



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

12-15-92

BRUCE KING  
GOVERNOR

POST OFFICE BOX 1980  
HOBBS, NEW MEXICO 88241-1980  
(505) 393-6151

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC \_\_\_\_\_  
DHC \_\_\_\_\_  
NSL \_\_\_\_\_  
NSP \_\_\_\_\_  
SWD \_\_\_\_\_  
WFX ☒ \_\_\_\_\_  
PMX \_\_\_\_\_

Gentlemen:

I have examined the application for the:

Chevron USA Inc. Arrowhead AB Unit  
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton  
Supervisor, District 1

/ed

Arco #157-B #4-K 12-22-36 (20)  
Arco #157-B #10-B 12-22-36 (21)  
Chevron H.T. Mattern #2-K 7-22-37 (2)  
Oxy #1-N #2-K 2-22-36 (17)



**Chevron U.S.A. Production Company**  
P.O. Box 1150, Midland, TX 79702

December 8, 1992

Revised C-108 Locations  
Arrowhead Grayburg Unit  
Arrowhead Grayburg Oil Pool

New Mexico  
Energy Minerals & Natural Resources Dept.  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87504

Attn: Mr. David Catanach

Chevron U.S.A. respectfully requests approval to revise locations of four permitted injection wells in the Arrowhead Grayburg Unit. In two cases, the original application and approval were for new-drill injection well locations that we now desire to replace by conversion of existing wellbores. In the other two, the reverse is the case, the original application and approval were for conversions of existing wellbores to injection that we now desire to replace with newly drilled wells.

This request is similar to our application dated April 7, 1992 for the revision of two injection locations in the Arrowhead Grayburg Unit, which was approved under Administrative Order No. WFX-634, dated June 8, 1992. These wells could not be included with that request because the status of these wellbores was not known to us at that time.

Attached is a copy of our Application for Authorization to Inject (OCD Form C-108, dated February 7, 1991) and Order R-9483 granting us that authority for the subject Unit including the proposed new-drill AGU Injection Wells No. 205 and No. 210 and the proposed conversion injection Wells AGU No. 171 WIC and AGU No. 201 WIC (shown on Exhibit A). The proposed new-drill injection Well No. 205 was to be located in Unit Letter K, Section 12, T22S, R36E, while the proposed new-drill injection Well No. 210 was to be located in Unit Letter O, Section 12, T22S, R36E.

Now, instead, Chevron would like to convert the ARCO State 157-D Well No. 14 to an injection well and rename it the AGU 205 WIC. This well is located 1,980 ft FSL and 2,210 ft FWL, Unit Letter K, Section 12, T22S, R36E, NMPM, Lea County, New Mexico. Also, we would like to convert ARCO State 157-D Well No. 10 and rename it the AGU 210 WIC. This well is located 660 ft FSL and 1,650 ft FEL, Unit Letter O, Section 12, T22S, R36E, NMPM, Lea County, New Mexico. Both of these conversion locations are standard in the subject Oil Pool and Unit.

December 9, 1992

Allowing Chevron to replace the originally proposed new-drill injection wells with the above mentioned conversions of existing well bores will prevent waste.


*Replace  
Appendix  
# 201*

Chevron would also like to replace two wells designated for conversion to water injection with two newly drilled wells. The two conversion wells, the Oxy State "N" Well No. 2, located 2,310 ft FSL and 2,310 ft FWL, Unit Letter K, Section 2, T22S, R36E, NMPM, Lea County, New Mexico, and the Chevron H. T. Mattern Well No. 2, located 1,650 ft FSL and 1,563 ft FWL, Unit Letter K, Section 7, T22S, R37E, NMPM, Lea County, New Mexico, have been plugged because of parted casing. Copies of the approved Form C-103, Subsequent Report of Plug and Abandon, and wellbore schematics for these wells are attached. The well replacing the Oxy State "N" No. 2 will be the AGU 171 WI, located 2,305 ft FSL and 2,215 ft FWL, Unit Letter K, Section 2, T22S, R36E, NMPM, Lea County, New Mexico. The well replacing the Chevron H. T. Mattern No. 2 will be the AGU 201 WI, located 1,650 ft FSL and 1,650 ft. FWL, Unit Letter K, Section 7, T22S, R37E, NMPM, Lea County, New Mexico. Both of the new wells are standard in the subject Oil Pool and Unit.

There have not been any additional wellbores or plugged or abandoned wells, except those mentioned above, generated within these new respective areas of review, subsequent to our original application.

On this basis, Chevron respectfully requests your approval to revise the locations for the subject Unit wells. The offset Operators, shown on the attached list, are being notified by certified mail with a copy of this letter. If any further information is required concerning this request, please contact met at 915/687-7321.

Yours very truly,



S. P. McDonald  
Petroleum Engineer

/s/mf  
8669.1

Attachments

cc: NMOCD - Hobbs, NM

Revised C-108 Locations

Arrowhead Grayburg Unit  
Arrowhead Grayburg Oil Pool

OFFSET OPERATORS

Conoco, Inc.  
10 Desta Drive  
Midland, Texas 79705

Dallas McCasland  
Box 206  
Eunice, New Mexico 88231

Hal J. Rasmussen  
6 Desta Drive, Suite 5850  
Midland, Texas 79705

Texaco Producing Company  
Box 3109  
Midland, Texas 79702

Clayton W. Williams, Jr., Inc.  
6 Desta Drive  
Midland, Texas 79705

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage  
Application qualifies for administrative approval? ☐ yes ☒ no
- II. Operator: Chevron U.S.A., Inc.  
Address: PO Box 1150 Midland, TX 79702  
Contact party: Mr. B. C. Cotner Phone: (915) 687-7314
- 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.
- IV. Is this an expansion of an existing project? ☐ yes ☒ no  
If yes, give the Division order number authorizing the project \_\_\_\_\_
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- 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.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological 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 source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- 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.
- 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 source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- 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: B. C. Cotner Title: Unitization Coordinator

Signature: *B. C. Cotner* Date: 2/7/91

If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

## 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.
- (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.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (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.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

## 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.

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:

- (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, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

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

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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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STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES  
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
DIVISION FOR THE PURPOSE OF  
CONSIDERING:

CASE NO. 10260  
ORDER NO. R-9483

APPLICATION OF CHEVRON U.S.A., INC.  
FOR A WATERFLOOD PROJECT, LEA COUNTY,  
NEW MEXICO

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on March 7 1991, at Santa Fe, New Mexico, before Examiner Jim Morrow.

NOW, on this 8th day of April, 1991, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) At the time of the hearing, this case was consolidated with Division Case Nos. 10259 and 10261 for the purpose of testimony.

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Order No. R-9483  
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(3) The applicant, Chevron U.S.A., Inc., seeks authority to institute a waterflood project on its proposed Arrowhead-Grayburg Unit Area (Division Case No. 10259), Lea County, New Mexico, by the injection of water into the Arrowhead-Grayburg Pool through certain wells as listed in Exhibit "A", attached hereto and made a part hereof, to be either new wells drilled as injection wells or producing oil wells converted to injection wells.

(4) It is proposed that the waterflood project area coincide with the boundary of the Arrowhead-Grayburg Unit Area in Lea County, New Mexico as further described below, which was the subject of Division Case No. 10259 and was heard in conjunction with this case:

Township 21 South, Range 36 East, NMPM

Section 25: All  
Section 26: SE/4 SE/4  
Section 35: E/2; E/2 SW/4; SW/4 SW/4; SE/4 NW/4  
Section 36: All

Township 22 South, Range 36 East, NMPM

Section 1: All  
Section 2: All  
Section 11: NE/4 NW/4; NE/4; NE/4 SE/4  
Section 12: All  
Section 13: E/2; E/2 NW/4; NW/4 NW/4; NE/4 SW/4  
Section 24: NE/4 NE/4

Township 22 South, Range 37 East, NMPM

Section 6: W/2 NW/4; SW/4  
Section 7: W/2; S/2 SE/4; NW/4 SE/4  
Section 18: All  
Section 19: N/2 N/2

(5) The wells in the proposed project area are in an advanced state of depletion and should therefore be properly classified for secondary recovery operations.

(6) The proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

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(7) The operator should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape into other formations onto the surface from injection, production or plugged and abandoned wells.

(8) The applicant's testimony indicates that there are several previously abandoned wells which may not have been adequately plugged and which are located within one-half mile of certain proposed injection wells in the proposed unit all as shown Exhibit "B" hereto.

(9) Prior to commencement of injection into any injector within one-half mile of a problem well, as described on Exhibit "B", the applicant should consult with the supervisor of the Oil Conservation Division's district office at Hobbs to develop a plan acceptable to the Director of said Division, for the repairing, plugging, or replugging of said wells or for the monitoring for determination of fluid movement from the injection interval or for the drilling of producing wells to lower reservoir pressure and fluid levels in the vicinity of said wells in order to protect neighboring properties and to protect other oil or gas zones or fresh water. Any additional problem wells within one-half mile of an injector identified by the supervisor of the Hobbs office should be handled in the manner set out above.

(10) The operator should immediately notify the supervisor of the Division's Hobbs District Office of the failure of the tubing or packer in any of said injection wells, the leakage of water or oil from or around any producing well, or the leakage of water or oil from any plugged and abandoned well within the project area, and should take such timely steps as may be necessary or required to correct such failure or leakage.

(11) Injection into each well should be accomplished through plastic-lined tubing installed in a packer set approximately 100 feet above the uppermost perforation; the casing-tubing annulus in each well should be filled with an inert fluid; and a pressure gauge or approved leak-detecting device should be attached to the annulus in order to determine leaks in the casing, tubing or packer.

(12) The injection wells or pressurization system for each well should be so equipped as to limit surface injection pressure at the wellhead to no more than 734 psi (0.2 psi per foot).

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(13) Prior to commencing injection operations, the casing in each of the subject wells should be pressure-tested throughout the interval, from the surface down to the proposed packer-setting depth, to assure integrity of such casing.

(14) There are currently two Eumont gas wells which penetrate into the unitized interval: The Chevron W.A. Ramsay B-2 well, Unit E, Section 25, Township 21 South, Range 36 East and the Amerada Hess P.A. State No. 5 well, Unit N, Section 18 Township 22 South, Range 37 East, NMPM, for which special procedures should be established to avoid the migration of injection fluids into the Eumont Gas Pool without having either gas well recompleted out of the unitized interval at this time.

(15) The applicant identified five wells shown on Exhibit "30", which were completed in the unit but were also completed from one to eight feet above the top of the unit.

(16) The applicant's request that it not be required to isolate the unitized interval from the non-unitized interval in each of these five wells should be granted because none of these wells is productive in the non-unit interval and the expense of a workover to accomplish that separation is not warranted and the risk of damage to the well is not justified.

(17) The Director of the Division should be authorized to administratively approve an increase in the injection pressure upon a proper showing by the operator that such higher pressure will not result in migration of the injected waters from the unitized formations.

(18) The operator should give advance notice to the supervisor of the Hobbs District Office of the Division of the date and time of the installation of injection equipment and of the mechanical integrity pressure-test in order that the same may be witnessed.

(19) The subject application should be approved and the project should be governed by the provisions of Rules 70 through 708 of the Division Rules and Regulations.

IT IS THEREFORE ORDERED THAT:

(1) The applicant, Chevron U.S.A., Inc., is hereby authorized to institute a waterflood project **RECEIVED**  
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Order No. R-9483  
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Arrowhead-Grayburg Unit Area (Division Case No. 10259), Lea County, New Mexico, by the injection of water into the Arrowhead Pool through wells listed in Exhibit "A", attached hereto and made a part hereof, which will be drilled as injection wells or converted from producing oil wells to injection wells.

(2) The waterflood project, hereby designated the Arrowhead-Grayburg Waterflood Project, shall be comprised of the following described area in Lea County, New Mexico:

Township 21 South, Range 36 East, NMPM

Section 25: All  
Section 26: SE/4 SE/4  
Section 35: E/2; E/2 SW/4; SW/4 SW/4; SE/4 NW/4  
Section 36: All

Township 22 South, Range 36 East, NMPM

Section 1: All  
Section 2: All  
Section 11: NE/4 NW/4; NE/4; NE/4 SE/4  
Section 12: All  
Section 13: E/2; E/2 NW/4; NW/4 NW/4; NE/4 SW/4  
Section 24: NE/4 NE/4

Township 22 South, Range 37 East, NMPM

Section 6: W/2 NW/4; SW/4  
Section 7: W/2; S/2 SE/4; NW/4 SE/4  
Section 18: All  
Section 19: N/2 N/2

(3) Prior to commencing injection into any injector within one-half mile of a problem well as shown on Exhibit "B" of this order, the applicant shall consult with the supervisor of the Oil Conservation Division's district office at Hobbs to develop a plan acceptable to the Director of said Division, for the repairing, plugging, or replugging of said wells or for the monitoring for determination of fluid movement from the injected interval or for the drilling of producing wells to lower reservoir pressure and fluid levels in the vicinity of said wells in order to protect neighboring properties and to protect either oil or gas zones or fresh water. Any additional problem wells within one-half mile of an injector identified by the supervisor of the Hobbs office shall be handled in the manner set out above.

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(4) The operator shall immediately notify the supervisor of the Division's Hobbs District Office of the failure of the tubing or packer in any of said injection wells, the leakage of water or oil from or around any producing wells, or the leakage of water or oil from any plugged and abandoned well within the project area, and shall take such timely steps as may be necessary or required to correct such failure or leakage.

(5) Injection into each well described in Exhibit "A" shall be accomplished through plastic-lined tubing installed in a packer set at approximately 100 feet above the uppermost perforation.

(6) The casing-tubing annulus in each well shall be filled with an inert fluid; and a pressure gauge shall be attached to the annulus or the annulus shall be equipped with an approved leak-detection device in order to determine leakage in the casing, tubing or packer.

(7) Prior to commencing injection operations, the casing in each of the subject wells shall be pressure-tested to assure the integrity of such casing in a manner that is satisfactory to the supervisor of the Division's Hobbs District Office.

(8) Each injection well or pressurization system for each well shall be equipped with a pressure-limiting switch or other acceptable device which will limit the wellhead pressure on the injection well to no more than 734 psi (0.2 psi per foot).

(9) The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the Grayburg-San Andres formation.

(10) The operator shall notify the supervisor of the Hobbs District Office of the Division in advance of the date and time of the installation of injection equipment and of the mechanical integrity pressure-test in order that the same may be witnessed.

(11) The operator shall immediately notify the supervisor of the Division's Hobbs District Office of the failure of the tubing, casing or packer, in any of said injection wells or the leakage of water from or around any producing wells or the leakage of water or oil from any plugged and abandoned well within the project area and shall take such timely steps as may be necessary or required to correct such failure or leakage.

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(12) The operator shall monitor the pressure annually and the fluid monthly on the following two Eumont gas wells with completion intervals extending into the unitization formation. At such time as either the pressure or the fluid composition of either well indicates potential migration of unit fluids into either wellbore, the operator shall cause the affected gas well to be plugged back out of the unitized interval and isolated from the unit:

- (1) Chevron W.A. Ramsay B-2 well,  
Unit E, Section 25, T21S, R36E
- (2) Amerada Hess P.A. State No. 5 well,  
Unit N, Section 18, T22S, R37E

(13) Unless converted to injectors, the operator shall not be required to isolate the unitized interval in the following wells from the non-unitized interval:

<u>Operator</u>	<u>Lease</u>	<u>Well</u>	<u>Location</u>
Conoco	Lockhart B-1	5	Unit O, Sec. 1, T22S, R36E
Marathon	McDonald State	12	Unit B, Sec. 13, T22S, R36E
Marathon	McDonald State	13	Unit C, Sec. 13, T22S, R36E
Rasmussen	State A "AC" 2	16	Unit I, Sec. 11, T22S, R36E
Rasmussen	State A "AC" 2	17	Unit H, Sec. 11, T22S, R36E

(14) Said waterflood project shall be governed by the provisions of Rules 702 through 708 of the Division Rules and Regulations.

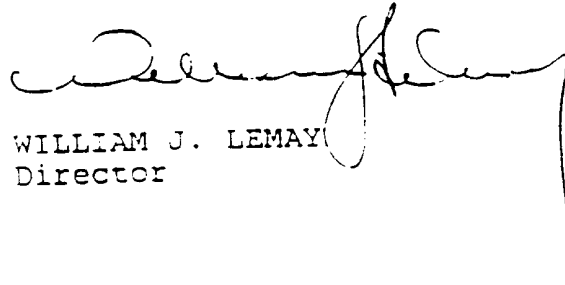
(15) Monthly progress reports shall be submitted to the Division in accordance with Rules 706 and 1115.

(16) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY  
Director

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**APPROVED GRANTING UNIT  
PROPOSED INJECTION WELL COMPLETIONS**

Proposed Well Number	Lease Name	Wellno	Footage	Unit/Sec/TIS/FMG	Operator	Pool
AGU 106 WIC	H A RAMSAY (NCT-B)	5	2105 FUL & 1650 FEL	G 25 21 S 36 E	Chevron	Arrowhead (formerly Penrose Skelly)
AGU 115 WIC	KINGWOOD	2	660 FSL & 1650 FEL	0 25 21 S 36 E	Chevron	Arrowhead (formerly Penrose Skelly)
AGU 119 WIC	HARRY LEONARD (NCT-C)	5	660 FUL & 1980 FUL	C 36 21 S 36 E	Chevron	Arrowhead
AGU 121 WIC	H A RAMSAY (NCT-A)	11	660 FUL & 660 FEL	A 35 21 S 36 E	Chevron	Arrowhead
AGU 124 WIC	H A RAMSAY (NCT-A)	9	1980 FUL & 1980 FEL	G 35 21 S 36 E	Chevron	Arrowhead (formerly Eumont Oil)
AGU 126 WIC	HARRY LEONARD (NCT-C)	3	1380 FUL & 660 FUL	E 36 21 S 36 E	Chevron	Arrowhead
AGU 132 WIC	HARRY LEONARD (NCT-C)	2	1980 FSL & 1980 FUL	K 36 21 S 36 E	Chevron	Arrowhead
AGU 134 WIC	H A RAMSAY (NCT-A)	5	1980 FSL & 660 FEL	I 35 21 S 36 E	Chevron	Arrowhead
AGU 141 WIC	STATE 'N'	1	660 FSL & 660 FUL	M 36 21 S 36 E	OGY USA	Arrowhead
AGU 143 WIC	STATE 'D' DE	1	330 FSL & 2310 FEL	U 36 21 S 36 E	AKCO	Arrowhead
AGU 146 WIC	H T MATTERN (NCT-F)	2	660 FUL & 660 FEL	A 1 22 S 36 E	Chevron	Arrowhead
AGU 150 WIC	STATE J-2	4	660 FUL & 660 FEL	A 2 22 S 36 E	CONOCO	Arrowhead
AGU 152 WIC	STATE J-2	11	660 FUL & 1980 FUL	C 2 22 S 36 E	CONOCO	Arrowhead
AGU 156 WIC	STATE J-2	9	1980 FUL & 1980 FEL	G 2 22 S 36 E	CONOCO	Arrowhead
AGU 158 WIC	LOCKHART B-1 FED.	1	1980 FUL & 660 FUL	E 1 22 S 36 E	CONOCO	Arrowhead
AGU 160 WIC	LOCKHART B-1 FED.	7	1980 FUL & 1830 FEL	G 1 22 S 36 E	CONOCO	Arrowhead
AGU 167 WIC	H T MATTERN (NCT-E)	2	1980 FSL & 1980 FUL	K 1 22 S 36 E	Chevron	Arrowhead
AGU 169 WIC	STATE J-2	2	1980 FSL & 660 FEL	I 2 22 S 36 E	CONOCO	Arrowhead
AGU 171 WIC	STATE 'N'	2	2310 FSL & 2310 FUL	K 2 22 S 36 E	OGY USA	Arrowhead
AGU 175 WIC	STATE J-2	6	660 FSL & 1980 FEL	0 2 22 S 36 E	CONOCO	Arrowhead
AGU 177 WIC	H T MATTERN (NCT-E)	4	660 FSL & 660 FUL	M 1 22 S 36 E	Chevron	Arrowhead
AGU 179 WIC	LOCKHART B-1 FED.	5	660 FSL & 1980 FEL	0 1 22 S 36 E	CONOCO	Arrowhead
AGU 185 WIC	H T MATTERN (NCT-E)	12	660 FUL & 660 FEL	A 12 22 S 36 E	Chevron	Arrowhead
AGU 187 WIC	H T MATTERN (NCT-E)	9	660 FUL & 1980 FUL	C 12 22 S 36 E	Chevron	Arrowhead
AGU 189 WIC	STATE 'A' NC 2	13	660 FUL & 660 FEL	A 11 22 S 36 E	Pasausen	Arrowhead
AGU 196 WIC	H T MATTERN (NCT-E)	7	2310 FUL & 2310 FEL	G 12 22 S 36 E	Chevron	Arrowhead
AGU 198 WIC	H T MATTERN (NCT-D)	2	2310 FUL & 330 FUL	E 7 22 S 37 E	Chevron	Arrowhead
AGU 201 WIC	MATERN	2	1650 FSL & 1650 FUL	K 7 22 S 37 E	Chevron	Arrowhead
AGU 222 WIC	MCDONALD STATE NC 2	13	330 FUL & 2310 FUL	C 13 22 S 37 E	Marathon	Arrowhead
AGU 233 WIC	STATE 'PA'	4	2310 FSL & 1980 FUL	F 10 22 S 37 E	Marathon	Arrowhead

# PROPOSED ARROWHEAD GRAYBURG UNIT INJECTION WELLS TO BE DRILLED

LOCATION				
<u>WELL NO.</u>	<u>UNIT</u>	<u>SECTION</u>	<u>TWS</u>	<u>RANGE</u>
AGU 110 WI	NE/4 SW/4	25	21-S	36-E
AGU 113 WI	SW/4 SW/4	25	21-S	36-E
AGU 128 WI	SE/4 NE/4	36	21-S	36-E
AGU 139 WI	SW/4 SE/4	35	21-S	36-E
AGU 148 WI	NE/4 NW/4	1	22-S	36-E
AGU 165 WI	NE/4 SE/4	1	22-S	36-E
AGU 181 WI	SW/4 SW/4	6	22-S	37-E
AGU 194 WI	SW/4 NW/4	12	22-S	36-E
AGU 203 WI	NE/4 SE/4	12	22-S	36-E
AGU 205 WI	NE/4 SW/4	12	22-S	36-E
AGU 210 WI	SW/4 SE/4	12	22-S	36-E
AGU 212 WI	SW/4 SW/4	7	22-S	37-E
AGU 214 WI	SW/4 SE/4	7	22-S	37-E
AGU 218 WI	NE/4 NW/4	18	22-S	37-E
AGU 220 WI	NE/4 NE/4	13	22-S	36-E
AGU 225 WI	SW/4 NE/4	13	22-S	36-E
AGU 227 WI	SW/4 NW/4	18	22-S	37-E
AGU 229 WI	SW/4 NE/4	18	22-S	37-E
AGU 235 WI	NE/4 SE/4	13	22-S	36-E
AGU 240 WI	SW/4 SW/4	18	22-S	37-E
AGU 242 WI	SW/4 SE/4	18	22-S	37-E
AGU 246 WI	NE/4 NW/4	19	22-S	37-E

CASE NO. 10260 - ORDER NO. R-9483

PSP10125.01

Exhibit A  
Page 2 of 2

RECEIVED

DEC 11 1992

OCD HOBBS CT --



## Exhibit "B"

Proposed Arrowhead Grayburg Unit  
Potential "Problem Wells"

<u>Operator</u>	<u>Lease</u>	<u>Well No</u>	<u>Location</u>	<u>Comment</u>
Bay Petroleum	Brownlee	1	25 21-S 36-E	Insure DH marker and Surface Plug
Gribble	State	1	36 21-S 36-E	Depths of plugs unknown
Conoco	State J-2	8	2 22-S 36-E	No plugs at pay or salt
Chevron	HT Mattern (NCT-E)	5	12 22-S 36-E	No plug at salt or base of surface string
Chevron	HT Mattern (NCT-D)	5	7 22-S 37-E	No plug at salt or base of surface string
Amerada Hess	State 'PA'	2	18 22-S 37-E	No plugs at pay or salt



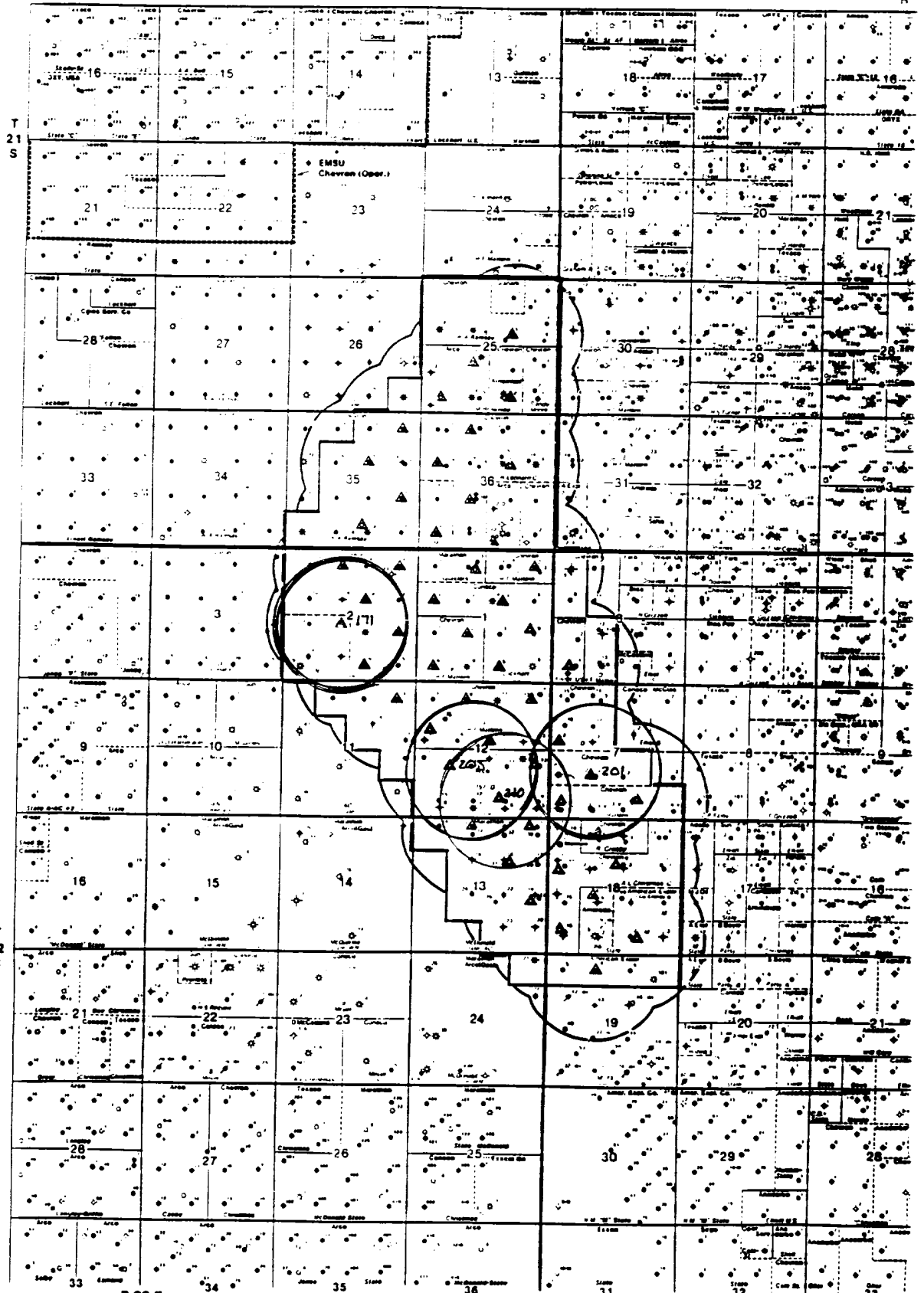
RECEIVED

DEC 1 1 1992

CONFIDENTIAL

R 36 E

R



LEGEND	
Location of Well	Oil & Gas
Oil	Oil & Gas & Water
Oil & Gas	Dry & Gas
Oil & Gas & Water	Water
Oil & Gas	Oil & Gas & Water
Oil & Gas	Oil & Gas & Water
Oil & Gas	Oil & Gas & Water
Oil & Gas	Oil & Gas & Water

ORIGINAL APPLICATION  
AREA OF REVIEW

PROPOSED APPROVED GRAYBUR UNIT AREA OF REVIEW	
Oil	Oil & Gas
Oil & Gas	Oil & Gas & Water
Oil & Gas & Water	Dry & Gas
Water	Water
Oil & Gas	Oil & Gas & Water
Oil & Gas	Oil & Gas & Water
Oil & Gas	Oil & Gas & Water
Oil & Gas	Oil & Gas & Water

R 3

# INJECTION WELL DATA SHEET

Chevron U.S.A. Inc.

Arrowhead Grayburg Unit

OPERATOR

LEASE

WELL NO. FOOTAGE LOCATION

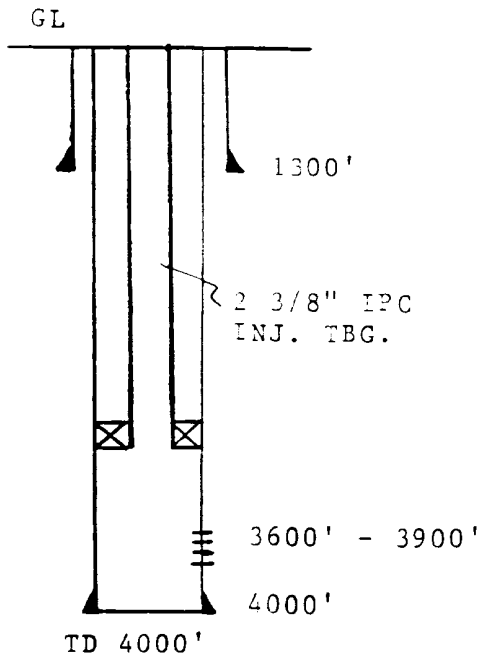
SECTION

TOWNSHIP

RANGE

Proposed new injection well.

## SCHEMATICS



## TUBULAR DATA

### Surface Casing

Size 8-5/8"  
TOC Surf  
Hole size 12-1/4"

Cemented with 800 s  
feet determined by Circ.

### Long String

Size 5-1/2"  
TOC Surf  
Hole size 7-7/8"  
Total Depth 4000'

Cemented with 800 s  
feet determined by Circ.

### Injection Interval

3600 feet to 3900 feet  
(perforated)

Tubing size 2-3/8" lined with IPC set in a Nickel Plated Baker Model AD-1 Tension  
(Material) (Brand and Model)  
packer at 3500 feet (or describe any other casing-tubing seal).

## Other Data

- Name of the injection formation Grayburg
- Name of Field or Pool (if applicable) Arrowhead
- Is this a new well drilled for injection? ☒ Yes ☐ No  
If no, for what purpose was the well originally drilled?
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
- Give the depth in and name of any overlying and/or underlying oil or gas zones (pools) in this area. 2400' top of Jalmat, 2600' top of Eumont, 3300' top of Langlie Mattix, 5500' top of Blinbry, 6250' top of Tubb, 6500' top of Drinkard.

Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department  
**OIL CONSERVATION DIVISION**

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

Form C-103  
Revised 1-1-89

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240  
DISTRICT II  
P.O. Drawer 00, Artesia, NM 88210  
DISTRICT III  
1000 Rio Brazos Rd., Aztec, Nm 87410

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		API NO. (assigned by OCD on New Wells) <b>30-025-08744</b>																				
1. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Plugged</u>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>																				
2. Name of Operator <b>CHEVRON U.S.A. INC.</b>		6. State Oil & Gas Lease No. <b>B-08744</b>																				
3. Address of Operator <b>P.O. BOX 1150 MIDLAND, TX 79702 ATTN: P.R. MATTHEWS</b>		7. Lease Name or Unit Agreement Name <b>OXY STATE "N"</b>																				
4. Well Location Unit Letter <b>K</b> : <b>2310</b> Feet From The <b>SOUTH</b> Line and <b>2310</b> Feet From The <b>WEST</b> Line Section <b>2</b> Township <b>22S</b> Range <b>36E</b> NMPM <b>LEA</b> County		8. Well No. <b>2</b>																				
10. Elevation (Show whether DF, PKB, RT, GR, etc.)		9. Pool name or Wildcat <b>ARROWHEAD/GB</b>																				
11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data																						
<table border="0"><tr><td colspan="2"><b>NOTICE OF INTENTION TO:</b></td><td colspan="2"><b>SUBSEQUENT REPORT OF:</b></td></tr><tr><td>PERFORM REMEDIAL WORK <input type="checkbox"/></td><td>PLUG AND ABANDON <input type="checkbox"/></td><td>REMEDIAL WORK <input type="checkbox"/></td><td>ALTER CASING <input type="checkbox"/></td></tr><tr><td>TEMPORARILY ABANDON <input type="checkbox"/></td><td>CHANGE PLANS <input type="checkbox"/></td><td>COMMENCE DRILLING OPNS. <input type="checkbox"/></td><td>PLUG AND ABAN. <input type="checkbox"/></td></tr><tr><td>PULL OR ALTER CASING <input type="checkbox"/></td><td></td><td>CASING TEST AND CMT JOB <input type="checkbox"/></td><td></td></tr><tr><td>OTHER: <u>NAME CHANGE</u> <input checked="" type="checkbox"/></td><td></td><td>OTHER: <input type="checkbox"/></td><td></td></tr></table>			<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>		PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTER CASING <input type="checkbox"/>	TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABAN. <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CMT JOB <input type="checkbox"/>		OTHER: <u>NAME CHANGE</u> <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>	
<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>																				
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTER CASING <input type="checkbox"/>																			
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABAN. <input type="checkbox"/>																			
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CMT JOB <input type="checkbox"/>																				
OTHER: <u>NAME CHANGE</u> <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>																				
12. Describe Process or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.																						

CHEVRON WISHES TO CHANGE THE NAME OF THE AGU #171 BACK TO THE FORMER NAME:  
FORMER NAME: OXY STATE "N" #2.

REASON: THE OXY STATE "N" # 2 WELLBORE IS UNUSABLE DUE TO PARTED CASING.  
IT IS OUR INTENTION TO DRILL A NEW WELL AND CALL IT THE AGU # 171.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE P.R. Matthews TITLE **TECH. ASSISTANT**

DATE: **9-16-92**

TYPE OR PRINT NAME **P.R. MATTHEWS**

TELEPHONE NO. **(915)687-7812**

APPROVED BY **ORIGINAL SIGNED BY JERRY SEXTON**  
DISTRICT SUPERVISOR TITLE  
CONDITIONS OF APPROVAL, IF ANY:

DATE **SEP 16 '92**

Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

WELL API NO.  
30-025-08744

5. Indicate Type of Lease

STATE TX

FEE

6. State Oil & Gas Lease No. N/a

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A  
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"  
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

OIL  
WELL ☒

GAS

WELL ☐

OTHER

2. Name of Operator

CHEVRON U.S.A. INC.

3. Address of Operator

P.O. BOX 1150 MIDLAND, TX 79702

ATTN: P.R. MATTHEWS

8. Well No.

171

4. Well Location

Unit Letter K 2310

Feet From The SOUTH

Line and 2310

Feet From The WEST

Section 2

Township 22S

Range 36E

NMPM

LEA

County

10. Elevation (show whether DF, RKB, RT, GR, etc.)

11.

Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data  
NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ABANDONMENT ☒

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

TIH TO 3691, PUMP 300 BBL OF BW. PUMP 50 SX. OF CMT. FROM 3475-3700.  
PU TO 2761, WOC. PUMP 100 BBLS OF 9.5 PPG BW. TIH ATG AT 3249. PUMP 25 SX. OF CMT AT 3249-3000. WOC TIH TAG UP AT 3004. PUMP 100 BBLS OF 9.5 PPG BW. PUMP 25 SX. OF CMT. FROM 3004-2757. PU TO 2332, WOC TIH TAG UP AT 2623. SPOT 12 BBLS OF P & A MUD. 2623-2150. POOH TIH WITH CIGR AND SET AT 1801. PUMP 85 BBLS OF BW. STING INTO CIGR AND PUMP 100 SX. OF CMT. 1560-1801 SET A CEMENT PLUG OF 50 SX. SPOT A 25 SX. PLUG FROM 1560-1313. PERF AT 313 AND PUMP 80 SX. OF CEMENT FILLED BOTH 5 1/2" and 8 5/8" CASING WITH CEMENT. INSTALLED P & A MARKER. RDMO ON 2-23-92.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

P.R. Matthews

TITLE

TECHNICAL ASSISTANT

DATE

2-24-92

TYPE OR PRINT NAME

P.R. MATTHEWS

TELEPHONE NO. 68707812

(This space for State Use)

APPROVED BY

P.R. Matthews

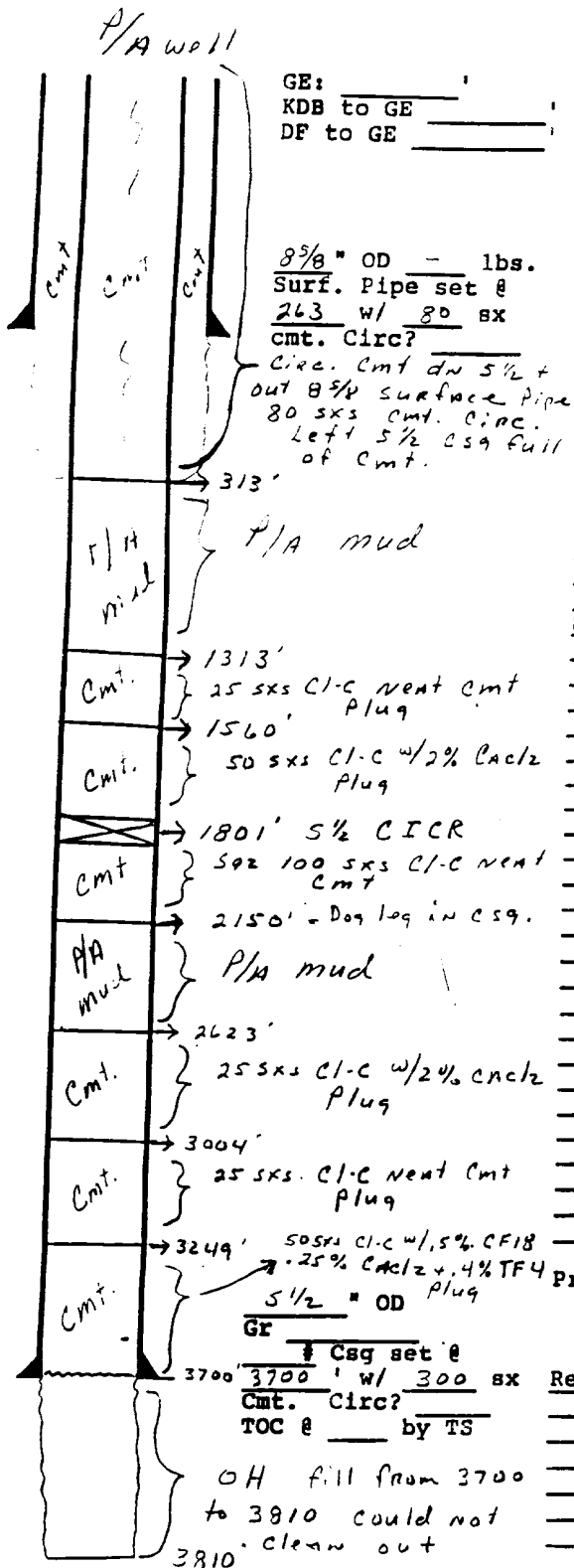
TITLE

OIL & GAS INSPECTOR

MAR 05 '92

## WELL DATA SHEET

LEASE AGU WELL NO. 171-WIC FIELD Arrowhead DATE 2-23-  
 LOCATION 2310 FEET FROM S LINE AND 2310 FEET FROM W LINE  
 SECTION 2 TOWNSHIP 22-S RANGE 36-E COUNTY Lea STATE NM



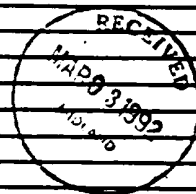
Date Completed 4-40  
 Initial Formation Grayburg  
 FROM: \_\_\_\_\_ TO: \_\_\_\_\_  
 Initial Production \_\_\_\_\_ BOPD \_\_\_\_\_ BWPD \_\_\_\_\_  
 \_\_\_\_\_ MCFPD \_\_\_\_\_ GOR

Completion Data: \_\_\_\_\_

## Subsequent Workover or Reconditioning:

Present Prod. \_\_\_\_\_ BOPD \_\_\_\_\_ BWPD \_\_\_\_\_  
 \_\_\_\_\_ MCFPD \_\_\_\_\_ GOR  
 Date \_\_\_\_\_

## Remarks or Additional Data:





Form C-103

Revised 1-1-88

State of New Mexico

Energy, Minerals and Natural Resources Department

**OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer 64, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, Nm 87410

API NO. (Assigned by OCD on New Wells)	
30-025-10098	
5. Indicate Type of Lease	
STATE <input type="checkbox"/>	FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.	
N/A	
7. Lease Name or Unit Agreement Name	
ARROWHEAD GRAYBURG UNIT	
8. Well No.	
201	
9. Pool name or Wildcat	
ARROWHEAD/GB	

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:	
OIL WELL <input type="checkbox"/>	GAS WELL <input type="checkbox"/> OTHER INJECTOR
2. Name of Operator	
CHEVRON U.S.A. INC.	
3. Address of Operator	
P.O. BOX 1150 MIDLAND, TX 79702 ATTN: P.R. MATTHEWS	
4. Well Location	
Unit Letter K	1650 Feet From Th SOUTH Line and 1650 Feet From The WEST Line
Section 7	Township 22S Range 37E NMPM LEA County
10. Elevation (show whether OF, RKB, RT, GR, etc.)	
3445 GE	

11 Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data			
<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTER CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABAN. <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CMT JOB <input type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

12 Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

MIRU, POOH WITH PRODUCTION EQUIPMENT.  
TIH WITH DOWN HOLE VIDEO CAMERA AND DISCOVER CASING PARTED AT 326-329.  
TIH WITH CEMENT, SET PLUG AT 2540-3740. 130 SXS. OF CEMENT.  
PUMPED 9.5 PPG P & A MUD FROM 2540-200.  
PUMPED CEMENT FROM 330'-SURFACE.  
CUT OFF WELLHEAD AND WELD ON P & A MARKER.  
NOTE: LEFT RBP IN THE HOLE AT 3679'.  
WORK FINISHED ON 3-21-92.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.			
SIGNATURE	<i>P.R. Matthews</i>	TITLE	TECH. ASSISTANT
DATE:		03-23-92	
TYPE OR PRINT NAME		P.R. MATTHEWS	
TELEPHONE NO		(915)687-7812	
APPROVED BY	<i>R. A. Smith</i>	TITLE	OIL & GAS INSPECTOR
DATE		APR 03 '92	
CONDITIONS OF APPROVAL, IF ANY:			

Submit to Appropriate  
District Office  
State Lease - 4 copies  
Fee Lease - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-10  
Revised 1-

## OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

### DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

### DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

### DISTRICT III

1000 Rio Brazos Rd., Artesia, NM 87410

## WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

H.T. Mattern #2

Operator <b>CHEVRON U.S.A. INC.</b>			Lease <b>ARROWHEAD GRAYBURG UNIT</b>		Well No. <b>201</b>
Unit Letter <b>K</b>	Section <b>7</b>	Township <b>22 SOUTH</b>	Range <b>37 EAST</b>	County <b>NMPM LEA</b>	
Actual Footage Location of Well: <b>1650</b> feet from the <b>SOUTH</b> line and <b>1650 1563</b> feet from the <b>WEST</b> line					
Ground Level Elev. <b>3447.0'</b>	Producing Formation		Pool		Dedicated Acreage: <b>Acres</b>

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?  
☐ Yes ☐ No If answer is "yes" type of consolidation \_\_\_\_\_

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)

No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, force-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.

### OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature \_\_\_\_\_

Printed Name \_\_\_\_\_

Position \_\_\_\_\_

Company \_\_\_\_\_

Date \_\_\_\_\_

### SURVEYOR CERTIFICATION

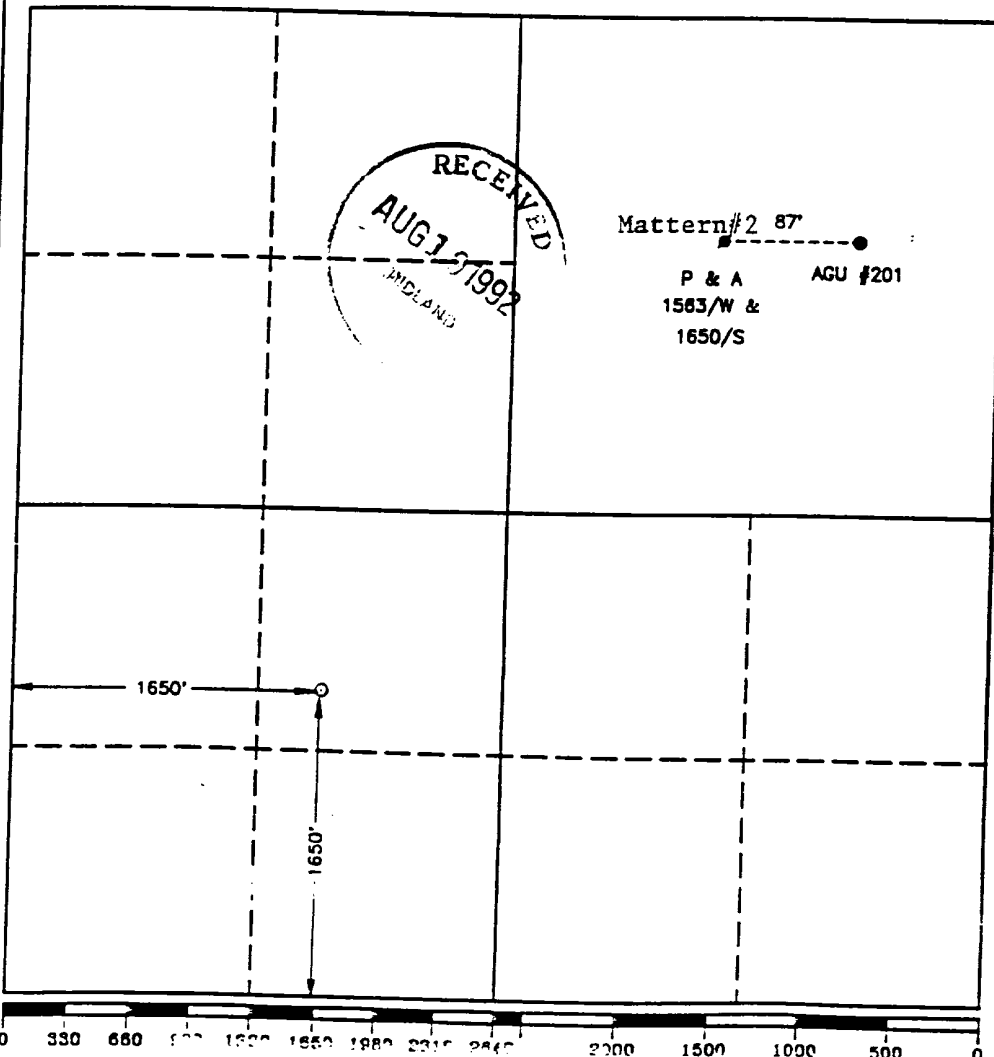
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed \_\_\_\_\_

**JULY 30, 1992**

Signature & Seal of  
Professional Surveyor

**REGISTERED LAND SURVEYOR**  
**JOHN W. WEST** 6781  
**RONALD J. EDSON** 3238  
**GARY L. JONES** 7977  
**1992 JUL 30 1038**



Submit 3 Copies  
to Appropriate

District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department  
**OIL CONSERVATION DIVISION**  
P.O. Box 2088

Form C-103  
Revised 1-1-89

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer Dd, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, Nm 87410

Santa Fe, New Mexico 87504-2088



API NO. (assigned by OCD on New Wells)

30-025-1006.8

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

N/A

7. Lease Name or Unit Agreement Name

H.T. MATTERN

1. Type of Well:

OIL

GAS

WELL ☒

WELL ☐

OTHER

Plugged

2. Name of Operator

CHEVRON U.S.A. INC.

8. Well No.

2

3. Address of Operator

P.O. BOX 1150 MIDLAND, TX 79702 ATTN: P.R. MATTHEWS

9. Pool name or Wildcat

ARROWHEAD/GB

4. Well Location

Unit Letter

K

1563

Feet From The

WEST

Line and

1650

Feet From The

SOUTH

Line

Section

7

Township

22S

Range

37E

NMPM

LEA

County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

11

Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

**NOTICE OF INTENTION TO:**

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER:

NAME CHANGE ☒

**SUBSEQUENT REPORT OF:**

REMEDIAL WORK ☐

ALTER CASING ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ABAN. ☐

CASING TEST AND CMT JOB ☐

OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

CHEVRON U.S.A. INC. WISHES TO CHANGE THE NAME OF SUBJECT WELL:

FROM ARROWHEAD GRAYBURG UNIT #201.

TO: H.T. MATTERN #2

Correct surface location from 1650/S & W

to: 1650/S & 1563/W as indicated on attached plat.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

P.R. Matthews

TITLE

TECH. ASSISTANT

DATE:

8-13-92

TYPE OR PRINT NAME

P.R. MATTHEWS

TELEPHONE NO.

(915)687-7812

ORIGINAL SIGNED BY JERRY SEXTON

DISTRICT I SUPERVISOR

APPROVED BY

TITLE

DATE

AUG 17 '92

CONDITIONS OF APPROVAL, IF ANY:



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

BRUCE KING  
GOVERNOR

POST OFFICE BOX 1980  
HOBBS, NEW MEXICO 88241-1980  
(505) 393-6161

TO WHOM IT MAY CONCERN:

August 13, 1992

CORRECTION OF SURFACE LOCATION

Chevron USA Inc.  
H.T. Mattern #2 (API #30-025-10098)  
Section 7, T22S, R37E  
from: 1650/S & 1650/W  
to: 1650/S & 1563/W

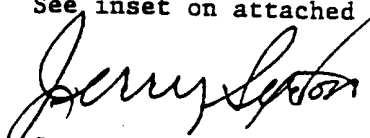


This well had previously been changed to the Chevron USA Inc. Arrowhead Grayburg Unit #201, but wellbore was unsatisfactory for unit well so well was plugged and Chevron drilled a new Unit well #201 at 1650/S & 1650/W of Sec. 7, T22S, R37E

The incorrect location of the H.T. Mattern #2 was due to the fact that the original measurements were referred to as 330' north of South line and 330' East of West line of the SW of NE of SW of Sec. 7, T22S, R37E. When these measurements were transferred to OCD forms which required measurements from the section line instead of the quarter/quarter lines they were recorded incorrectly because Unit letter "L" of Section 7 is not a standard size lot.

The corrected location is taken from measurements furnished by John West Engineering when they surveyed for the new Arrowhead Grayburg Unit #201.

See inset on attached plat.

  
Jerry Sexton  
Supervisor, District I

AGU 201

AGU 201-01C

WELL DATA SHEET AFE: MMR2PBA2

LEASE Meridian Watern WELL NO. 2 FIELD Arrowhead TA'd DATE 11/30  
 LOCATION 1650 FEET FROM S LINE AND 1650 FEET FROM W LINE  
 SECTION 7 TOWNSHIP 22-S RANGE 37-E COUNTY Lea STATE NM

UNIT K

GE: 3445  
 KDB to GE \_\_\_\_\_  
 DF to GE \_\_\_\_\_

Date Completed 11/15/39  
 Initial Formation Grayburg  
 FROM: 3668 TO: 3740  
 Initial Production 480 BOPD 0 SWPD  
nm MCFPD nm GOR

Completion Data:  
 OH Completion.

8 5/8" OD 28 lbs.  
 Surf. Pipe set @  
 326 w/ 128 sx  
 cmt. Circ? \_\_\_\_\_

Cement Plug  
 f/surface to 375'

5 1/2" CSG TOP  
 @ 330'

PRESENT

9.5# Mud Ladden  
 fluid w/ 36 vis.

Cement Plug  
 f/2540 to 3740

Baker 5 1/2"  
 C Type RBP

3740

Subsequent Workover or Reconditioning:  
10/16/51 - Acidized w/500 gals.

9/68 - TA'd.

3-20-92 - Move in to work-  
over well. & Found out about  
5 1/2" CSG was parted at 3726  
to 3730' & 8 5/8" CSG was parted  
at 4043' P & A well 3-21-92

Present Prod. \_\_\_\_\_ BOPD \_\_\_\_\_ SWF= \_\_\_\_\_  
 \_\_\_\_\_ MCFPD \_\_\_\_\_ GC= \_\_\_\_\_

5 1/2" OD  
 Gr \_\_\_\_\_  
 14 # Csg set @  
 3668' w/ 400 sx  
 Cmt. Circ? \_\_\_\_\_  
 TOC @ \_\_\_\_\_ by TS

Remarks or Additional Data:  
5 1/2" casing in 6 3/4" h.

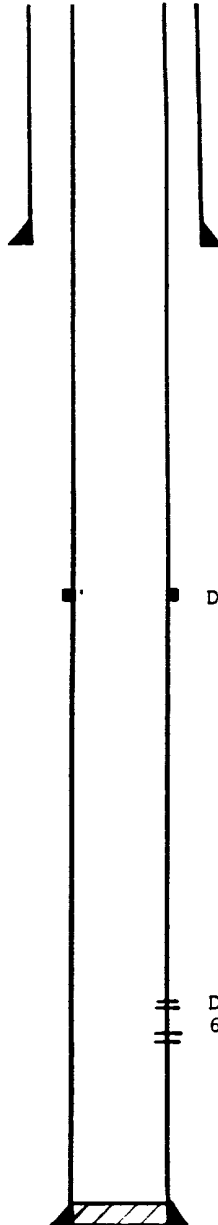
[CURRENT]

205

WELL DATA SHEET

LEASE Arco State 157-D WELL NO. 14 FIELD Drinkard DATE 11/28  
LOCATION 1980 FEET FROM S LINE AND 2210 FEET FROM W LINE  
SECTION 12 TOWNSHIP 22-S RANGE 36-E COUNTY Lea STATE NM

UNIT K



GE: 3475  
KDB to GE 10  
OF to GE

9 5/8 " OD  lbs.  
Surf. Pipe set @  
1286 w/ 550 sx  
Cmt. Circ? Yes

Date Completed 3/3/80  
Initial Formation Drinkard  
FROM: 6527 TO: 6652  
Initial Production 51 BOPD 124 SW  
142 MCFPD 2784 G

Completion Data:  
Perf Drinkard 6527 - 6652'. Acidiz  
& frac.

Subsequent Workover or Reconditioning

DV tool @ 3726'

Drinkard Perfs  
6527'-6652'

5 1/2 " OD  
Gr   
# Csg set @  
6804 ' w/ 2750 sx  
Cmt. Circ? Yes  
TOC @  by TS

Present Prod.  BOPD  B'  
 MCFPD  Date

Remarks or Additional Data:  
5 1/2" casing in 9 3/4" hole

# INJECTION WELL DATA SHEET

Chevron U.S.A. Inc.  
OPERATOR

Arrowhead Grayburg Unit  
LEASE

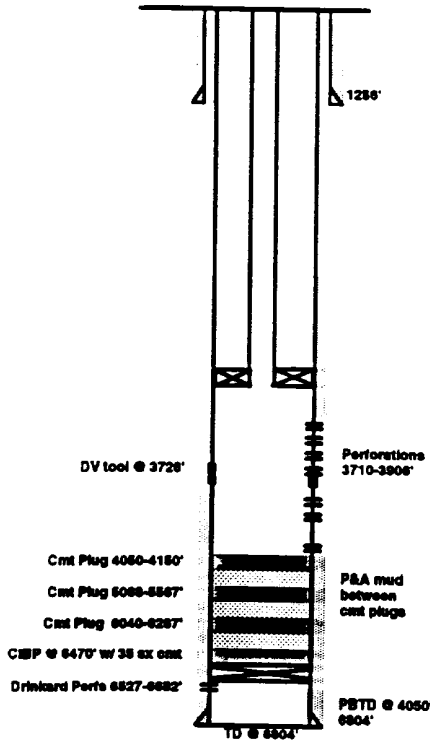
205 WIC 1,980' FSL 2,210' FWL  
WELL NO. FOOTAGE LOCATION

Section 12 T22S - R36E Unit K  
SECTION TOWNSHIP RANGE

Proposed New Injection Well

## SCHEMATICS

GL = 3475'



## TUBULAR DATA

### Surface Casing

Size 9 5/8"  
TOC Surf  
Hole size Unknown

Cemented with 550 sx  
feet determined by Circ.

### Long String

Size 5 1/4"  
TOC 2,930'  
Hole size 8 3/4"  
Total Depth 6,804'

Cemented with 2,930 sx  
feet determined by CBL.

### Injection Interval

3,710 feet to 3,906 feet  
(perforated)

Tubing size 2-3/8" lined with Cement set in a Guberson Unit VI Plastic Coated  
(Material) (Brand and Model)

packer at 3,664 feet (or describe any other casing-tubing seal).

## Other Data

- Name of the injection formation Grayburg
- Name of Field or Pool (if applicable) Arrowhead
- Is this a new well drilled for injection? ☐ Yes ☒ No  
If no, for what purpose was the well originally drilled?
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) Yes, Drinkard, 6,527'-6,652', Plugged with CIBP at 6,490' with 35 SX CMT on top. CMT Plugs at 6,040'-6,287', 5,068'-5,567', 4,050'-4,150' with mud between plugs.
- Give the depth in and name of any overlying and/or underlying oil or gas zones (pools) in this area. 2,400' top of Jalmat, 2,600' top of Eumont, 3,300' top of Langlie Mattix, 5,500' top of Blinberry, 6,250' top of Tubb, 6,500' of Drinkard.

[ CURRENT ]

210

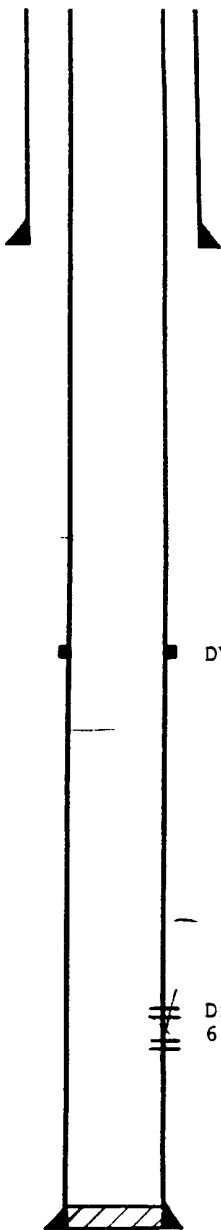
WELL DATA SHEET

LEASE Arco State 157-D WELL NO. 10 FIELD Drinkard DATE 11/28

LOCATION 660 FEET FROM S LINE AND 1650 FEET FROM E LINE

SECTION 12 TOWNSHIP 22-S RANGE 36-E COUNTY Lea STATE NM

UNIT 0



GE: 3469  
KDB to GE 13  
DF to GE         

9 5/8" OD 36 lbs.  
Surf. Pipe set @  
1220 w/ 600 sx  
Cmt. Circ? Yes

Date Completed 9/24/79  
Initial Formation Drinkard  
FROM: 6510 TO: 6656  
Initial Production 168 BOPD 60 BW  
193 MCFPD 1149 G

Completion Data:  
Perf Drinkard 6510 - 6656', Acidiz  
& frac.

Subsequent Workover or Reconditioning

DV tool @ 3773'

Drinkard Perfs  
6510'-6656'

5 1/2" OD  
Gr K-55  
15.5# Csg set @  
6800 w/ 1475 sx  
Cmt. Circ? No  
TOC @ 1050 by TS

Present Prod.          BOPD          BW  
         MCFPD          C  
Date         

Remarks or Additional Data:  
5 1/2" casing in 8 3/4" hole

PBD 6721

TD 6800



# INJECTION WELL DATA SHEET

Chevron U.S.A. Inc.

Arrowhead Grayburg Unit

OPERATOR

LEASE

210 WIC 660' FSL. 1,650' FWL  
WELL NO. FOOTAGE LOCATION

Section 12  
SECTION

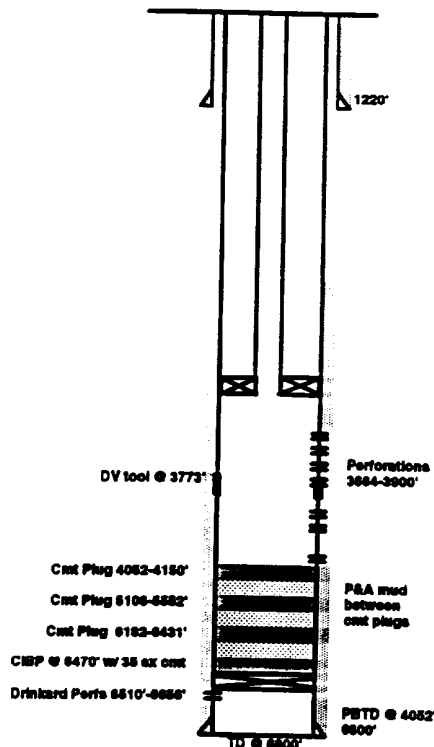
T22S - R36E  
TOWNSHIP

Unit O  
RANGE

Proposed New Injection Well

## SCHEMATICS

GL = 3400'



## TUBULAR DATA

### Surface Casing

Size 9 5/8"  
TOC Surf  
Hole size Unknown

Cemented with 600 SX  
feet determined by Circ.

### Long String

Size 5 1/2"  
TOC 1,050'  
Hole size 8 3/4"  
Total Depth 6,800'

Cemented with 1,475 SX  
feet determined by TS

### Injection Interval

3,664 feet to 3,900 feet  
(perforated)

Tubing size 2-3/8" lined with Fiberglass set in a Guberson Unit VI Plastic Coated  
(Material) (Brand and Model)  
packer at 3,622 feet (or describe any other casing-tubing seal).

## Other Data

- Name of the injection formation Grayburg
- Name of Field or Pool (if applicable) Arrowhead
- Is this a new well drilled for injection? Yes ☒ No  
If no, for what purpose was the well originally drilled? \_\_\_\_\_
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) Yes, Drinkard, 6,510'-6,656', Plugged with CIBP at 6,470' with 35 SX CMT. CMT Plugs at 6,431'-6,182', 5,552'-5,108', 4,150'-4,052' with mud between plugs.
- Give the depth in and name of any overlying and/or underlying oil or gas zones (pools) in this area. 2,400' Top of Jalmat, 2,600' top of Eumont, 3,300' top of Langlie Mattix, 5,500 top of Blincry, 6,250' top of Tubb, 6,500' top of Drinkard.