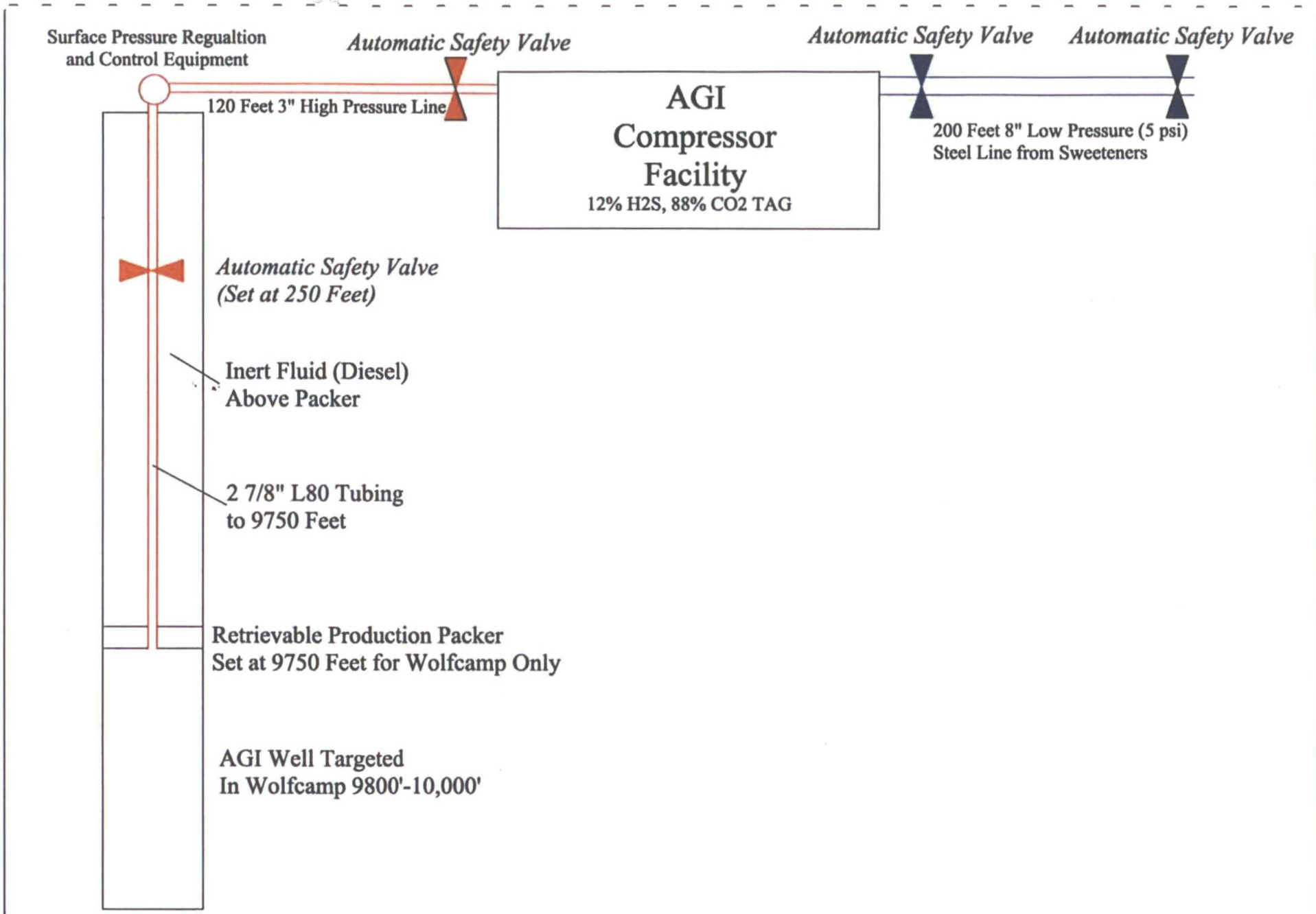


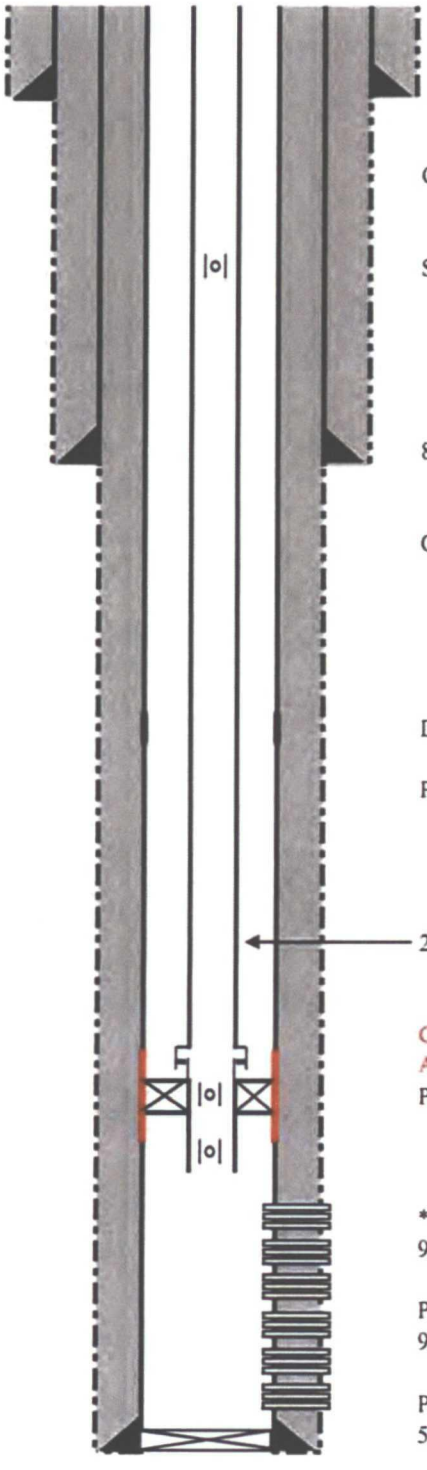
Figure 3: Schematic of Frontier Field Services, LLC Maljamar Gas Plant Acid Gas Injection System Components (Targeted Wolfcamp Completion)

GEOLEX INCORPORATED

FIGURE 4: MALJAMAR AGI #1 WELL DESIGN

FRONTIER

Location: 130' FSL & 1831' FEL
STR S22-T17S-R32E
County, St.: LEA COUNTY, NEW MEXICO



OH = 17 1/2""

13 3/8" at 5500'

OH = 12 1/4"

SSSV at ~250'

8 5/8" at 4,200'

OH = 7 7/8"

DV Tool at ~5000'

Primary TOC @ ~8,500'

2 7/8" to 9,300'

Corrosion Resistant Alloy (CRA) Joint
Packer at ~9,300'

*Possible Secondary Targets
9,300-9,550'

Primary Target
9,800' - 10,000'

PBTD @ 10,000'
5 1/2" at 10,000'

TD: 10,000'

CONDUCTOR CASING
13 3/8", 48.00#/ft, H40, STC at ~550'

SURFACE CASING:
8 5/8", 24.0 #/ft, J55, STC at ~4,200'

PRODUCTION CASING:
5 1/2", 15.5 #/ft, L80, STC at ~10,000'

ANNULAR FLUID:
Diesel Fuel from top of packer to surface

TUBING:
Subsurface Safety Valve at ~250 ft

2 7/8", 6.5#/ft, L80, Premium thread at ~9,300'

PACKER:
Permanent Production Packer
Adj. Choke (if needed, placed in nipple below packer)
Check valve (if needed, placed in nipple below packer)

PERFORATIONS:

Primary Target	Secondary Target*
Lower Wolfcamp	Lower Leonard #1
9,800' - 10,000'	9,300' - 9,400'
	Lower Leonard #2
	9,450' - 9,550'

* Depending on logging and coring results

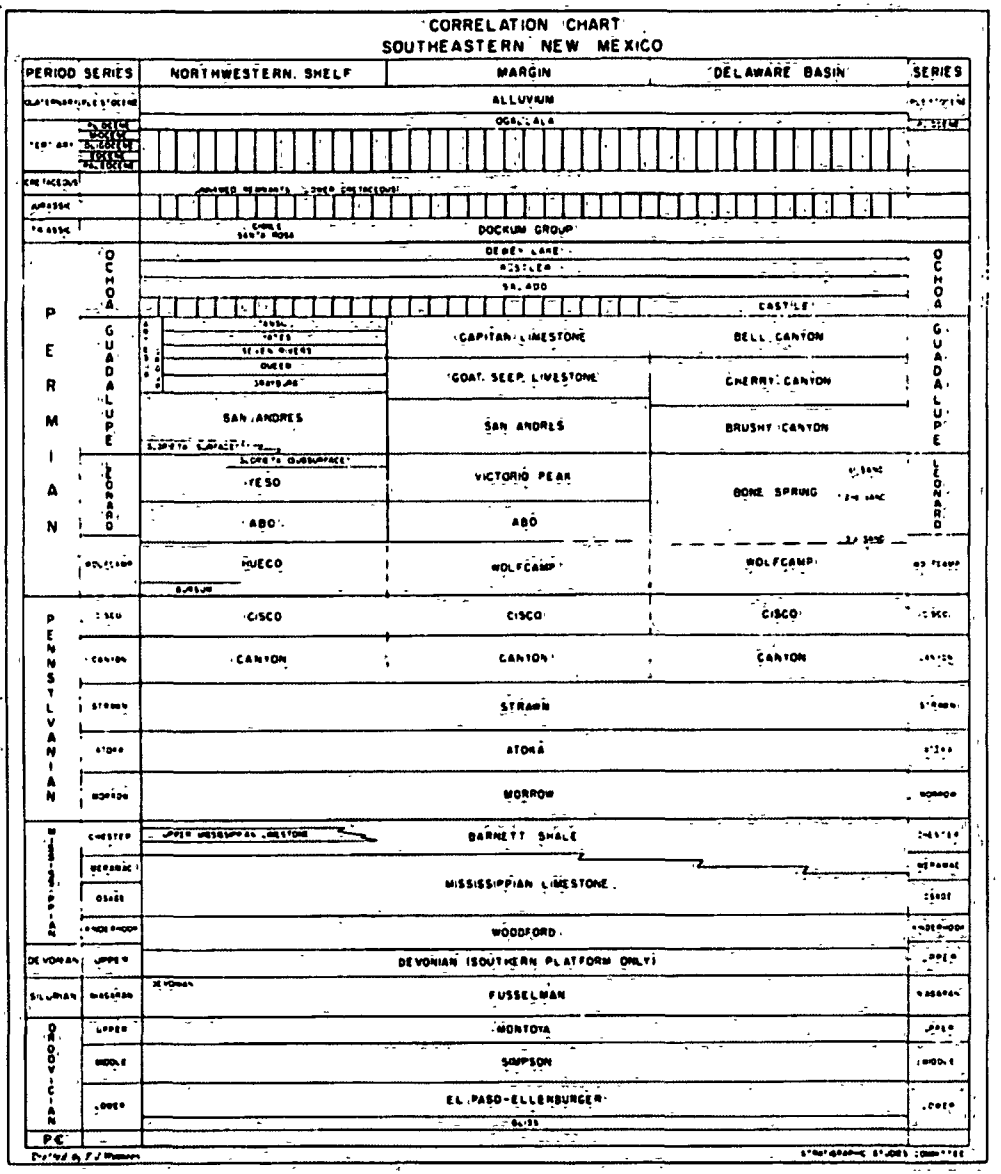


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Figure 5: Generalized Stratigraphy for Permian Basin

FRONTIER

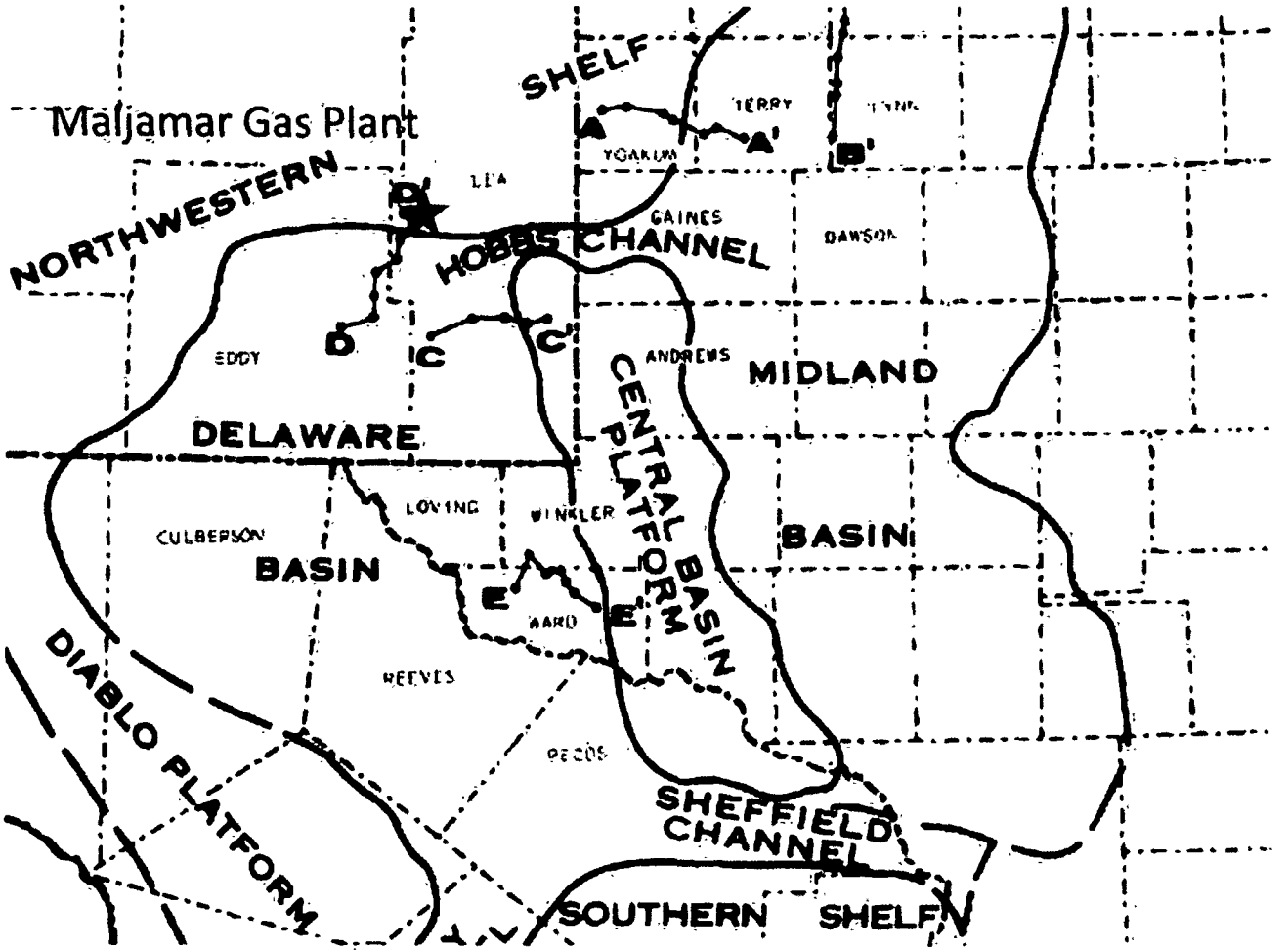

Figure 6: Structural Features of the Permian Basin

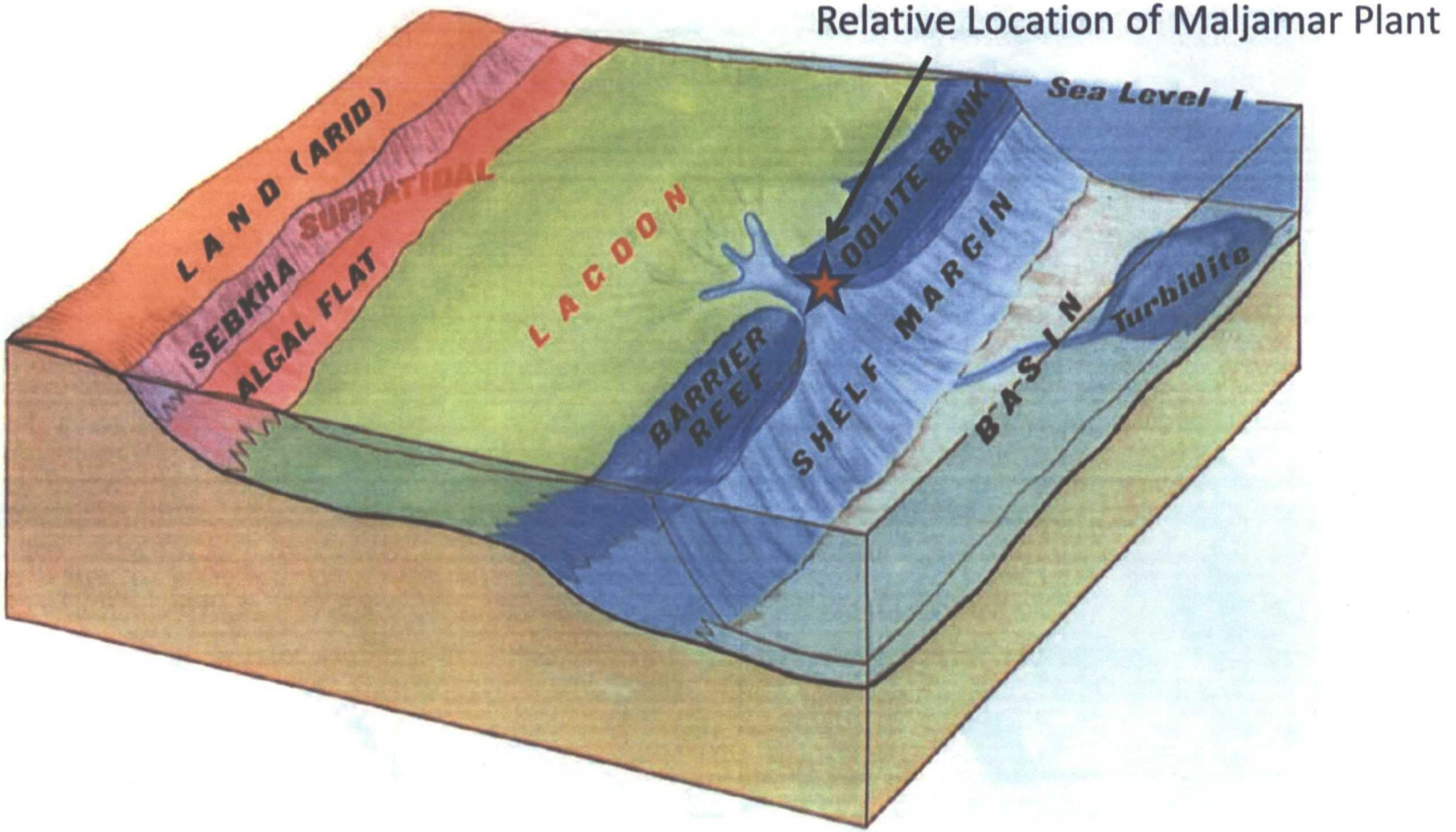

Figure 7: Location of Study Area Relative to Schematic Wolfcamp Depositional Environments

Note: Isolated detrital carbonated and reef mounds in general stratigraphic intervals of lower Leonard and Wolfcamp have limited areal extent and are confined by fine-grained deeper basin sediments.

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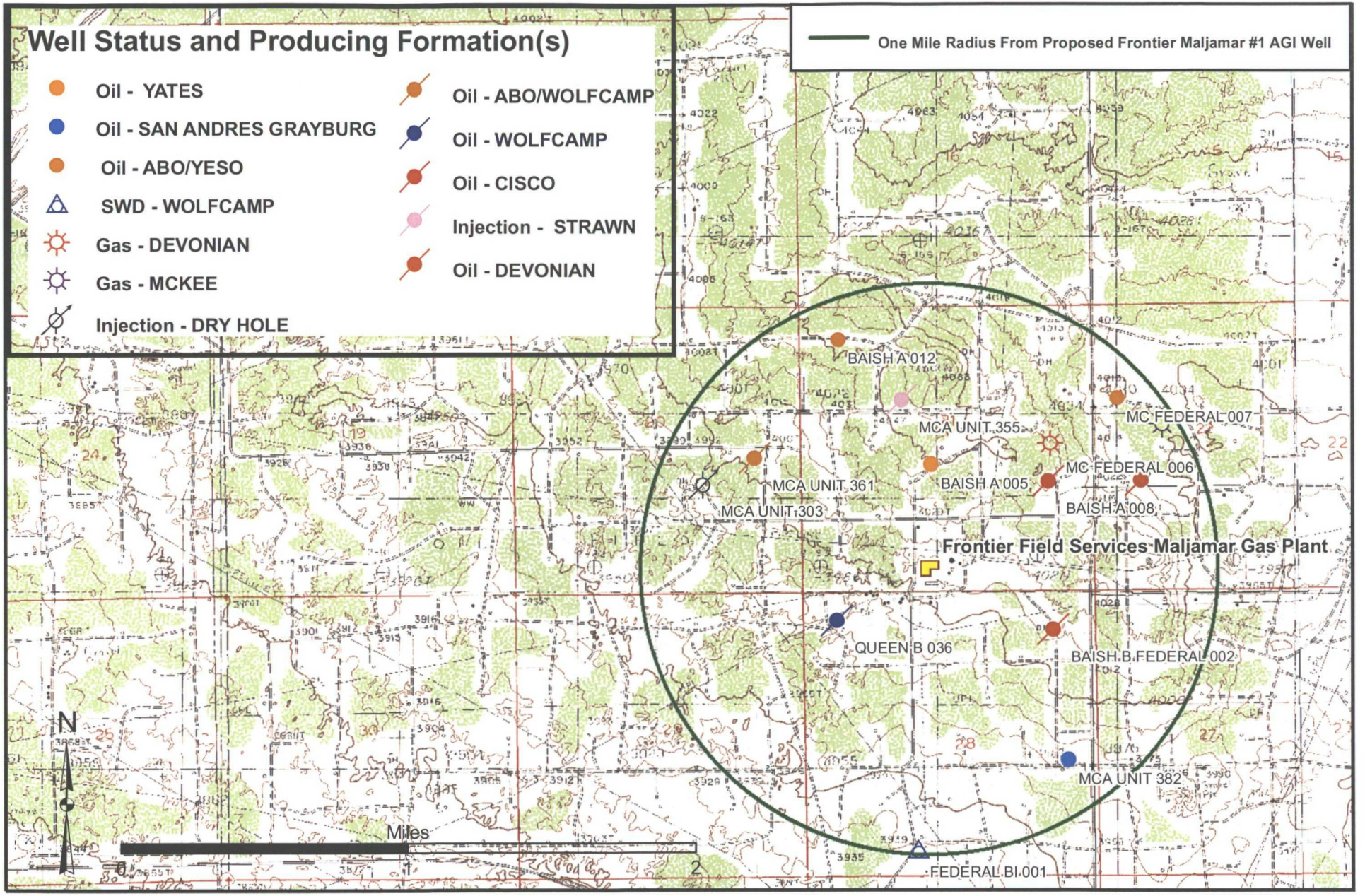

Figure 8: Deep Wells (>9,000 feet) Within Area of Review Around Frontier Field Services, LLC Maljamar Gas Plant

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FRONTIER field services, llc southern ute indian tribe

FIGURE 9: STRUCTURE ON TOP OF WOLFCAMP FROM 3-D SEISMIC INTERPRETION

Elevation on top of Wolfcamp (C. I. = 20 ft).

The location of the Maljamar Plant is indicated by the red outline.

Location of control wells where synthetic seismic profiles were constructed are indicated with black arrows.

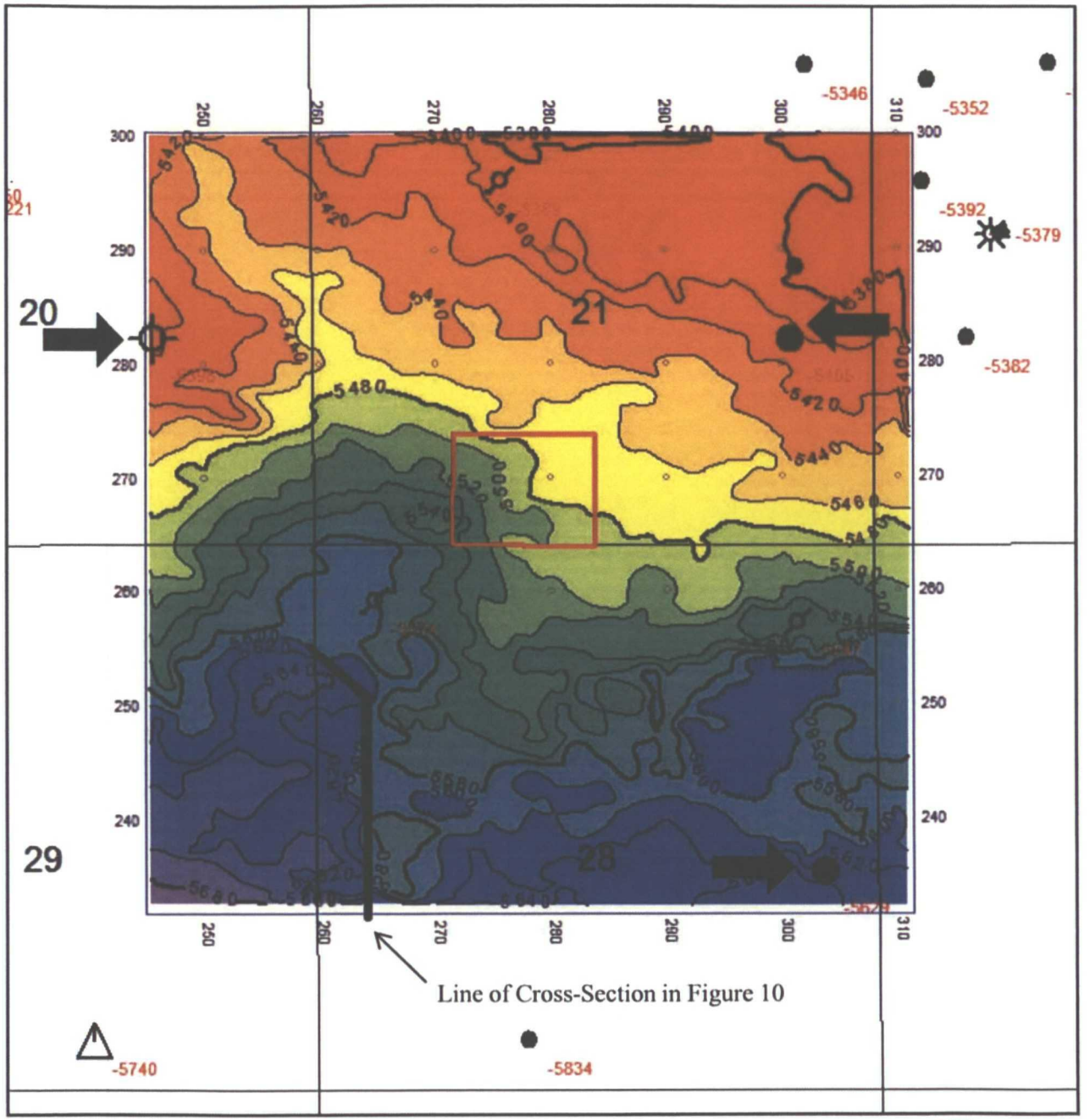

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FIGURE 10:
ENHANCED VERTICAL SEISMIC SECTION

Expanded scale, color-enhanced vertical section showing the locations of the three zones of interest (red and green arrows).

Yellow and red correspond to lower-amplitude events that, if sporadically developed along a given horizon, more likely indicate porosity development, as opposed to low-amplitude, persistent events (e.g., black arrow) which indicate shale beds.

Additionally, the presence of a strong, localized peak event directly beneath the low amplitude (porosity) events, as we particularly see under #1 and #3 (yellow dashed lines) shows strong density contrast between beds, which may also indicate development of significant porosity above.

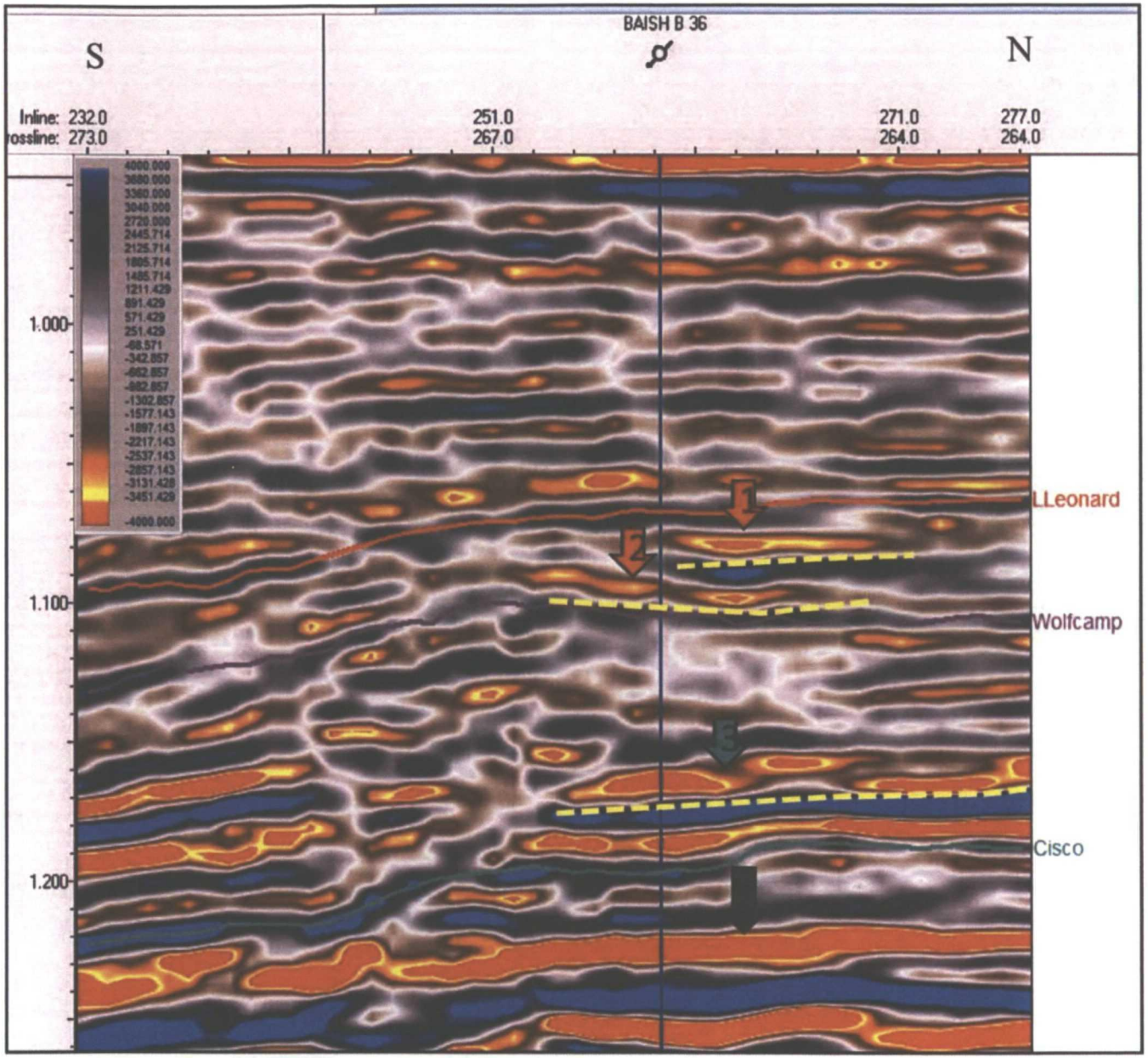

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FIGURE 11: AREAL EXTENT OF LOWER WOLFCAMP (Proposed Primary Injection Zone)

Amplitude map along the lower Wolfcamp porosity zone horizon, approximately 410 feet below the top of the Wolfcamp. The black dashed outline shows a coherent porosity trend that is underlain by a sharply contrasted, high amplitude event, and it covers 189 acres. The limits of this map represent the limits of Zone 3, except for that portion that goes off-survey to the east.

This zone is not laterally connected to the wells to the south that inject saltwater into the Wolfcamp.

The geometry of this zone suggests a possible debris apron fed by a narrow channel on its northeast boundary.

A vertical seismic section, whose trace is shown in black, is presented in the next slide.

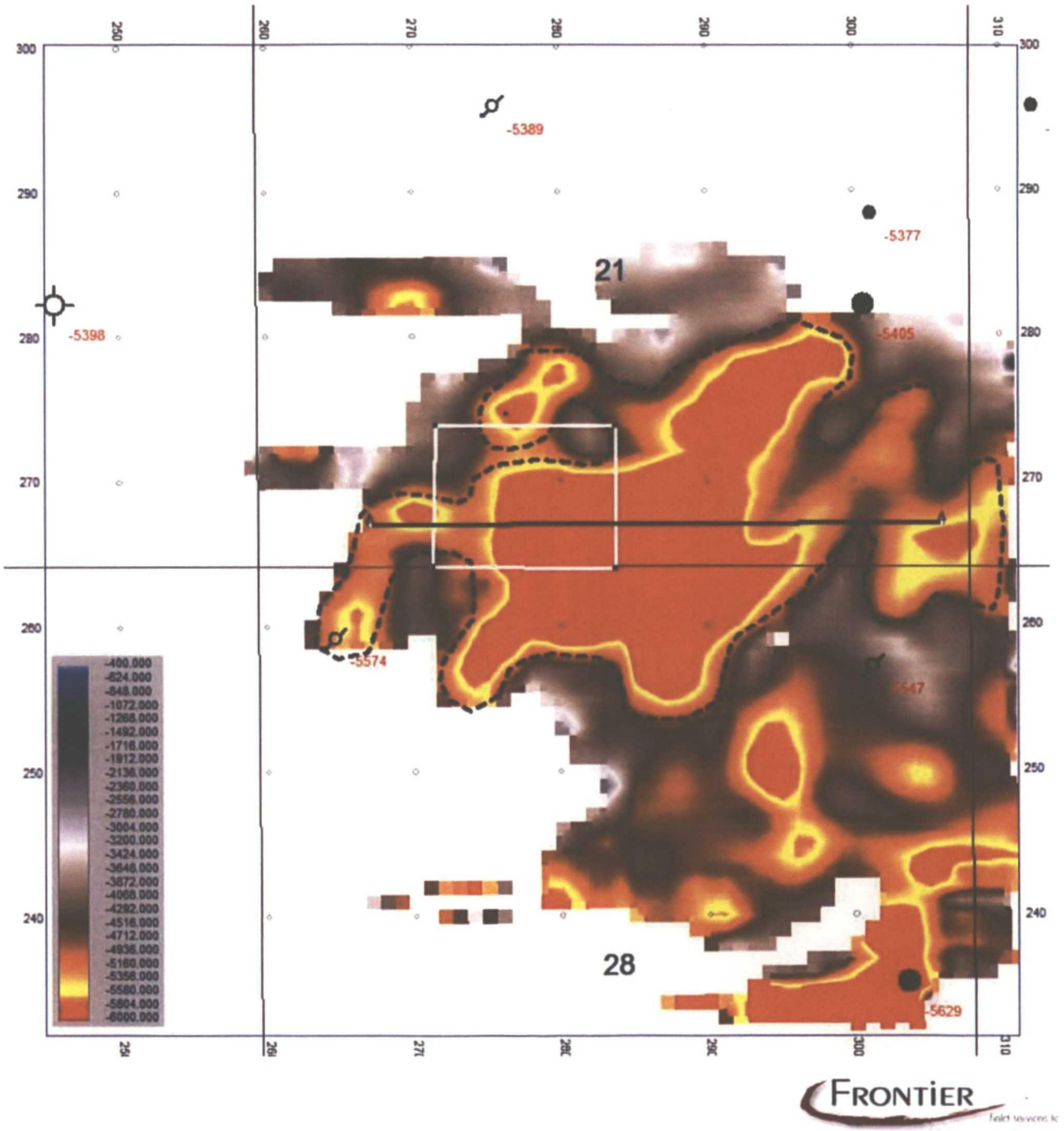

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FIGURE 12: CROSS-SECTION SHOWING EXTENT OF PROPOSED PRIMARY INJECTION ZONE (LOWER WOLFCAMP)

Vertical seismic section across the plant area (yellow bar), showing the lower Wolfcamp porosity zone (dashed black line).

Within this zone are pockets of higher porosity, noted where there is a sharper amplitude contrast between the zone and the underlying peak reflector (e.g., at red arrows). The warmer colors are thought to denote higher porosity.

The time thickness of this anomaly suggests an average porosity thickness of approximately 30 feet, with a maximum of 50 feet.

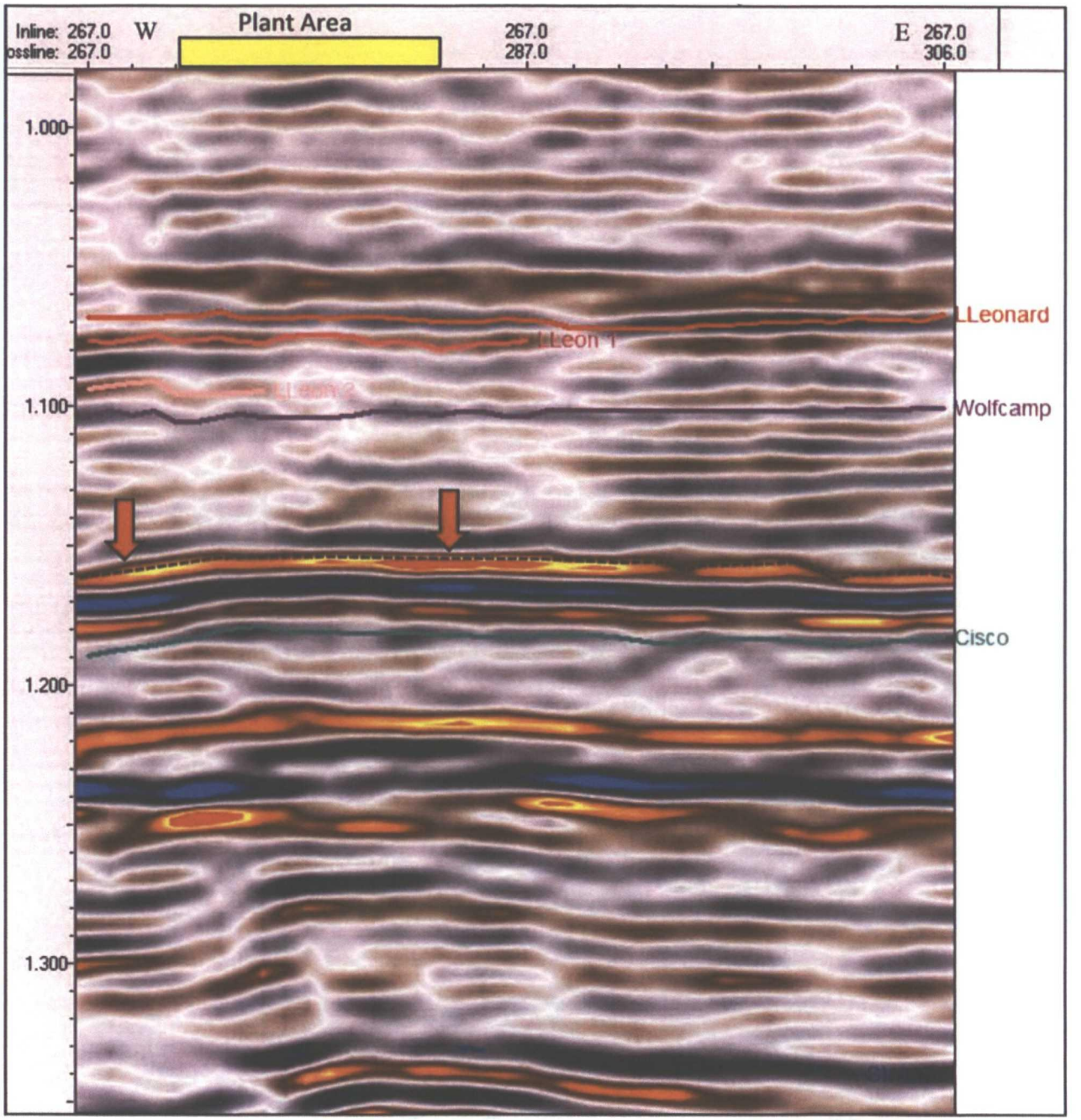

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FIGURE 13: AREAL EXTENT OF SECONDARY INJECTION TARGET (LOWER LEONARD ZONE 1)

Amplitude map along the upper Lower Leonard porosity zone horizon, approximately 225 feet above the top of the Wolfcamp. The white outline shows the plant site. The black dashed outline shows a coherent porosity trend that is underlain by a sharply contrasted, high amplitude event, and it covers 64 acres.

The limits of this map represent the limits of Zone 1. The geometry of this zone suggests a possible debris apron or a lowstand carbonate mound.

A vertical seismic section, whose trace is shown in black, is presented in the next slide.

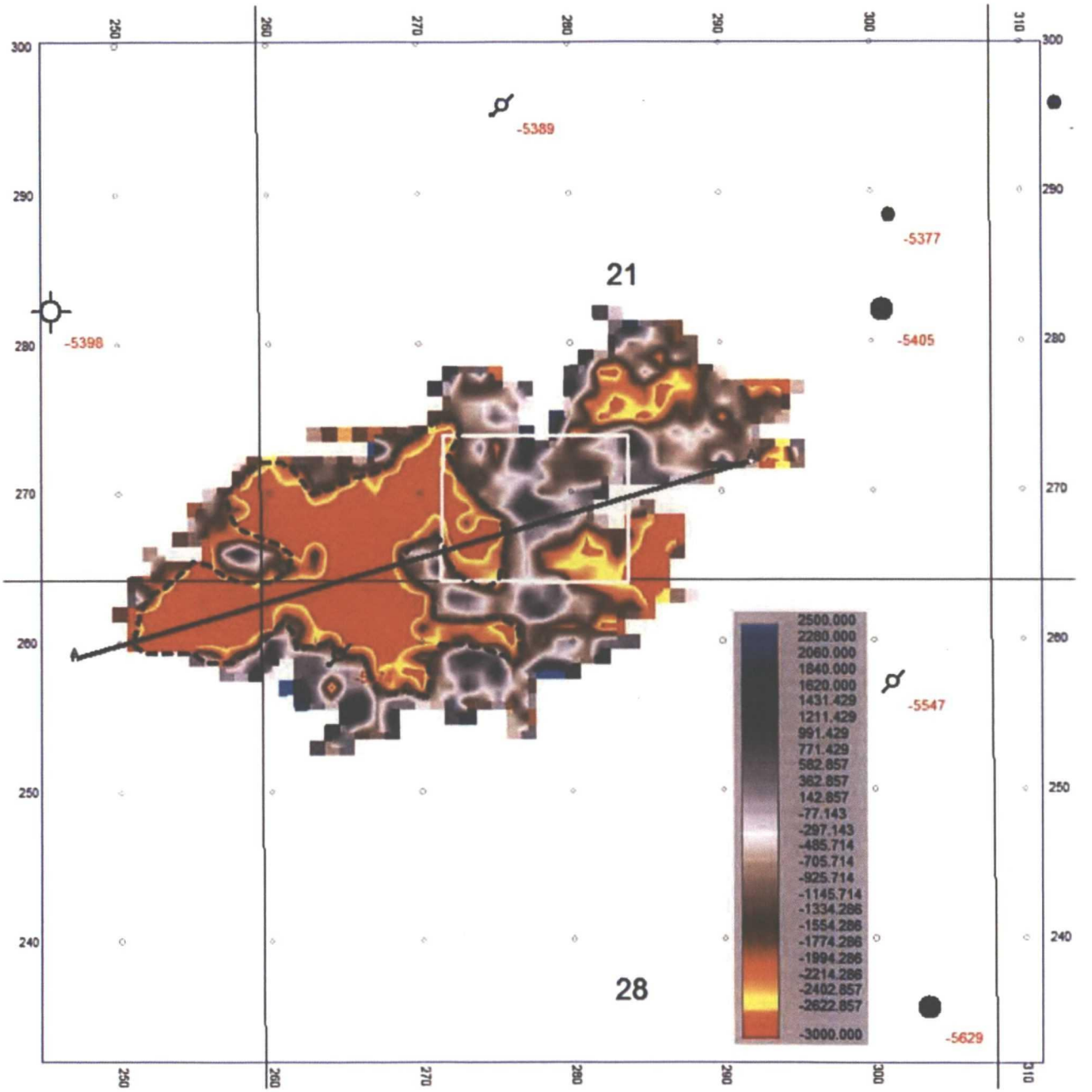

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FIGURE 14: AREAL EXTENT OF SECONDARY INJECTION TARGET (LOWER LEONARD ZONE 2)

Amplitude map along the lower Lower Leonard porosity zone horizon, approximately 85 feet above the top of the Wolfcamp.

The white outline shows the plant site. The black dashed outline shows a coherent porosity trend that is underlain by a sharply contrasted, high amplitude event, and it covers 53 acres.

The limits of this map represent the limits of the contiguous portion of Zone 2. The geometry of this zone suggests a composite channelized debris flow. The porosity zone is cut off to the south by the fault that transects the Lower Leonard section.

A vertical seismic section, whose trace is shown in black, is presented in the next slide.

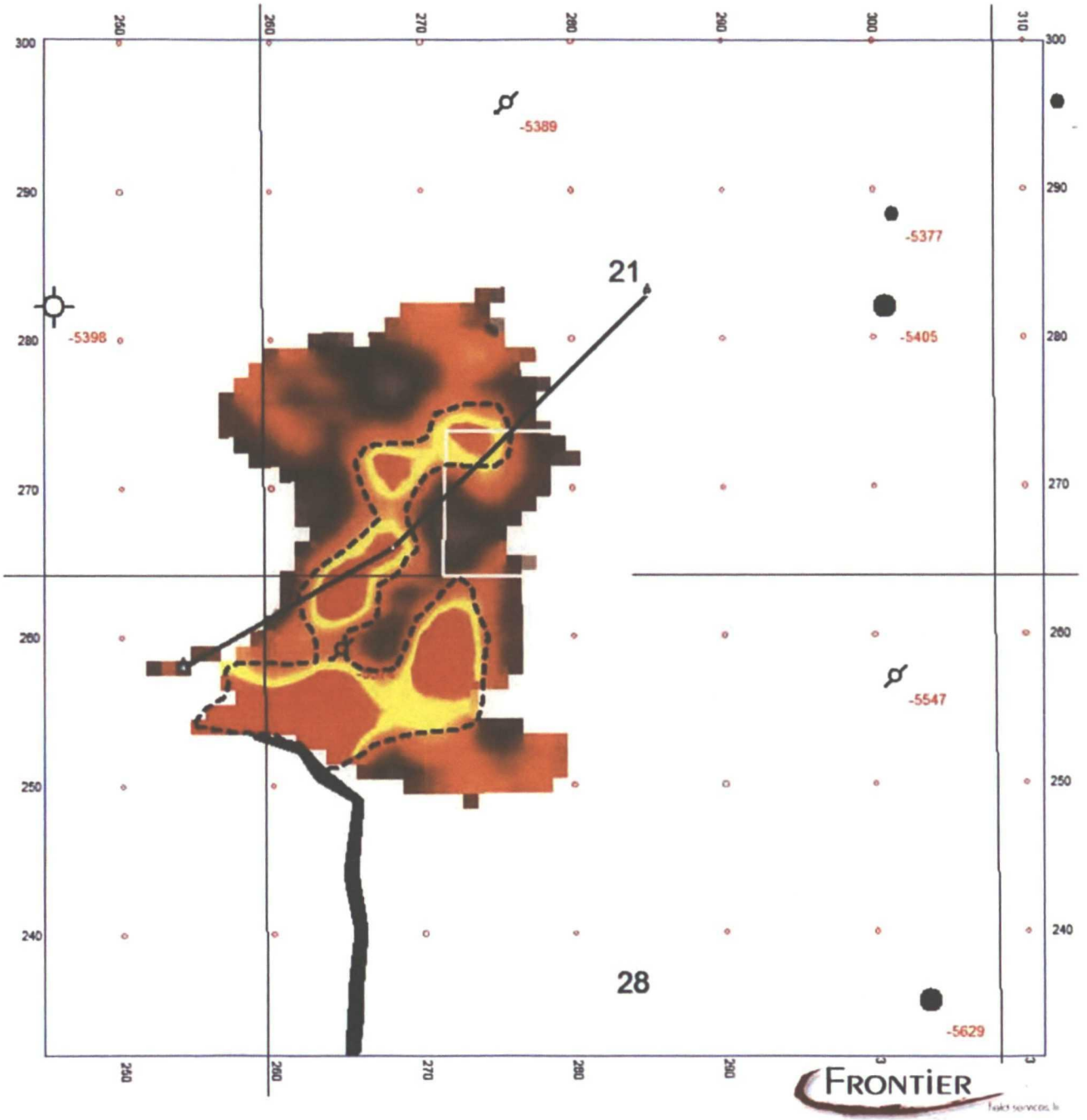

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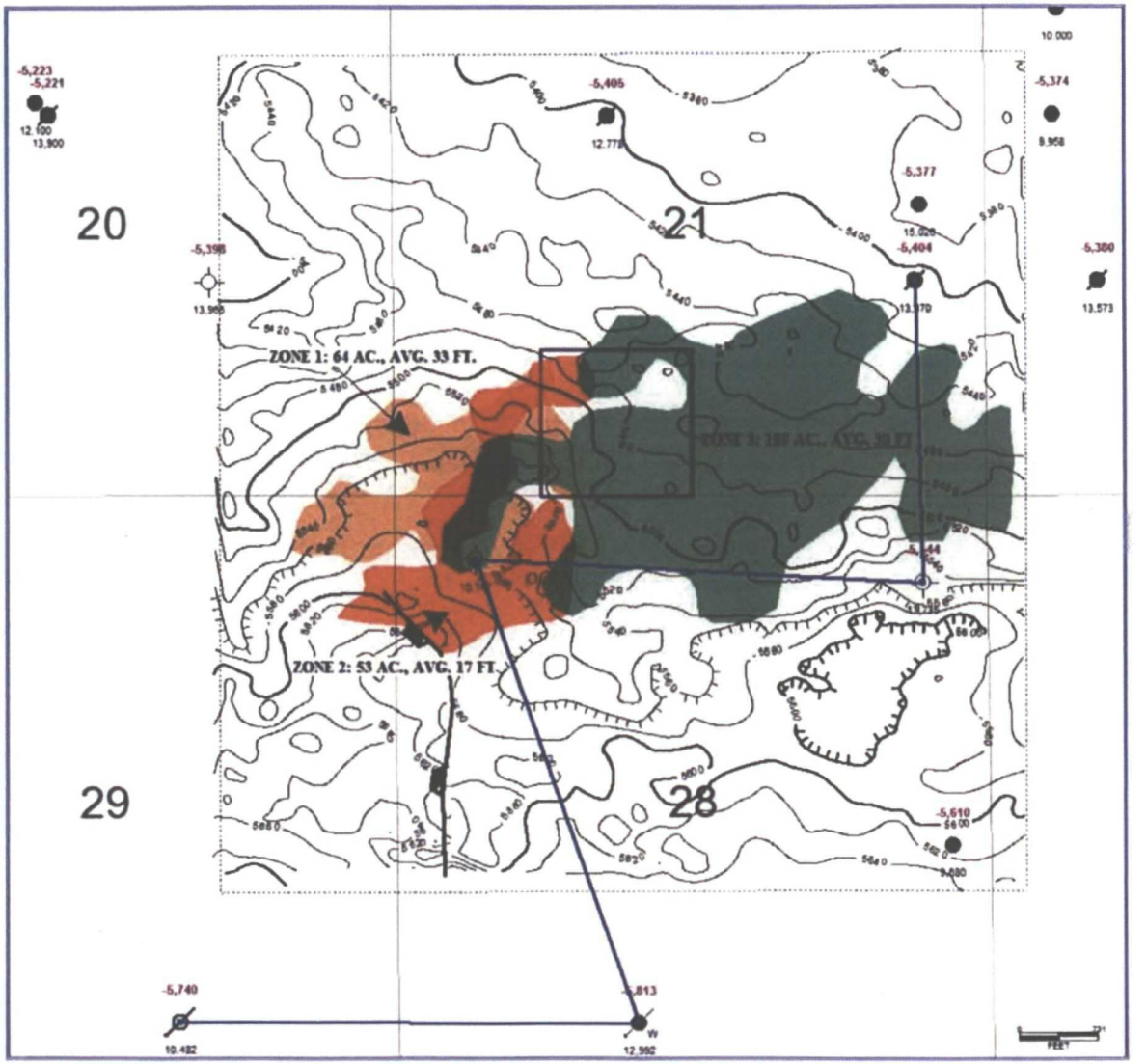
FIGURE 15: SUMMARY OF AREAL EXTENTS OF POTENTIAL AGI RESERVOIRS

Calculated properties are superimposed on the seismic depth map, top of Wolfcamp.

Lower Leonard Zone 1: 64 Acres, average net porosity 33 feet. Capacity 9 million barrels of TAG

Lower Leonard Zone 2: 53 Acres, average net porosity 17 feet. Capacity 3.8 million barrels of TAG

Lower Wolfcamp: 189 Acres, average net porosity 30 feet. Capacity 24.2 million barrels of TAG



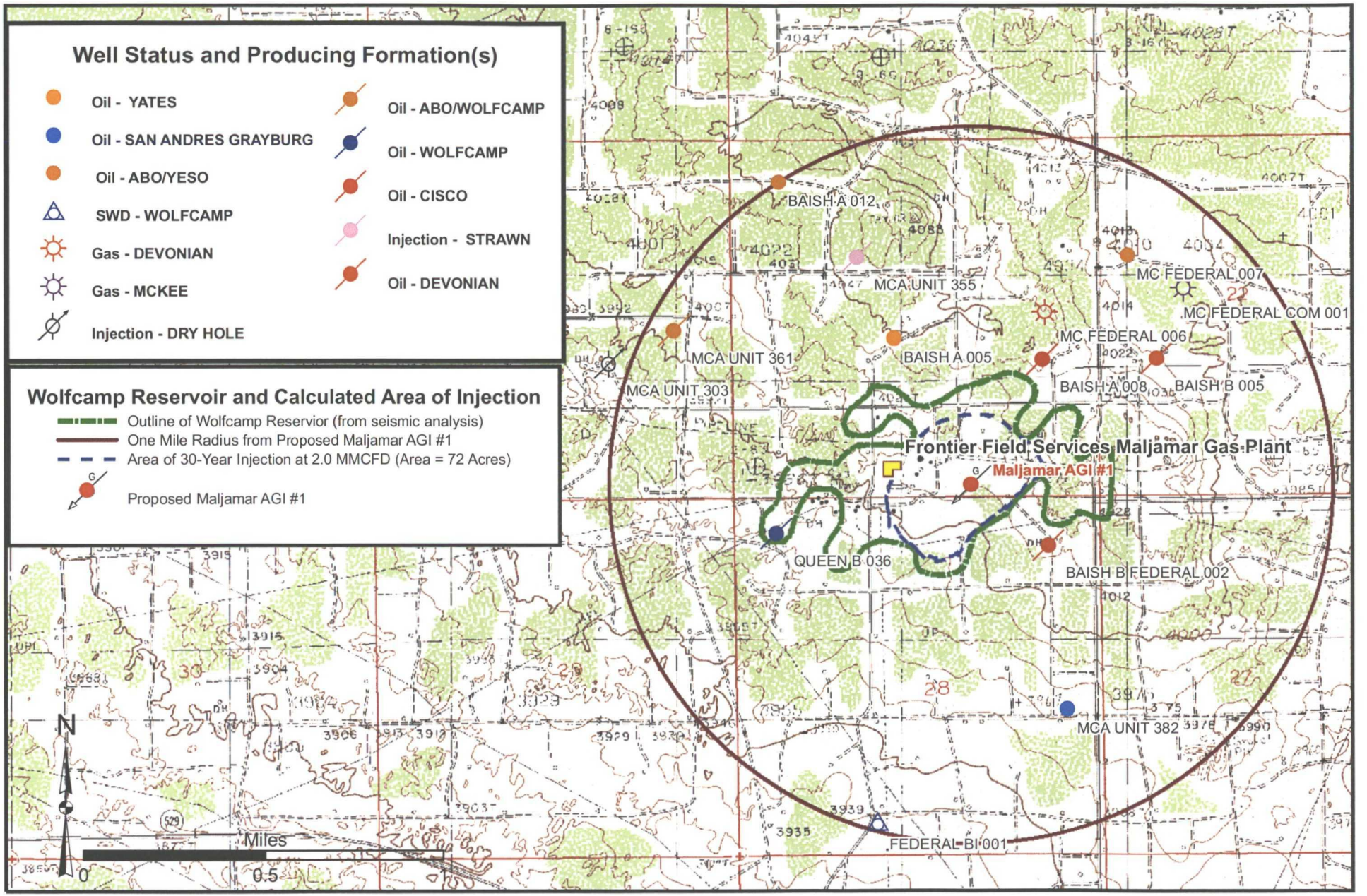


Figure 16: Calculated Area of Injection for 30 Years at 2.0 MMSCFD

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APPENDIX A

A-1 Wolfcamp Formation Fluid Analyses and Analyses of Frontier Maljamar Gas Plant TAG

Table A-1. Wolfcamp Formation Fluid Analyses

	Wolfcamp Formation	
Parameter	Baish A - 5/1/81 mg/L	Baish B - 5/1/81 mg/L
Ca^{2+}	972	680
Mg^{2+}	2360	2000
Na^{+} (calc.)	57,298	34,704
CO_3^{2-}	0	0
HCO_3^{2-}	1220	481
SO_4^{2-}	4400	3900
Cl^{-}	50,000	33,000
H_2S	strong	strong
Iron (free)	11	14
pH	7.6	7.4
SG		
O_2 (free)		
$CaCO_3$ S.I.	1.4	0.9
$CaSO_4$ S.I.	neg	neg

Data from SWD C-108 application for API # 30-025-00751, NMOCD files

LOCATION _____ FIELD Wasp Leonard WATER ANALYSIS

	mg/L	meq/L	mg/L	meq/L	mg/L	meq/L
(Ca^{++})	972		680		1507	124
(Mg^{++})	2360		2000		1723	86
(Na^{+}) Calc.	52298		34704		20655	898
(Na^{+}) Calc.	0		0		0	
($CO_3^{=}$)	1220		481		915	15
($HCO_3^{=}$)	4100		3900		1050	21.8
($SO_4^{=}$)	80000		33000		38,000	1071
(Cl^{-})	SI 2006		STR		1190	69.8
H_2S	11		14		3.8	
IRON (Fe$_{tot}$)	7.6		7.4		6.25	
PH @ °F					1.04	
Sp. Gr. @ °F	5				9.3	
O_2 (Free)	1.4		.2		-1.6	
$CaCO_3$ S.I.	neg		neg		-1.9	
$CaSO_4$ S.I.	Champion 5-1-81		Champion 5-1-81		CRD 10-19 81	
BY.... DATED	Baish A		Baish B		MCA Blk 2	

Wolfcamp Water Sample - Zone To Be Disposed into

MCA Unit (G-SA) Water to be injected

MANLEY GAS TESTING, INC.
P.O. DRAWER 193 ODESSA, TEXAS 79760
OFFICE(432)367-3024 FAX(432)367-1166 E-MAIL: MANLEYGAST@AOL.COM

CHARGE..... 150 - 0
REC. NO. 14
TEST NUMBER.. 9693

DATE SAMPLED..... 01-24-11
DATE RUN..... 02-02-11
EFFEC. DATE..... 02-01-11

STATION NO. ... 06311001

PRODUCER ..... FRONTIER FIELD SERVICES

SAMPLE NAME.... ACID GAS FLARE TYPE: SPOT

RECEIVED FROM.. FRONTIER FIELD SERVICES LLC - MALJAMAR

FLOWING PRESSURE ..... 14.1 PSIA FLOWING TEMPERATURE ..... 87 F

SAMPLED BY: BM CYLINDER NO. ... 037

FRACTIONAL ANALYSIS
CALCULATED @ 14.650 PSIA AND 60F

	MOL%	GPM (REAL)	
HYDROGEN SULFIDE...	11.500		
NITROGEN.....	0.573		
CARBON DIOXIDE.....	85.850		
METHANE.....	1.602		
ETHANE.....	0.296	0.079	H2S PPMV = 115000
PROPANE.....	0.105	0.029	
ISO-BUTANE.....	0.007	0.002	
NOR-BUTANE.....	0.026	0.008	
ISO-PENTANE.....	0.005	0.002	'Z' FACTOR (DRY) = 0.9940
NOR-PENTANE.....	0.007	0.003	'Z' FACTOR (WET) = 0.9936
HEXANES +.....	0.029	0.013	
TOTALS	100.000	0.136	CALC. MOL. WT. = 42.30

..CALCULATED SPECIFIC GRAVITIES..

REAL, DRY 1.4690

REAL, WET 1.4549

..CALCULATED GROSS HEATING VALUES..

BTU/CF - REAL, DRY 27

BTU/CF - REAL, WET 27

DISTRIBUTION AND REMARKS:

ANALYZED BY: JT
** R **

APPROVED:

APPENDIX B

Table and Map of Water Wells within One Mile Area of Review and Groundwater Analyses

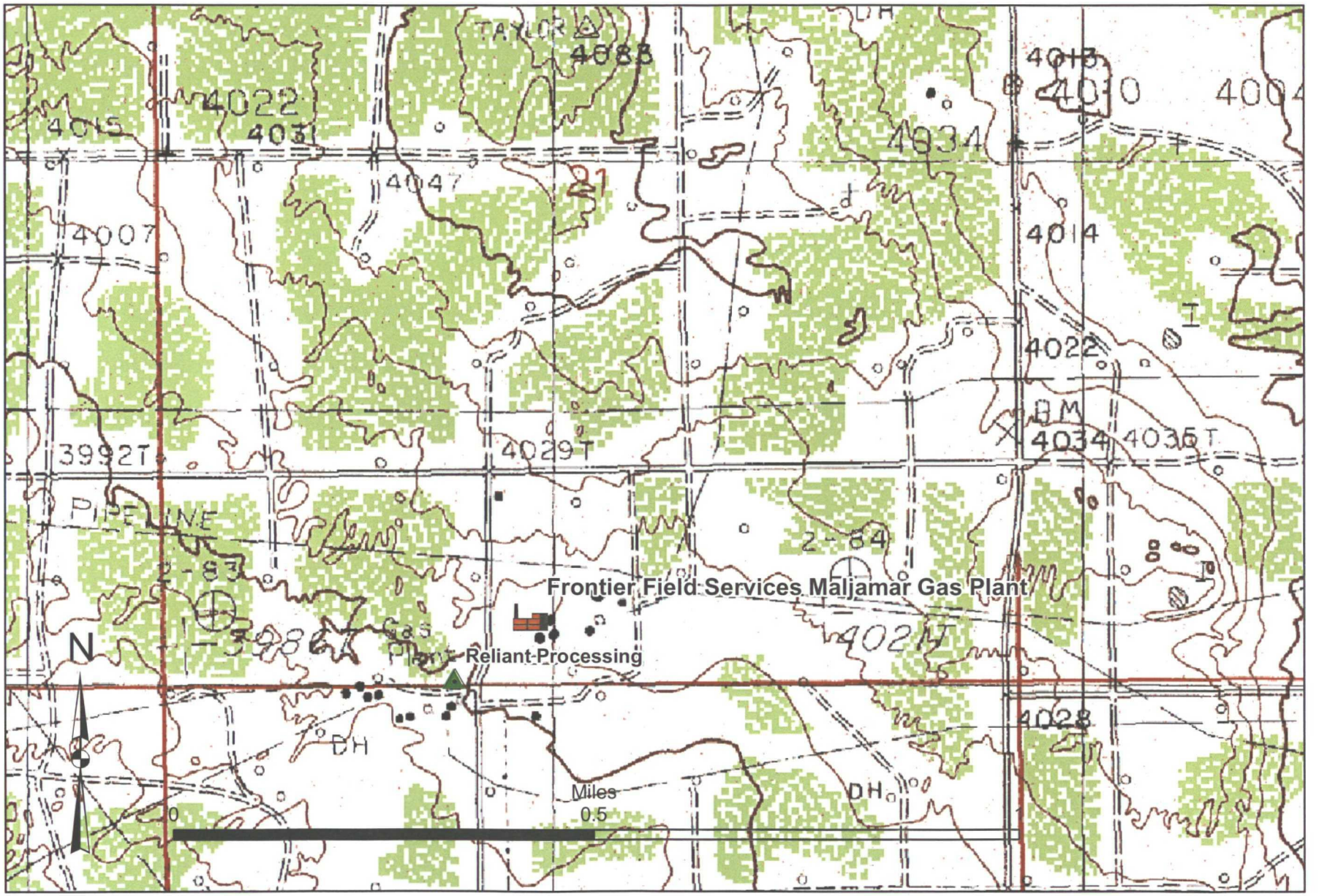

Figure B-1: Location of Known Water Wells Within One Mile of Frontier Field Services, LLC Gas Plant

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Table B-1. Water Wells Within a One Mile Radius of Proposed AGI Well

WR File Nbr (POD Number)	Subbasin	Use	Diversion	Owner	County	Source	Depth (feet)	q16	q4	Sec	Tws	Rng	X*	Y*	Distance (miles)
RA 10175		SAN	3	RELIANT PROCESSING FLO CO2	LEA	Shallow	158	2	1	28	17S	32E	614814	3631005	0.1162

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
RA 10175		2	1	28	17S	32E	614814	3631005*

Driller License: EADES, ALAN G.

Driller Name: EADES, ALAN

Drill Start Date:	02/04/2002	**Drill Finish Date:**	02/04/2002	**Plug Date:**	
Log File Date:	03/06/2002	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	5.75	**Depth Well:**	158 feet	**Depth Water:**	

Water Bearing Stratifications:	Top	Bottom	Description
	87	89	Shallow Alluvium/Basin Fill
	89	116	Shallow Alluvium/Basin Fill
	116	124	Shallow Alluvium/Basin Fill

Casing Perforations:	Top	Bottom
	118	158

Meter Number:	5380	**Meter Make:**	SENSUS
Meter Serial Number:	560656282	**Meter Multiplier:**	10.0000
Number of Dials:	6	**Meter Type:**	Diversion
Unit of Measure:	Gallons	**Return Flow Percent:**	
Usage Multiplier:		**Reading Frequency:**	Annual

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount
03/20/2002	2002	0	A	RPT		0
05/06/2002	2002	170	A	RPT		0.005
02/13/2003	2002	2410	A	PRT		0.069
02/01/2005	2004	3420	A	ch		0.031

**YTD Meter Amounts:	Year	Amount
	2002	0.074
	2004	0.031

***UTM location was derived from PLSS - see Help**

GROUND-WATER REPORT 6

Geology and Ground-Water Conditions in Southern Lea County, New Mexico

by ALEXANDER NICHOLSON, Jr.
and ALFRED CLEBSCH, JR.

UNITED STATES GEOLOGICAL SURVEY

Prepared in cooperation with the
New Mexico Institute of Mining and Technology,
State Bureau of Mines and Mineral Resources Division
and the New Mexico State Engineer

1961

STATE BUREAU OF MINES AND MINERAL RESOURCES
NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY
CAMPUS STATION SOCORRO, NEW MEXICO

TABLE 8. CHEMICAL ANALYSES OF WATER FROM WELLS IN SOUTHERN LEA COUNTY, N. MEX.

(Analyses by U.S. Geological Survey except as noted; chemical constituents in parts per million and equivalents per million [underscored].)

Sample	Location number*	Date of collection	Geologic source†	Depth (ft)	Silica (SiO_2)	Calcium (Ca)	Magnesium (Mg)	Sodium plus potassium (Na+K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (sum)	Hardness as $CaCO_3$ Calcium	Hardness as $CaCO_3$ Magnesium	Percent sodium	Specific conductance (micromhos at 25°C)	pH
1	17.32.3.140	7-21-54	To	—	—	—	—	34	194	0	25	17	—	—	—	136		35	419	—
						2.72		1.46	3.18		.52	.48								
2	17.33.18.322	7-19-54	To	220	—	—	—	27	177	0	40	23	—	—	—	160		27	442	—
						3.20		1.18	2.90		.85	.65								
3	19.32.8.200	12- 9-58	Tr	—	19	10	13	131	306	0	74	21	1.2	6.4	426	80		78	682	8.0
						.50	1.10	5.71	5.02		1.54	.59	.06	.10						
4	19.34.9.114	12- 9-58	Tr(?)	33	41	430	65	675	189	0	1,680	560	.3	139	3,680	1,340		52	4,660	7.1
						21.46	5.34	29.33	3.10		34.98	15.79	.02	2.24						
5	19.36.35.125	4- 9-38	To	45	—	—	—	—	—	—	212	31	—	—	—	—		—	562	—
											4.41	.87								
6	19.36.32.110	11-20-29	To	32	—	84	—	158	261	0	225	79	—	6.8	668	222		—	—	—
						4.44		6.86	4.28		4.68	2.25		.11						
7	19.37.4.110	9-19-29	To	29	—	68	—	71	307	0	54	32	—	—	383	198		—	—	—
						3.96		3.09	5.03		1.12	.90								
8	19.37.29.344a	7-15-54	Qal	30±	—	—	—	52	296	0	62	91	—	—	—	322		26	865	—
						6.44		2.27	4.85		1.29	2.57								
9	do.	9- 9-58	Qal	30±	—	—	—	—	215	0	54	73	—	—	—	252		—	678	7.6
						5.04			3.52		1.12	2.06								
10	20.36.15.421	3-30-54	Qal	50	—	—	—	—	304	0	1,840	1,080	—	—	—	—		—	6,780	—
									4.98		38.30	30.46								
11	20.36.15.421	9- 9-58	Qal	50	—	—	—	—	292	0	2,250	1,240	—	—	—	1,720		—	7,500	7.4
						34.40			4.79		46.84	34.97								
12	20.37.4.111	4- 2-54	Qal	40	—	—	—	—	423	0	67	450	—	—	—	—		—	2,180	—
									6.93		1.39	12.69								
13	20.37.4.111	4-22-55	Qal	40	—	—	—	—	438	0	78	425	—	—	—	670		—	2,090	7.2
						13.40			7.18		1.62	11.99								
14	20.37.4.111	9- 9-58	Qal	40	—	—	—	—	318	0	108	425	—	—	—	460		—	1,670	7.3
						9.20			5.21		2.25	9.16								
15	20.37.4.221	4-22-55	Qal	45	—	—	—	—	269	0	90	51	—	—	—	278		—	758	8.1
						5.56			4.41		1.87	1.44								
16	20.37.4.221	9- 9-58	Qal	45	—	—	—	—	255	0	87	47	—	—	—	246		—	708	8.0
						4.92			4.18		1.69	1.33								
17	20.38.19.320	4- 2-54	Qal	115	—	—	—	—	227	0	—	39	—	—	—	—		—	627	—
									3.72			1.10								
18	20.38.19.320	9- 9-58	Qal	115	—	—	—	—	104	0	23	49	—	—	—	68		—	376	8.1
						1.36			1.70		.48	1.38								
19	21.33.2.231	9- 4-58	Tr	1,150	—	—	—	—	336	0	95	20	—	—	—	22		—	778	8.0
						.44			5.51		1.98	.56								
20	21.33.2.422	6-28-54	To	120	—	—	—	—	116	0	17	1,020	—	—	—	—		—	3,370	—
									1.90		.35	28.77								
21	21.33.2.422	4-22-55	To	120	—	—	—	2.5	115	0	20	1,170	—	13	—	1,770		0.3	3,730	7.3
						35.40		.11	1.88		.42	33.00		.21						
22	21.33.2.422	9- 4-58	To	120	—	—	—	—	109	0	43	1,640	—	—	—	2,400		—	5,070	7.1
						48.00			1.79		.90	46.25								
23	21.33.2.442b	4-22-55	To	—	—	—	—	—	345	0	15	12	—	—	—	304		—	600	7.4
						6.08			5.65		.31	.34								
24	21.33.2.442b	9- 4-58	To	—	—	—	—	—	354	0	18	7.0	—	—	—	306		—	629	7.5
						6.12			5.80		.37	.20								
25	21.35.27.321a	12- 8-58	To	—	—	—	—	—	301	0	170	44	—	—	—	204		—	995	8.0
						4.08			4.93		3.54	1.24								
26	21.36.9.222	7-27-54	Tr	447	—	17	7.8	280	434	0	216	65	4.4	0.1	803	74		89	1,290	—
						.85	.64	12.18	7.11		4.50	1.83	.23	.00						
27	21.36.9.222	9- 8-58	Tr	447	—	—	—	—	425	0	213	64	—	—	—	73		—	1,270	8.1
						1.46			6.97		4.43	1.80								
28	21.37.33.110	7-18-42	To	130	73	45	25	96	182	25	108	68	3.5	10	543	216		—	799	—
						2.25	2.06	4.07	2.98	.83	2.25	1.92	.18	.16						
29	21.37.33.111	9- 9-58	To	110	—	—	—	—	240	0	108	61	—	—	—	186		—	785	7.7
						3.72			3.93		2.25	1.72								
30	21.37.33.210	8- 1-42	Tr	350	16	50	31	.563	360	0	855	208	1.8	.5	1,900	252		—	2,850	—

APPENDIX C

Active Oil and Gas Well Data

Permanently Plugged Oil and Gas Well Data

CD copy of NMOCD Files for Wells Penetrating the Wolfcamp

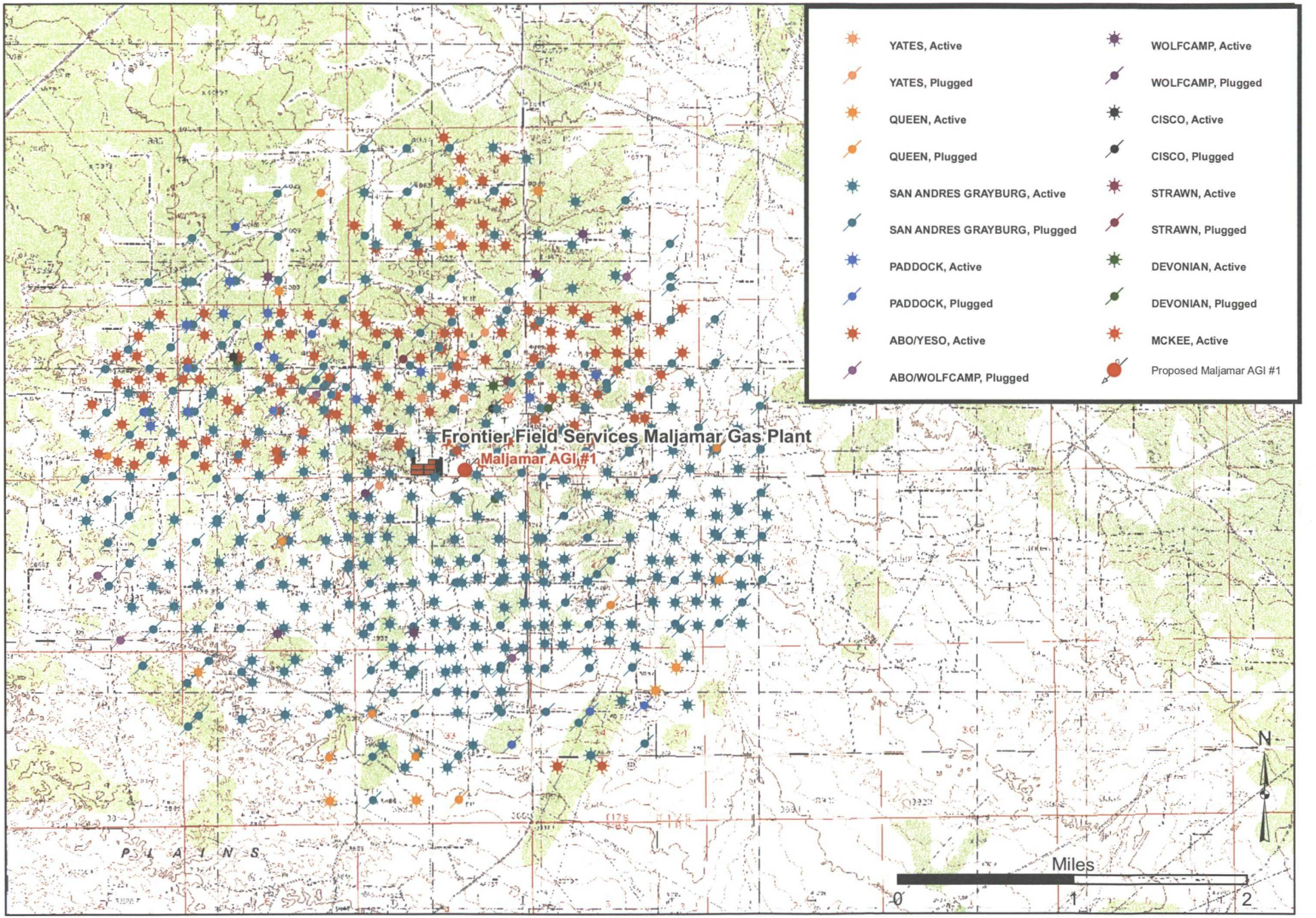


Figure C-1: Wells Within Two Miles of Proposed Maljamar AGI #1 Well

GEOLEX
INCORPORATED

FRONTIER
field services, llc

Table C-1: Wells Within Two Miles of Frontier Field Services, LLC Proposed AGI Well

API	OPERATOR	PLUG_DATE	RANGE	SDIV_UL	SECTION	SPUD_DATE	TOWNSHIP	TVD_DEPTH	WELL_NAME	WELL_TYPE	COMPL_STATUS	LATITUDE	LONGITUDE	UTMN	UTME	MilesFromTarget
3002512769	CONOCOPHILLIPS COMPANY		32E	B	28		17 0S	4119	MCA UNIT 116	O	Active	32 81262208	-103 7712399	3631182 996	615031 334	0 06
3002500734	CONOCOPHILLIPS COMPANY		32E	C	28		17 0S	4086	MCA UNIT 115	O	Active	32 81102022	-103 7735838	3631002 854	614813 954	0 12
3002500737	CONOCO INC	1/2/1900	32E	D	28	1/2/1900	17 0S	3834	MCA UNIT 117	O	Plugged	32 81100927	-103 7693407	3631006 257	615211 222	0 17
3002530337	CONOCOPHILLIPS COMPANY		32E	B	28		17 0S	4110	MCA UNIT 380	I	Active	32.81071703	-103.7689936	3630974 235	615244 095	0 20
3002500609	CONOCOPHILLIPS COMPANY		32E	N	21		17 0S	4082	MCA UNIT 092	O	Active	32 81464839	-103.7735891	3631405.094	614808 791	0 20
3002523569	CONOCOPHILLIPS COMPANY		32E	F	28		17 0S	4110	MCA UNIT 260	O	Active	32.80895393	-103 7717156	3630775 801	614991.523	0 22
3002520522	CONOCOPHILLIPS COMPANY		32E	N	21		17 0S	4100	MCA UNIT 234	O	Active	32 81290857	-103 7757288	3631209.883	614610 707	0 22
3002500617	CONTINENTAL OIL	1/2/1900	32E	O	21	1/2/1900	17 0S	4080	MCA UNIT 091	O	Plugged	32.81463744	-103 7693487	3631408 494	615205 79	0 23
3002523433	CONOCOPHILLIPS COMPANY		32E	N	21	1/19/1970	17 0S	4250	MCA UNIT 251	O	Active	32 81585251	-103.7715631	3631540 794	614996 913	0 26
3002539108	COG OPERATING LLC		32E	N	21	10/9/2009	17 0S	7197	MC FEDERAL 037	O	Active	32 81522882	-103 7748329	3631468 095	614691 601	0 27
3002500750	KEWANEE OIL CO	1/2/1900	32E	D	28	1/2/1900	17 0S	2494	BAISH B 033	O	Plugged	32 81193563	-103 776823	3631100 83	614509.515	0 28
3002534973	COG OPERATING LLC		32E	N	21	9/24/2000	17 0S	6908	MC FEDERAL 005	O	Active	32.81555822	-103 7746698	3631504 791	614706.447	0 29
3002524196	CONOCOPHILLIPS COMPANY		32E	A	28		17 0S	4200	MCA UNIT 318	O	Active	32 81274888	-103.7671033	3631201 563	615418.445	0 29
3002520496	CONOCOPHILLIPS COMPANY		32E	F	28		17 0S	4182	MCA UNIT 235	O	Active	32 80919794	-103 775722	3630798 503	614616 108	0 29
3002524267	CONOCOPHILLIPS COMPANY		32E	O	21	10/14/1972	17 0S	4200	MCA UNIT 328	O	Active	32.81543176	-103.7682712	3631497 733	615305 639	0 32
3002539168	COG OPERATING LLC		32E	P	21	7/25/2009	17 0S	7120	J C FEDERAL 030	O	Active	32 81372321	-103 7665665	3631310 171	615467 441	0 34
3002500736	CONOCOPHILLIPS COMPANY		32E	F	28		17 0S	4128	MCA UNIT 152	I	Active	32.80739205	-103 7735763	3630600 617	614819 322	0 34
3002539059	COG OPERATING LLC		32E	O	21	5/25/2009	17 0S	7017	J C FEDERAL 025	O	Active	32 81581657	-103.768272	3631540 395	615305 067	0.34
3002523731	CONOCOPHILLIPS COMPANY		32E	A	28	3/18/1971	17 0S	4190	MCA UNIT 274	O	Active	32 80925814	-103 7670979	3630814 56	615423 464	0 35
3002500608	CONOCOPHILLIPS COMPANY		32E	M	21		17 0S	4104	MCA UNIT 093	O	Active	32 81301037	-103 7779039	3631218 813	614406 941	0.35
3002500733	CONOCOPHILLIPS COMPANY		32E	D	28	9/8/1939	17 0S	4071	MCA UNIT 114	O	Active	32 81103136	-103 7779004	3630999 41	614409 805	0 35
3002539163	COG OPERATING LLC		32E	M	21	2/14/2009	17 0S	7015	MC FEDERAL 036	O	Active	32 81439736	-103 7774972	3631373 025	614443 238	0 36
3002500739	CONOCOPHILLIPS COMPANY		32E	G	28		17 0S	3806	MCA UNIT 151	O	Active	32 8073811	-103.7693351	3630604 017	615216 428	0 36
3002500751	CONOCOPHILLIPS COMPANY	9/17/2004	32E	D	28	9/20/1948	17 0S	10005	QUEEN B 036	O	Plugged	32 81132361	-103 7782476	3631031 435	614376 924	0 37
3002539001	COG OPERATING LLC		32E	O	21	7/9/2009	17 0S	7138	MC FEDERAL 033	O	Active	32 81600712	-103 7675529	3631562 305	615372 142	0 37
3002500615	CONOCO INC	9/27/1995	32E	K	21	7/7/1949	17 0S	4085	MCA UNIT 068	I	Plugged	32 81667398	-103 7756625	3631627 416	614612 079	0.38
3002537900	CONOCOPHILLIPS COMPANY		32E	E	28	9/25/2006	17 0S	4488	MCA UNIT 395	O	Active	32 80767334	-103 7760622	3630629 106	614586 213	0 38
3002537931	CONOCOPHILLIPS COMPANY		32E	D	28	10/16/2006	17 0S	4445	MCA UNIT 394	O	Active	32 80928587	-103 7778478	3630805 949	614416 967	0.39
3002521951	PAN AMERICAN PETROLEUM CORP	2/15/1968	32E	A	28	12/20/1966	17 0S	13735	BAISH B FEDERAL 002	O	Plugged	32.81072403	-103 7653507	3630978 988	615585.149	0 40
3002539000	COG OPERATING LLC		32E	K	21	8/4/2009	17 0S	7042	MC FEDERAL 032	O	Active	32 81805174	-103 7716973	3631784 471	614981 516	0.41
3002500738	CONOCOPHILLIPS COMPANY		32E	A	28		17 0S	4145	MCA UNIT 118	O	Active	32 81099803	-103 7650241	3631009 723	615615 371	0.41
3002500611	CONOCOPHILLIPS COMPANY		32E	K	21		17 0S	4136	MCA UNIT 069	O	Active	32.81827655	-103 7735946	3631807 333	614803.609	0.44
3002538703	COG OPERATING LLC		32E	L	21		17 0S	7027	MC FEDERAL 020	O	Active	32 81696558	-103 7768306	3631658.479	614502 351	0.44
3002500616	CONOCO INC	4/3/2001	32E	J	21		17 0S	4124	MCA UNIT 090	I	Plugged	32.81462627	-103 7650314	3631411 961	615609 989	0 44
3002500604	CONOCO INC	1/12/1999	32E	J	21		17 0S	4129	MCA UNIT 070	I	Plugged	32 81826561	-103 7693569	3631810.731	615200 339	0.45
3002537939	CONOCOPHILLIPS COMPANY		32E	E	28	10/28/2006	17 0S	4460	MCA UNIT 397	O	Active	32 80765056	-103 7778935	3630624 597	614414 784	0 46
3002521489	CONOCOPHILLIPS COMPANY		32E	J	28		17 0S	4120	MCA UNIT 177	O	Active	32 80545123	-103 7709345	3630388 316	615069 168	0.46
3002512804	CONOCOPHILLIPS COMPANY		32E	D	28		17 0S	4050	MCA UNIT 113	O	Active	32 8126309	-103 7799801	3631174.497	614213 05	0 47
3002523482	CONOCOPHILLIPS COMPANY		32E	D	28		17 0S	4080	MCA UNIT 252	O	Active	32 80941354	-103 7794013	3630818.423	614271 356	0 47
3002500735	CONOCO INC	1/2/1900	32E	L	28	1/2/1900	17 0S	3815	MCA UNIT 153	O	Plugged	32 80740319	-103 777893	3630597 177	614415 147	0.47
3002539002	COG OPERATING LLC		32E	I	21	9/13/2009	17 0S	7033	MC FEDERAL 034	O	Active	32 81702034	-103 7661161	3631676 208	615505 341	0 48
3002539356	CONOCOPHILLIPS COMPANY		32E	J	28	7/2/2009	17 0S	4170	MCA UNIT 487	O	Active	32 80552826	-103 7688417	3630399 136	615265.016	0.49
3002500619	CONOCOPHILLIPS COMPANY		32E	K	21	3/5/1964	17 0S	3717	BAISH A 005	O	Active	32 81918079	-103 7725166	3631908 755	614903.363	0 49
3002523744	CONOCOPHILLIPS COMPANY		32E	E	28	6/9/1971	17 0S	4150	MCA UNIT 284	O	Active	32 80565248	-103 7758128	3630405.329	614612 158	0.50
3002523740	CONOCO INC	6/28/2000	32E	G	28	4/11/1971	17 0S	4175	MCA UNIT 280	O	Plugged	32.80576783	-103 767256	3630427 426	615413 174	0 51
3002500740	CONOCOPHILLIPS COMPANY		32E	H	28		17 0S	4103	MCA UNIT 150	I	Active	32 80736986	-103 7650185	3630607 483	615620 594	0 52
3002539060	COG OPERATING LLC		32E	P	21	2/24/2009	17 0S	7010	J C FEDERAL 026	O	Active	32.81553039	-103.7639541	3631513 385	615709 673	0 52
3002538387	COG OPERATING LLC		32E	J	21	7/3/2007	17 0S	7015	MC FEDERAL 011	O	Active	32 81958687	-103 7701121	3631956 393	615127 936	0 53
3002538998	COG OPERATING LLC		32E	K	21		17 0S	7025	MC FEDERAL 029	O	Active	32 81946124	-103 7746757	3631937.503	614700 879	0 53
3002500620	CONOCO INC	1/2/1900	32E	J	21	1/2/1900	17 0S	2325	BAISH A 006	O	Plugged	32 81916988	-103 7682796	3631912 16	615300 023	0 53
3002539354	CONOCOPHILLIPS COMPANY		32E	K	28	7/7/2009	17 0S	4142	MCA UNIT 484	O	Active	32.8042434	-103 7715326	3630253 756	615014 724	0.54
3002512796	CONOCO INC	9/4/1997	32E	M	22		17 0S	4128	MCA UNIT 089	O	Plugged	32.81287485	-103.7627052	3631220 34	615830 04	0 54
3002500610	CONOCOPHILLIPS COMPANY		32E	L	21		17 0S	4125	MCA UNIT 067	I	Active	32.81828769	-103 7779119	3631803 887	614399 428	0 55
3002512763	CONOCOPHILLIPS COMPANY		32E	P	21	10/12/1971	17 0S	4124	MCA UNIT 044	O	Active	32 82015913	-103 7715206	3632018 304	614995 343	0 56
3002537879	CONOCOPHILLIPS COMPANY		32E	H	29	9/6/2006	17 0S	4450	MCA UNIT 393	O	Active	32 80765065	-103.780055	3630622 27	614212 409	0 56
3002500622	CONOCO INC	3/7/1986	32E	I	21	11/12/1958	17 0S	13670	BAISH A 008	O	Plugged	32 81825566	-103 7655302	3631813 805	615558 592	0.57
3002523807	CONOCOPHILLIPS COMPANY		32E	I	20	6/27/1971	17 0S	4120	MCA UNIT 287	O	Active	32 8166853	-103 7801499	3631623 814	614191 966	0 57
3002524186	CONOCOPHILLIPS COMPANY		32E	D	27		17 0S	4200	MCA UNIT 317	O	Active	32.80924656	-103 7626178	3630818.176	615842 93	0 58
3002500742	CONOCOPHILLIPS COMPANY		32E	K	28		17 0S	4100	MCA UNIT 176	O	Active	32 80375398	-103.7735689	3630197 283	614824 693	0 58
3002539292	COG OPERATING LLC		32E	L	21	5/19/2010	17 0S	7035	MC FEDERAL 038	O	Active	32.81919343	-103 7774063	3631904 851	614445.598	0 58
3002500612	CONOCOPHILLIPS COMPANY		32E	I	21	3/4/1942	17 0S	4131	MCA UNIT 071	O	Active	32 81825437	-103 7650396	3631814 199	615604.522	0 59
3002538833	COG OPERATING LLC		32E	G	21	8/4/2009	17 0S	7035	MC FEDERAL 026	O	Active	32.82030478	-103 7690344	3632037 16	615227 897	0 59
3002524258	CONOCOPHILLIPS COMPANY		32E	P	21	10/6/1972	17 0S	4250	MCA UNIT 326	O	Active	32 81622887	-103 7630399	3631591 825	615794 353	0 59
3002500743	CONOCO INC	10/2/1987	32E	L	28	5/17/1941	17 0S	3295	MCA UNIT 178	I	Plugged	32.80374293	-103.7693294	3630200 669	615221 656	0 59
3002500752	CONOCO INC	8/14/1996	32E	A	29		17 0S	4078	MCA UNIT 112	O	Plugged	32.8110376	-103 782217	3630995 438	614005 663	0 60
3002537976	CONOCOPHILLIPS COMPANY		32E	L	28	11/9/2006	17 0S	4450	MCA UNIT 396	O	Active	32.80531428	-103 7784969	3630364 928	614361.281	0 60
3002508031	CONOCOPHILLIPS COMPANY		32E	E	21		17 0S	4102	MCA UNIT 046	O	Active	32 82016892	-103 7758378	3632014 701	614591 181	0.60
3002524226	CONOCOPHILLIPS COMPANY		32E	J	28		17 0S	4220	MCA UNIT 301	I	Active	32.80374124	-103 7686754	3630201 195	615282 893	0 61
3002529854	CONOCOPHILLIPS COMPANY		32E	G	21	3/16/1987	17 0S	4300	MCA UNIT 368	O	Active	32 82013641	-103 7674772	3632020 192	615373 89	0 61

3002539353	CONOCOPHILLIPS COMPANY		32E	I	28	5/28/2009	17 0S	4208 MCA UNIT 483	O	Active	32 80414954	-103 767139	3630248 138	615426 22	0 62
3002500613	CONOCO INC	1/2/1900	32E	G	21	1/2/1900	17 0S	2510 BAISH A 004	O	Plugged	32 82099506	-103 7704424	3632112 156	615095 199	0 62
3002508063	CONOCOPHILLIPS COMPANY		32E	P	20		17 0S	4098 MCA UNIT 094	I	Active	32 81466574	-103 7822237	3631397 672	614000 402	0 62
3002539355	CONOCOPHILLIPS COMPANY		32E	I	28	6/27/2009	17 0S	4206 MCA UNIT 486	O	Active	32 80538	-103 7646884	3630387 234	615654 078	0 63
3002539403	CONOCOPHILLIPS COMPANY		32E	K	28	7/26/2009	17 0S	4124 MCA UNIT 485	O	Active	32 80342971	-103 7756938	3630159 026	614626 153	0 63
3002534933	COG OPERATING LLC		32E	L	21	2/17/2000	17 0S	5982 MC FEDERAL 004	O	Active	32 8191975	-103 7789926	3631903 586	614297 092	0 64
3002534773	COG OPERATING LLC		32E	F	21	1/26/2000	17 0S	5952 MC FEDERAL 003	O	Active	32 82141201	-103 7725201	3632156.121	614900.162	0 64
3002539169	COG OPERATING LLC		32E	M	22	7/8/2009	17 0S	7121 J C FEDERAL 031	O	Active	32 81415038	-103 7612036	3631363 401	615968 965	0 64
3002512794	CONOCO INC	9/19/2001	32E	L	28		17 0S	4055 MCA UNIT 174	O	Plugged	32 80544727	-103 7799655	3630378 084	614223 607	0 65
3002500726	CONOCO INC	8/6/1996	32E	D	27	5/19/1940	17 0S	4150 MCA UNIT 119	I	Plugged	32 81247564	-103 7607098	3631178.269	616017.371	0 66
3002539263	COG OPERATING LLC		32E	I	20	4/7/2009	17 0S	7010 GC FEDERAL 025	O	Active	32 81794991	-103.7809694	3631763 133	614113.63	0 66
3002500741	CONOCOPHILLIPS COMPANY	2/28/2005	32E	L	28	8/28/1940	17 0S	4125 MCA UNIT 175	I	Plugged	32 80376523	-103 7778855	3630193 85	614420 511	0 67
3002538997	COG OPERATING LLC		32E	I	21	5/12/2009	17 0S	7013 MC FEDERAL 028	O	Active	32 81902113	-103 763962	3631900 387	615704 408	0 67
3002538038	CONOCOPHILLIPS COMPANY		32E	L	28	10/8/2006	17 0S	4550 MCA UNIT 407	O	Active	32 80511482	-103 7800138	3630341 174	614219 51	0 67
3002500753	CONOCOPHILLIPS COMPANY		32E	H	29		17 0S	3810 MCA UNIT 154	I	Active	32 80740945	-103 7822096	3630593.203	614010 989	0 68
3002500621	CONTINENTAL OIL	1/2/1900	32E	L	21	1/2/1900	17 0S	2390 BAISH A 007	O	Plugged	32.81915856	-103 7639623	3631915.623	615704.202	0.68
3002500618	CONOCOPHILLIPS COMPANY		32E	H	21	11/21/1966	17 0S	2386 BAISH A 003	O	Active	32 82100948	-103 7768367	3632106.809	614496 591	0 68
3002535252	COG OPERATING LLC		32E	H	21	11/17/2000	17 0S	15026 MC FEDERAL 006	G	Active	32 82018666	-103 765371	3632028 065	615570.995	0 68
3002500628	CONOCOPHILLIPS COMPANY		32E	M	22		17 0S	4145 MCA UNIT 088	O	Active	32 8146168	-103 7607141	3631415.649	616014 186	0.68
3002500605	CONOCOPHILLIPS COMPANY	11/28/2006	32E	F	21	8/30/1945	17 0S	4181 MCA UNIT 045	I	Plugged	32 8219092	-103 7736002	3632210 069	614798 412	0 68
3002523790	CONOCOPHILLIPS COMPANY		32E	K	28		17 0S	4180 MCA UNIT 296	O	Active	32.80215435	-103 771489	3630022 197	615021 497	0 68
3002538717	COG OPERATING LLC		32E	E	21	7/18/2008	17 0S	7027 MC FEDERAL 024	O	Active	32 82114691	-103 7768369	3632122 045	614496 396	0 69
3002500603	CONOCOPHILLIPS COMPANY		32E	G	21	9/18/1964	17 0S	4119 MCA UNIT 043	O	Active	32 8218997	-103.7693652	3632213 624	615194 871	0.69
3002500745	CONOCOPHILLIPS COMPANY		32E	I	28	8/8/1961	17 0S	9680 MCA UNIT 382	O	Active	32 80411529	-103.7645523	3630247 168	615668 459	0 70
3002512792	CONOCOPHILLIPS COMPANY		32E	E	27		17 0S	4180 MCA UNIT 149	O	Active	32 80565963	-103 7626123	3630420 509	615848.099	0.70
3002500744	CONOCO INC	1/2/1900	32E	L	28	1/2/1900	17 0S	3925 MCA UNIT 179	O	Plugged	32 80373169	-103.7650128	3630204 135	615625 839	0 70
3002530491	CONOCOPHILLIPS COMPANY		32E	E	27		17 0S	4200 MCA UNIT 384	O	Active	32 80740805	-103.7611892	3630615 912	615979 072	0 71
3002523706	CONOCOPHILLIPS COMPANY		32E	P	20		17 0S	4130 MCA UNIT 269	O	Active	32 8131959	-103 7842984	-3631232 48	613808.044	0 72
3002538830	COG OPERATING LLC		32E	L	22	9/18/2008	17 0S	7007 J C FEDERAL 018	O	Active	32 81733892	-103 761309	3631716 791	615954 955	0 72
3002523705	CONOCOPHILLIPS COMPANY		32E	K	28		17 0S	4155 MCA UNIT 268	O	Active	32 80201404	-103 7756418	3630002 131	614632 839	0.73
3002523660	CONOCO INC	9/14/1995	32E	E	21	12/30/1970	17 0S	4145 MCA UNIT 262	I	Plugged	32 82017825	-103 7799916	3632011 239	614202 316	0 73
3002500614	CONOCO INC	3/3/1993	32E	F	21	11/1/1953	17 0S	12778 MCA UNIT 355	I	Plugged	32 82246041	-103 7742551	3632270 47	614736 397	0.73
3002508062	CONOCOPHILLIPS COMPANY		32E	I	20		17 0S	4072 MCA UNIT 066	O	Active	32 81829388	-103 7822292	3631799 908	613995 253	0 73
3002500722	CONTINENTAL OIL	1/2/1900	32E	E	27	1/2/1900	17 0S	Not Reported MCA UNIT 148	O	Plugged	32 80736049	-103 7607019	3630611.174	616024 758	0.73
3002539265	COG OPERATING LLC		32E	O	20	4/14/2009	17 0S	7114 GC FEDERAL 029	O	Active	32 81490005	-103 7844154	3631421.288	613794 917	0 75
3002538996	COG OPERATING LLC		32E	H	21	11/3/2009	17 0S	7012 MC FEDERAL 027	O	Active	32 8205683	-103 7639655	3632071 914	615702.074	0 75
3002512797	CONOCO INC	8/30/1995	32E	H	21		17 0S	4106 MCA UNIT 041	O	Plugged	32 82037506	-103 7635889	3632050.902	615737 58	0.75
3002527065	CONOCO INC	8/26/1988	32E	I	20	1/14/1981	17 0S	4150 MCA UNIT 362	O	Plugged	32 81956349	-103 7814854	3631941 469	614063.262	0 76
3002524352	CONOCOPHILLIPS COMPANY		32E	P	28		17 0S	4175 MCA UNIT 333	O	Active	32.80185432	-103.7670863	3629993 731	615434.122	0.76
3002500606	CONOCOPHILLIPS COMPANY		32E	E	21		17 0S	4097 MCA UNIT 047	O	Active	32 82191895	-103 7779174	3632206 469	614394 258	0 76
3002535988	COG OPERATING LLC		32E	L	22	9/16/2003	17 0S	5946 J C FEDERAL 003	O	Active	32 81915384	-103 7618036	3631917 465	615906.295	0 77
3002520216	CONTINENTAL OIL	1/2/1900	32E	G	21	1/2/1900	17 0S	2398 BAISH A 009	O	Plugged	32 82280434	-103.7682879	3632315 094	615294.55	0 77
3002538776	COG OPERATING LLC		32E	G	21	4/28/2008	17 0S	7039 MC FEDERAL 017	O	Active	32 82322143	-103 7704475	3632358 982	615091 85	0 77
3002529956	CONOCOPHILLIPS COMPANY		32E	P	20		17 0S	4300 MCA UNIT 372	O	Active	32 81621936	-103 784352	3631567 625	613799 171	0 77
3002539262	COG OPERATING LLC		32E	I	20	5/14/2009	17 0S	7045 GC FEDERAL 024	O	Active	32 81650794	-103 784287	3631599 689	613804 888	0 78
3002523938	CONOCOPHILLIPS COMPANY		32E	D	27		17 0S	4200 MCA UNIT 299	O	Active	32.81231817	-103 758633	3631163 092	616212 01	0 78
3002538978	CONOCOPHILLIPS COMPANY		32E	L	27	11/23/2008	17 0S	4320 MCA UNIT 409	O	Active	32 80413758	-103.76243	3630251 963	615867 143	0 78
3002500630	CONOCO INC	4/15/2000	32E	L	22		17 0S	4102 MCA UNIT 072	I	Plugged	32.81824495	-103 7607223	3631817 885	616008.702	0.78
3002530347	CONOCOPHILLIPS COMPANY	3/7/2007	32E	G	21	5/20/1988	17 0S	4220 MCA UNIT 379	O	Plugged	32 82340056	-103.7706605	3632378 61	615071.68	0 78
3002538551	COG OPERATING LLC		32E	H	21	11/17/2007	17 0S	7125 MC FEDERAL 013	O	Active	32 822357	-103 7661283	3632267.857	615497.292	0.79
3002529102	CONOCOPHILLIPS COMPANY		32E	B	29		17 0S	4440 MCA UNIT 365Y	O	Active	32 80955428	-103 7852225	3630827 749	613726 168	0 79
3002528988	CONOCO INC	12/26/1984	32E	B	29	10/15/1984	17 0S	1009 MCA UNIT 365	O	Plugged	32 80949931	-103 7852224	3630821 655	613726.247	0 79
3002539402	CONOCOPHILLIPS COMPANY		32E	M	28	7/21/2009	17 0S	4153 MCA UNIT 481	O	Active	32 80192493	-103 7783722	3629989.295	614377.298	0.79
3002523920	CONOCO INC	7/3/1997	32E	D	27		17 0S	4200 MCA UNIT 292	O	Plugged	32 80923973	-103 7586282	3630821 798	616216 467	0 80
3002539351	CONOCOPHILLIPS COMPANY		32E	O	28	6/9/2009	17 0S	4200 MCA UNIT 478	O	Active	32 80039514	-103 7714497	3629827 201	615027 442	0 81
3002523487	CONOCOPHILLIPS COMPANY		32E	O	28		17 0S	4100 MCA UNIT 254	O	Active	32 8005279	-103 7696513	3629843 877	615195 664	0.81
3002538973	CONOCOPHILLIPS COMPANY		32E	L	27	11/30/2008	17 0S	4285 MCA UNIT 400	O	Active	32 80516534	-103.7606985	3630367 807	616027.929	0 81
3002500634	CONOCO INC	1/2/1900	32E	L	22	1/2/1900	17 0S	13573 BAISH B 005	O	Plugged	32.81824384	-103.7600681	3631818 48	616069.947	0 81
3002527066	CONOCO INC	1/27/1988	32E	H	20	5/22/1981	17 0S	4250 MCA UNIT 363	O	Plugged	32.82041518	-103 7820002	3632035.338	614013 981	0 82
3002526606	CONOCO INC	8/31/1988	32E	H	20	1/16/1980	17 0S	4150 MCA UNIT 358	I	Plugged	32.82022007	-103 7822321	3632013 457	613992 521	0.82
3002527076	CONOCO INC	8/29/1988	32E	H	20	10/25/1980	17 0S	4150 MCA UNIT 359	O	Plugged	32 82086586	-103 7814645	3632085 882	614063.553	0 82
3002527067	CONOCO INC	11/22/1988	32E	H	20	6/16/1981	17 0S	4325 MCA UNIT 364	O	Plugged	32.82051137	-103 7819185	3632046 091	614021.506	0 82
3002527064	CONOCO INC	1/2/1900	32E	I	20	1/2/1900	17 0S	8933 MCA UNIT 361	O	Plugged	32 81958321	-103 7829866	3631942.035	613922.703	0 82
3002500762	CONOCOPHILLIPS COMPANY		32E	I	29		17 0S	4250 MCA UNIT 173	O	Active	32 80377379	-103 7822021	3630190 136	614016 333	0 82
3002538739	COG OPERATING LLC		32E	E	21		17 0S	7000 MC FEDERAL 016	O	Active	32 82282694	-103 7783441	3632306 674	614353 15	0 83
3002500748	CONOCO INC	4/9/2001	32E	N	28		17 0S	4025 MCA UNIT 209	I	Plugged	32 80012581	-103 7735614	3629795.046	614830.061	0 83
3002524183	CONOCOPHILLIPS COMPANY		32E	M	22		17 0S	4200 MCA UNIT 316	O	Active	32 81635861	-103 7586412	3631611 037	616205 982	0.83
3002529959	CONOCOPHILLIPS COMPANY	3/6/2007	32E	E	21	9/17/1987	17 0S	4350 MCA UNIT 373	O	Plugged	32.82370099	-103 7758924	3632406 233	614581.534	0 83
3002538714	COG OPERATING LLC		32E	H	20	3/16/2008	17 0S	7027 BC FEDERAL 033	O	Active	32 82101706	-103 7816446	3632102 451	614046 501	0.83
3002524235	CONOCOPHILLIPS COMPANY		32E	L	28		17 0S	4170 MCA UNIT 324	O	Active	32 80202524	-103 7799584	3629998 702	614228 649	0 83
3002539352	CONOCOPHILLIPS COMPANY		32E	N	28	7/14/2009	17 0S	4150 MCA UNIT 479	O	Active	32 80036826	-103.7758837	3629819 406	614612 301	0 84

3002500747	CONTINENTAL OIL	1/2/1900	32E	O	28	1/2/1900	17 0S	4000 MCA UNIT 208	O	Plugged	32 80011476	-103 7693236	3629798 431	615226 881	0 84
3002538988	CONOCOPHILLIPS COMPANY		32E	P	28	11/16/2008	17 0S	4322 MCA UNIT 421	O	Active	32 8016141	-103 764568	3629969 85	615670 229	0 84
3002524461	CONOCOPHILLIPS COMPANY	1/3/2003	32E	G	21	7/7/1973	17 0S	4175 MCA UNIT 340	O	Plugged	32 82364045	-103 7672923	3632408 879	615386 668	0 84
3002524213	CONOCOPHILLIPS COMPANY		32E	G	29		17 0S	4125 MCA UNIT 319	O	Active	32 80566479	-103 784446	3630397 369	613803 825	0 85
3002500767	CONOCOPHILLIPS COMPANY		32E	B	29		17 0S	4020 MCA UNIT 111	I	Active	32 8110389	-103 7865335	3630990 935	613601 536	0 85
3002500635	CONOCO INC	8/8/1996	32E	E	22	3/30/1956	17 0S	2351 MCA UNIT 040	O	Plugged	32 82097645	-103 7618078	3632119 529	615903 534	0 85
3002527068	COG OPERATING LLC		32E	N	28	10/14/1980	17 0S	12992 FEDERAL BI 001	S	Active	32 79963105	-103 7735603	3629740 194	614830 8	0 86
3002508065	CONOCOPHILLIPS COMPANY		32E	O	20		17 0S	4055 MCA UNIT 095	O	Active	32 81466704	-103 786541	3631393 169	613596 217	0 86
3002500601	CONOCO INC	9/12/1995	32E	C	21	3/30/1930	17 0S	4169 MCA UNIT 027	O	Plugged	32 82462787	-103 7725251	3632512 65	614895 554	0 87
3002538979	CONOCOPHILLIPS COMPANY		32E	O	28	12/10/2008	17 0S	4304 MCA UNIT 410	O	Active	32 80010993	-103 7674596	3629799 928	615401 422	0 87
3002524076	CONOCOPHILLIPS COMPANY		32E	G	29		17 0S	4100 MCA UNIT 308	O	Active	32 80741056	-103 7858721	3630589 383	613668 078	0 87
3002520149	CONTINENTAL OIL	1/2/1900	32E	B	21	1/2/1900	17 0S	2436 BAISH A 011		Plugged	32 82462322	-103 7704507	3632514 392	615089 742	0 87
3002500602	CONOCO INC	9/6/1995	32E	H	21	9/24/1934	17 0S	4093 MCA UNIT 042	I	Plugged	32 82279468	-103 7639706	3632318 742	615698 71	0 87
3002500728	CONOCOPHILLIPS COMPANY		32E	L	27		17 0S	4170 MCA UNIT 180	I	Active	32 80372233	-103 7606962	3630207 826	616030 02	0 87
3002539270	COG OPERATING LLC		32E	O	20	9/22/2009	17 0S	7136 GC FEDERAL 032	O	Active	32 81418612	-103 7868183	3631339 552	613570 868	0 87
3002538509	COG OPERATING LLC		32E	C	21	10/17/2007	17 0S	7012 MC FEDERAL 012	O	Active	32 82463277	-103 7746837	3632510 848	614693 483	0 88
3002539170	COG OPERATING LLC		32E	N	22	2/7/2009	17 0S	7315 J C FEDERAL 032	O	Active	32 81370335	-103 7569834	3631318 478	616364 644	0 88
3002527063	CONOCO INC	8/30/1988	32E	H	20	11/27/1980	17 0S	4150 MCA UNIT 360	O	Plugged	32 82084963	-103 7830147	3632082 411	613918 455	0 88
3002524233	CONOCOPHILLIPS COMPANY		32E	L	27		17 0S	4175 MCA UNIT 321	O	Active	32 80198023	-103 7626064	3630012 59	615853 425	0 88
3002538715	COG OPERATING LLC		32E	B	21	5/29/2009	17 0S	6920 MC FEDERAL 022	O	Active	32 82461937	-103 7687173	3632515 854	615252 009	0 88
3002500749	CONOCO INC	1/2/1900	32E	M	28	1/2/1900	17 0S	3980 MCA UNIT 210	O	Plugged	32 80013705	-103 777878	3629791 613	614425 862	0 89
3002524127	CONOCOPHILLIPS COMPANY		32E	E	27		17 0S	4250 MCA UNIT 314	O	Active	32 80561157	-103 7586226	3630419 559	616221 714	0 90
3002523509	CONOCO INC	9/29/2000	32E	I	20	5/11/1970	17 0S	4145 MCA UNIT 256	I	Plugged	32 81997118	-103 7843576	3631983 572	613793 863	0 90
3002508054	CONOCOPHILLIPS COMPANY	4/10/2006	32E	H	20	5/11/1937	17 0S	4069 MCA UNIT 048	I	Plugged	32 82192421	-103 7822347	3632202 386	613990 101	0 90
3002500768	CONOCO INC	5/30/1989	32E	G	29	5/30/1989	17 0S	3566 MCA UNIT BATTERY 2 155	O	Plugged	32 80741075	-103 7865261	3630588 701	613606 846	0 90
3002539164	COG OPERATING LLC		32E	K	22	7/23/2009	17 0S	7119 J C FEDERAL 023	O	Active	32 81678263	-103 757481	3631659 323	616314 045	0 90
3002538815	COG OPERATING LLC		32E	D	21	6/26/2009	17 0S	7020 MC FEDERAL 021	O	Active	32 82463764	-103 7768424	3632509 047	614491 402	0 91
3002500720	CONOCOPHILLIPS COMPANY		32E	C	27		17 0S	4119 MCA UNIT 120	O	Active	32 81098121	-103 7563909	3631017 333	616423 665	0 91
3002500746	CONOCOPHILLIPS COMPANY	10/6/2004	32E	P	28		17 0S	4125 MCA UNIT 207	I	Plugged	32 80010352	-103 765007	3629801 896	615631 08	0 92
3002508053	CONOCO INC	9/5/1996	32E	J	20	3/13/1959	17 0S	13965 MCA UNIT 303	I	Plugged	32 81829503	-103 7860559	3631795 915	613637 013	0 92
3002500626	CONOCO INC	4/20/2001	32E	N	22		17 0S	4124 MCA UNIT 087	I	Plugged	32 81460936	-103 7563968	3631419 571	616418 38	0 92
3002520304	CONTINENTAL OIL	1/2/1900	32E	A	21	1/2/1900	17 0S	2410 BAISH A 010	I	Plugged	32 8246136	-103 7661334	3632518 035	615493 894	0 93
3002523715	CONOCOPHILLIPS COMPANY		32E	A	20	2/23/1971	17 0S	4163 MCA UNIT 271	O	Active	32 82380662	-103 7801608	3632413 324	614181 834	0 94
3002512707	CONOCOPHILLIPS COMPANY	4/5/2006	32E	B	21	3/15/1965	17 0S	4117 MCA UNIT 028	I	Plugged	32 82552786	-103 7693735	3632615 861	615189 41	0 94
3002500623	CONOCO INC	1/2/1900	32E	E	22	1/2/1900	17 0S	4110 BAISH A 002	O	Plugged	32 82188174	-103 7607306	3632221 078	616003 198	0 94
3002525849	CONOCOPHILLIPS COMPANY		32E	M	28		17 0S	4170 MCA UNIT 357	O	Active	32 79956163	-103 7785635	3629727 076	614362 413	0 94
3002520647	COG OPERATING LLC		32E	E	22	10/25/1964	17 0S	9958 MC FEDERAL 007	O	Active	32 82243252	-103 761386	3632281 423	615941 128	0 94
3002508064	CONOCO INC	12/15/1998	32E	J	20		17 0S	4045 MCA UNIT 065	I	Plugged	32 81829518	-103 7865464	3631795 404	613591 094	0 95
3002524376	CONOCOPHILLIPS COMPANY		32E	L	22		17 0S	4150 MCA UNIT 338	O	Active	32 81998676	-103 7586493	3632013 272	616200 5	0 95
3002538856	CONOCOPHILLIPS COMPANY		32E	C	33	9/22/2008	17 0S	4345 MCA UNIT 411	O	Active	32 79828495	-103 7738332	3629590 66	614806 977	0 96
3002538972	CONOCOPHILLIPS COMPANY		32E	K	27	12/5/2008	17 0S	4348 MCA UNIT 399	O	Active	32 80413087	-103 7585058	3630255 526	616234 578	0 96
3002539166	COG OPERATING LLC		32E	N	22	8/31/2009	17 0S	7123 J C FEDERAL 028	O	Active	32 81551578	-103 7560391	3631520 458	616450 686	0 96
3002538980	CONOCOPHILLIPS COMPANY		32E	B	33	10/4/2008	17 0S	4360 MCA UNIT 412	O	Active	32 79827463	-103 7698755	3629593 819	615177 577	0 96
3002512785	CONOCOPHILLIPS COMPANY		32E	B	33		17 0S	4000 MCA UNIT 222	O	Active	32 79816765	-103 7710197	3629580 713	615070 575	0 96
3002538986	CONOCOPHILLIPS COMPANY		32E	M	27	12/15/2008	17 0S	4380 MCA UNIT 418	O	Active	32 80188076	-103 7606933	3630003 659	616032 684	0 96
3002500719	CONOCOPHILLIPS COMPANY	9/17/2004	32E	F	27	12/17/1939	17 0S	4150 QUEEN B 006	O	Plugged	32 80735305	-103 7563853	3630615 094	616428 92	0 96
3002523559	CONOCOPHILLIPS COMPANY		32E	N	28		17 0S	4135 MCA UNIT 261	O	Active	32 79838587	-103 7756343	3629599 895	614638 198	0 97
3002538716	COG OPERATING LLC		32E	A	21	9/6/2008	17 0S	6999 MC FEDERAL 023	O	Active	32 82460986	-103 7644654	3632519 445	615650 039	0 97
3002539480	COG OPERATING LLC		32E	K	22	11/5/2009	17 0S	7027 J C FEDERAL 049	O	Active	32 81914643	-103 7574863	3631921 386	616310 469	0 97
3002512755	CONOCOPHILLIPS COMPANY		32E	N	20		17 0S	4048 MCA UNIT 096	O	Active	32 81292233	-103 7887591	3631197 356	613390 776	0 98
3002524349	CONOCOPHILLIPS COMPANY		32E	O	28		17 0S	4225 MCA UNIT 332	O	Active	32 79836401	-103 7672443	3629606 597	615423 838	0 98
3002534932	COG OPERATING LLC		32E	H	20	2/21/2000	17 0S	7028 BC FEDERAL 003	O	Active	32 82283139	-103.7831519	3632301 975	613903 082	0 98
3002508362	BUFFALO OIL CO	1/2/1900	32E	J	20	1/2/1900	17 0S	5359 MITCHELL B 023	O	Plugged	32 81829538	-103.7872431	3631794.678	613525.872	0.98
3002523733	CONOCOPHILLIPS COMPANY	9/30/2004	32E	D	29	3/27/1971	17 0S	4083 MCA UNIT 277	O	Plugged	32 80929414	-103 7886066	3630795.273	613409 663	0.99
3002534647	COG OPERATING LLC		32E	E	22	6/16/1999	17 0S	14912 MC FEDERAL COM 001	G	Active	32.82106769	-103 7587401	3632133 013	616190 593	0.99
3002500607	CONOCOPHILLIPS COMPANY	11/30/2006	32E	D	21	9/19/1938	17 0S	4175 MCA UNIT 026	I	Plugged	32 8255471	-103 7779231	3632608 707	614389 073	0.99
3002520568	CONOCOPHILLIPS COMPANY		32E	A	21	11/22/1963	17 0S	13717 BAISH A 012	O	Active	32 8255471	-103 7779231	3632608 707	614389.073	0 99
3002538832	COG OPERATING LLC		32E	C	21	9/10/2009	17 0S	7027 MC FEDERAL 025	O	Active	32.82644195	-103 7725279	3632713 77	614892 955	0 99
3002538829	COG OPERATING LLC		32E	G	20	11/18/2008	17 0S	6900 BC FEDERAL 032	O	Active	32 82088024	-103 7854711	3632083 159	613688 466	0 99
3002538987	CONOCOPHILLIPS COMPANY		32E	M	27	12/23/2008	17 0S	4375 MCA UNIT 419	O	Active	32 80009705	-103 7623746	3629804 061	615877.573	1 00
3002538738	COG OPERATING LLC		32E	B	21	9/3/2008	17 0S	7015 MC FEDERAL 014	O	Active	32.82643512	-103 7694737	3632716 337	615178 859	1 00
3002500631	CONOCOPHILLIPS COMPANY		32E	K	22		17 0S	4112 MCA UNIT 073	O	Active	32.81823752	-103 756405	3631821 808	616412.88	1.00
3002500766	CONOCOPHILLIPS COMPANY		32E	O	29		17 0S	4000 MCA UNIT 172	O	Active	32 80189409	-103.7844383	3629979 331	613809 351	1 01
3002500763	CONOCOPHILLIPS COMPANY		32E	P	29		17 0S	4013 MCA UNIT 211	I	Active	32 80014563	-103 7821946	3629787.901	614021.668	1 01
3002523687	CONOCOPHILLIPS COMPANY		32E	K	20		17 0S	4110 MCA UNIT 266	O	Active	32 81655044	-103.7886827	3631599 676	613393 32	1 02
3002500764	CONOCOPHILLIPS COMPANY		32E	J	29		17 0S	3950 MCA UNIT 171	I	Active	32 80377971	-103 7865187	3630186 146	613612 159	1 02
3002522661	CONOCOPHILLIPS COMPANY		32E	A	21	7/20/1968	17 0S	4100 MCA UNIT 245	O	Active	32 82551705	-103 7645329	3632619 949	615642 544	1 02
3002512795	CONOCOPHILLIPS COMPANY		32E	N	22		17 0S	4100 MCA UNIT 086	O	Active	32 81286042	-103 7543257	3631227.953	616614 561	1 03
3002538835	COG OPERATING LLC		32E	D	21	2/14/2010	17 0S	7055 MC FEDERAL 015	O	Active	32 82617972	-103 7781203	3632678 63	614369.803	1.03
3002538728	COG OPERATING LLC		32E	A	21	4/16/2008	17 0S	6965 MC FEDERAL 018	O	Active	32 82642878	-103 7666282	3632718.74	615445.227	1.04
3002538831	COG OPERATING LLC		32E	F	22	3/5/2010	17 0S	7046 J C FEDERAL 017	O	Active	32.82096944	-103 7574905	3632123 495	616307 699	1 04

3002524128	CONOCO INC	12/9/1998	32E	L	27	17 0S		MCA UNIT 315	O	Plugged	32.80197341	-103.7586169	3630016.212	616226.983	1	04
3002538989	CONOCOPHILLIPS COMPANY		32E	A	33	11/10/2008 17 0S		4385 MCA UNIT 420	O	Active	32.79826079	-103 7645624	3629598 084	615675 097	1	05
3002523846	CONOCOPHILLIPS COMPANY		32E	C	27	8/4/1971 17 0S		4185 MCA UNIT 282	O	Active	32 80923224	-103 7543116	3630825 721	616620 621	1	05
3002538262	COG OPERATING LLC		32E	E	22	3/1/2007 17 0S		7011 MC FEDERAL 010	O	Active	32 82319932	-103 7596543	3632368 337	616102 238	1	05
3002500730	CONOCOPHILLIPS COMPANY		32E	O	27	17 0S		4205 MCA UNIT 183	O	Active	32 80923213	-103 7542431	3630825 784	616627.034	1	05
3002500729	CONOCOPHILLIPS COMPANY		32E	M	27	17 0S		4155 MCA UNIT 206	O	Active	32 80009417	-103 7606904	3629805 588	616035 277	1	06
3002538746	COG OPERATING LLC		32E	A	20	6/13/2009 17 0S		7033 BC FEDERAL 028	O	Active	32 82546966	-103 7809974	3632596 797	614101 393	1	06
3002539322	CONOCOPHILLIPS COMPANY		32E	C	33	6/15/2009 17 0S		4338 MCA UNIT 491	O	Active	32 79691514	-103 7755506	3629436 93	614647 924	1	06
3002524274	CONOCOPHILLIPS COMPANY		32E	O	22	11/14/1972 17 0S		4200 MCA UNIT 327	O	Active	32 8161586	-103 7542558	3631593 692	616616.796	1	07
3002512756	CONOCO INC	1/2/1900	32E	F	29	1/2/1900 17 0S		3992 MCA UNIT 156	O	Plugged	32 80543189	-103 7887341	3630366 94	613402 631	1	08
3002500724	CONOCOPHILLIPS COMPANY		32E	K	27	17 0S		4094 MCA UNIT 181	O	Active	32 80371484	-103.7563796	3630211 741	616434 198	1	08
3002539264	COG OPERATING LLC		32E	N	20	3/2/2009 17 0S		7103 GC FEDERAL 027	O	Active	32.81557512	-103 7900385	3631490 092	613267 631	1	08
3002500799	CONOCO INC	1/2/1900	32E	C	33	1/2/1900 17 0S	Not Reported	MCA UNIT 221	O	Plugged	32 79649763	-103.7735554	3629392.807	614835 287	1	08
3002508056	CONOCO INC	8/17/1996	32E	G	20	4/24/1939 17 0S		4038 MCA UNIT 049	O	Plugged	32 82192484	-103 786552	3632197 809	613585 95	1	08
3002500800	CONOCOPHILLIPS COMPANY		32E	B	33	17 0S		4135 MCA UNIT 223	I	Active	32 79648658	-103 7693166	3629396 192	615232 217	1	09
3002520231	CONOCO INC	7/25/1996	32E	A	20	5/19/1970 17 0S		5445 MCA UNIT 258	O	Plugged	32.82464548	-103.7833183	3632502 919	613885 19	1	09
3002539321	CONOCOPHILLIPS COMPANY		32E	B	33	6/21/2009 17 0S		4300 MCA UNIT 490	O	Active	32 79628341	-103 7704606	3629372 421	615125 356	1	09
3002512748	CONOCO INC	1/2/1900	32E	A	21	1/2/1900 17 0S		4140 MCA UNIT 029	O	Plugged	32 82642284	-103 7639789	3632720 978	615693 229	1	09
3002530363	CONOCOPHILLIPS COMPANY		32E	D	22	1/14/1989 17 0S		10000 BAISH A 014	O	Active	32.82509845	-103 7612612	3632577 125	615949 347	1	09
3002500758	CONOCO INC	4/24/2000	32E	C	29	7/16/1940 17 0S		4073 MCA UNIT 110	O	Plugged	32.81104017	-103.7907527	3630986 55	613206 52	1	09
3002512782	CONOCOPHILLIPS COMPANY		32E	D	34	17 0S		4139 MCA UNIT 225	O	Active	32 79821493	-103 762764	3629594 968	615843 553	1	10
3002539417	COG OPERATING LLC		32E	G	20	10/4/2009 17 0S		7010 BC FEDERAL 043	O	Active	32 82101794	-103.7876299	3632096.105	613486 199	1	10
3002539088	COG OPERATING LLC		32E	K	22	3/16/2009 17 0S		7008 J C FEDERAL 021	O	Active	32 81934856	-103 7551712	3631946 346	616526 933	1	10
3002535142	CONOCOPHILLIPS COMPANY	11/11/2009	32E	K	27	9/17/2000 17 0S		4499 MCA UNIT 387	O	Plugged	32 80430971	-103 7554812	3630278 683	616517 54	1	10
3002508055	CONOCOPHILLIPS COMPANY	1/3/2003	32E	A	20	7/8/1938 17 0S		4129 MITCHELL A 004	G	Plugged	32 82555233	-103.7822404	3632604.621	613984 932	1	10
3002539266	COG OPERATING LLC		32E	N	20	9/26/2009 17 0S		7123 GC FEDERAL 031	O	Active	32 81429727	-103 7908216	3631347 581	613195 939	1	11
3002508067	CONOCO INC	3/25/1988	32E	N	20	8/23/1945 17 0S		4027 MCA UNIT 097	O	Plugged	32 81466831	-103 7907568	3631388 787	613201 535	1	11
3002523984	CONOCOPHILLIPS COMPANY		32E	C	33	17 0S		4175 MCA UNIT 300	O	Active	32 79611394	-103.7739798	3629349 807	614796 04	1	11
3002512749	MALJAMAR OIL & GAS	1/2/1900	32E	A	33	1/2/1900 17 0S		515 PEARSALL LM 001	O	Plugged	32 79759876	-103 7636621	3629525 672	615760 256	1	11
3002500578	CONOCO INC	1/2/1900	32E	N	16	1/2/1900 17 0S	Not Reported	MCA UNIT 012	I	Plugged	32 82825602	-103.7725294	3632914 89	614890.479	1	11
3002512772	CONOCOPHILLIPS COMPANY	2/18/2005	32E	K	20	10/1/1948 17 0S		4039 MCA UNIT 064	O	Plugged	32 82004116	-103 7887042	3631986 659	613386 872	1	12
3002500815	CONOCO INC	11/9/1993	32E	A	33	17 0S		MCA UNIT 383	O	Plugged	32.79737956	-103 7639233	3629501 084	615736 082	1	12
3002539432	CONOCOPHILLIPS COMPANY		32E	A	33	8/1/2009 17 0S		4334 MCA UNIT 489	O	Active	32 79647919	-103 766472	3629398 476	615498 591	1	12
3002538740	COG OPERATING LLC		32E	D	22	17 0S		6952 MC FEDERAL 019	O	Active	32 82460111	-103 7596575	3632523 747	616100 114	1	12
3002500798	CONOCOPHILLIPS COMPANY	4/18/2007	32E	D	33	17 0S		4283 MCA UNIT 220	I	Plugged	32.79650888	-103 7778713	3629389.376	614431 138	1	13
3002500632	CONOCOPHILLIPS COMPANY	4/30/2003	32E	E	22	9/28/1944 17 0S		4075 MCA UNIT 039	I	Plugged	32 82187471	-103.7564133	3632225 046	616407 359	1	13
3002531100	CONOCOPHILLIPS COMPANY		32E	F	29	17 0S		4350 MCA UNIT 386	I	Active	32 80757418	-103 7906991	3630602 344	613215 933	1	13
3002500801	CONOCO INC	12/11/1999	32E	A	33	17 0S		MCA UNIT 224	O	Plugged	32 7967502	-103 7650012	3629430 129	615635 964	1	13
3002500624	CONTINENTAL OIL	1/2/1900	32E	D	22	1/2/1900 17 0S	Not Reported	MCA UNIT 030	O	Plugged	32.82550989	-103 7607389	3632623 314	615997 704	1	13
3002500760	CONOCO INC	6/29/1990	32E	F	29	8/13/1940 17 0S		4070 MCA UNIT 157	I	Plugged	32 80741203	-103 7907479	3630584.314	613211.57	1	14
3002512793	CONOCOPHILLIPS COMPANY	10/12/2004	32E	J	27	17 0S		4070 MCA UNIT 182	O	Plugged	32.80545618	-103 7540884	3630407.325	616646 451	1	14
3002538984	CONOCOPHILLIPS COMPANY		32E	N	27	9/2/2008 17 0S		4465 MCA UNIT 416	O	Active	32 80009042	-103 7584994	3629807 579	616240 436	1	14
3002528161	ENDURANCE RESOURCES LLC		32E	A	32	17 0S		4200 HOVER STATE 006	O	Active	32 79742302	-103 7811099	3629487 224	614126 712	1	14
3002538985	CONOCOPHILLIPS COMPANY		32E	M	27	12/29/2008 17 0S		4466 MCA UNIT 417	O	Active	32 79852746	-103 7606879	3629631 894	616037 546	1	14
3002538713	COG OPERATING LLC		32E	G	20	3/17/2010 17 0S		7025 BC FEDERAL 031	O	Active	32 822722	-103 7871093	3632285 589	613532 766	1	14
3002534772	COG OPERATING LLC		32E	F	22	1/7/2000 17 0S		5950 J C FEDERAL 002	O	Active	32 8209659	-103 7553318	3632125 48	616509 787	1	15
3002500797	MALJAMAR OIL & GAS	1/2/1900	32E	A	33	1/2/1900 17 0S		4339 PEARSALL PERMIT 003	O	Plugged	32 79647534	-103.7650007	3629399.657	615636 367	1	15
3002535989	COG OPERATING LLC		32E	D	22	12/27/2002 17 0S		6918 MC FEDERAL 008	O	Active	32 82641867	-103 7618203	3632722 882	615895 295	1	15
3002500715	CONOCOPHILLIPS COMPANY		32E	B	27	17 0S		4100 MCA UNIT 121	I	Active	32 81097389	-103 75217	3631021 178	616818 85	1	16
3002530116	CONOCO INC	10/3/1995	32E	J	22	11/17/1987 17 0S		4250 MCA UNIT 378	O	Plugged	32 81978131	-103.7542932	3631995 292	616608 562	1	16
3002538983	CONOCOPHILLIPS COMPANY		32E	N	27	1/9/2009 17 0S		4412 MCA UNIT 415	O	Active	32 80187284	-103 7561314	3630007 797	616459 84	1	16
3002500599	CONOCO INC	1/2/1900	32E	P	17	1/2/1900 17 0S		4147 MCA UNIT 014	O	Plugged	32 82747599	-103 7802156	3632820.079	614172 008	1	16
3002530731	CONOCOPHILLIPS COMPANY	3/23/2007	32E	O	22	17 0S		4420 MCA UNIT 385	O	Plugged	32.81446462	-103.7521768	3631408 18	616813 646	1	16
3002500640	CONTINENTAL OIL	1/2/1900	32E	O	22	1/2/1900 17 0S	Not Reported	MCA UNIT 085	O	Plugged	32 81460205	-103 7521769	3631423 416	616813 457	1	17
3002538539	COG OPERATING LLC		32E	B	20	10/1/2007 17 0S		7015 BC FEDERAL 015	O	Active	32 82464581	-103 7854769	3632500.631	613683 125	1	17
3002508066	CONOCO INC	4/27/2000	32E	K	20	9/13/1941 17 0S		4027 MCA UNIT 063	O	Plugged	32 81829645	-103.7907621	3631791 022	613196.437	1	17
3002512780	CONOCO INC	1/2/1900	32E	F	22	1/2/1900 17 0S	Not Reported	MCA UNIT 038	O	Plugged	32 82029086	-103 7543227	3632051 741	616604 198	1	17
3002500765	CONOCOPHILLIPS COMPANY		32E	O	29	17 0S		4070 MCA UNIT 212	O	Active	32 80015156	-103.7865112	3629783 913	613617 477	1	18
3002500567	CONOCOPHILLIPS COMPANY	3/9/2007	32E	O	16	8/4/1938 17 0S		4109 MCA UNIT 011	O	Plugged	32 82915602	-103 7693808	3633018 098	615184 043	1	19
3002538836	COG OPERATING LLC		32E	C	22	11/1/2008 17 0S		6961 J C FEDERAL 016	O	Active	32 82440559	-103.7577437	3632504 174	616279.519	1	19
3002538727	COG OPERATING LLC		32E	A	20	4/12/2008 17 0S		7035 BC FEDERAL 027	O	Active	32 82626721	-103 7836479	3632682 361	613852 267	1	19
3002523797	CONOCOPHILLIPS COMPANY		32E	K	29	17 0S		4150 MCA UNIT 294	O	Active	32 80203728	-103.7886644	3629990 665	613413 468	1	19
3002512747	CONOCO INC	1/2/1900	32E	P	16	1/2/1900 17 0S	Not Reported	MCA UNIT 010	O	Plugged	32 82801644	-103 7637203	3632897 94	615715 369	1	20
3002500717	CONOCOPHILLIPS COMPANY		32E	G	27	17 0S		3853 MCA UNIT 146	O	Active	32 80734573	-103 7521628	3630618 941	616824.272	1	20
3002500809	CONOCO INC	1/2/1900	32E	G	33	1/2/1900 17 0S	Not Reported	MCA UNIT 230	O	Plugged	32 79460916	-103.7713896	3629185 791	615040 522	1	20
3002524513	CONOCOPHILLIPS COMPANY		32E	M	27	17 0S		4425 MCA UNIT 346	O	Active	32 79842824	-103 7589219	3629622.833	616203 038	1	21
3002539433	CONOCOPHILLIPS COMPANY		32E	G	33	8/9/2009 17 0S		4373 MCA UNIT 492	O	Active	32 79464501	-103 7693135	3629192 026	615234 883	1	21
3002538860	CONOCOPHILLIPS COMPANY		32E	D	34	8/22/2008 17 0S		4531 MCA UNIT 406	O	Active	32 79647155	-103 7623196	3629402 172	615887 427	1	21
3002537656	COG OPERATING LLC		32E	F	22	1/27/2006 17 0S		10200 J C FEDERAL 004	O	Active	32 82277998	-103 755336	3632326 598	616507 025	1	22
3002523778	CONOCO INC	6/1/1993	32E	D	29	5/15/1971 17 0S		4080 MCA UNIT 288	O	Plugged	32 81267629	-103 7929949	3631165.543	612994 527	1	22
3002529955	CONOCO INC	9/29/1995	32E	F	33	17 0S		MCA UNIT 371	O	Plugged	32.7945929	-103 7756773	3629179 333	614639 04	1	22

3002500789	ENDURANCE RESOURCES LLC		32E	A	32	11/13/1940	17 0S		3955	HOVER STATE 001	O	Active	32 79651747	-103 7821872	3629385.666	614026.993		1 23
3002539519	COG OPERATING LLC		32E	O	29	11/9/2009	17 0S		10482	MALJAMAR SWD 29 001	S	Active	32 7996851	-103 7870988	3629731 566	613563 05		1 23
3002500579	CONOCOPHILLIPS COMPANY		32E	M	16	2/21/1969	17 0S		4150	MCA UNIT 013	O	Active	32 82917525	-103 7779281	3633010 945	614383 953		1 23
3002500627	CONOCOPHILLIPS COMPANY		32E	J	22		17 0S		4112	MCA UNIT 074	I	Active	32 81823019	-103 7521816	3631825.655	616808 268		1 23
3002500727	CONOCO INC	12/18/1998	32E	N	27		17 0S			MCA UNIT 205		Plugged	32 80008668	-103 7563738	3629809.503	616439 472		1 23
3002500754	CONOCOPHILLIPS COMPANY		32E	K	29		17 0S		3964	MCA UNIT 170	O	Active	32 80378556	-103 7907432	3630182 264	613216 608		1 23
3002523798	CONTINENTAL OIL	3/17/1988	32E	D	29	7/5/1971	17 0S		4080	MCA UNIT 290	O	Plugged	32 80929552	-103 7929905	3630790 732	612999 218		1 24
3002539165	COG OPERATING LLC		32E	J	22	11/9/2009	17 0S		7148	J C FEDERAL 024	O	Active	32 81732219	-103 7516244	3631725 603	616861 62		1 24
3002529853	CONOCOPHILLIPS COMPANY		32E	E	29		17 0S		4150	MCA UNIT 369	O	Active	32 80902066	-103 7929901	3630760 259	612999 604		1 24
3002529852	CONOCOPHILLIPS COMPANY	11/14/2006	32E	G	33		17 0S		4396	MCA UNIT 370	O	Plugged	32 7943795	-103 7676194	3629164.437	615393 863		1 25
3002500637	CONOCO INC	1/2/1900	32E	C	22	1/2/1900	17 0S		13657	BAISH B 001	O	Plugged	32 82550463	-103 7575009	3632626 29	616300 815		1 25
3002539261	COG OPERATING LLC		32E	K	20	3/23/2009	17 0S		7020	GC FEDERAL 020	O	Active	32 81920382	-103 7918428	3631890 463	613094.117		1 25
3002538744	COG OPERATING LLC		32E	B	20	9/9/2009	17 0S		7024	BC FEDERAL 025	O	Active	32 82464608	-103 7876356	3632498 341	613481 051		1 26
3002508061	CONOCOPHILLIPS COMPANY	9/16/2004	32E	B	20	6/15/1944	17 0S		4080	MCA UNIT 024		Plugged	32 82555298	-103 7865577	3632600 045	613580 798		1 26
3002508050	CONOCOPHILLIPS COMPANY	12/5/2006	32E	F	20	10/25/1960	17 0S		5500	MCA UNIT 257	O	Plugged	32 82367047	-103 7886932	3632389 043	613383.29		1 26
3002500731	CONTINENTAL OIL	1/2/1900	32E	O	27	1/2/1900	17 0S	Not Reported		QUEEN B 001	O	Plugged	32 80170179	-103 7541984	3629990.963	616641 056		1 26
3002500817	CONOCOPHILLIPS COMPANY	12/21/2006	32E	D	34		17 0S		4270	MCA UNIT 226		Plugged	32 796466	-103 7606848	3629403 349	616040 515		1 26
3002538995	COG OPERATING LLC		32E	G	22	3/3/2010	17 0S		7042	J C FEDERAL 019	O	Active	32 82137488	-103 7532649	3632173 103	616702 741		1 26
3002523738	CONOCOPHILLIPS COMPANY		32E	H	33		17 0S		4230	MCA UNIT 275	O	Active	32 79459253	-103 7649975	3629190 919	615639 104		1 27
3002534914	ENDURANCE RESOURCES LLC		32E	B	32	3/20/2000	17 0S		4202	HOVER STATE 008	O	Active	32 79742897	-103 7854258	3629483 234	613722 574		1 28
3002523686	CONOCOPHILLIPS COMPANY		32E	L	20		17 0S		4100	MCA UNIT 265	O	Active	32 81674701	-103.7932324	3631616 598	612967 14		1 28
3002508057	CONOCO INC	5/3/2000	32E	F	20	8/30/1941	17 0S		4081	MCA UNIT 050		Plugged	32 82192542	-103 7907675	3632193 35	613191 329		1 29
3002524058	CONOCO INC	9/11/2001	32E	A	27		17 0S			MCA UNIT 307	O	Plugged	32 81223697	-103 7498507	3631163 778	617034 336		1 29
3002523707	CONOCOPHILLIPS COMPANY		32E	F	29		17 0S		4130	MCA UNIT 270	O	Active	32 80566732	-103 7928221	3630388.664	613019 577		1 29
3002500718	CONOCOPHILLIPS COMPANY		32E	J	27		17 0S		4180	MCA UNIT 184	I	Active	32 80370756	-103 7521554	3630215 594	616829 725		1 29
3002500625	CONOCO INC	9/8/1995	32E	C	22		17 0S		4157	BAISH B 002	G	Plugged	32 82550286	-103 7564216	3632627 282	616401 849		1 29
3002539415	COG OPERATING LLC		32E	B	20	12/11/2009	17 0S		7050	BC FEDERAL 041	O	Active	32 82645999	-103 7863628	3632700 812	613597 887		1 30
3002539272	COG OPERATING LLC		32E	M	20	8/28/2009	17 0S		7016	GC FEDERAL 030	O	Active	32 81376232	-103.7941896	3631284 671	612881 304		1 30
3002524369	CONOCOPHILLIPS COMPANY		32E	H	27		17 0S		4125	MCA UNIT 335	O	Active	32 80908721	-103 7499262	3630814 488	617031 397		1 30
3002539472	COG OPERATING LLC		32E	M	20	11/16/2009	17 0S		7123	GC FEDERAL 041	O	Active	32 81586492	-103 7939474	3631518 039	612901 32		1 30
3002533584	CONOCOPHILLIPS COMPANY		32E	F	20	10/5/1996	17 0S		13900	ELVIS 001	O	Active	32 82247514	-103 7907683	3632254 295	613190 557		1 31
3002539089	COG OPERATING LLC		32E	J	22	6/25/2009	17 0S		7025	J C FEDERAL 022	O	Active	32 81913536	-103 7511034	3631927 201	616908 019		1 31
3002538366	COG OPERATING LLC		32E	F	20	6/15/2007	17 0S		6985	BC FEDERAL 014	O	Active	32 82283244	-103 790638	3632294 048	613202 301		1 31
3002524236	CONOCOPHILLIPS COMPANY		32E	I	22		17 0S		4175	MCA UNIT 325	O	Active	32 81648095	-103 7499389	3631634.201	617020 515		1 32
3002536156	CONOCO INC	1/2/1900	32E	P	17	1/2/1900	17 0S	Not Reported		MCA UNIT 246	O	Plugged	32 82918046	-103 7822461	3633006.857	613979 764		1 32
3002538982	CONOCOPHILLIPS COMPANY		32E	O	27	1/4/2009	17 0S		4510	MCA UNIT 414	O	Active	32 80008299	-103 7542736	3629811 408	616636 129		1 32
3002537964	COG OPERATING LLC		32E	C	22	10/13/2006	17 0S		7100	J C FEDERAL 005	O	Active	32 8257909	-103 7560788	3632659 594	616433 562		1 32
3002500804	MARBOB ENERGY CORP	1/2/1900	32E	F	33	1/2/1900	17 0S	Not Reported		PEARSALL A 003	O	Plugged	32 79286945	-103 773549	3628990.568	614840 551		1 33
3002500807	CONOCO INC	6/16/2000	32E	F	33		17 0S			MCA UNIT 232	I	Plugged	32 79284196	-103 773549	3628987.52	614840 586		1 33
3002538859	CONOCOPHILLIPS COMPANY		32E	C	34	8/13/2008	17 0S		4566	MCA UNIT 405	O	Active	32 79783308	-103.7565151	3629559 496	616429 179		1 33
3002500803	CONOCOPHILLIPS COMPANY		32E	G	33	6/15/1954	17 0S		4280	MCA UNIT 231	O	Active	32 7928584	-103 7693105	3628993 953	615237 469		1 33
3002500633	CONOCO INC	5/15/2002	32E	G	22		17 0S			MCA UNIT 037	O	Plugged	32 82186793	-103 7521862	3632228 958	616803 076		1 34
3002533949	CONOCOPHILLIPS COMPANY		32E	F	20	5/22/1997	17 0S		12100	ELVIS 004	O	Active	32 82280503	-103 7911416	3632290 47	613155 193		1 34
3002538730	COG OPERATING LLC		32E	K	16	5/17/2008	17 0S		7025	EDWARD STATE 004	O	Active	32 83147203	-103 7725993	3633271 365	614879 794		1 34
3002534713	COG OPERATING LLC		32E	B	20	12/17/1999	17 0S		5773	BC FEDERAL 002	O	Active	32 82646015	-103 7876384	3632699.459	613478 482		1 35
3002500558	CONOCO INC	12/5/1992	32E	M	15		17 0S		4003	MCA UNIT BATTERY 2 009	O	Plugged	32 82913803	-103 7607449	3633025.551	615992 425		1 35
3002500808	CONOCOPHILLIPS COMPANY		32E	E	33		17 0S		4165	MCA UNIT 233	O	Active	32 79315556	-103 7778654	3629017 61	614435 986		1 35
3002523672	CONTINENTAL OIL	1/2/1900	32E	L	20	1/2/1900	17 0S	Not Reported		MCA UNIT 263	O	Plugged	32 81998485	-103.7932372	3631975 562	612962 592		1 35
3002508069	CONOCO INC	11/22/1999	32E	M	20		17 0S			MCA UNIT 098	O	Plugged	32 81466961	-103 795074	3631384.316	612797.36		1 35
3002524275	CONOCOPHILLIPS COMPANY		32E	J	27		17 0S		4215	MCA UNIT 329	O	Active	32 80544943	-103 7500824	3630411 003	617021 54		1 35
3002521226	CONOCOPHILLIPS COMPANY		32E	M	15	6/24/1965	17 0S		9950	HUDSON 001	O	Active	32 82944091	-103 7610724	3633058 771	615961 376		1 35
3002529967	CONOCOPHILLIPS COMPANY		32E	L	20		17 0S		4203	MCA UNIT 374	O	Active	32 81974029	-103.7934789	3631948 19	612940 276		1 36
3002500814	KEWANEE OIL CO	1/2/1900	32E	H	33	1/2/1900	17 0S	Not Reported		PEARSALL AX 007	O	Plugged	32 79313942	-103.7653416	3629029 44	615608 763		1 36
3002500790	ENDURANCE RESOURCES LLC		32E	B	32		17 0S		4022	HOVER STATE 002	I	Active	32 7965234	-103 7865031	3629381 679	613622 851		1 36
3002500757	CONOCO INC	12/29/1999	32E	N	29	10/13/1941	17 0S		4034	MCA UNIT 213	I	Plugged	32 80015741	-103.7907385	3629780 027	613221.648		1 37
3002500805	CONOCO INC	1/2/1900	32E	E	33	1/2/1900	17 0S	Not Reported		PEARSALL A 001	O	Plugged	32 7928807	-103 7778649	3628987.137	614436.385		1 37
3002530679	COG OPERATING LLC		32E	J	16	7/21/1993	17 0S		6060	LEAKER CC STATE 009	O	Active	32 83187952	-103 7704637	3633318 867	615079 165		1 37
3002524499	CONOCOPHILLIPS COMPANY	3/27/2007	32E	J	22	8/29/1973	17 0S		4150	MCA UNIT 345	O	Plugged	32 81969709	-103 7501066	3631990 582	617000.598		1 38
3002500576	COG OPERATING LLC		32E	K	16		17 0S		4350	EDWARD STATE 002	O	Active	32 83207709	-103.7727637	3633338 268	614863 627		1 38
3002500761	CONOCO INC	9/6/1997	32E	E	29	10/8/1940	17 0S		3779	MCA UNIT 158	O	Plugged	32 80741333	-103 7950645	3630579 844	612807 418		1 38
3002524583	CONOCOPHILLIPS COMPANY		32E	N	27		17 0S		4350	MCA UNIT 353	O	Active	32 79874996	-103 7542952	3629663 595	616635 847		1 38
3002538838	COG OPERATING LLC		32E	J	16	11/15/2008	17 0S		7004	LEAKER CC STATE 015	O	Active	32 83187472	-103 7683047	3633320 688	615281 257		1 38
3002500802	KEWANEE OIL CO	1/2/1900	32E	H	33	1/2/1900	17 0S	Not Reported		PEARSALL A FEDERAL 007	O	Plugged	32 79284716	-103 7649946	3628997 418	615641 635		1 39
3002538697	COG OPERATING LLC		32E	B	22	7/7/2008	17 0S		7035	J C FEDERAL 013	O	Active	32 82459073	-103 753269	3632529 633	616698 152		1 39
3002523767	CONOCO INC	2/18/1998	32E	K	29		17 0S			MCA UNIT 293	O	Plugged	32 80204313	-103.7928175	3629986.867	613024 595		1 39
3002527929	LYNX PETROLEUM CONSULTANTS INC		32E	N	15	1/14/1983	17 0S		4212	LYNX FEDERAL 003	O	Active	32 82822574	-103 7575053	3632927.968	616296 856		1 40
3002531092	ENDURANCE RESOURCES LLC		32E	H	32		17 0S		4245	HOVER STATE 007	O	Active	32 79332759	-103 7811026	3629033 184	614132 628		1 40
3002500590	CONOCOPHILLIPS COMPANY		32E	O	17		17 0S		3514	MITCHELL B 010	O	Active	32 82827408	-103 7865628	3632901.72	613576 856		1 40
3002500716	CONOCOPHILLIPS COMPANY		32E	A	27		17 0S		4120	MCA UNIT 122	O	Active	32 81096631	-103 7478534	3631025 116	617222 997		1 41
3002500577	COG OPERATING LLC		32E	L	16	9/28/1994	17 0S		4168	EDWARD STATE 003	G	Active	32 83208634	-103 7768527	3633334 855	614480 879		1 41
3002500818	CONOCOPHILLIPS COMPANY	3/1/2005	32E	C	34	6/15/1941	17 0S		4171	MCA UNIT 227	O	Plugged	32 79645852	-103 7563689	3629407 263	616444 661		1 41

3002508068	CONOCO INC	9/15/1995	32E	L	20		17 0S			4129	MCA UNIT 062	I		Plugged	32.81829775	-103.7950794	3631786.551	612792.27	1.41
3002500639	CONOCOPHILLIPS COMPANY		32E	P	22		17 0S			4129	MCA UNIT 084	I		Active	32.81459447	-103 7478596	3631427.355	617217.652	1.42
3002539320	CONOCOPHILLIPS COMPANY		32E	I	27	5/21/2009	17 0S			4390	MCA UNIT 474	O		Active	32 80403296	-103 74954	3630254.563	617074.182	1.42
3002500723	CONOCOPHILLIPS COMPANY		32E	O	27		17 0S			4132	MCA UNIT 204	O		Active	32 8000794	-103.752148	3629813.357	616835.165	1.42
3002538261	COG OPERATING LLC		32E	G	22	8/31/2007	17 0S			7020	J C FEDERAL 009	O		Active	32 82277327	-103 751108	3632330.523	616902.823	1.42
3002508049	CONTINENTAL OIL	1/2/1900	32E	C	20	1/2/1900	17 0S	Not Reported		MCA UNIT 255		O		Plugged	32.82380843	-103 7922748	3632400.501	613047.842	1.43
3002500584	PHILLIPS PETROLEUM CO	1/2/1900	32E	K	16	1/2/1900	17 0S	Not Reported		MALJAMAR 002		O		Plugged	32.83279365	-103 7736152	3633416.786	614783.003	1.43
3002508060	CONOCOPHILLIPS COMPANY	2/5/2003	32E	C	20	4/8/1944	17 0S			4052	MCA UNIT 023	O		Plugged	32.82555356	-103 7907728	3632595.586	613186.23	1.43
3002500569	COG OPERATING LLC		32E	J	16	2/12/1959	17 0S			4318	LEAKER CC STATE 003	O		Active	32.83278416	-103 7693853	3633420.337	615178.937	1.43
3002526720	COG OPERATING LLC		32E	C	32		17 0S			4275	WALLINGFORD 002	O		Active	32 79743478	-103 7896603	3629479.333	613326.059	1.44
3002538619	COG OPERATING LLC		32E	L	16	2/26/2008	17 0S			7025	LEAKER CC STATE 010	O		Active	32 83186506	-103.7639867	3633324.337	615685.441	1.44
3002500714	CONOCOPHILLIPS COMPANY		32E	H	27		17 0S			3798	MCA UNIT 145	I		Active	32 80733815	-103 7478462	3630622.878	617228.435	1.44
3002508048	CONOCOPHILLIPS COMPANY		32E	L	20		17 0S			5442	MITCHELL B 015	O		Active	32 81829794	-103 7957335	3631785.874	612731.035	1.45
3002538745	COG OPERATING LLC		32E	E	20	8/25/2008	17 0S			7000	BC FEDERAL 026	O		Active	32 82101891	-103 7944947	3632088.862	612843.566	1.45
3002500793	KERSEY, COMPANY	1/2/1900	32E	H	32	1/2/1900	17 0S	Not Reported		HOVER FRITSCHI STATE 005		O		Plugged	32.79288931	-103.7821808	3628983.43	614032.223	1.45
3002500592	CONOCO INC	1/2/1900	32E	O	17	1/2/1900	17 0S	Not Reported		MITCHELL B 009		O		Plugged	32.82918111	-103.7865641	3633002.279	613575.58	1.45
3002539349	CONOCOPHILLIPS COMPANY		32E	I	27	4/3/2009	17 0S			4405	MCA UNIT 475	O		Active	32.80535016	-103 7483327	3630401.935	617185.494	1.45
3002500732	CONOCOPHILLIPS COMPANY		32E	J	27	8/17/1954	17 0S			4266	MCA UNIT 185	O		Active	32 8019587	-103 7500753	3630024.002	617026.78	1.45
3002500755	CONOCOPHILLIPS COMPANY		32E	L	29		17 0S			3935	MCA UNIT 169	I		Active	32.80379154	-103 7950598	3630178.313	612812.434	1.46
3002512711	CONOCOPHILLIPS COMPANY		32E	L	22		17 0S			4055	MCA UNIT 075	O		Active	32.81822261	-103 7478643	3631829.594	617212.447	1.47
3002500575	CONTINENTAL OIL	1/2/1900	32E	N	16	1/2/1900	17 0S	Not Reported		GULF STATE E 001		O		Plugged	32 8328034	-103 7779332	3633413.184	614378.824	1.47
3002539479	COG OPERATING LLC		32E	B	22	11/30/2009	17 0S			7036	J C FEDERAL 040	O		Active	32.82640481	-103.7532712	3632730.754	616695.573	1.47
3002512764	CONOCOPHILLIPS COMPANY	3/16/2007	32E	P	19	1/7/1947	17 0S			3986	MCA UNIT 099		O	Plugged	32.81292506	-103 7973119	3631188.517	612590.05	1.47
3002538699	COG OPERATING LLC		32E	H	22	8/7/2008	17 0S			7017	J C FEDERAL 015	O		Active	32 82095577	-103 7489471	3632131.413	617107.493	1.47
3002523741	CONOCOPHILLIPS COMPANY		32E	D	29		17 0S			4025	MCA UNIT 281	O		Active	32.80929672	-103 7971436	3630786.433	612610.383	1.48
3002500636	CONOCOPHILLIPS COMPANY		32E	B	22	9/30/1959	17 0S			4033	BAISH B 003	O		Active	32 82549608	-103 7521908	3632631.198	616797.896	1.48
3002500820	CONOCO INC	10/2/2000	32E	E	34		17 0S			4440	MCA UNIT BATTERY 2 229	I		Plugged	32 79283784	-103.7606787	3629001.111	616045.799	1.48
3002500571	COG OPERATING LLC		32E	E	16		17 0S			4224	LEAKER CC STATE 005	O		Active	32 83277452	-103 7650673	3633423.984	615583.117	1.48
3002538834	COG OPERATING LLC		32E	K	16	9/12/2008	17 0S			7012	EDWARD STATE 006	O		Active	32 83370314	-103 774696	3633516.445	614680.67	1.50
3002524462	CONOCOPHILLIPS COMPANY		32E	P	22	7/17/1973	17 0S			4150	MCA UNIT 341	O		Active	32 81305228	-103 7461896	3631258.229	617376.025	1.50
3002508058	CONOCOPHILLIPS COMPANY	9/20/2004	32E	F	20	1/2/1942	17 0S			3990	MCA UNIT 051		O	Plugged	32.82192602	-103 7950847	3632188.801	612787.188	1.50
3002523673	CONOCOPHILLIPS COMPANY		32E	I	19		17 0S			4060	MCA UNIT 264	O		Active	32 81655321	-103 7973172	3631590.753	612584.978	1.50
3002533854	CONOCOPHILLIPS COMPANY		32E	O	17	3/8/1997	17 0S			14000	ELVIS 002	O		Active	32 82948359	-103 7876309	3633034.668	613475.338	1.50
3002524515	CONOCOPHILLIPS COMPANY		32E	A	27		17 0S			4175	MCA UNIT 347	O		Active	32 80935547	-103 7462151	3630848.344	617378.499	1.51
3002538981	CONOCOPHILLIPS COMPANY		32E	B	34	1/14/2009	17 0S			4620	MCA UNIT 413	O		Active	32 79823728	-103 7518162	3629609.492	616868.643	1.51
3002500721	CONOCO INC	7/31/1996	32E	I	27		17 0S			4250	MCA UNIT 186	O		Plugged	32 80370014	-103 7478388	3630219.549	617233.904	1.52
3002538735	COG OPERATING LLC		32E	L	16	8/19/2008	17 0S			7020	LEAKER CC STATE 014	O		Active	32 83368398	-103 7661479	3633523.632	615480.794	1.53
3002500794	MACK ENERGY CORP	8/22/2002	32E	C	32	3/30/1968	17 0S			4041	WALLINGFORD 001	O		Plugged	32.79652925	-103.7907348	3629377.789	613226.594	1.53
3002527292	COG OPERATING LLC		32E	C	32		17 0S			4700	WALLINGFORD 003	O		Active	32 79562069	-103 7896546	3629278.216	613328.895	1.53
3002536503	COG OPERATING LLC		32E	J	33	12/27/2003	17 0S			6025	PEARSALL A 002	O		Active	32 79012736	-103.7678182	3628692.798	615380.739	1.53
3002534733	COG OPERATING LLC		32E	C	20	10/18/1999	17 0S			5900	BC FEDERAL 001	O		Active	32 82646079	-103 7920988	3632694.749	613060.957	1.53
3002536364	COG OPERATING LLC		32E	I	33	10/9/2003	17 0S			5100	PEARSALL AX 008	O		Active	32 7901479	-103 7767811	3628685.333	614541.378	1.54
3002508052	CONOCOPHILLIPS COMPANY	12/15/2006	32E	F	20	8/3/1961	17 0S			5350	MCA UNIT 253		O	Plugged	32 8219261	-103 7957389	3632188.112	612725.947	1.54
3002538731	COG OPERATING LLC		32E	B	22	12/6/2008	17 0S			6999	J C FEDERAL 010	O		Active	32 8258517	-103 7511119	3632671.818	616898.424	1.54
3002538621	COG OPERATING LLC		32E	L	16	2/10/2008	17 0S			7040	EDWARD STATE 005	O		Active	32.83371286	-103 7790139	3633512.844	614276.505	1.55
3002536194	COG OPERATING LLC		32E	D	20	5/11/2003	17 0S			6598	BC FEDERAL 008	O		Active	32 82464698	-103 7940094	3632491.614	612884.406	1.55
3002500598	CONOCOPHILLIPS COMPANY		32E	I	17		17 0S			4240	MCA UNIT 008	O		Active	32.83280859	-103 7822512	3633409.093	613974.65	1.55
3002538814	COG OPERATING LLC		32E	E	20	2/2/2010	17 0S			7041	BC FEDERAL 029	O		Active	32 82244833	-103 7956742	3632246.079	612731.344	1.55
3002536362	COG OPERATING LLC		32E	K	33	12/26/2003	17 0S			5125	PEARSALL AX 006	O		Active	32 78953508	-103 7732488	3628621.222	614872.95	1.55
3002500629	CONOCOPHILLIPS COMPANY	3/28/2007	32E	H	22		17 0S			4184	MCA UNIT 036		O	Plugged	32 82186106	-103 7478689	3632232.976	617207.238	1.56
3002512798	CONOCOPHILLIPS COMPANY		32E	I	30		17 0S			3995	MCA UNIT 168		O	Active	32 8055408	-103 7976781	3630369.457	612565.076	1.56
3002512771	CONOCOPHILLIPS COMPANY	9/21/2004	32E	L	20		17 0S			4024	MCA UNIT 061		O	Plugged	32 82004371	-103 7971588	3631977.903	612595.403	1.56
3002500559	LYNX PETROLEUM CONSULTANTS INC		32E	L	15		17 0S			4150	LYNX FEDERAL 007	O		Active	32 83276628	-103 7608147	3633427.731	615981.174	1.57
3002500792	ENDURANCE RESOURCES LLC		32E	G	32		17 0S			4156	HOVER STATE 004	O		Active	32 79289523	-103 7864967	3628979.442	613628.065	1.57
3002538977	CONOCOPHILLIPS COMPANY		32E	P	27	1/19/2009	17 0S			4476	MCA UNIT 408	O		Active	32 80185857	-103 747835	3630015.382	617236.678	1.57
3002500756	CONOCO INC	10/6/1997	32E	M	29		17 0S			4214	MCA UNIT 214		O	Plugged	32.80016339	-103.7950551	3629776.077	612817.458	1.57
3002500759	CONOCOPHILLIPS COMPANY		32E	D	29	8/4/1940	17 0S			3965	MCA UNIT 109	I		Active	32 80016339	-103 7950551	3629776.077	612817.458	1.57
3002521840	CONTINENTAL OIL	1/2/1900	32E	K	33	1/2/1900	17 0S	Not Reported		PEARSALL AX 004		O		Plugged	32.78923341	-103.7735425	3628587.458	614845.834	1.58
3002500819	CONOCOPHILLIPS COMPANY	1/9/2007	32E	B	34		17 0S			4203	MCA UNIT 228		O	Plugged	32.79645124	-103 7521391	3629411.122	616840.744	1.58
3002536546	MACK ENERGY CORP	6/21/2005	32E	I	33	6/23/2004	17 0S			5200	PEARSALL A 003		O	Plugged	32 79011873	-103 7640745	3628695.931	615731.33	1.58
3002500806	BARNEY COCKBURN	1/2/1900	32E	J	33	1/2/1900	17 0S	Not Reported		PEARSALL A 011		O		Plugged	32 7892237	-103 7693043	3628590.991	615242.738	1.58
3002524370	CONOCO INC	1/2/1900	32E	I	23	1/2/1900	17 0S	Not Reported		MCA UNIT 336		O		Plugged	32.81647268	-103.7452946	3631638.436	617455.316	1.58
3002524375	CONOCOPHILLIPS COMPANY		32E	H	27		17 0S			4280	MCA UNIT 337	O		Active	32 80558909	-103 7457661	3630431.272	617425.49	1.59
3002538696	COG OPERATING LLC		32E	A	22	1/24/2009	17 0S			7000	J C FEDERAL 012	O		Active	32 82458391	-103 7489517	3632533.653	617102.301	1.59
3002528372	LYNX PETROLEUM CONSULTANTS INC		32E	K	15	9/3/1983	17 0S			4031	LYNX FEDERAL 004	O		Active	32 83185388	-103 7575097	3633330.208	616291.714	1.60
3002508041	CONOCOPHILLIPS COMPANY	4/20/2006	32E	P	19		17 0S			3840	MCA UNIT 100		I	Plugged	32 81467469	-103 7993913	3631380.28	612393.171	1.60
3002500586	CONOCO INC	1/2/1900	32E	N	17	1/2/1900	17 0S	Not Reported		MCA UNIT 015			I	Plugged	32 82918169	-103 7907774	3632997.822	613181.197	1.61
3002524109	CONOCOPHILLIPS COMPANY		32E	H	22		17 0S			4250	MCA UNIT 312		O	Active	32 82025031	-103 7461171	3632056.34	617373.347	1.61
3002500823	SOUTHERN UNION PRODUCTION CO	1/2/1900	32E	F	34	1/2/1900	17 0S	Not Reported		PEARSALL B 002		O		Plugged	32 79283035	-103 7563628	3629005.025	616449.962	1.61
3002527861	LYNX PETROLEUM CONSULTANTS INC		32E	O	15		17 0S			4200	LYNX FEDERAL 001	O		Active	32 82926335	-103 753278	3633047.667	616691.197	1.61
3002500595	W J RUTLEDGE JR	1/2/1900	32E	L	33	1/2/1900	17 0S			860	PPEARSALL A 001	O		Plugged	32.78924333	-103 7778584	3628583.877	614441.653	1.61

3002500811	CONOCO INC	1/2/1900	32E	L		33	1/2/1900	17 0S		3496	PEARSALL AX 001	O		Plugged	32 7892433	-103.7778584	3628583.877	614441 653	1.61
3002500784	CONOCO INC	5/8/2000	32E	H		30		17 0S			MCA UNIT 159	I		Plugged	32.80741838	-103 7993811	3630575 807	612403 262	1 63
3002523824	CONOCOPHILLIPS COMPANY		32E	I		30		17 0S		4160	MCA UNIT 295	O		Active	32 80204929	-103 7972976	3629982 77	612605 105	1 63
3002536601	MACK ENERGY CORP	1/6/2006	32E	F		34	3/21/2004	17 0S		5360	LEOPARD FEDERAL 001	O		Plugged	32 7919252	-103 7574402	3628903 487	616350 25	1 63
3002526835	MACK ENERGY CORP	6/6/1997	32E	D		32	6/13/1980	17 0S		4250	HOVER 001	O		Plugged	32.7974408	-103.7939729	3629475.387	612922.231	1 63
3002539319	CONOCOPHILLIPS COMPANY		32E	L		26	4/9/2009	17 0S		4412	MCA UNIT 463	O		Active	32 80403987	-103 7456485	3630259 644	617438 538	1 63
3002538994	COG OPERATING LLC		32E	I		19		17 0S		7021	GC FEDERAL 011	O		Active	32 81712095	-103 7993949	3631651.486	612389.754	1.63
3002500725	CONOCO INC	1/2/1900	32E	P		27	1/2/1900	17 0S	Not Reported		MCA UNIT 203			Plugged	32 80007198	-103.7478314	3629817 312	617239.36	1 63
3002500589	CONOCOPHILLIPS COMPANY		32E	N		17		17 0S		5397	MITCHELL B 011	O		Active	32 82918179	-103 7914316	3632997 133	613119 961	1 63
3002508059	CONOCO INC	1/2/1900	32E	D		20	1/2/1900	17 0S	Not Reported		MCA UNIT 022			Plugged	32 82555416	-103 7950901	3632591 037	612782 096	1 63
3002536502	COG OPERATING LLC		32E	J		33	3/8/2004	17 0S		5360	PEARSALL A 001	O		Active	32 7883191	-103 7703818	3628489 528	615143	1 64
3002538698	COG OPERATING LLC		32E	H		22		17 0S		6817	J C FEDERAL 014	O		Active	32 82276635	-103 7467908	3632334 54	617306 971	1 64
3002536361	COG OPERATING LLC		32E	K		33	8/15/2003	17 0S		5110	PEARSALL AX 005	O		Active	32 78832887	-103 7746199	3628486 005	614746 101	1 64
3002525418	TIPTON OIL, GAS ACQUISITIONS, INC	4/7/2006	32E	O		15		17 0S			HUDSON FEDERAL 001	O		Plugged	32 82912422	-103 7521982	33633033 435	616792 454	1 64
3002500649	CONOCOPHILLIPS COMPANY		32E	M		23		17 0S		4153	MCA UNIT 083	O		Active	32 81458733	-103 7438694	3631430.996	617591 224	1 65
3002508035	CONOCOPHILLIPS COMPANY		32E	I		19	4/9/1946	17 0S		3725	MCA UNIT 060	O		Active	32.81830285	-103 7993967	3631782.518	612388 097	1.65
3002538742	COG OPERATING LLC		32E	H		19	10/3/2008	17 0S		6944	BC FEDERAL 023	O		Active	32 82124055	-103.7983217	3632109 355	612485 031	1 66
3002500705	CONOCOPHILLIPS COMPANY		32E	D		26		17 0S		4050	MCA UNIT 123	I		Active	32 81095859	-103 7435368	3631029.055	617627 144	1.66
3002539306	CONOCOPHILLIPS COMPANY		32E	E		26	3/27/2009	17 0S		4407	MCA UNIT 453	O		Active	32 80911732	-103 7436967	3630824 74	617614 599	1 66
3002500593	CONOCO INC	10/25/1989	32E	J		17	10/25/1989	17 0S		4200	MITCHELL B 008	O		Plugged	32 83280923	-103 7865691	3633404 514	613570 493	1 66
3002535715	I, W INC	2/4/1997	32E	O		30		17 0S		99	BRINE STATION 529	M		Plugged	32.81011704	-103.8004933	3630873 817	612295 736	1 66
3002508051	CONOCOPHILLIPS COMPANY		32E	D		20		17 0S		5370	MCA UNIT 331	I		Active	32 82555424	-103 7957442	3632590 348	612720 867	1 66
3002500643	WILLIAMS & COCKBURN	1/2/1900	32E	M		23	1/2/1900	17 0S	Not Reported		MILLER 003	O		Plugged	32 81458674	-103 7435424	3631431 294	617621 839	1 66
3002500645	KEWANEE OIL CO	1/2/1900	32E	M		23	1/2/1900	17 0S	Not Reported		MILLER A FEDERAL 007	O		Plugged	32 81472417	-103 7435425	3631446.53	617621 648	1 67
3002524218	CONOCOPHILLIPS COMPANY		32E	E		26	8/14/1972	17 0S		4250	MCA UNIT 322	O		Active	32 80760588	-103.7438571	3630656 991	617601 572	1 67
3002524298	CONOCOPHILLIPS COMPANY	11/20/2006	32E	P		27	11/26/1972	17 0S		4400	MCA UNIT 302	I		Plugged	32.79965883	-103 74734	3629772 052	617285 915	1 67
3002531055	COG OPERATING LLC		32E	G		34		17 0S		4758	PEARSALL BX 005	O		Active	32 79373193	-103 7532118	3629108 454	616743 852	1 67
3002539111	COG OPERATING LLC		32E	P		19	7/24/2009	17 0S		7037	GC FEDERAL 015	O		Active	32 81558395	-103.800472	3631479 938	612290 853	1 67
3002523825	CONOCOPHILLIPS COMPANY	4/21/2006	32E	H		19	7/13/1971	17 0S		4085	MCA UNIT 298			Plugged	32 82367174	-103 7973277	3632379.953	612575 014	1.68
3002524527	CONOCOPHILLIPS COMPANY		32E	I		27		17 0S		4400	MCA UNIT 348	O		Active	32 80195113	-103 7457587	3630027.948	617430 967	1 68
3002500581	CONOCO INC	1/2/1900	32E	F		16	1/2/1900	17 0S		3760	STATE O 001	G		Plugged	32 83642168	-103 7736203	3633819.012	614777 857	1 68
3002500638	CONOCO INC	1/2/1900	32E	A		22	1/2/1900	17 0S	Not Reported		BAISH B 004	O		Plugged	32 82548921	-103 7478735	3632635.217	617202 041	1.68
3002500795	MACK ENERGY CORP	7/27/2004	32E	H		32	1/21/1942	17 0S		3490	PEARSALL QUEEN SAND UNIT 001			Plugged	32 7892532	-103.7821744	3628580 313	614037 464	1 68
3002500570	COG OPERATING LLC		32E	G		16		17 0S		4293	LEAKER CC STATE 004	O		Active	32 8364146	-103 7693896	3633822 831	615173 846	1 68
3002508032	CONOCO INC	7/23/1996	32E	I		19	3/8/1971	17 0S		5288	MCA UNIT 259	O		Plugged	32 81830419	-103 8000508	3631781 971	612326 862	1.69
3002525107	V-F PETROLEUM INC		32E	K		15	8/23/1975	17 0S		11700	HUDSON FEDERAL 001	O		Active	32 83275914	-103 7564313	3633431 76	616391 473	1 69
3002500711	CONTINENTAL OIL	1/2/1900	32E	E		26	1/2/1900	17 0S	Not Reported		MCA UNIT 144	M		Plugged	32 80733043	-103.7435296	3630626.817	617632 598	1.69
3002500775	CONOCOPHILLIPS COMPANY		32E	I		30		17 0S		3912	MCA UNIT 167	O		Active	32 80379894	-103 7993763	3630174 536	612408 268	1 69
3002538842	COG OPERATING LLC		32E	I		19	6/22/2008	17 0S		6815	GC FEDERAL 008	O		Active	32.8195603	-103 8000527	3631921 23	612325 103	1 71
3002500580	CONOCOPHILLIPS COMPANY		32E	E		16		17 0S		4040	MCA UNIT 005	O		Active	32 83642881	-103 7779383	3633815 119	614373 697	1 71
3002523732	CONOCOPHILLIPS COMPANY		32E	P		19		17 0S		4030	MCA UNIT 276	O		Active	32 81293361	-103.8014656	3631185 048	612201 166	1.72
3002500791	MACK ENERGY CORP	6/16/1997	32E	D		32		17 0S			HOVER 003	O		Plugged	32.79653523	-103 7950507	3629373.839	612822 453	1 72
3002500796	COG OPERATING LLC		32E	J		32		17 0S		3618	PEARSALL QUEEN SAND UNIT 002	O		Active	32 79653523	-103 7950507	3629373 839	612822 453	1 72
3002512558	CONOCOPHILLIPS COMPANY	8/11/1960	32E	H		16	9/16/1959	17 0S		4147	STATE B 007	O		Plugged	32.83640728	-103.7650716	3633826 736	615578 007	1 72
3002500574	MACK ENERGY CORP	11/19/2002	32E	H		16	9/16/1959	17 0S		3933	LEAKER CC 007	O		Plugged	32.83640716	-103 7650062	3633826.794	615584 128	1.72
3002527443	SANDRIDGE EXPLORATION AND PRODUCTION, LLC		32E	F		32		17 0S		4200	LEA LL STATE 001	O		Active	32 79257126	-103 7907295	3628938 985	613232 107	1.73
3002523789	CONOCOPHILLIPS COMPANY	3/14/2007	32E	B		30	5/29/1971	17 0S		4025	MCA UNIT 289	O		Plugged	32 8096631	-103 8016241	3630822 289	612190 437	1.73
3002508037	CONOCO INC	9/14/2001	32E	H		19		17 0S			MCA UNIT 052	I		Plugged	32 82192911	-103.799402	3632184 545	612383 034	1.73
3002538855	CONOCOPHILLIPS COMPANY		32E	L		26	8/5/2008	17 0S		4477	MCA UNIT 402	O		Active	32 80547761	-103 7431956	3630421 771	617666 312	1 74
3002523730	CONOCOPHILLIPS COMPANY		32E	L		26		17 0S		4260	MCA UNIT 273	I		Active	32 80369243	-103 7438492	3630223 125	617607 467	1 74
3002523739	CONOCO INC	9/20/1995	32E	P		19	4/10/1971	17 0S		4050	MCA UNIT 279	O		Plugged	32 81642433	-103 8014708	3631572 048	612196 291	1 74
3002539315	CONOCOPHILLIPS COMPANY		32E	M		26	4/15/2009	17 0S		4550	MCA UNIT 458	O		Active	32 79993069	-103 7456401	3629804 079	617444 729	1.75
3002500566	COG OPERATING LLC		32E	G		16		17 0S		4202	LEAKER CC STATE 002	G		Active	32 83731982	-103 7683112	3633924 367	615273 611	1 75
3002500704	CONOCO INC	10/26/1989	32E	L		26	8/16/1940	17 0S		4073	MCA UNIT BATTERY 4 187			Plugged	32 80369172	-103 7435222	3630223 416	617638 085	1.75
3002500822	COG OPERATING LLC		32E	H		34		17 0S		3552	PEARSALL BX 002	O		Active	32.79456465	-103 7498951	3629204 442	617053 342	1 76
3002538695	COG OPERATING LLC		32E	A		22	4/29/2008	17 0S		7023	J C FEDERAL 011	O		Active	32 8263945	-103.7467953	3632736.781	617301 78	1 77
3002538992	COG OPERATING LLC		32E	H		19	3/30/2009	17 0S		6918	BC FEDERAL 036	O		Active	32.8210235	-103 80048	3632082 996	612283 261	1 77
3002538589	COG OPERATING LLC		32E	H		16	12/5/2007	17 0S		7020	LEAKER CC STATE 001	O		Active	32 83731615	-103 7661522	3633926.318	615475 689	1.77
3002500821	COG OPERATING LLC		32E	A		34		17 0S		4316	PEARSALL BX 001	O		Active	32 79644381	-103 7478232	3629415 074	617244 891	1 77
3002529427	CONOCOPHILLIPS COMPANY		32E	D		26		17 0S		4250	MCA UNIT 366	O		Active	32 80969903	-103 7416213	3630891.543	617808 143	1 77
3002536511	MACK ENERGY CORP	6/16/2005	32E	G		34	1/13/2004	17 0S		6020	PEARSALL BX 007	O		Plugged	32 79331599	-103 7510529	3629064 725	616946 56	1 78
3002524545	CONOCOPHILLIPS COMPANY		32E	M		23		17 0S		4250	MCA UNIT 349	O		Active	32 81297508	-103 7414634	3631254 928	617818 602	1 78
3002523930	CONOCO INC	3/4/1998	32E	G		30		17 0S			MCA UNIT 278	O		Plugged	32.80567762	-103 8016188	3630380 437	612195 941	1.78
3002500597	CONOCO INC	1/25/1990	32E	H		17	1/25/1990	17 0S		3660	MCA UNIT 006	I		Plugged	32 83643299	-103.7822563	3633810 916	613969 542	1 78
3002538975	CONOCOPHILLIPS COMPANY		32E	M		26	2/27/2009	17 0S		4523	MCA UNIT 404	O		Active	32 80185085	-103 7438422	3630018 961	617610 547	1.78
3002530696	COG OPERATING LLC		32E	A		34	6/28/1990	17 0S		4712	PEARSALL BX 004	O		Active	32 79734896	-103 7467463	3629516.621	617344 541	1 79
3002524463	CONOCO INC	1/2/1900	32E	D		26	1/2/1900	17 0S	Not Reported		MCA UNIT 342	O		Plugged	32 80940189	-103.7414572	3630858 783	617823 899	1 79
3002500650	CONOCO INC	1/2/1900	32E	F		23	1/2/1900	17 0S	Not Reported		MCA UNIT 035	O		Plugged	32.82185429	-103.7435517	3632237 022	617611 39	1 79
3002500585	CONOCO INC	1/2/1900	32E	M		17	1/2/1900	17 0S	Not Reported		MCA UNIT 016	I		Plugged	32 82918229	-103 7950954	3632993 272	612777 014	1.79
3002539113	COG OPERATING LLC		32E	O		19		17 0S		7050	GC FEDERAL 018	O		Active	32 81418656	-103 8026286	3631322 725	612090 711	1 79
3002500564	LYNX PETROLEUM CONSULTANTS INC	8/29/1985	32E	P		15		17 0S		4150	FEDERAL C 001	I		Plugged	32 82821032	-103 7478782	3632936 896	617198 027	1.79

3002537891	MARBOB ENERGY CORP		32E	L	34	9/12/2006	17 0S	9600	MOE FEDERAL 007	O	Active	32 78829442	-103.759592	3628498 588	616153 468		1 79
3002500781	CONOCO INC	4/9/2001	32E	P	30		17 0S		MCA UNIT 215	I	Plugged	32.80017078	-103.7993717	3629772 299	612413.266		1 79
3002538993	COG OPERATING LLC		32E	J	19	12/1/2008	17 0S	6805	GC FEDERAL 010	O	Active	32 8173054	-103 8022243	3631668 93	612124.644		1.79
3002523743	CONOCOPHILLIPS COMPANY		32E	I	19	4/24/1971	17 0S	4075	MCA UNIT 283	O	Active	32 81991505	-103 8014759	3631959 048	612191 425		1 80
3002527857	LYNX PETROLEUM CONSULTANTS INC		32E	E	15	9/23/1982	17 0S	4167	LYNX FEDERAL 002	G	Active	32 8364006	-103 7607537	3633830 727	615982 157		1.80
3002524271	CONOCOPHILLIPS COMPANY		32E	M	23		17 0S	4200	MCA UNIT 330	O	Active	32 81632836	-103 7414677	3631626 694	617813 773		1 80
3002527291	MACK ENERGY CORP	4/17/1995	32E	D	32		17 0S	4168	HOVER 002	O	Plugged	32 79562966	-103 7961284	3629272 292	612722 681		1 80
3002539314	CONOCOPHILLIPS COMPANY		32E	F	26	5/15/2009	17 0S	4454	MCA UNIT 457	O	Active	32 80753263	-103 741339	3630651 674	617837 432		1 81
3002500596	CONOCOPHILLIPS COMPANY		32E	M	17		17 0S	5405	MCA UNIT 267	O	Active	32.82918237	-103.7957496	3632992 583	612715 778		1.82
3002524725	COG OPERATING LLC		32E	A	34		17 0S	4475	PEARSALL BX 003	O	Active	32 78919402	-103.7563566	3628601 881	616455 282		1.82
3002538164	COG OPERATING LLC		32E	A	19	6/1/2007	17 0S	6720	BC FEDERAL 013	O	Active	32 82646288	-103 7983294	3632688 332	612477 727		1 82
3002500813	COG OPERATING LLC		32E	N	33		17 0S	3698	PEARSALL AX 003	O	Active	32 78560523	-103 773536	3628185 22	614851 106		1 83
3002535652	COG OPERATING LLC		32E	H	19	9/16/2001	17 0S	7562	BC FEDERAL 006	O	Active	32 82298896	-103 8006464	3632300 724	612265 211		1.83
3002500560	A H HOVER	1/2/1900	32E	P	15	1/2/1900	17 0S	Not Reported	WILLIAMS 001	O	Plugged	32 82911735	-103 7478802	3633037 454	617196 648		1 83
3002528679	LYNX PETROLEUM CONSULTANTS INC		32E	F	15	4/18/1984	17 0S	4250	LYNX FEDERAL 005	O	Active	32 83548843	-103 7570888	3633733 626	616326 371		1 83
3002500810	KEWANEE OIL CO	1/2/1900	32E	O	33	1/2/1900	17 0S	Not Reported	PEARSALL A 016	O	Plugged	32 78559552	-103.7692983	3628188.753	615247 979		1 83
3002500561	LYNX PETROLEUM CONSULTANTS INC		32E	J	15	11/12/1961	17 0S		4202 LYNX FEDERAL 008	O	Active	32 83275236	-103 7522062	3633435 67	616786 955		1 83
3002524546	CONOCO INC	10/6/1995	32E	L	26	10/13/1973	17 0S	4350	MCA UNIT 350		Plugged	32 80543263	-103 7414492	3630418 729	617829 886		1 84
3002508030	CONOCOPHILLIPS COMPANY		32E	A	19		17 0S	4030	MCA UNIT 021	O	Active	32.82555726	-103 7994074	3632586 781	612377 959		1 85
3002500769	CONOCOPHILLIPS COMPANY	2/22/2005	32E	B	30		17 0S	4010	MCA UNIT 107	I	Plugged	32 81105532	-103 8037025	3630974 436	611994 101		1.85
3002524009	CONOCOPHILLIPS COMPANY		32E	I	30		17 0S	4175	MCA UNIT 304	O	Active	32 80205785	-103 8014507	3629979 304	612216 229		1 85
3002520280	CONOCO INC	1/2/1900	32E	K	17	1/2/1900	17 0S	Not Reported	MITCHELL B 019	O	Plugged	32 83371685	-103 7907847	3633500 616	613174 759		1.85
3002500707	CONOCO INC	4/5/2001	32E	M	26		17 0S		MCA UNIT 202	I	Plugged	32 80006356	-103.7435148	3629821.172	617643 557		1 85
3002508043	CONOCO INC	9/26/1995	32E	O	19	11/12/1941	17 0S	3695	MCA UNIT 101	O	Plugged	32 81468348	-103 8037086	3631376 672	611988 978		1.85
3002500812	CONOCO INC	1/2/1900	32E	M	33	1/2/1900	17 0S	Not Reported	PEARSALL AX 002	O	Plugged	32.78561513	-103.7778519	3628181 64	614446 909		1 85
3002538741	COG OPERATING LLC		32E	A	19	8/17/2009	17 0S	7040	BC FEDERAL 022	O	Active	32 82465164	-103 8004854	3632485 232	612278 19		1 87
3002500770	CONOCOPHILLIPS COMPANY	12/22/2003	32E	G	30		17 0S		MCA UNIT 160	O	Plugged	32 80742716	-103 8036977	3630572 199	611999 102		1 87
3002535813	COG OPERATING LLC		32E	G	19	1/26/2004	17 0S	6620	BC FEDERAL 007	O	Active	32.82075142	-103 8026382	3632050 541	612081 568		1 88
3002500594	CONOCO INC	1/2/1900	32E	G	17	1/2/1900	17 0S	Not Reported	MITCHELL B 003	O	Plugged	32 83643419	-103 7865742	3633806 399	613565 4		1.88
3002527776	CHEVRON U S A INC	1/2/1900	32E	E	32	1/2/1900	17 0S	Not Reported	LEA LL STATE 002	O	Plugged	32.79290707	-103 7950459	3628971.602	612827 485		1.88
3002539318	CONOCOPHILLIPS COMPANY		32E	K	26	3/16/2009	17 0S	4480	MCA UNIT 462	O	Active	32 80327472	-103 7413304	3630179 618	617843 857		1 88
3002524095	CONTINENTAL OIL	1/2/1900	32E	H	19	1/2/1900	17 0S	Not Reported	MCA UNIT 309	O	Plugged	32.82353977	-103 8014813	3632360 904	612186 363		1 89
3002508042	CONOCOPHILLIPS COMPANY	9/22/2004	32E	J	19	5/25/1942	17 0S	3995	MCA UNIT 059	I	Plugged	32 81831163	-103 803714	3631778 908	611983.921		1.89
3002500653	CONOCO INC	11/30/1999	32E	D	23		17 0S		MCA UNIT 031	I	Plugged	32 82548244	-103.7435562	3632639 263	617606 187		1 89
3002539110	COG OPERATING LLC		32E	O	19	6/9/2009	17 0S	7025	GC FEDERAL 014	O	Active	32 81489122	-103 8045004	3631398 865	611914 59		1 90
3002538362	MARBOB ENERGY CORP		32E	K	34	11/3/2007	17 0S	9663	MOE FEDERAL 005	O	Active	32 78828448	-103 7552761	3628502 233	616557 654		1 91
3002500706	CONOCO INC	8/2/1996	32E	C	26	4/18/1940	17 0S	4028	SEARS A 002	O	Plugged	32 81095077	-103.7392202	3631032 999	618031 291		1 91
3002530115	CONOCOPHILLIPS COMPANY		32E	K	23		17 0S	4255	MCA UNIT 377	O	Active	32 81983101	-103.7404747	3632016.133	617902 109		1 91
3002500644	CONOCOPHILLIPS COMPANY	9/8/2004	32E	N	23		17 0S	4065	MCA UNIT 082	I	Plugged	32 81457892	-103 7392251	3631435 239	618026.035		1.91
3002521710	COG OPERATING LLC		32E	P	32		17 0S	4182	PEARSALL QUEEN SAND UNIT 003	O	Active	32 78562502	-103 7821678	3628178 076	614042 712		1 92
3002500710	CONOCOPHILLIPS COMPANY	4/27/2006	32E	N	26		17 0S		MCA UNIT 201	O	Plugged	32 80180393	-103.7411965	3630016 705	617858 335		1.93
3002539324	CONOCOPHILLIPS COMPANY		32E	K	26	3/21/2009	17 0S	4480	MCA UNIT 465	O	Active	32 80547024	-103 7397816	3630424 758	617985.973		1 93
3002500583	CONOCO INC	1/2/1900	32E	C	16	1/2/1900	17 0S	Not Reported	MCA UNIT 004	O	Plugged	32 84004982	-103 7736255	3634221 25	614772 701		1.93
3002500776	CONOCO INC	1/2/1900	32E	J	30	1/2/1900	17 0S	Not Reported	MCA UNIT 166	I	Plugged	32.80380772	-103.8036929	3630170 929	612004.092		1.93
3002500572	MACK ENERGY CORP	5/27/1998	32E	B	16		17 0S	4196	LEAKER CC 006	I	Plugged	32.84004274	-103 7693939	3634225.071	615168 758		1.93
3002539468	COG OPERATING LLC		32E	G	19	11/27/2009	17 0S	6920	BC FEDERAL 050	O	Active	32 82301077	-103 8026416	3632301 025	612078 412		1 94
3002500712	CONOCO INC	5/26/1999	32E	E	26	6/18/1941	17 0S	4075	MCA UNIT 143	I	Plugged	32.80732261	-103 739213	3630630 761	618036.762		1.94
3002500816	ANDERSON, PLANK, AR	1/2/1900	32E	J	34	1/2/1900	17 0S	Not Reported	VIRGINIA SHAW 002	O	Plugged	32 79008891	-103 7510456	3628706 955	616951 468		1.94
3002538974	CONOCOPHILLIPS COMPANY		32E	F	26	3/6/2009	17 0S	4417	MCA UNIT 401	O	Active	32 80910829	-103 738713	3630829 294	618081 214		1.95
3002530438	COG OPERATING LLC	10/4/2006	32E	A	31		17 0S	4200	BROWN FEDERAL 003	O	Plugged	32 79713578	-103.8004464	3629434 677	612316 454		1 95
3002500646	CONOCO INC	8/13/1996	32E	K	23	4/16/1941	17 0S	4150	MCA UNIT 077	O	Plugged	32 81820707	-103.7392297	3631837 48	618020.807		1.95
3002500565	MACK ENERGY CORP	6/29/2005	32E	I	15		17 0S	4105	LYNX C FEDERAL 002	O	Plugged	32 83183846	-103 7478862	3633339 132	617192 513		1.95
3002529272	LYNX PETROLEUM CONSULTANTS INC		32E	D	15	7/6/1985	17 0S	4150	LYNX FEDERAL 006	O	Active	32 8391232	-103 7618364	3634131 388	615877 282		1 95
3002536521	COG OPERATING LLC		32E	H	34	2/6/2004	17 0S	5312	PEARSALL BX 009	O	Active	32 79330849	-103 746737	3629068 674	617350 72		1 96
3002500582	CONOCO INC	1/25/1990	32E	D	16	1/25/1990	17 0S	3985	MCA UNIT 003	O	Plugged	32 84005695	-103 7779435	3634217 357	614368 558		1.96
3002500591	CONOCO INC	10/25/1989	32E	L	17	10/25/1989	17 0S	4336	MITCHELL B 007	O	Plugged	32 83281041	-103 7951012	3633395 506	612771 884		1 96
3002508038	CONOCOPHILLIPS COMPANY	12/7/2006	32E	G	19	5/30/1942	17 0S	3987	MCA UNIT 053	O	Plugged	32 82193469	-103.8037193	3632180.58	611978 878		1 97
3002539316	CONOCOPHILLIPS COMPANY		32E	N	26	4/21/2009	17 0S	4602	MCA UNIT 459	O	Active	32 80005885	-103 7413238	3629823 09	617848 719		1.97
3002500573	COG OPERATING LLC		32E	A	16		17 0S	4080	LEAKER CC STATE 008	O	Active	32 84003541	-103 7650759	3634228 974	615572 902		1 97
3002537023	FOREST OIL CORPORATION	4/13/2005	32E	E	32	3/25/2005	17 0S	5000	LEA LL STATE 004	O	Plugged	32 7920015	-103 7961237	3628870 055	612727 7		1 97
3002512762	CONOCOPHILLIPS COMPANY	3/21/2006	32E	C	30		17 0S	3975	MCA UNIT 106	I	Plugged	32.81273639	-103.8059011	3631158 484	611786.157		1 97
3002520425	FOREST OIL CORP	1/2/1900	32E	J	30	1/2/1900	17 0S	Not Reported	CARPER 001	O	Plugged	32.80471693	-103.8047733	3630270 586	611901.794		1 97
3002524057	CONOCOPHILLIPS COMPANY		32E	B	30		17 0S	4020	MCA UNIT 306	O	Active	32 80931414	-103 8057768	3630779 202	611802 08		1 97
3002500563	CHEVRON U S A INC	1/2/1900	32E	G	15	1/2/1900	17 0S	Not Reported	MAIJAMAR GRAYBURG UNIT 076	O	Plugged	32 83548155	-103 7522123	3633738 244	616782 81		1.98
3002508023	CONOCO INC	1/2/1900	32E	P	18	1/2/1900	17 0S	Not Reported	MITCHELL B 012	I	Plugged	32 8291854	-103 7994133	3632989.016	612372 837		1 98
3002535814	COG OPERATING LLC		32E	J	19	1/28/2002	17 0S	7085	GC FEDERAL 001	O	Active	32 81898784	-103 8051083	3631852 401	611852 545		1 98
3002520588	HARVEY E YATES CO	1/2/1900	32E	O	30	1/2/1900	17 0S	10128	SOUTH MAIJAMAR DEEP 001	O	Plugged	32 79927035	-103 802608	3629669 036	612111.367		1 99
3002523745	CONOCOPHILLIPS COMPANY		32E	J	19		17 0S	4060	MCA UNIT 285	O	Active	32 81657045	-103 8057883	3631583 673	611791.915		1.99
3002538620	COG OPERATING LLC		32E	B	16	4/2/2008	17 0S	7015	LEAKER CC STATE 011	O	Active	32.84095077	-103 7699837	3634325 099	615112 385		1 99
3002500709	CONOCOPHILLIPS COMPANY	1/13/2004	32E	K	26		17 0S		MCA UNIT 188	O	Plugged	32 8036824	-103.7392056	3630227 187	618042 267		1.99

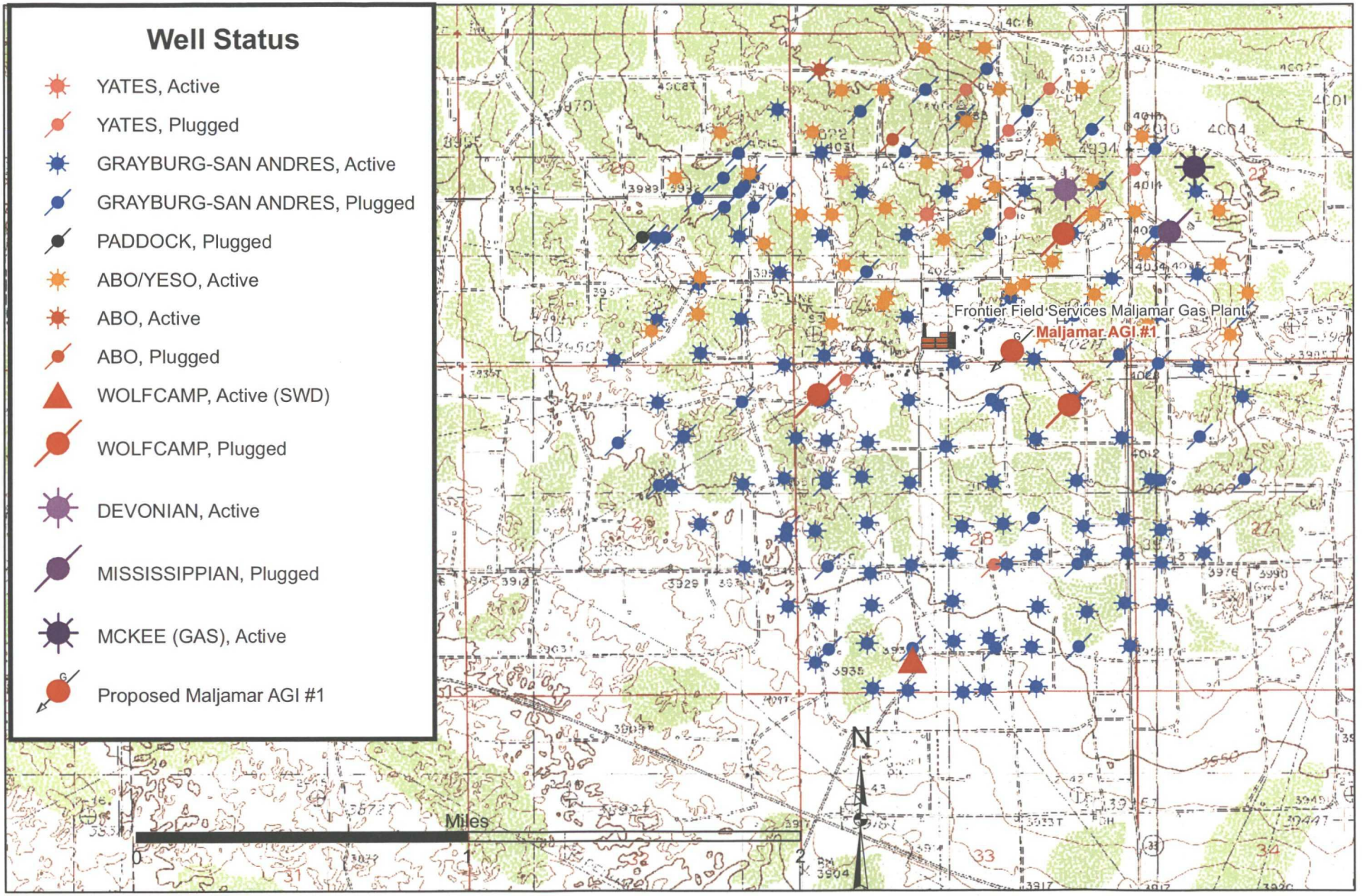


Figure C-2: Location and Status of Wells within One Mile of Proposed Maljamar AGI #1 Well

GEOLEX® INCORPORATED

FRONTIER field services, llc southern ute indian tribe

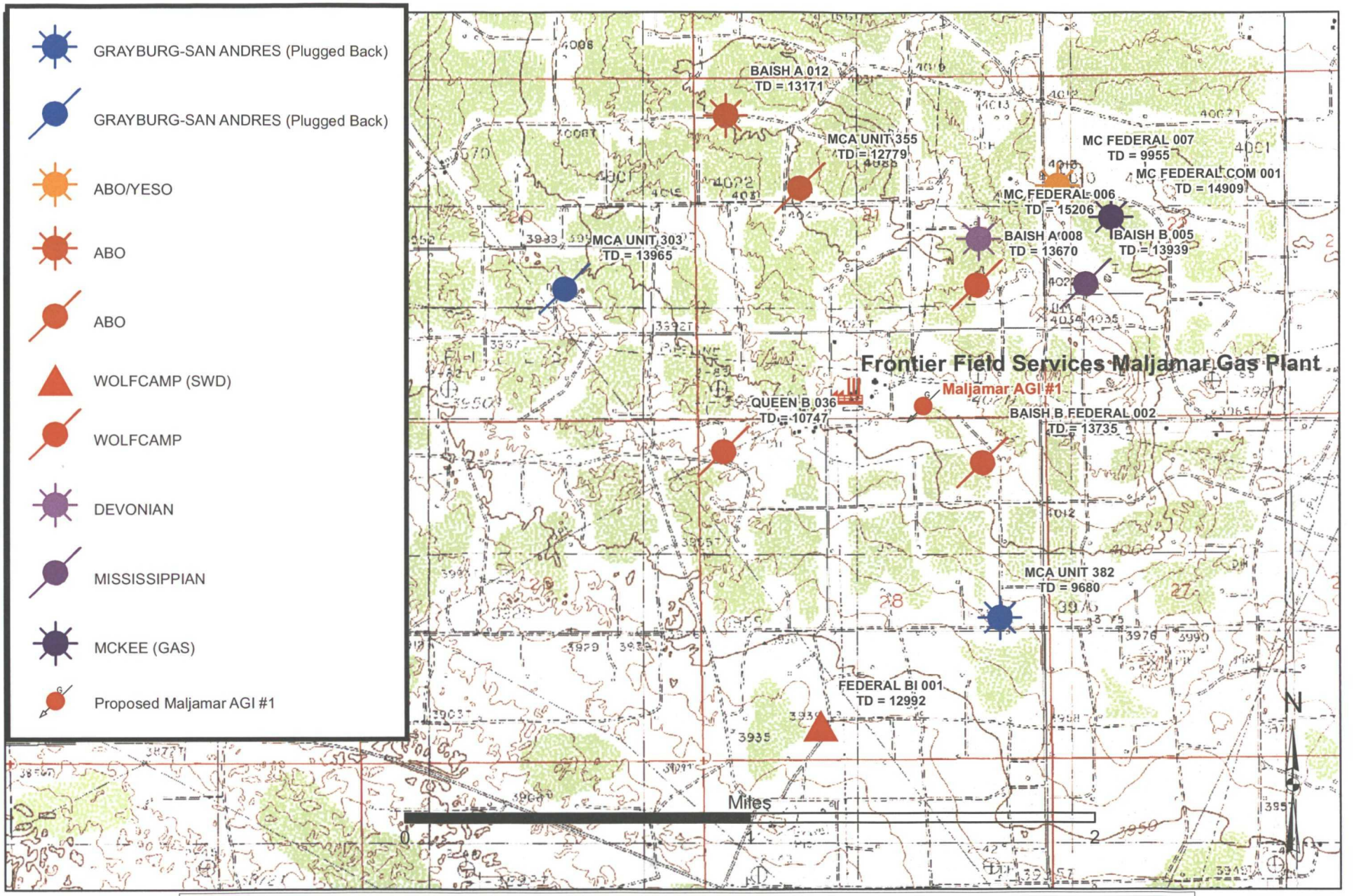
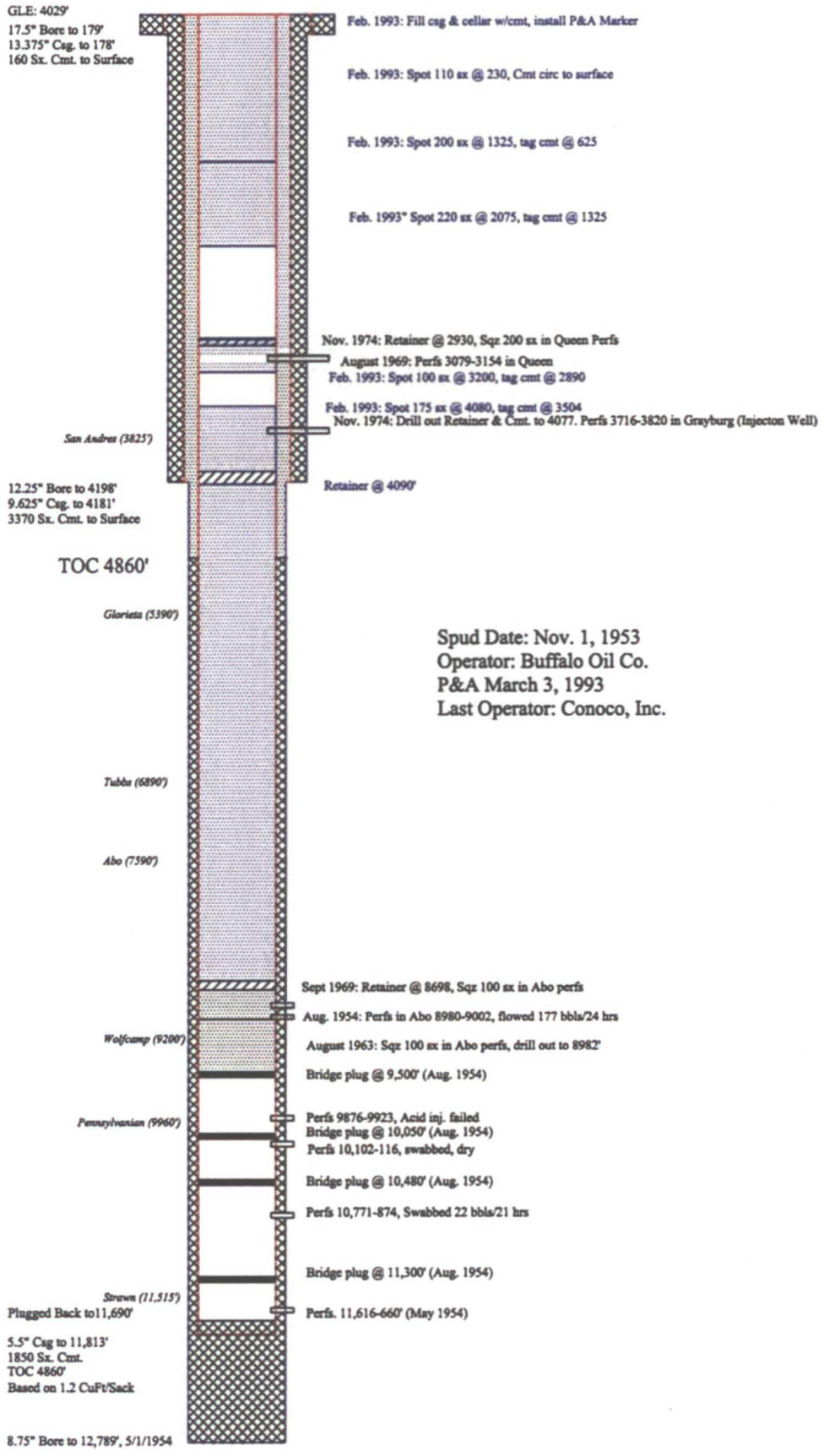


Figure C3: Location and Status of Deep (>9000') Wells within One Mile of Proposed Maljamar AGI #1 Well

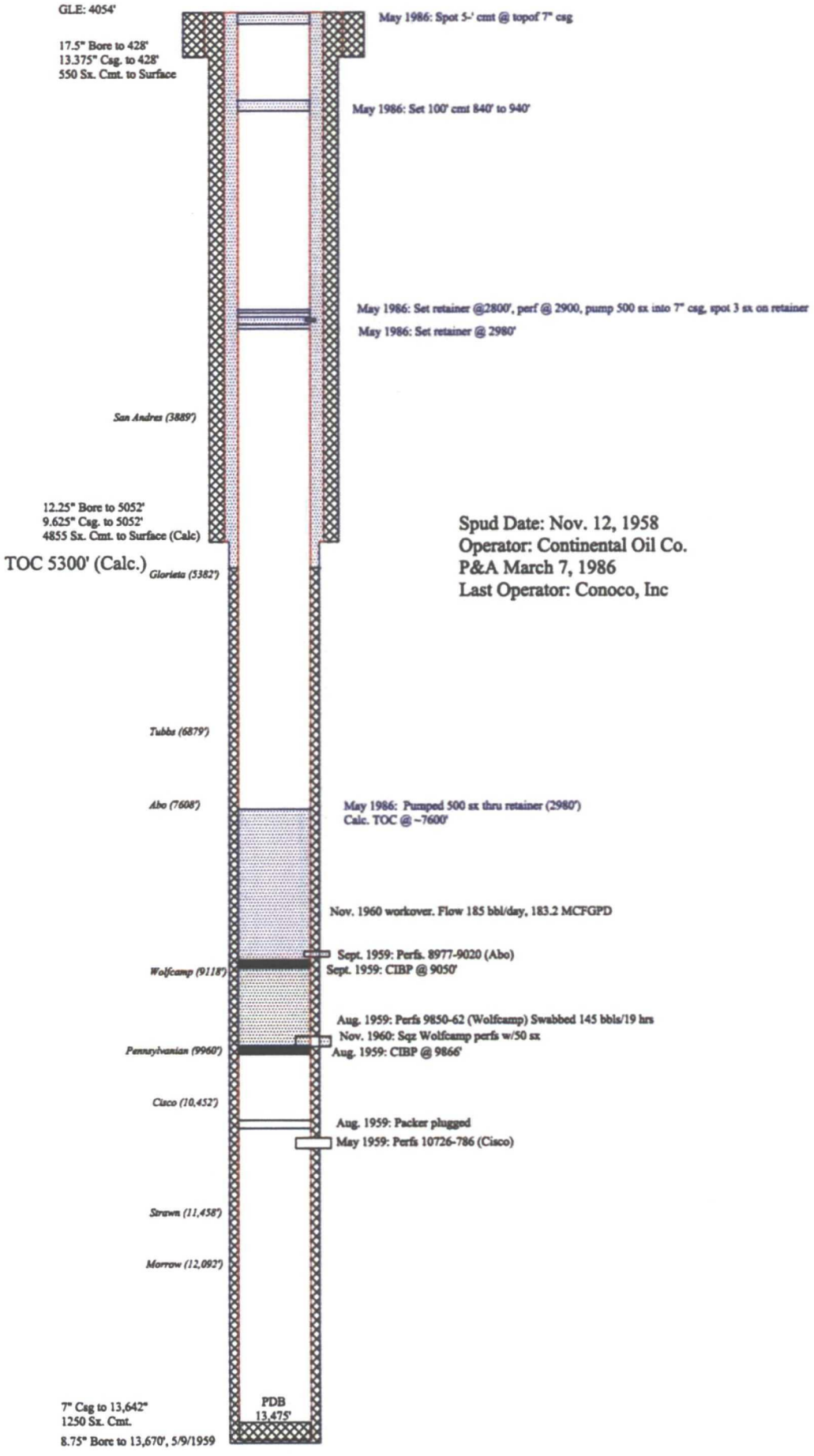
GEOLEX® INCORPORATED

FRONTIER field services, llc southern ute indian tribe

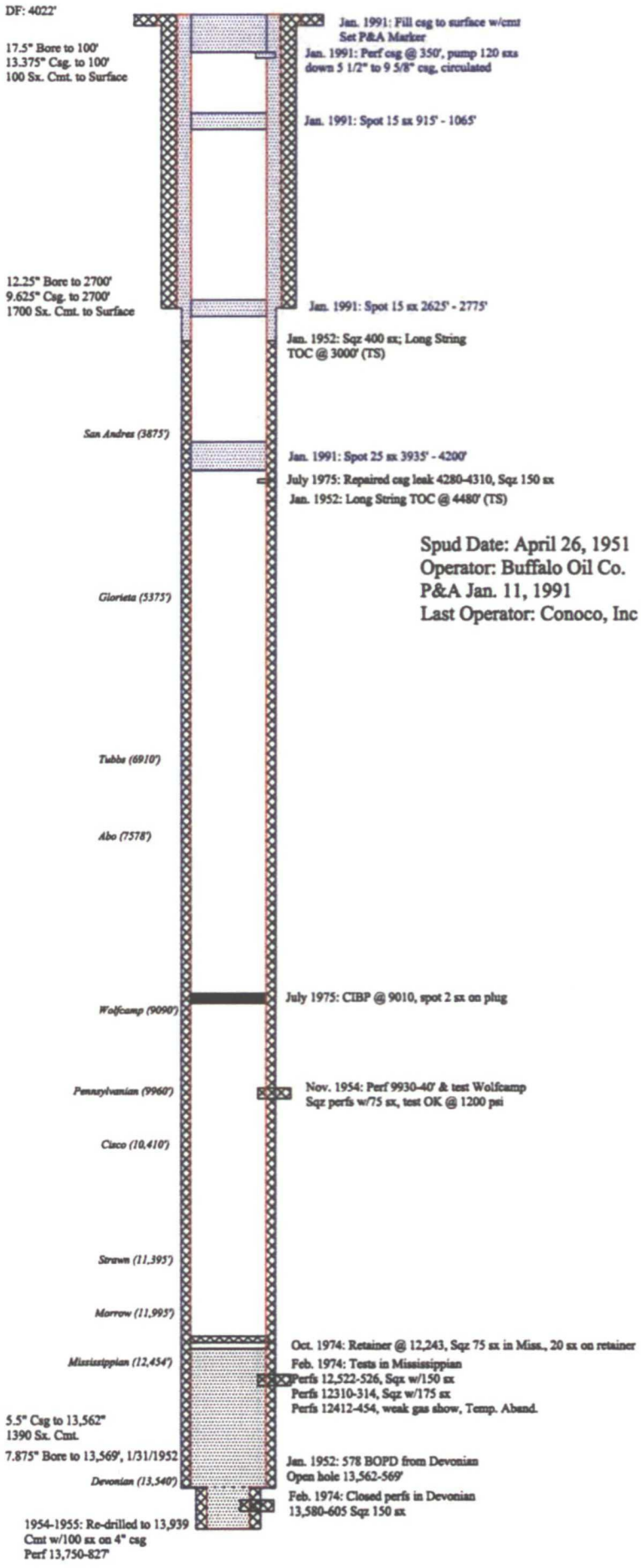
MCA Unit 355
API # 3002500614
1780' FNL 1780' FWL, Sec. 21, T17S R32E



BAISH A 008
API # 3002500622
1980' FSL 810' FEL, Sec. 21, T17S R32E

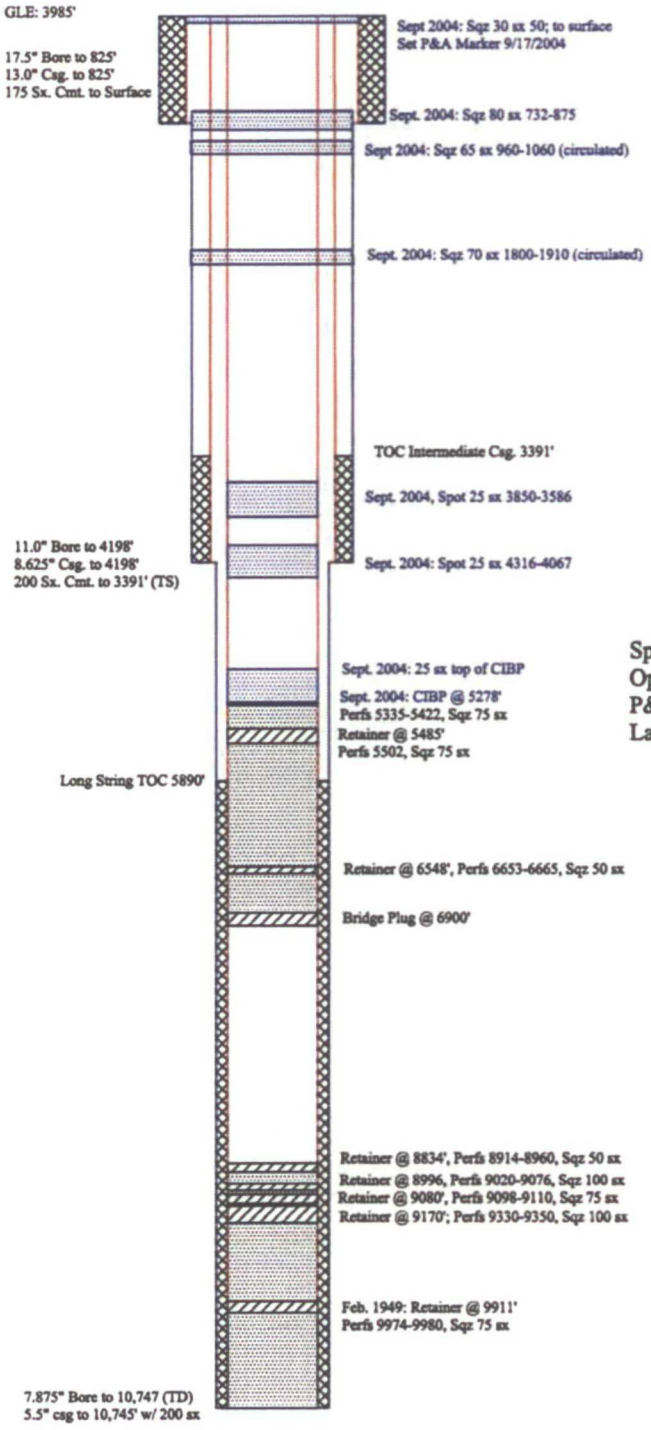


BAISH B 005
API # 3002500634
1980' FSL 860' FWL, Sec. 22, T17S R32E



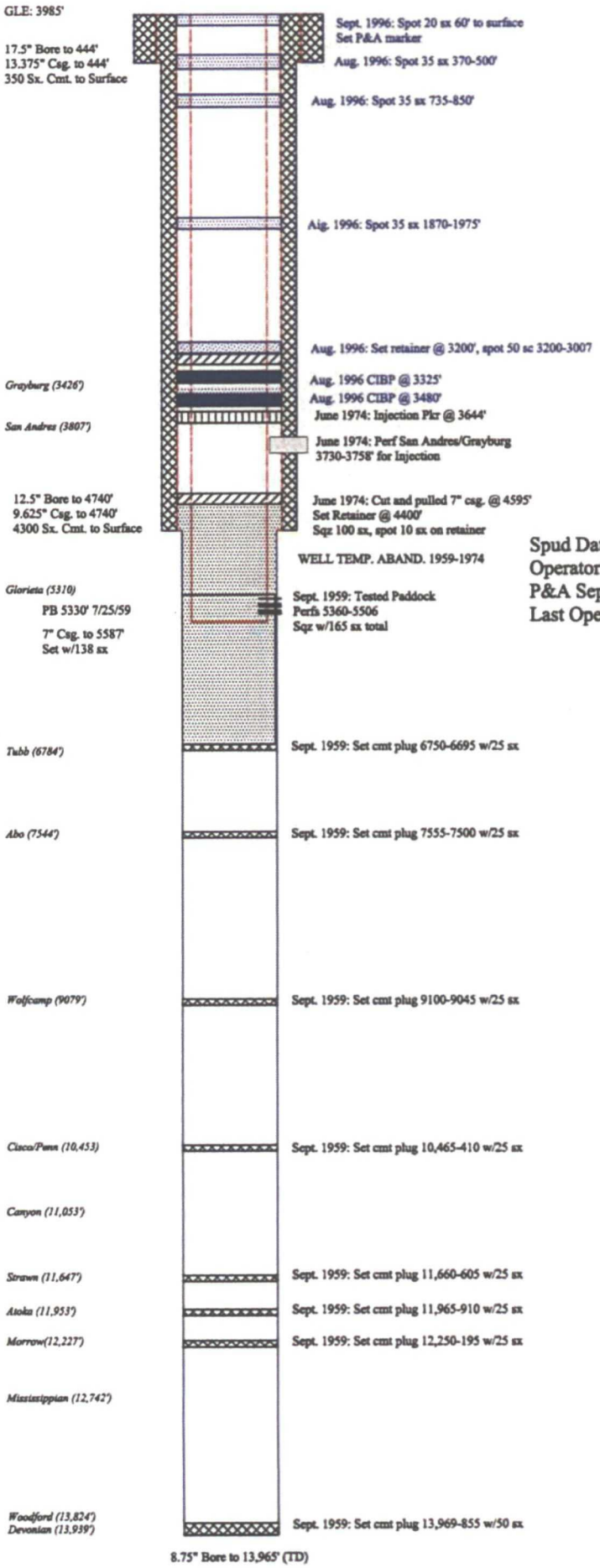
Spud Date: April 26, 1951
Operator: Buffalo Oil Co.
P&A Jan. 11, 1991
Last Operator: Conoco, Inc

QUEEN B 036
API # 3002500751
554' FNL 554' FWL, Sec. 28, T17S R32E



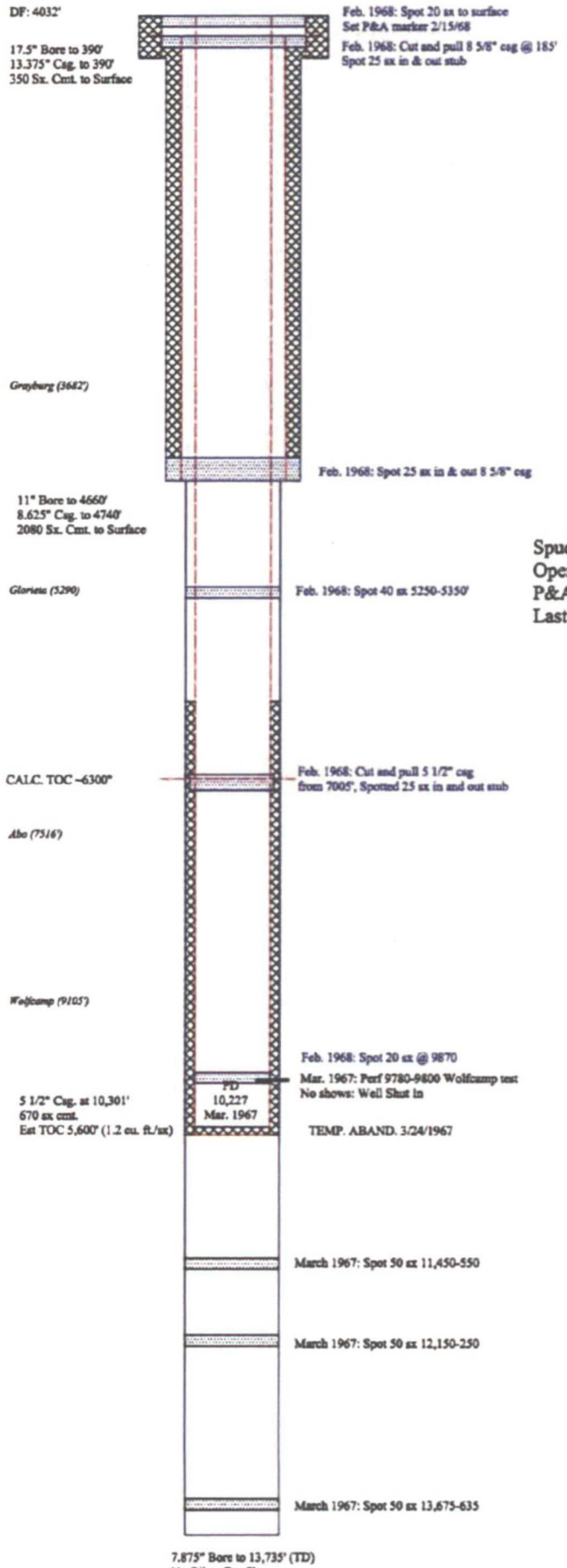
Spud Date: Sept. 20, 1948
Operator: Kewanee Oil Co.
P&A Sept. 17, 2004
Last Operator: ConocoPhillips Co.

MCA UNIT 303
API # 3002508053
1980' FSL 1830' FEL, Sec. 20, T17S R32E



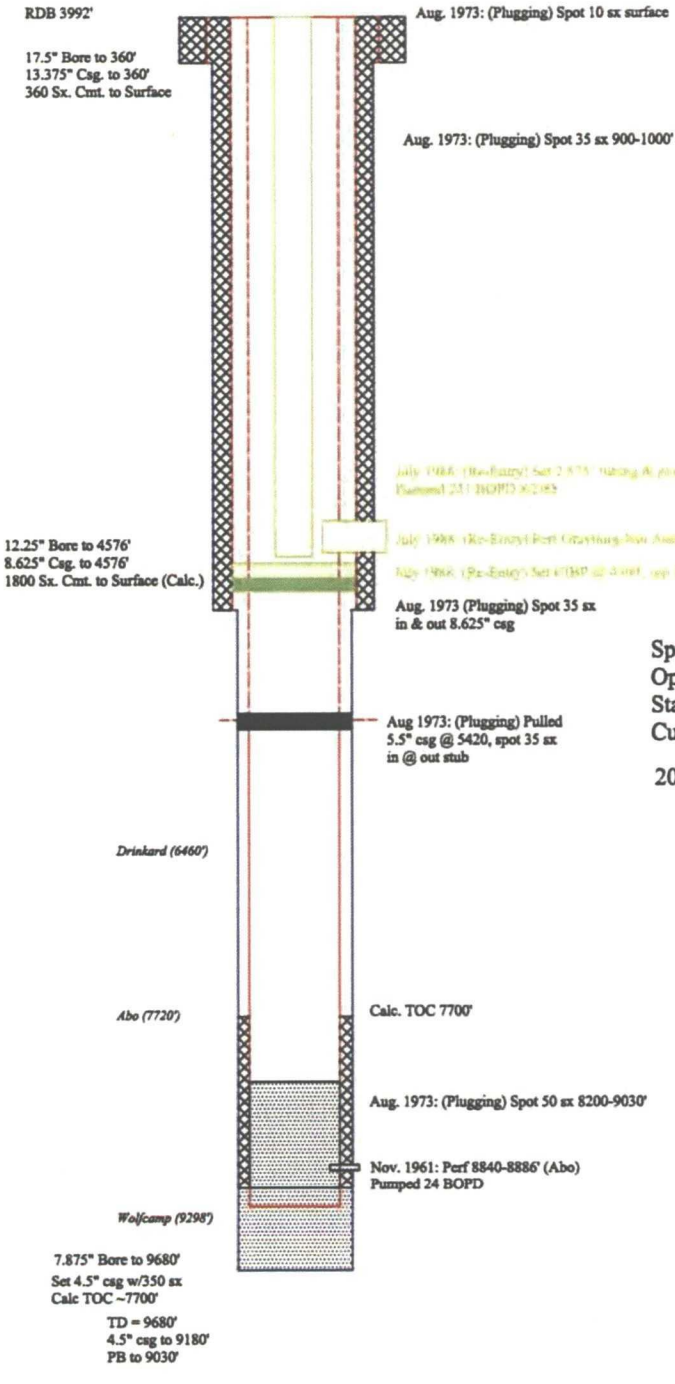
Spud Date: March 13, 1959
Operator: Continental Oil Co.
P&A Sept. 5, 1996
Last Operator: Conoco, Inc.

BAISH B FEDERAL 002
API # 3002521951
760' FNL 760' FEL, Sec. 28, T17S R32E



Spud Date: Dec. 20, 1966
Operator: Pan American Corp.
P&A Feb. 15, 1968
Last Operator: Pan American Corp.

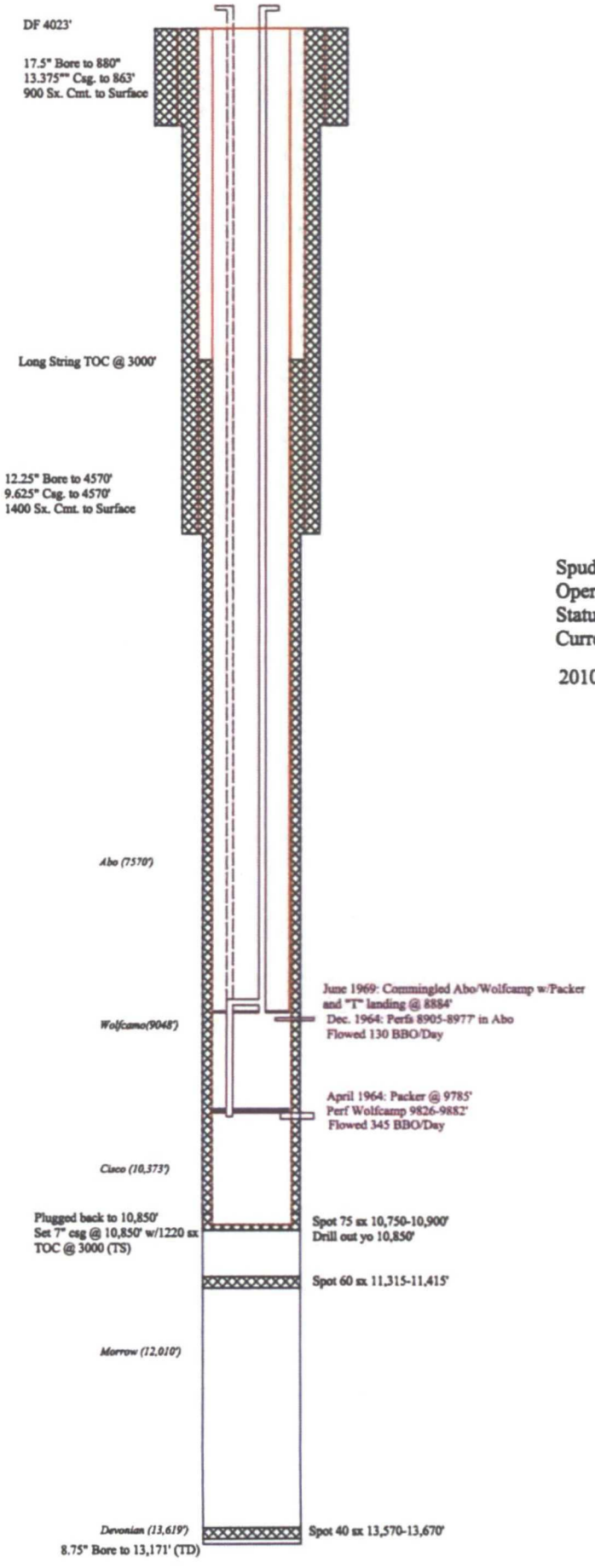
MCA UNIT 382
API # 3002500745
2120' FSL 519' FEL, Sec. 28, T17S R32E



Spud Date: Aug. 8, 1961
Operator: Pan American Petroleum Corp.
Status: Active
Current Operator: ConocoPhillips Co.

2010 Production: 1582 MMCFG, 1791 BBO

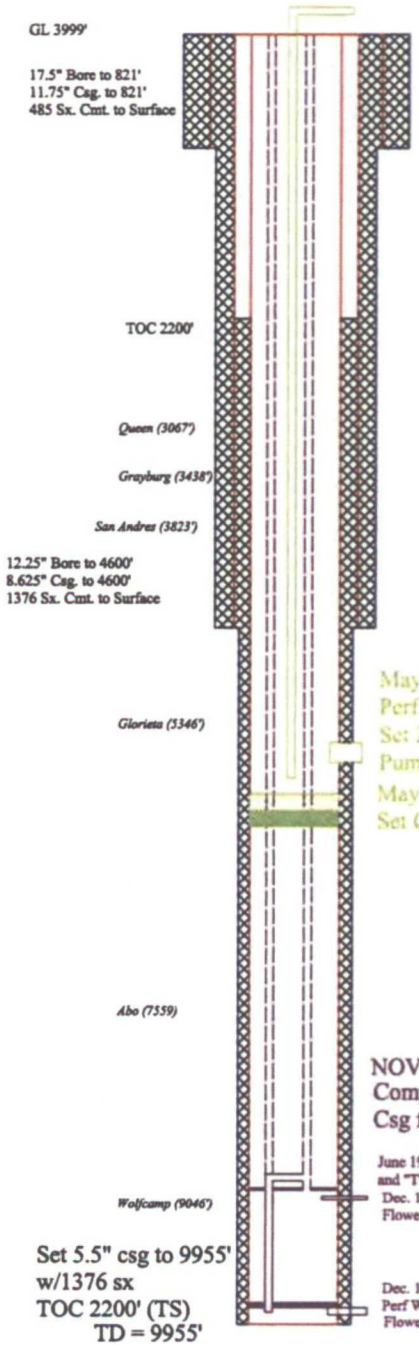
BAISH A 012
API # 3002520568
660' FNL 660' FEL, Sec. 21, T17S R32E



Spud Date: Nov. 22, 1963
Operator: Continental Oil Co.
Status: Active
Current Operator: COG Operating LLC

2010 Production: 4195 MMCFG, 1965 BBO

MC Federal 007 (Formerly BAISH A 013)
API # 3002520647
1780' FNL 460 FWL, Sec. 22, T17S R32E



Spud Date: Oct. 25, 1964
Operator: Continental Oil Co.
Status: Active
Current Operator: COG Operating LLC

2010 Production: 14865 MMCFG, 4443 BBO

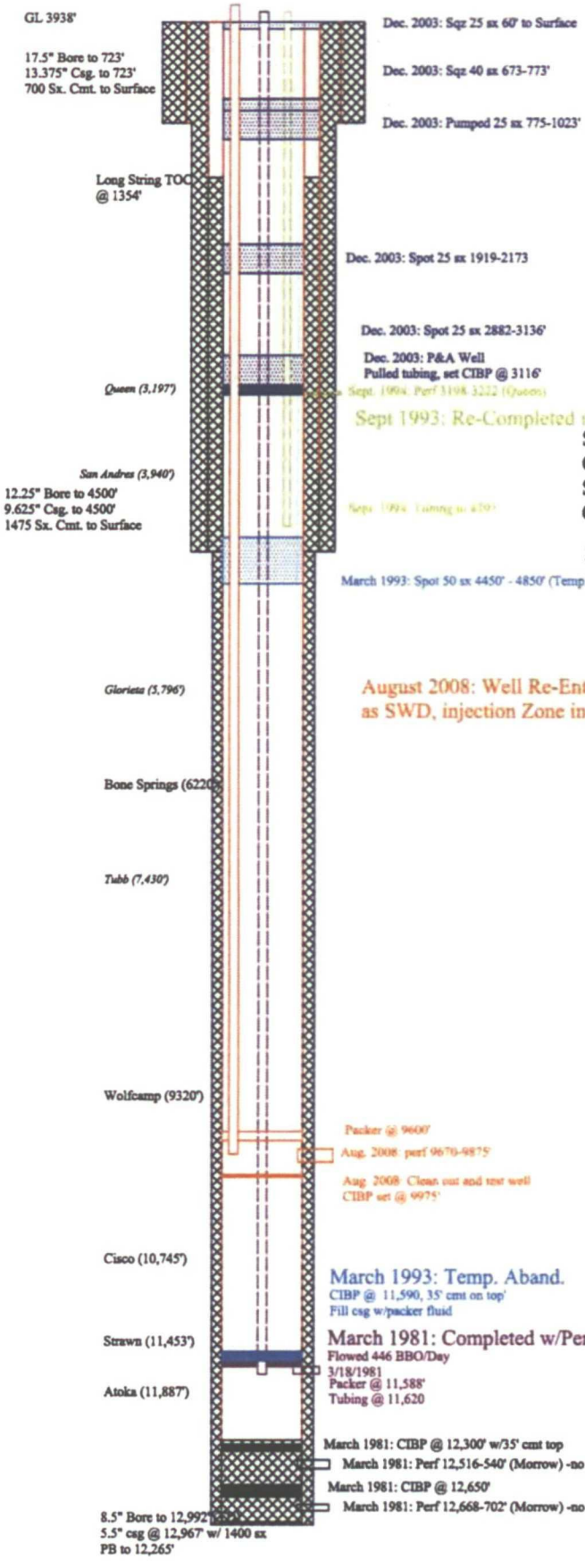
May 2002: Re-Entry
Perf Paddock 5448-5610'
Set 2.875" Tubing & pump to 5613'
Pumped 80 BBO/Day
May 2002: Re-Entry
Set CIBP @ 5980' w/35' cmt cap

NOV. 1992: WELL SHUT IN
Completion equip. removed, packer set @ ~8900'
Csg filled w/ packer fluid

June 1969: Commingled Abo/Wolfcamp w/Packer and "T" landing @ 8902'
Dec. 1964: Perfs 8918-8951' in Abo
Flowed 330 BBO/Day

Dec. 1964: Packer @ 9666'
Perf Wolfcamp 9797-9873'
Flowed 200 BBO/Day

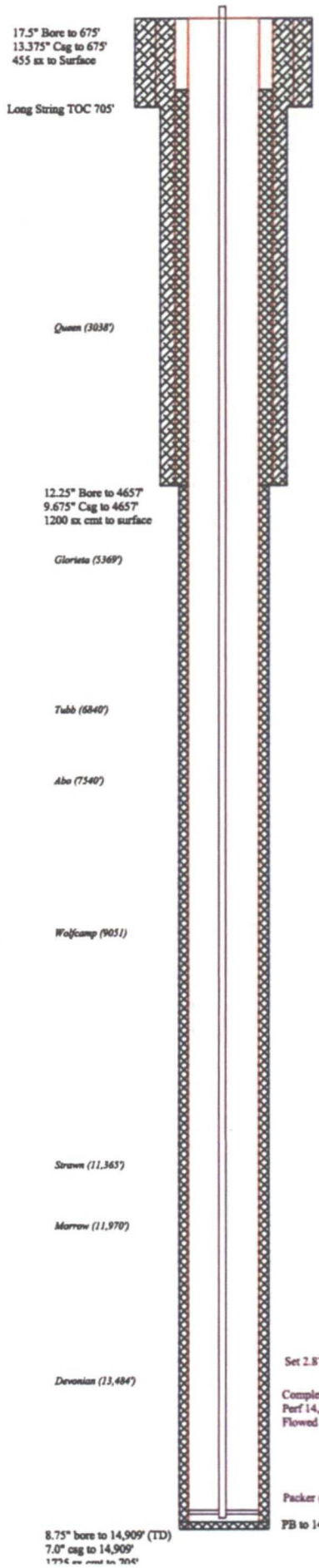
Federal BI 001
API # 3002527068
480' FSL 1980 FWL, Sec. 28, T17S R32E



Spud Date: Oct. 15, 1980
Operator: Amaco Production Co.
Status: Active/SWD
Current Operator: COG Operating LLC

2010 Injection: 1,424,890 BBLS (Avg. 3,904 BBLS/Day)

MC Federal 001
API # 3002534647
225' FNL, 1094' FWL, Sec. 22, T17S, R32E



Spud Date: June 19, 1999
Operator: Mack Energy Corp.
Status: Active
Current Operator: COG Operating LLC
2010 Production: 41,589 MMCFG, 596 BBO

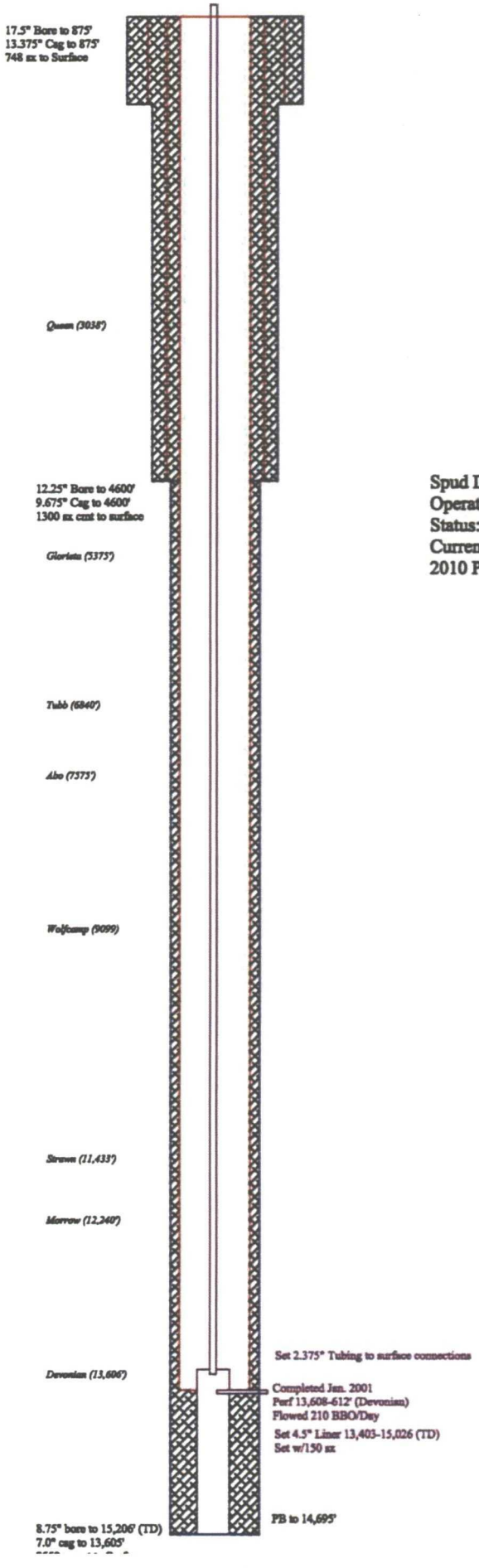
Set 2.875" Tubing to surface connections

Completed Sept. 1999
Perf 14,805-821' (McKee)
Flowed 1.3 MMCFG and 21 BBL Condensate/Day

Packer @ 14,726'

PB to 14,844'

MC Federal 006
API # 3002535252
2600 FNL,760' FEL, Sec. 21, T17S, R32E



Spud Date: Nov. 17, 2000
Operator: Mack Energy Corp.
Status: Active
Current Operator: COG Operating LLC
2010 Production: 3480 BBO

CD PLACEHOLDER

APPENDIX D

Identification of Operators, Surface Owners, Lessees, 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 PROPOSED MALJAMAR AGI #1

Conoco Phillips Company
3401 E. 30th Street
Farmington, NM 87402

Endurance Resources, LLC
15455 Dallas Parkway
Suite 600
Addison, TX 75234

TABLE D-2

SURFACE OWNERS ON WITHIN ONE MILE RADIUS OF PROPOSED MALJAMAR AGI #1

Section 15, Southwest Quarter (SW/4), 17 South, Range 32 East

Department of the Interior
Bureau of Land Management
301 Dinosaur Trail
Santa Fe, NM 87508

Surface Lessee:

LaDoyce & Olane Caswell
1702 Gillham
Brownfield, TX 79316

Section 16, South Half (S/2), 17 South, Range 32 East

Department of the Interior
Bureau of Land Management
301 Dinosaur Trail
Santa Fe, NM 87508

Surface Lessee:

LaDoyce & Olane Caswell
1702 Gillham
Brownfield, TX 79316

Section 17, South Half (S/2), 17 South, Range 32 East

Department of the Interior
Bureau of Land Management
301 Dinosaur Trail
Santa Fe, NM 87508

Surface Lessee:

LaDoyce & Olane Caswell
1702 Gillham
Brownfield, TX 79316

Section 20, ALL, 17 South, Range 32 East

Department of the Interior
Bureau of Land Management
301 Dinosaur Trail
Santa Fe, NM 87508

Surface Lessee:

LaDoyce & Olane Caswell
1702 Gillham
Brownfield, TX 79316

Section 21, North Half Northwest Quarter Northwest Quarter Southeast Quarter, (N/2 NW/4 NW/4 SE/4)

Mid America Pipeline Company LLC
Tax Department
P. O. Box 4018
Houston, TX 77210

Section 21, 19.08 acre tract in South part of Section 21 & North part of Section 28

Frontier Field Services LLC
1900 Dalrock Rd.
Rowlett, TX 75088

Section 21, ALL less & except the above 2 tracts

Department of the Interior
Bureau of Land Management
301 Dinosaur Trail
Santa Fe, NM 87508

Surface Lessee:

LaDoyce & Olane Caswell
1702 Gillham
Brownfield, TX 79316

Section 22, ALL, 17 South, Range 32 East

Department of the Interior
Bureau of Land Management
301 Dinosaur Trail
Santa Fe, NM 87508

Surface Lessee:

LaDoyce & Olane Caswell
1702 Gillham
Brownfield, TX 79316

Section 27, ALL, 17 South, Range 32 East

Department of the Interior
Bureau of Land Management
301 Dinosaur Trail
Santa Fe, NM 87508

Surface Lessee:

LaDoyce & Olane Caswell
1702 Gillham
Brownfield, TX 79316

Section 28, ALL, 17 South, Range 32 East

Department of the Interior
Bureau of Land Management
301 Dinosaur Trail
Santa Fe, NM 87508

Surface Lessee:

LaDoyce & Olane Caswell
1702 Gillham
Brownfield, TX 79316

Section 29, ALL, 17 South, Range 32 East

Department of the Interior
Bureau of Land Management
301 Dinosaur Trail
Santa Fe, NM 87508

Surface Lessee:

LaDoyce & Olane Caswell
1702 Gillham
Brownfield, TX 79316

Section 32, North Half (N/2), 17 South, Range 32 East

State of New Mexico
Commissioner of Public Land
310 Old Santa Fe Trail
Santa Fe, NM 87501-2708

Surface Lessee:

Williams & Son Cattle Company
P. O. Box 30
Maljamar, NM 88264

Section 33, North Half (N/2), 17 South, Range 32 East

Department of the Interior
Bureau of Land Management
301 Dinosaur Trail
Santa Fe, NM 87508

Surface Lessee:

LaDoyce & Olane Caswell
1702 Gillham
Brownfield, TX 79316

Section 34, North Half (N/2), 17 South, Range 32 East

Department of the Interior
Bureau of Land Management
301 Dinosaur Trail
Santa Fe, NM 87508

Surface Lessee:

LaDoyce & Olane Caswell
1702 Gillham
Brownfield, TX 79316

TABLE D-3

LEASE HOLDERS WITHIN ONE MILE RADIUS OF PROPOSED MALJAMAR AGI #1

V-F Petroleum Inc.
P. O. Box 1889
Midland, TX 79702

Section 15, Southwest Quarter (SW/4), 17 South, Range 32 East

Conoco Phillips Company
3401 E. 30th Street
Farmington, NM 87402

Section 15, Southwest Quarter (SW/4), 17 South, Range 32 East
Section 16, South Half (S/2), 17 South, Range 32 East
Section 17, Southeast Quarter (SE/4), 17 South, Range 32 East
Section 20, (ALL), 17 South, Range 32 East
Section 21, (ALL), 17 South, Range 32 East
Section 22, West Half (W/2), 17 South, Range 32 East
Section 27, ALL, 17 South, Range 32 East
Section 28, ALL, 17 South, Range 32 East
Section 29, ALL, 17 South, Range 32 East
Section 32, North Half (N/2), 17 South, Range 32 East
Section 33, North Half (N/2), 17 South, Range 32 East
Section 34, North Half (N/2), 17 South, Range 32 East

Cimerax Energy Company of Colorado
600 N. Marienfeld
Suite 600
Midland, TX 79701

Section 16, South Half (S/2), 17 South, Range 32 East;

COG Operating, LLC
550 W. Texas
Suite 1300
Midland, TX 79701

Section 16, South Half (S/2), 17 South, Range 32 East
Section 17, Southeast Quarter (SE/4), 17 South, Range 32 East
Section 20, (ALL), 17 South, Range 32 East
Section 21, (ALL), 17 South, Range 32 East
Section 22, West Half (W/2), 17 South, Range 32 East
Section 28, ALL, 17 South, Range 32 East
Section 29, ALL, 17 South, Range 32 East
Section 32, North Half (N/2), 17 South, Range 32 East
Section 33, North Half (N/2), 17 South, Range 32 East
Section 34, North Half (N/2), 17 South, Range 32 East

Endurance Resources, LLC
15455 Dallas Parkway
Suite 600
Addison, TX 75234

Section 32, North Half (N/2), 17 South, Range 32 East

Lynx Petroleum Consultants, Inc.
P. O. Box 1708
Hobbs, NM 88241

Section 15, Southwest Quarter (SW/4), 17 South, Range 32 East

TABLE D-3

LEASE HOLDERS WITHIN ONE MILE RADIUS OF PROPOSED MALJAMAR AGI #1

V-F Petroleum Inc.
P. O. Box 1889
Midland, TX 79702

Section 15, Southwest Quarter (SW/4), 17 South, Range 32 East

Conoco Phillips Company
3401 E. 30th Street
Farmington, NM 87402

Section 15, Southwest Quarter (SW/4), 17 South, Range 32 East
Section 16, South Half (S/2), 17 South, Range 32 East
Section 17, Southeast Quarter (SE/4), 17 South, Range 32 East
Section 20, (ALL), 17 South, Range 32 East
Section 21, (ALL), 17 South, Range 32 East
Section 22, West Half (W/2), 17 South, Range 32 East
Section 27, ALL, 17 South, Range 32 East
Section 28, ALL, 17 South, Range 32 East
Section 29, ALL, 17 South, Range 32 East
Section 32, North Half (N/2), 17 South, Range 32 East
Section 33, North Half (N/2), 17 South, Range 32 East
Section 34, North Half (N/2), 17 South, Range 32 East

Cimerax Energy Company of Colorado
600 N. Marienfeld
Suite 600
Midland, TX 79701

Section 16, South Half (S/2), 17 South, Range 32 East;

COG Operating, LLC
550 W. Texas
Suite 1300
Midland, TX 79701

Section 16, South Half (S/2), 17 South, Range 32 East
Section 17, Southeast Quarter (SE/4), 17 South, Range 32 East
Section 20, (ALL), 17 South, Range 32 East
Section 21, (ALL), 17 South, Range 32 East
Section 22, West Half (W/2), 17 South, Range 32 East
Section 28, ALL, 17 South, Range 32 East
Section 29, ALL, 17 South, Range 32 East
Section 32, North Half (N/2), 17 South, Range 32 East
Section 33, North Half (N/2), 17 South, Range 32 East
Section 34, North Half (N/2), 17 South, Range 32 East

Endurance Resources, LLC
15455 Dallas Parkway
Suite 600
Addison, TX 75234

Section 32, North Half (N/2), 17 South, Range 32 East

Lynx Petroleum Consultants, Inc.
P. O. Box 1708
Hobbs, NM 88241

Section 15, Southwest Quarter (SW/4), 17 South, Range 32 East

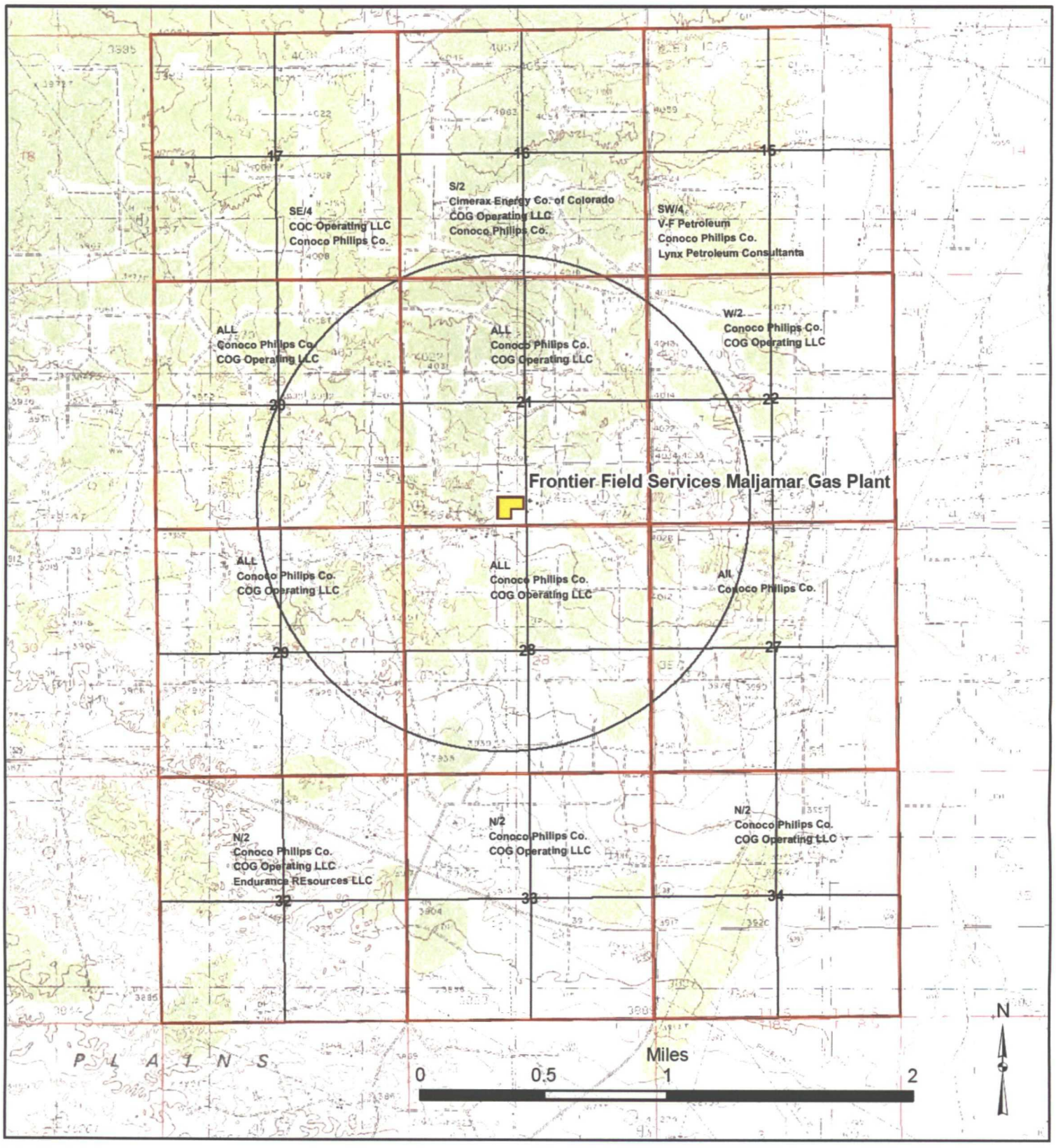


Figure D-1:
Lease owners within one mile of Proposed Maljamar AGI #1 Well

GEOLEX®
INCORPORATED

FRONTIER
field services, llc

TABLE D-4

BUSINESSES WITHIN ONE MILE RADIUS OF PROPOSED MALJAMAR AGI #1

Gas Processing Plant
Frontier Field Services, LLC
1900 Dalrock
Rowlett, TX 75088

Compressor Station (unmanned)
Mid America Pipeline Company, LLC
Tax Department
P.O. Box 4018
Houston, TX 77210

Conoco Philips Warehouse (unmanned)
Conoco Phillips Company
3401 E 30th Street
Farmington, NM 87402

May 15, 2011

Generic Notified Party
Mailing Address
City, State Zip Code

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RE: Frontier Field Services, LLC Proposed Maljamar AGI #1

This letter is to advise you that Frontier Field Services, LLC ("Frontier") filed the enclosed application on May 15, 2011 with the New Mexico Oil Conservation Division ("NMOCD" or "the Division") seeking authorization to drill an Acid Gas Injection (AGI) well at the Frontier Gas Processing Plant near Maljamar, New Mexico. The proposed well will be located 130 feet from the South line and 1813 feet from the East line of Section 21, Township 17 South, Range 32 East, in Lea County. Frontier plans to inject up to 2MMCFD of acid gas from the Plant at a maximum pressure of 2973 psi into this well into the lower Wolfcamp Formation and possibly into the lower Leonard Formation, approximately 9300 to 10000 feet below the surface. The proposed well will serve as the disposal well for acid gas currently being flared at the Frontier Processing Plant.

This application has been set for hearing before a Division Examiner at 8am on June 23, 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 Frontier'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 one week prior to the hearing date. This statement must be served on counsel for Frontier 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.

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.

Sincerely,
Geolex, Inc.

Alberto A. Gutiérrez, C.P.G.
President
Consultant to Frontier Field Services LLC

Enclosure
AAG/lh
C:\ Projects\10-014\Reports\C-108\Notices\Final Frontier Notice Letter.docx

FRONTIER FIELD SERVIVICES, LLC
DRAFT PUBLIC NOTICE FOR HEARING

Case No. : Application of Frontier Field Services, LLC for authority to inject, Lea County, New Mexico. Frontier Field Services, LLC requests an order authorizing it to inject acid gas and carbon dioxide (CO_2) from the Maljamar Processing Plant into its proposed Maljamar AGI#1 well. The well will be located in Section 21, Township 17 South, Range 32 East, NMPM, in Lea County, New Mexico. Frontier Field Services seeks approval to drill and complete a well for injection of acid gas and CO_2 into the lower Leonard and Wolfcamp formations in injection intervals approximately from 9300 feet to 10000 feet, and approval of a maximum injection pressure of 2973 psi and a maximum daily injection rate of 2MMCFD. The proposed Maljamar AGI #1 will be located eight approximately three miles south of the town of Maljamar, New Mexico.