

DATE IN 02/13/14	SUSPENSE	ENGINEER TRG	LOGGED IN 02/17/2014	TYPE PMX	PPRG 140486/098
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ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

**[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]**  
**[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]**  
**[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]**  
**[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]**  
**[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]**  
**[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]**

**[1] TYPE OF APPLICATION - Check Those Which Apply for [A]**

- [A] Location - Spacing Unit - Simultaneous Dedication  
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement  
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☒ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

Apache  
 Empire Abo Unit 202  
 30-015-21783

- [D] Other: Specify R-4549

**[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply**

- [A] ☒ Working, Royalty or Overriding Royalty Interest Owners  
 [B] ☒ Offset Operators, Leaseholders or Surface Owner  
 [C] ☒ Application is One Which Requires Published Legal Notice  
 [D] ☒ Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office  
 [E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,  
 [F] ☐ Waivers are Attached

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 NEW MEXICO OIL CONSERVATION DIVISION

**[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

**[4] CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

**Note: Statement must be completed by an individual with managerial and/or supervisory capacity.**

Brian Wood

Print or Type Name

Signature

Consultant

Title

2-13-14

Date

e-mail Address

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: Secondary Recovery XXX Pressure Maintenance Disposal Storage  
Application qualifies for administrative approval? Yes No
- II. OPERATOR: APACHE CORPORATION  
ADDRESS: 303 VETERANS AIR PARK LANE, SUITE 3000, MIDLAND, TX 79705  
CONTACT PARTY: BRIAN WOOD (PERMITS WEST, INC.) PHONE: 505 466-8120
- 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? XXX Yes No  
If yes, give the Division order number authorizing the project: R-4549 et al
- 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: **Empire Abo Unit 202**  
**30-015-21783**
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 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.
- 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 sources 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: BRIAN WOOD

TITLE: CONSULTANT

SIGNATURE: 

DATE: FEB. 13, 2014

E-MAIL ADDRESS: brian@permitswest.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: \_\_\_\_\_

### 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 the 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, 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.

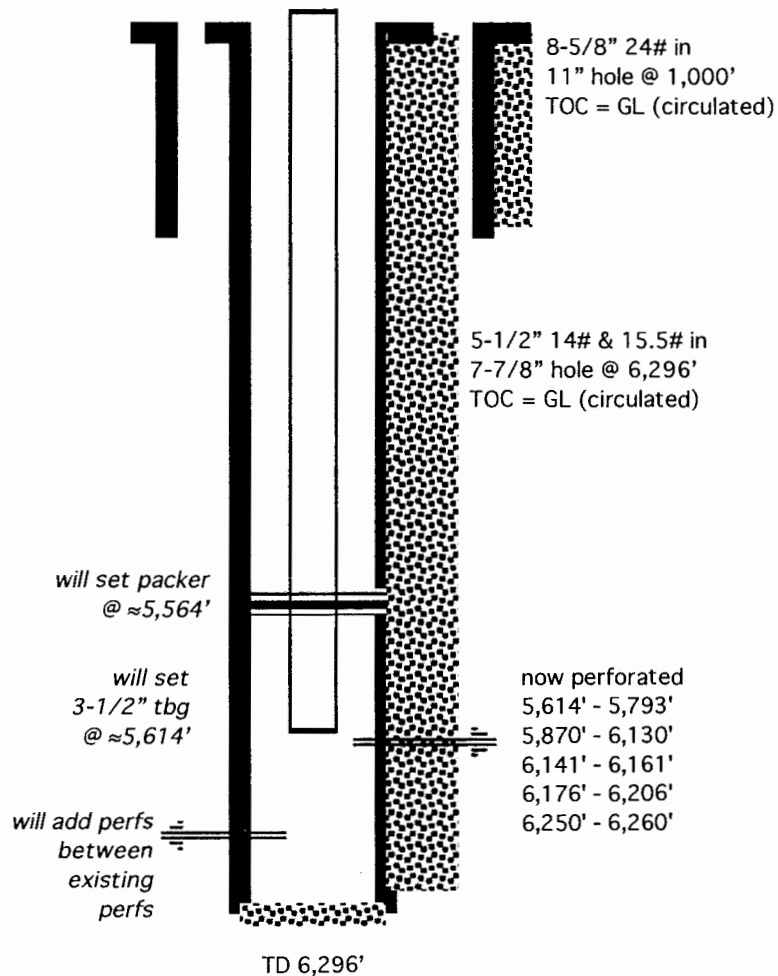
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NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

## INJECTION WELL DATA SHEET

OPERATOR: APACHE CORPORATIONWELL NAME & NUMBER: EMPIRE ABO UNIT 202

WELL LOCATION: <u>2490 FNL &amp; 1299 FEL</u>	<u>H</u>	<u>1</u>	<u>18 S</u>	<u>27 E</u>
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

(not to scale)

WELL CONSTRUCTION DATASurface Casing

Hole Size: 11" Casing Size: 8-5/8"  
 Cemented with: 350 sx. or                      ft<sup>3</sup>  
 Top of Cement: SURFACE Method Determined: CIRCULATED

Intermediate Casing

Hole Size:                      Casing Size:                       
 Cemented with:                      sx. or                      ft<sup>3</sup>  
 Top of Cement:                      Method Determined:                     

Production Casing

Hole Size: 7-7/8" Casing Size: 5-1/2"  
 Cemented with: 1,550 sx. or                      ft<sup>3</sup>  
 Top of Cement: SURFACE Method Determined: CIRCULATED  
 Total Depth: 6,296'

Injection Interval

5,614' feet to 6,260'

(Perforated or Open Hole; indicate which)

**INJECTION WELL DATA SHEET**

Tubing Size: 3-1/2" Lining Material: TUBOSCOPE TK FIBER  
Type of Packer: ARROW AS-1X  
Packer Setting Depth: ≈5,564'  
Other Type of Tubing/Casing Seal (if applicable):

Additional Data

1. Is this a new well drilled for injection? Yes XXX No  
If no, for what purpose was the well originally drilled? OIL WELL
2. Name of the Injection Formation: ABO
3. Name of Field or Pool (if applicable): EMPIRE; ABO (22040)
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. ONLY PERFORATED IN ABO  
5614' - 5793', 5870' - 6130', 6141' - 6161', 6176' - 6206', & 6250' - 6260'
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:   
OVER: YESO (3525'), GLORIETA (3375'), SAN ANDRES (1950'),  
GRAYBURG (1550'), QUEEN (1150')  
  
UNDER: MORROW (9594')

APACHE CORPORATION  
EMPIRE ABO UNIT 202  
2490' FNL & 1299' FEL SEC. 1, T. 18 S., R. 27 E.  
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I. Purpose is to convert a 6,296' deep Empire; Abo oil well to a water injection well. Injection may occur in the entire Abo shale - reef interval (from 5,614' to 6,260'). The well operated as a gas injection well in 1995. This is the Empire; Abo Pool (NMOCD pool code 22040). It would be the 25th injection well in the unit. Previous injection well rules or orders are R-4549 and PMX-55, PMX-58, PMX-61, PMX-62, PMX-65, PMX-73, PMX-116, PMX-188, PMX-269, and PMX-270. There have also been 4 saltwater disposal wells in the unit.

II. Operator: Apache Corporation (OGRID #873)  
Operator phone number: (432) 818-1926  
Operator address: 303 Veterans Air Park Lane, Suite 3000  
Midland, TX 79705  
Contact for Application: Brian Wood (Permits West, Inc.)  
Phone: (505) 466-8120

III. A. (1) Lease: BLM lease NMNM-557371  
Lease Size: 440.3 acres (see Exhibit A for C-102 and maps)  
Unit Size: 11,339.15 acres  
Unit Number: 300117 (BLM: NMNM-070945X)  
Closest Lease Line: 170'  
Closest Unit Line: 2,711'  
Lease: Lots 1 - 3, S2N2, & SW4 Section 1, T. 18 S., R. 27 E.

A. (2) Surface casing (8-5/8", 24#, K-55) was set in 1976 at 1,000' in an 11" hole. Casing was cemented with 250 sacks Class C + 4% gel + 2% CaCl<sub>2</sub> + 6 pounds per sack salt + ¼ pound per sack Flocele followed by 100 sacks Class C + 2% CaCl<sub>2</sub> + 6 pounds per sack salt. Circulated 25 sacks to the surface.

Production casing (5-1/2", 14# & 15.5#, J-55) was set at 6,296' (TD) in a 7-7/8" hole. PBTD = 6,270'. DV tool was set at 4,009'. Cemented first stage with 550 sacks 50/50 Class C Poz mix+ 2% gel + 8 pounds per sack salt + 0.6% D-31 + 5 pounds per sack gilsonite

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+ 1/4 pound per sack cello flake. Circulated 75 sacks to surface. Followed with 900 sacks light + 8 pounds per sack salt followed by 100 sacks Class C + 8 pounds per sack salt. Circulated 70 sacks.

- A. (3) Tubing will be 3-1/2", J-55, 9.3#, 8 rd EUE with turned down couplings coated with Tuboscope® TK fiber line. Setting depth will be 5,589'. (Highest perforation is at 5,614'.)
- A. (4) An Arrow AS-1X packer will be set at 5,564' (50' above the highest perforation of 5,614').
- B. (1) Injection zone will be the Abo, which is part of the Empire; Abo Pool (NMOCD pool code number 22040).
- B. (2) Injection interval will be 5,614' to 6,260'. The entire well bore is cased.
- B. (3) Well was drilled in 1976 as an Empire; Abo oil well. Production in the first 11 months of 2013 averaged 4 Mcfd. No oil was produced in 2013. The well has cumulatively produced 275,944 barrels of oil and 1,226,444 Mcf of gas from 5 different Abo intervals. See Exhibit B for current well bore status.
- B. (4) Apache will drill out to 6,270'. The injection interval will be perforated with 4 shots per foot. Shot diameter = 0.42". Existing open perforations are 5,998' - 6,180'. Perforation history (all Abo) is:

May 1976: perforated 6141' - 6161'

April 1979: squeezed above perforations with 150 sacks

April 1979: perforated 6250' - 6260'

November 1992: perforated 6176' - 6206'

February 1994: perforated 6141' - 6161'

March 1994: perforated 5870' - 6130'

January 2002: perforated 5614' - 5793'

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B. (5) Higher and lower potential oil or gas zones in the area of review that have produced are:

Queen  
Grayburg  
San Andres  
Glorieta Yeso  
Abo  
Morrow

IV. This is an expansion of an existing injection project. There are 3 other active Abo injection wells currently in the unit. Cumulative injection through November 30, 2013 in those wells is 33,880,952 barrels. Converting this oil well to an injection well will improve unit economics and positively affect existing production within the Empire Abo Unit.

V. Exhibit C shows 37 existing wells (31 producing oil or gas + 5 plugged & abandoned + 1 water injection) within a half-mile radius. Exhibit D shows 651 existing wells (382 producing oil or gas + 245 plugged & abandoned + 21 water injectors or disposals + 3 water wells) within a two-mile radius.

Exhibit E shows all leases and lessors (only State and BLM) within a half-mile. Exhibit F shows all leases and lessors (only State and BLM) within a two-mile radius. Details on the leases within a half-mile are:

<u>T. 17 S., R. 27 E.</u>	<u>Lessor</u>	<u>Lease Number</u>	<u>Lessee</u>
SESE Sec. 36	NMSLO	B007520004	Mewbourne
SWSE Sec. 36	NMSLO	E053130000	Chevron
<u>T. 18 S., R. 27 E.</u>	<u>Lessor</u>	<u>Lease Number</u>	<u>Lessee</u>
Lots 1-3, S2N2, & SW4 Sec. 1	BLM	NMNM-557371	Apache
SE4 Sec. 1	BLM	NMNM-016788	ExxonMobil
<u>T. 18 S., R. 28 E.</u>	<u>Lessor</u>	<u>Lease Number</u>	<u>Lessee</u>
Lot 4 Sec. 6	NMSLO	OG4307-2	Altura Occidental



APACHE CORPORATION  
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SEnw, NESW, & Lots 5 & 6 Sec. 6 NMSLO B11594-4 BP  
Lot 7 Sec. 6 NMSLO E7179-1 ConocoPhillips

VI. Thirty of the 37 existing wells that are within a half-mile penetrated the Abo. Twenty-eight of the 30 penetrators are Abo wells, 1 is a deeper SWD well, and 1 is a deeper gas well. Four of the Abo well penetrators are plugged and abandoned. Closest Abo well is a producer (203) is 608' east. A table abstracting construction details and history of all 30 penetrators and diagrams of the 4 plugged penetrators are in Exhibit G.

The 37 existing wells and 2 approved, but not yet drilled, wells that are within a half-mile (regardless of depth) are:

API	Operator	WELL	Status	Section	Township	Range	TVD	Zone(s)	Distance (feet)
3001522656	Apache	EAU 203	O	1	18.0S	27E	6225	Empire; Abo	608
3001527163	Mewbourne	Chalk Bluff Fed. Com 3	G	1	18.0S	27E	10150	Illinois Camp; Morrow, North (Gas)	790
3001500711	Apache	EAU 020C	O	1	18.0S	27E	6218	Empire; Abo	815
3001533473	Apache	AAO Fed. 7	O	1	18.0S	27E	4100	Red Lake; Queen - Grayburg - SA	823
3001500709	Apache	EAU 019C	P & A	1	18.0S	27E	6205	Empire; Abo	858
3001522657	Apache	EAU 193	O	1	18.0S	27E	6225	Empire; Abo	927
3001500697	BP	EAU 020K	P & A	1	18.0S	27E	6185	Empire; Abo	973
3001500696	Apache	EAU 019Q	O	1	18.0S	27E	6180	Empire; Abo	988

## APACHE CORPORATION

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## EMPIRE ABO UNIT 202

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3001521873	Apache	EAU 191A	O	1	18.0S	27E	6350	Empire; Abo	1187
3001521552	Apache	EAU 191	O	1	18.0S	27E	6259	Empire; Abo	1207
3001539898	Apache	EAU 412	no spud	1	18.0S	27E	6300	Empire; Abo	1264
3001533784	Apache	AAO Fed. 8	O	1	18.0S	27E	4310	Red Lake; Queen - Grayburg - SA	1279
3001521553	Apache	EAU 201	O	1	18.0S	27E	6225	Empire; Abo	1285
3001522658	Apache	EAU 194	O	1	18.0S	27E	6325	Empire; Abo	1454
3001523116	Apache	EAU 213	O	6	18.0S	28E	6242	Empire; Abo	1469
3001532310	Apache	AAO Fed. 4	O	1	18.0S	27E	4100	Red Lake; Queen - Grayburg - SA	1528
3001522559	Apache	EAU 184	O	1	18.0S	27E	6200	Empire; Abo	1548
3001522637	Apache	EAU 212	O	6	18.0S	28E	6267	Empire; Abo	1707
3001539899	Apache	EAU 413	no spud	1	18.0S	27E	6300	Empire; Abo	1868
3001534576	Apache	AAO Fed. 10	O	1	18.0S	27E	4000	Red Lake; Glorieta Yeso, NE	1885
3001501215	Apache	EAU 020D	O	1	18.0S	27E	6118	Empire; Abo	1924
3001521792	Apache	EAU 182	O	1	18.0S	27E	6369	Empire; Abo	1939
3001520394	ARCO	EAU L 019	P & A	1	18.0S	27E	6300	Empire; Abo	1957
3001500708	Apache	EAU 019B	O	1	18.0S	27E	6078	Empire; Abo	1961
3001500706	Apache	EAU 018A	O	1	18.0S	27E	6087	Empire; Abo	1984

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3001534071	Apache	AAO Fed. 6	O	1	18.0S	27E	4000	Red Lake; Queen - Grayburg - SA	2023
3001500699	Apache	EAU 020B	O	1	18.0S	27E	6250	Empire; Abo	2025
3001502619	Apache	EAU 021C	O	6	18.0S	28E	6202	Empire; Abo	2030
3001502622	Apache	EAU 021D	O	6	18.0S	28E	6194	Empire; Abo	2031
3001500707	Apache	EAU 018B	O	1	18.0S	27E	6163	Empire; Abo	2080
3001500698	ARCO	EAU 191	P & A	1	18.0S	27E	6365	Empire; Abo	2145
3001532309	Apache	AAO Fed. 3	O	1	18.0S	27E	4125	Red Lake; Queen - Grayburg - SA	2200
3001531087	Marbob	LP State 3	P & A	6	18.0S	28E	4466	Artesia; Queen - Grayburg - SA	2381
3001523548	Apache	EAU 211A	O	6	18.0S	28E	6311	Empire; Abo	2434
3001522096	Apache	EAU 183	O	1	18.0S	27E	6210	Empire; Abo	2457
3001502613	Apache	EAU 021B	O	6	18.0S	28E	6119	Empire; Abo	2473
3001522560	Apache	EAU 192	O	1	18.0S	27E	6250	Empire; Abo	2483
3001526575	Navajo Refining	WDW 3	I	1	18.0S	27E	10119	Cisco & Canyon	2523
3001521395	Apache	EAU 211	O	6	18.0S	28E	6200	Empire; Abo	2615
3001532308	Apache	AAO Fed. 2	O	1	18.0S	27E	4150	Red Lake; Queen - Grayburg - SA	2667

- VII. 1. Average injection rate will be 5,000 bwpd.  
Maximum injection rate will be 7,500 bwpd.
2. System will be closed.
3. Average injection pressure will be 1,000 psi.  
Maximum injection pressure will be 1,122 psi ( $= 0.2 \text{ psi/foot} \times 5,614'$  (highest perforation)).
4. Injection source will be produced water only from Apache wells in the Empire Abo Unit, mainly from the Abo. Apache has >200 wells in the unit. An Abo water analysis is in Exhibit H. No compatibility problems have been reported from the other injection wells in the Unit.
5. Abo is productive within one mile. The #202 well has produced at least 275,944 barrels of oil and 1,226,444 Mcf of gas.

VIII. The Abo (>400' thick in this well) reef extends east to west and is composed of fractured and vugular dolomitized limestone. Closest possible underground source of drinking water above the proposed injection interval are the near surface red beds. Water sands were found at 151' in an oil well (30-015-00739) that is 8,301' west. Surface casing was set at 1,000' and cement circulated to the surface in the #202 well.

According to State Engineer records (Exhibit I) and a January 22, 2014 field inspection, there are no water wells within 2,000 meters (6,561'). Closest water well (RA 08235) is 6,674' southeast. No depth has been reported for that well. No underground source of drinking water is below the proposed injection interval.

Formation tops are:

Rustler = 0'  
Yates = 390'  
Seven Rivers = 570'  
Queen = 1,150'  
Grayburg = 1,550'  
San Andres = 1,950'  
Glorieta = 3,375'  
Yeso = 3,525'  
Tubb = 4,600'  
Abo = 5,554'

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Total Depth: 6,296'

There will be more than a mile of vertical separation between the bottom of the only possible underground water source (red beds) and the top of the Abo.

Produced water has been injected or disposed into zones above (Queen, Grayburg, and San Andres) and below (Cisco and Canyon) the proposed injection interval in 3 wells within Section 1.

IX. The well will be stimulated with acid to clean out scale or fill.

X. GR DLL with RXO, caliper, GR neutron, and GR collar logs were run and are on file with the NMOCD.

XI. According to the State Engineer's records and a January 22, 2014 field inspection, there are no water wells within a one-mile radius.

XII. Apache is not aware of any geologic or engineering data that may indicate that the Abo is in hydrologic connection with any underground sources of water. Closest Quaternary fault is 56 miles southwest (Exhibit J). At least 127 injection and 13 saltwater disposal wells are active in the Abo.

XIII. Notice (this application) has been sent (Exhibit K) to the surface owner (BLM), all oil and gas lessees or Abo operating right holders (see below), and all oil and gas lessors (only New Mexico State Land Office and BLM) within a half-mile:

BLM  
BP  
Chevron  
ConocoPhillips Company  
ExxonMobil

APACHE CORPORATION  
EMPIRE ABO UNIT 202  
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Mewbourne  
NM State Land Office  
Oxy

A legal ad (see Exhibit L) was published on November 15, 2013.

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section

Operator <b>Atlantic Richfield Company</b>			Lease <b>Empire Abo Unit J</b>		Well No. <b>202</b>
Unit Letter <b>H</b>	Section <b>1</b>	Township <b>18 South</b>	Range <b>27 East</b>	County <b>Eddy</b>	
Actual Footage Location of Well:					
<b>2490</b>	feet from the	<b>North</b>	line and	<b>1299</b>	feet from the
					<b>East</b>
Ground Level Elev. <b>3656.1</b>	Producing Formation <b>Abo Reef</b>		Port <b>Empire Abo</b>		Indicated Accuracy <b>40</b>

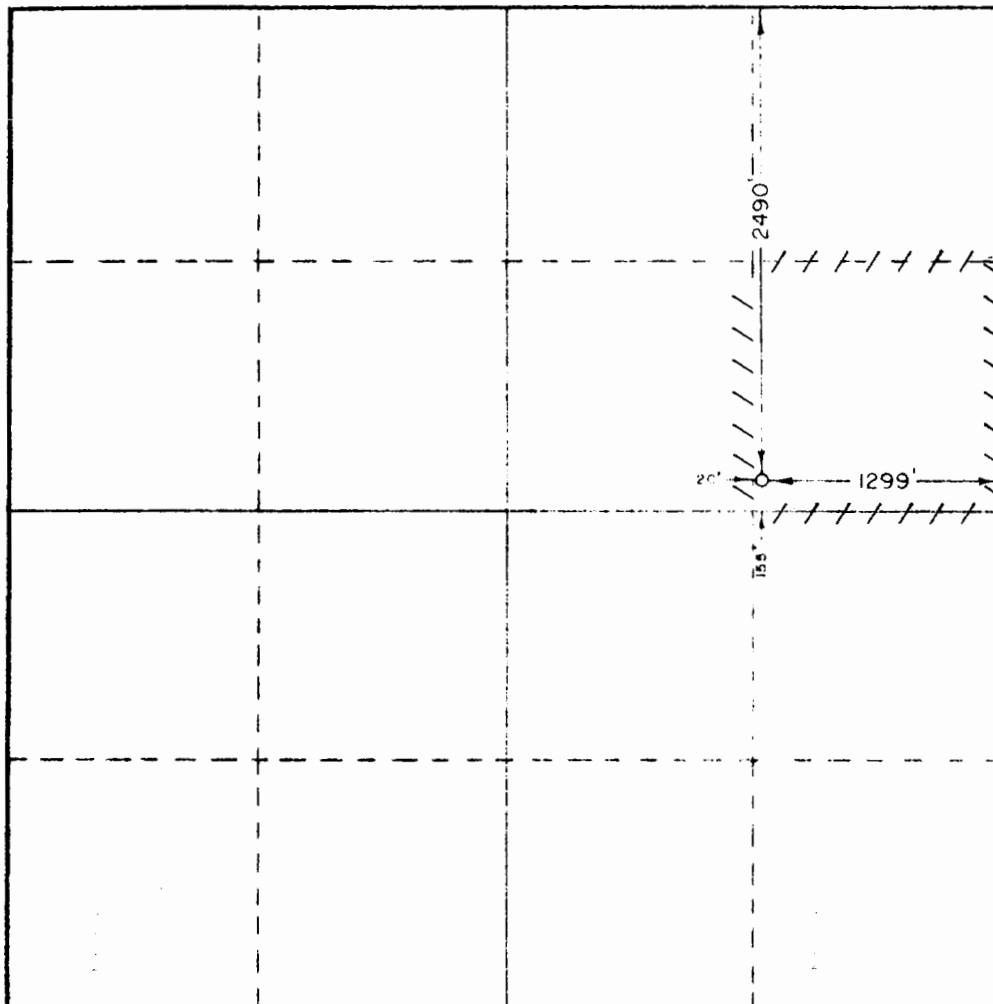
1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes    ☐ No    If answer is "yes," type of consolidation Unitization

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

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

**RECEIVED**



**MAR 31 1976**  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name \_\_\_\_\_  
Position \_\_\_\_\_  
Dist. Drlg. Supv. \_\_\_\_\_

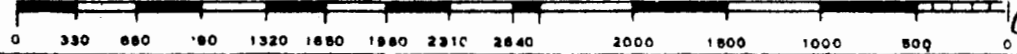
Company  
**Atlantic Richfield Company**

Date  
**3/29/76**

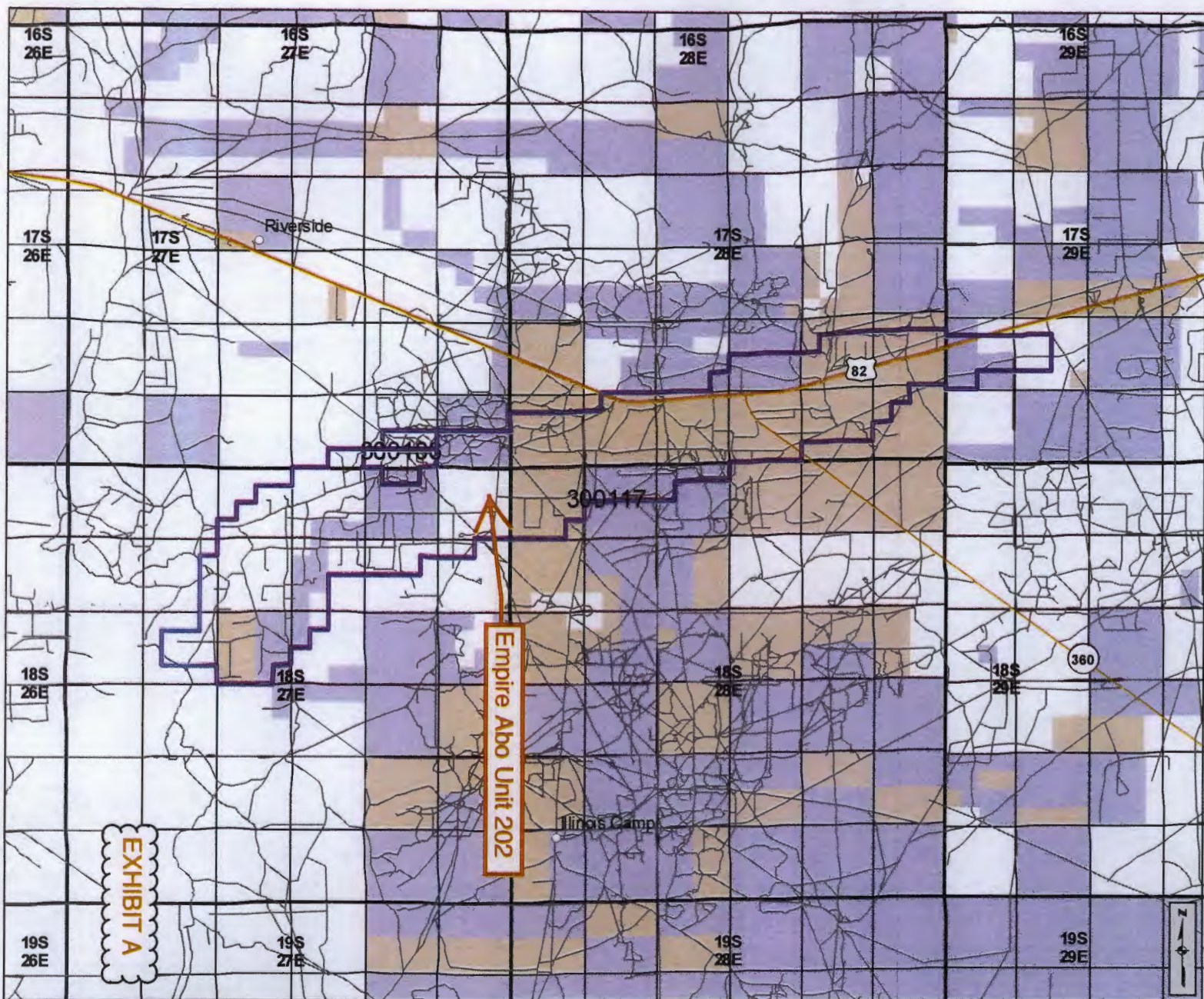
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision. This is true and correct to the best of my knowledge and belief.

**EXHIBIT A**

Date \_\_\_\_\_  
Registered Professional Engineer  
and Surveyor  
**676**  
Certified by \_\_\_\_\_  
**JOHN W. WESS**







#### Point Locations

- County Seat
- ▲ SLO District Offices
- City, Town or Village
- Volcanic Vents
- Highway Mileposts

#### NMOCD Oil and Gas Wells

- Oil
- Injection
- Carbon Dioxide
- Miscellaneous
- ☆ Gas
- ◆ Water
- ◇ DA or PA
- △ Salt Water Disposal

#### Federal Minerals

- All Minerals
- Coal Only
- Oil and Gas Only
- Oil, Gas and Coal Only
- Other Minerals

#### State Trust Lands

- Surface Estate
- Subsurface Estate
- Both Estates

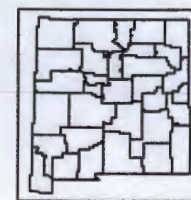
#### NMSLO Leasing

- Option Agreement
- Commercial Lease
- Minerals Lease
- Oil and Gas Lease
- Agricultural Lease
- Not Available for Oil and Gas Leasing
- Restriction Influences Oil and Gas Leasing

#### Other Boundaries

- Continental Divide
- State Boundary
- County Boundaries
- Oil and Gas Unit Boundary
- Participating Areas in Units
- Geologic Regions
- Potash Enclave (NMOCD R-111-P)

For detailed legend of the Geologic Map of New Mexico, please see <http://geoinfo.nmt.edu/>



[www.nmstatelands.org](http://www.nmstatelands.org)

## New Mexico State Land Office Oil, Gas, and Minerals

0 0.45 0.9 1.8 2.7 3.6  
Miles  
Universal Transverse Mercator Projection, Zone 13  
1983 North American Datum

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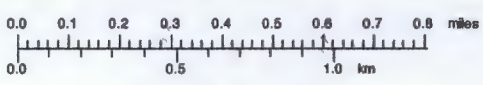
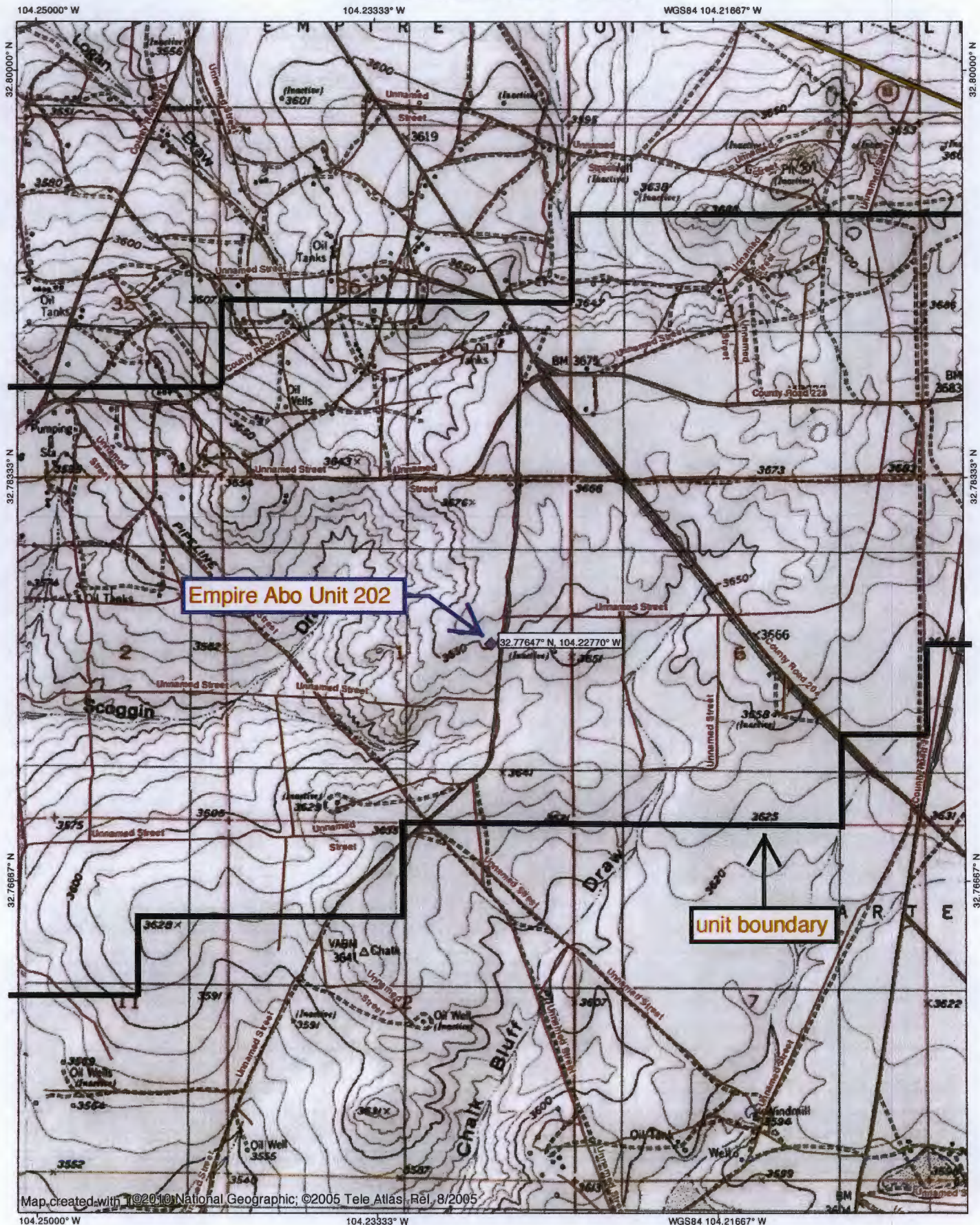


EXHIBIT A



GL=3656'  
KB=3666'  
Spud Date: 4/17/1976

# Apache Corporation – Empire Abo Unit 202

## Wellbore Diagram – Current Status

Date: 12/19/11  
S Hardin

API: 30-015-21783

### Surface Location



2490' FNL & 1299' FEL, Unit H  
Sec 1, T18S, R27E, Eddy County, NM

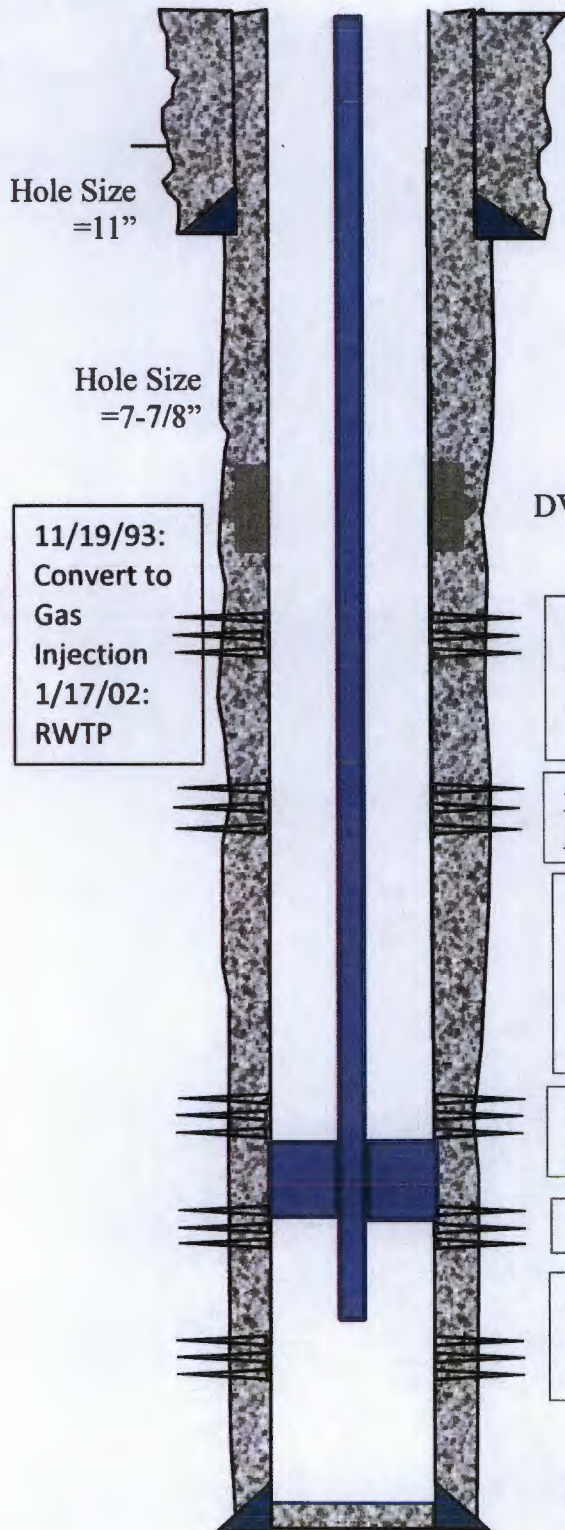
### Surface Casing

8-5/8" 24# K-55 @ 1000' w/ 350 sx to surface

### TUBING DETAIL

Qty	Description	Length	Depth
199	2-3/8"		6157'

SN @ 6157'



11/19/93:  
Convert to  
Gas  
Injection  
1/17/02:  
RWTP

DVT @ 4009'

1/11/02: Perf @ 5614'-5618', 5625'-5628', 5660', 5663'-5670', 5685'-5691', 5710'-5714', 5719'-5724', 5730'-5740', 5793' w/ 2 JSPF  
Acidized w/ 6500 gals 15% HCL w/ mycellular chemical

3/3/94: Perf Abo @ 5870'-6130', 168 holes  
Acidized w/ 5000 gals 15% NEFE

5/76: Perf Abo @ 6141'-61' w/ 2 JSPF, 42 holes  
Acidized w/ 3000 gals 15% HCL-LSTNE & 3000 gals 15% HCL/xylene  
4/79: Sq'd perfs w/ 100 sx Cl C w/ .6% Halad-9, 50 sx Cl C w/ 2% CaCl & 35 sx Cl C w/ .3% CFR-2

2/28/94: Perf Abo @ 6141'-61', 4 holes  
Acidized w/ 3500 gals 15% NEFE

11/17/92: Perf Abo @ 6176'-6206' w/ 2 JSPF

4/79: Perf @ 6250'-60' w/ 2 JSPF  
Acidized w/ 4650 gals 15% HCL-LSTNE-FE acid, 1000 gals 10# gelled CaCl water, 2000 gals gelled LC

### Production Casing

5-1/2" 15.5#/14# J-55/K-55 @ 6296' w/ 550 sx (1st stage) & 1000 sx (2nd stage) to surface

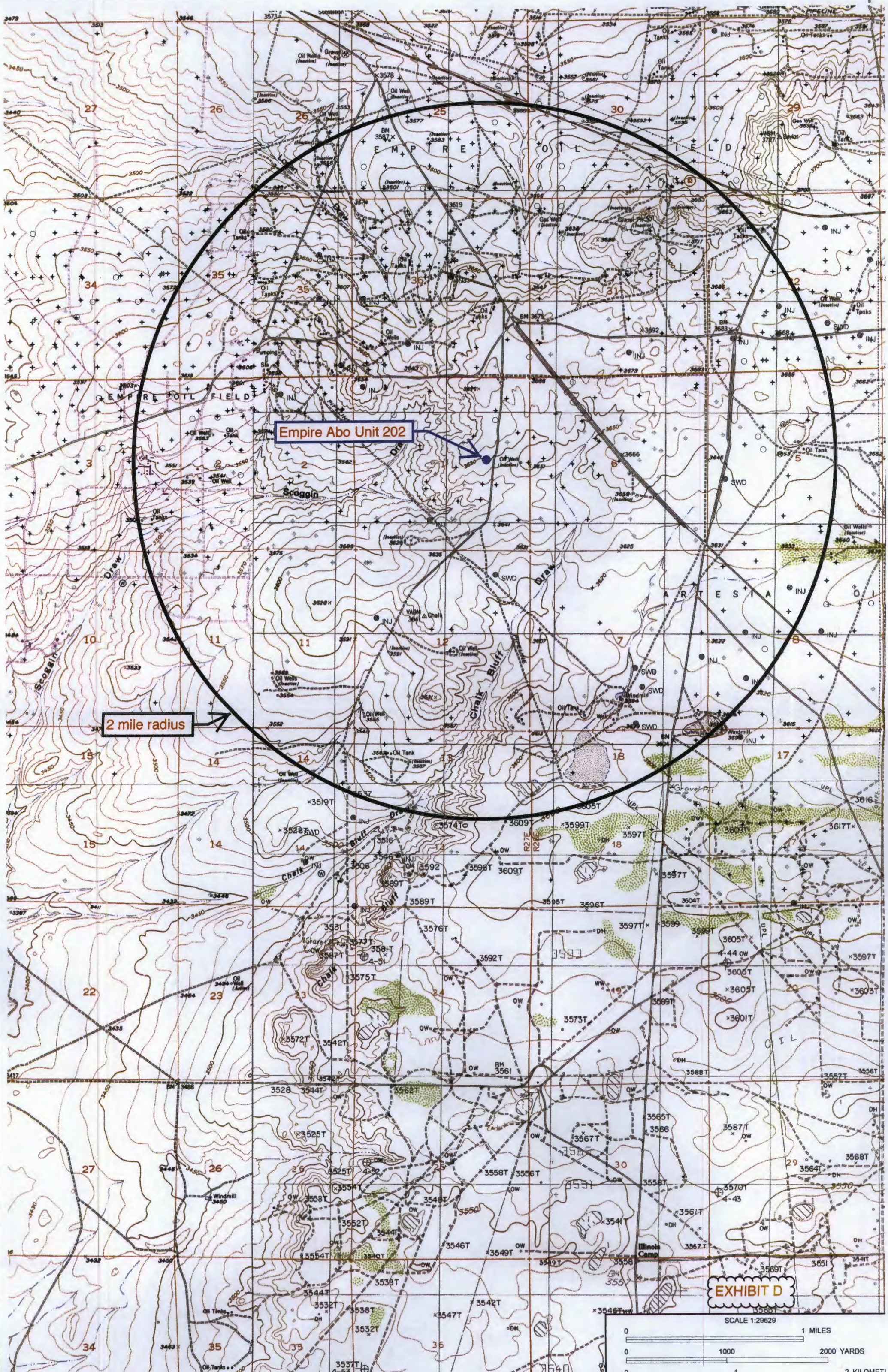
PBTD = 6270'  
TD = 6296'

EXHIBIT B





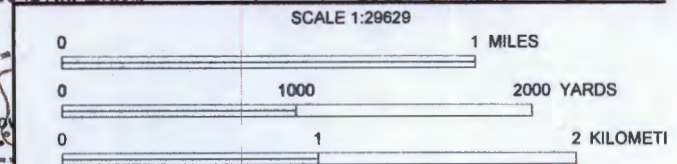




Empire Abo Unit 202

2 mile radius

EXHIBIT D







### Cartographic Features

- County Boundaries
- County Seats
- City, Town or Village
- SLO District Offices
- SLO District Boundary
- Hwy Mileposts
- Interstate
- US Hwy
- NM Hwy
- Local Road
- Continental Divide

### Federal Minerals Ownership

- All Minerals
- Coal Only
- Oil and Gas Only
- Oil, Gas and Coal Only
- Other Minerals

### State Trust Lands

- Surface Estate
- Subsurface Estate
- Surface and Subsurface Estate

### State Leases

- Oil and Gas Leases
- Agricultural Leases
- Commercial Leases
- Minerals Leases
- Not Available for Oil and Gas Leasing
- Oil and Gas Leasing Influenced by Restriction

### Oil and Gas Related Features

- Oil and Gas Unit Boundary
- Participating Areas in Units
- Geologic Regions
- Volcanic Vents
- NMOCD Order R-111-P Potash Enclave Outline

### NMOCD Oil and Gas Wells

- CO<sub>2</sub>
- Injection
- Oil
- Water
- Gas
- Miscellaneous
- Salt Water Disposal
- DA or PA

## New Mexico State Land Office Oil, Gas and Minerals

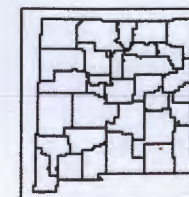
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Miles

Universal Transverse Mercator Projection, Zone 13  
1983 North American Datum

**EXHIBIT E**

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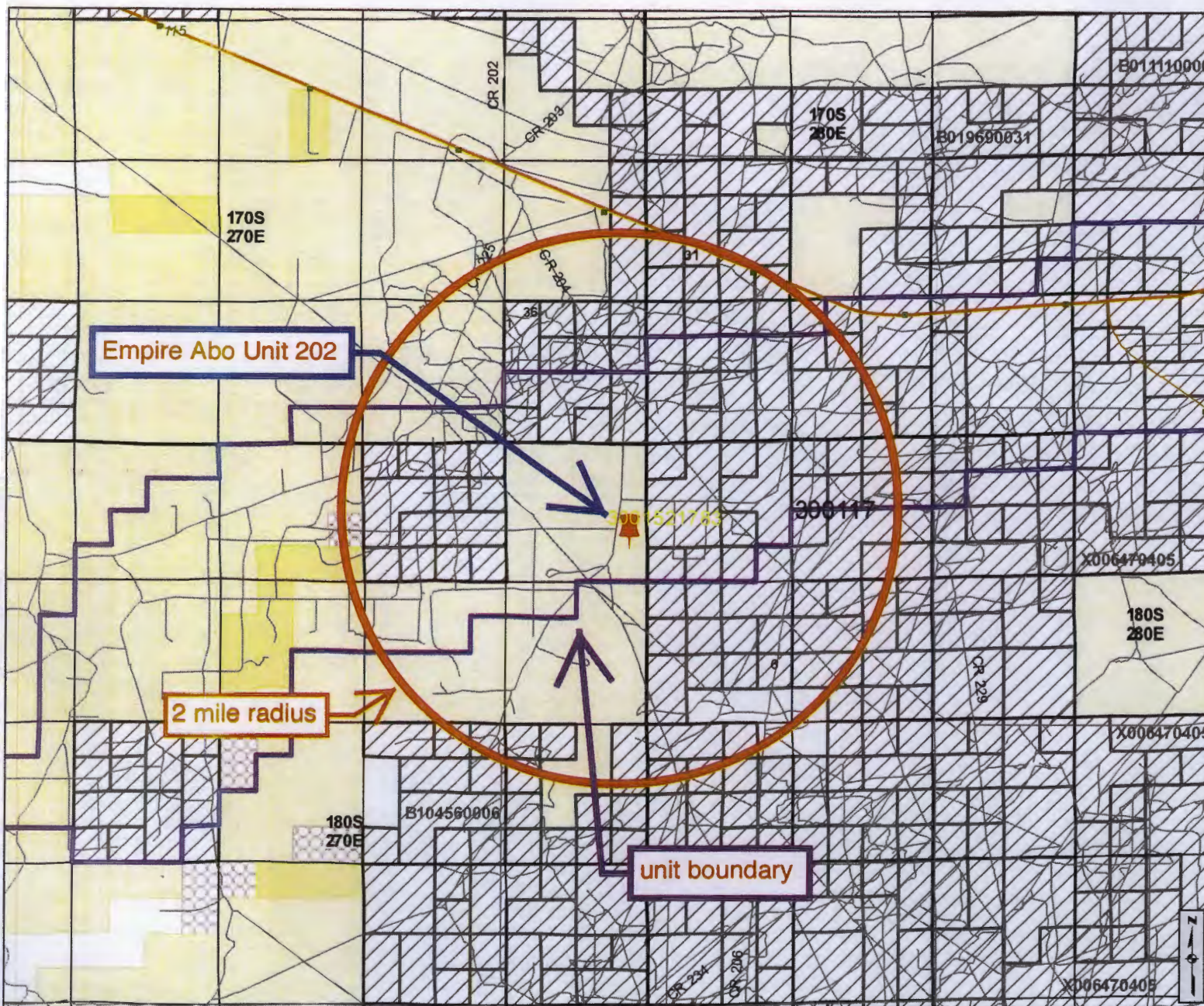
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www.nmstateands.org

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### Cartographic Features

- County Boundaries
- County Seats
- City, Town or Village
- SLO District Offices
- SLO District Boundary
- Hwy Mileposts
- Interstate
- NM Hwy
- Continental Divide
- US Hwy
- Local Road

### Federal Minerals Ownership

- All Minerals
- Coal Only
- Oil and Gas Only
- Oil, Gas and Coal Only
- Other Minerals

### State Trust Lands

- Surface Estate
- Subsurface Estate
- Surface and Subsurface Estate

### State Leases

- Oil and Gas Leases
- Agricultural Leases
- Commercial Leases
- Minerals Leases
- Not Available for Oil and Gas Leasing
- Oil and Gas Leasing Influenced by Restriction

### Oil and Gas Related Features

- Oil and Gas Unit Boundary
- Participating Areas in Units
- Geologic Regions
- Volcanic Vents
- NMOC Order R-111-P Potash Enclave Outline

### NMOC Oil and Gas Wells

- CO<sub>2</sub>
- Injection
- Oil
- Water
- Gas
- Miscellaneous
- Salt Water Disposal
- DA or PA

New Mexico State Land Office  
Oil, Gas and Minerals

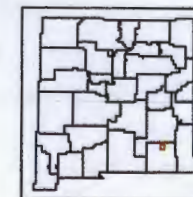
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Miles  
Universal Transverse Mercator Projection, Zone 13  
1983 North American Datum

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Sorted by distance from EAU 202

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
EAU 203	9/13/78	6225	Empire-Abo	Oil	11	8.625	1004	700 sx	no report	did not circulate
30-015-22656					7.875	5.5	6222	1325 sx	GL	circulated 165 sx
H-1-18s-27e										
Chalk Bluff Fed Com 003	11/24/92	10150	N. Illinois Camp Morrow	Gas	17.5	13.375	700	515 sx	GL	circulated 50 sx to pit
30-015-27163					12.25	9.625	2600	840 sx	GL	circulated 50 sx to pit
I-1-18s-27e					8.75	7	8968	1200 sx	no report	no report
EAU 020C	9/15/59	6218	Empire-Abo	P & A	11	8.625	1499	no report	GL	circulated
30-015-00711					7.875	4.5	6218	850 sx	4300	well bore diagram
H-1-18s-27e										
EAU 019C	7/6/59	6205	Empire-Abo	P & A	12.25	8.625	1475	800 sx	GL	circulated
30-015-00709					7.875	4.5	6205	600 sx	3619	calculated
G-1-18s-27e										
EAU 193	9/29/78	6225	Empire-Abo	Oil	11	8.625	1006	700 sx	GL	circulated 175 sx to pit
30-015-22657					7.875	5.5	6225	1300 sx	GL	circulated 130 sx to pit
J-1-18s-27e										
EAU 020K	8/31/59	6185	Empire-Abo	P & A	11	8.625	1522	850 sx	GL	circulated
30-015-00697					7.875	4.5	6185	200 sx	5500	estimated, per diagram
I-1-18s-27e										
EAU 019Q	7/14/59	6180	Empire-Abo	P & A	11	8.625	1516	850 sx	GL	circulated
30-015-00696					7.875	4.5	6180	170 sx	5170	well bore diagram
J-1-18s-27e										
EAU 191A	8/27/76	6350	Empire-Abo	Oil	11	8.625	1000	400 sx	GL	circ. 5 yds Redi-Mix to surface
30-015-21873					7.875	5.5	6350	1500 sx	GL	circulated 150 sx to pit
J-1-18s-27e										

Sorted by distance from EAU 202

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
EAU J 191	8/5/75	6259	Empire-Abo	P & A	11	8.625	1001	550 sx	GL	circ. 10 yds Red-Mix to surface
30-015-21552 G-1-18s-27e					7.875	5.5	6259	1400 sx	GL	circulated 205 sx to pit
EAU 412	no spud yet	planned 6300	Empire-Abo	Oil	12.25	8.625	370	310 sx	GL	planned cement to surf.
30-015-39898 A-1-18s-27e					7.875	5.5	6300	1035 sx	GL	planned cement to surf.
EAU 201	6/28/75	6225	Empire-Abo	Oil	11	8.625	1012	525 sx	GL	cemented 50 yds Redi-Mix
30-015-21553 H-1-18s-27e					7.875	5.5	6225	1150 sx	GL	circulated 120 sx
EAU 194	10/18/78	6325	Empire-Abo	Oil	11	8.625	998	750 sx	GL	circulated 10 sx to pit
30-015-22658 J-1-18s-27e					7.875	5.5	6325	1300 sx	GL	circulated 129 sx to pit
EAU 213	3/10/80	6242	Empire-Abo	Oil	12.25	9.625	1000	500 sx	GL	cemented 2 yds Redi-Mix
30-015-23116 E-6-18s-28e					8.75	7	6115	1350 sx	GL	circulated 315 sx
EAU 184	6/20/78	6200	Empire-Abo	P & A	11	8.625	1010	600 sx	GL	circulated 125 sx to pit
30-015-22559 K-1-18s-27e					7.875	5.5	6200	1055 sx	GL	circulated 40 sx to pit
EAU 212	12/4/78	6267	Empire-Abo	Oil	11	8.625	553	600 sx	GL	circulated 5 yds Redi-Mix
30-015-22637 E-6-18s-28e					7.875	5.5	6250	1650 sx	GL	circulated 65 sx
EAU 413	no spud yet	planned 6300	Empire-Abo	Oil	12.25	8.625	350	310 sx	GL	planned cement to surf.
30-015-39899 C-1-18s-27e					7.875	5.5	6300	1035 sx	GL	planned cement to surf.
EAU 020D	10/7/59	6118	Empire-Abo	Oil	11	8.625	1481	no report	GL	circulated
30-015-01215 A-1-18s-27e					7.875	4.5	6133	850 sx	no report	no report

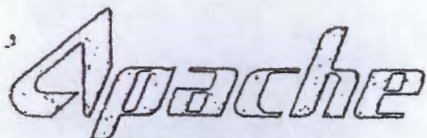


Sorted by distance from EAU 202

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
EAU 182	5/6/76	6369	Empire-Abo	Oil	11	8.625	1003	400 sx	GL	circulated 60 sx to pit
30-015-21792					7.875	5.5	6369	1400 sx	GL	circulated 125 sx to pit
K-1-18s-27e										
EAU L 019	3/16/71	6300	Empire-Abo	P & A	11	8.625	1531	900 sx	GL	circulated
30-015-20394					7.875	4.5	6300	450 sx	3810	CBL
O-1-18s-27e					squeeze	job	3780	1000 sx	GL	circulated
EAU 019B	6/3/59	6078	Empire-Abo	P & A	12.25	8.625	1485	750 sx	GL	calculated
30-015-00708					7.875	4.5	6078	700 sx	3036	calculated
B-1-18s-27e										
EAU 018A	4/24/59	6087	Empire-Abo	Oil	12.25	8.625	1445	750 sx	GL	report
30-015-00706					7.875	4.5	6014	850 sx	no report	no report
F-1-18s-27e										
EAU 020B	11/16/61	6250	Empire-Abo	Oil	11	8.625	1494	820 sx	no report	no report
30-015-00699					7.875	4.5	6250	850 sx	2500	temperature survey
P-1-18s-27e										
EAU 021C	10/8/59	6202	Empire-Abo	Oil	no report	8.625	1493	700 sx	GL	circulated
30-015-02619					no report	5.5	6241	650 sx	no report	no report
E-6-18s-28e										
EAU 021D	12/27/59	6194	Empire-Abo	Oil	12.25	8.625	1003	550 sx	GL	circulated
30-015-02622					7.875	5.5	6194	850 sx	125	no report
L-6-18s-28e										
EAU 018B	4/23/59	6163	Empire-Abo	Oil	12.25	8.625	1507	600 sx	no report	no report
30-015-00707					7.875	4.5	6163	600 sx	no report	no report
K-1-18s-27e										
EAU L 191	10/7/59	5400	San Andres-Yeso	P & A	no report	8.625	1522	850 sx	GL	circulated
30-015-00698					7.875	5.5	2042	200 sx	GL	reversed 75 sx
O-1-18s-27e		6365	Empire-Abo	P & A	7.875	not set	not set	N/A	N/A	N/A

Sorted by distance from EAU 202

[illegible]



WELL BORE INFO.

G-1-18S-27E

LEASE NAME

Empire Abo Unit

WELL #

19 C

API #

30-015-00709

COUNTY

Eddy

P & A: 2-18-13

0  
623  
1245  
1868  
2490  
3113  
3736  
4358  
4981  
5603  
6226

circulate  
90 bbl MLF

12 1/4" Hole  
8 5/8" 24# @ 1473'  
w/ 800 sx cmt cal to surf

TOC cal @ 3619'

2 3/8" tbg & TAC @ 6031'

7 7/8" Hole  
4 1/2" 9.5# @ 6226'  
w/ 600 sx cmt TOC cal @ 3619'

PBTD @ 6090'  
TD @ 6205

perf @ 690'  
squeeze 200 sx from 690' to surface

perf @ 1700'  
could not pump into perfs  
spot 25 sx from 1750' to 1335'

25 sx from 3900' to 3482'

25 sx from 6090 (CIBP) to 5603'

Top of Abo @ 5850' Abo perfs @ 5623'-6038'

CIBP @ 6090' (97)  
Abo perfs @ 6100'-6136'

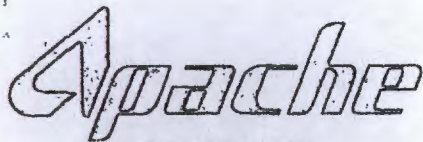
Top of Yates  
@ 640'

Top of San  
Andres @  
1650'

Top of  
Glorieta @  
3850'

EXHIBIT G

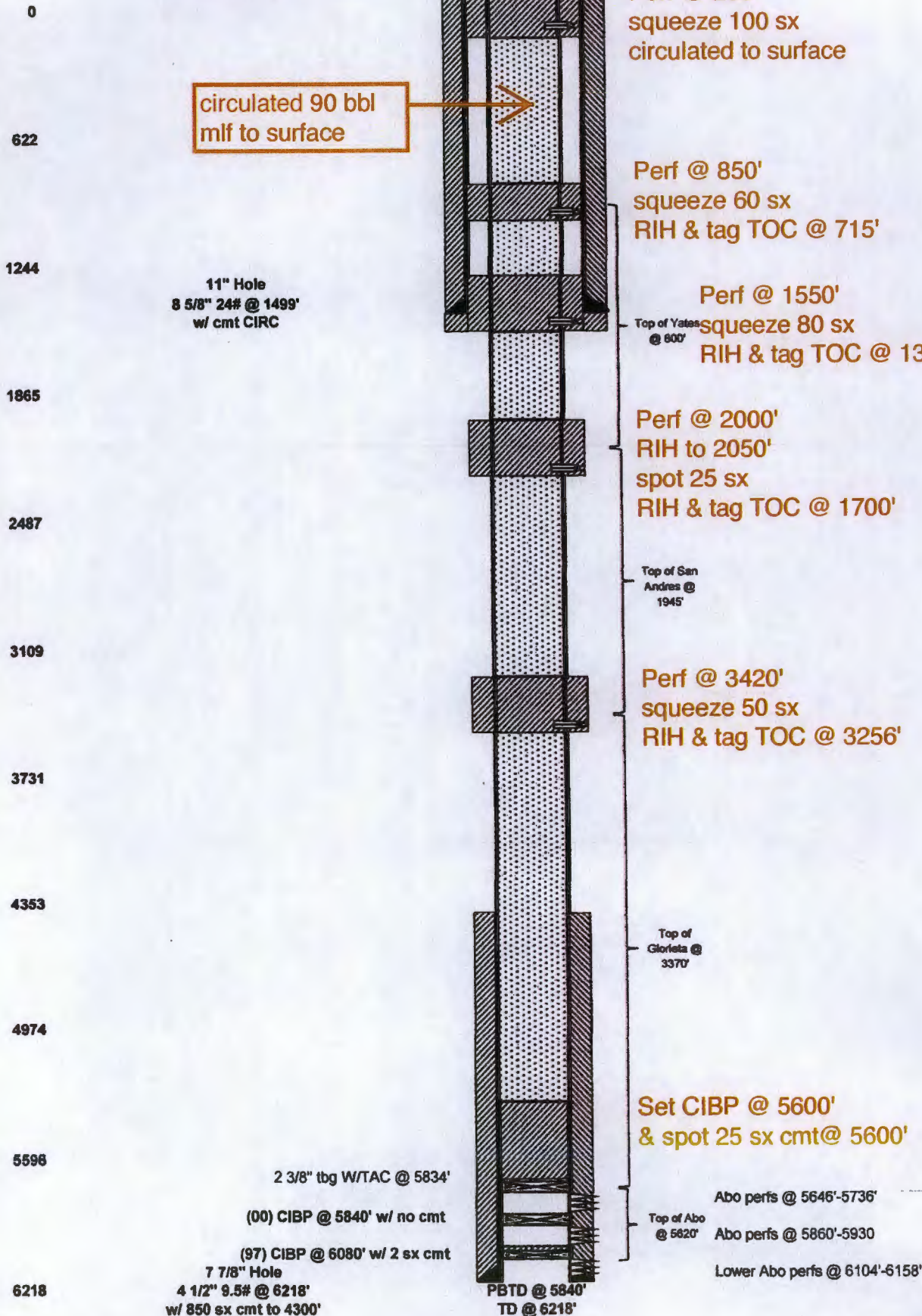




WELL BORE INFO.

H-1-18s-27e

LEASE NAME Empire ABO Unit  
WELL # 20 C  
API # 30-015-00711  
COUNTY Eddy  
P & A: 7-8-13

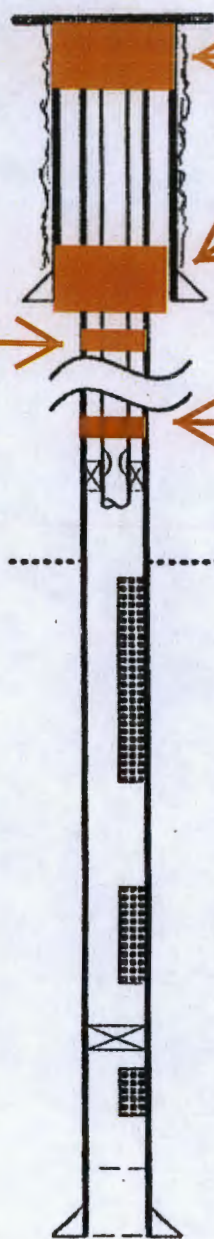




Empire Abo Unit 20 K  
30-015-00697  
I-1-18s-27e  
P & A: 1-5-03

# Empire Abo Unit 'K' 20

Potential  
Perforation  
Zones



--- KB at 3641 above sea level (Used as the Flowing well)

perf @ 1572'  
50 sx & tag cmt @ 1425'

perf @ 60' then circ. 75'  
RIH & tag plug - no plug  
RU & circ. 95 sx & tag cmt @ 45'  
pump 25 sx  
RIH & tag cmt @ 20'  
Fill csg to surface

35 sx  
3039' - 2737'

--- 8-5/8" - 24# casing set at 1522' (11" hole) - cmt. Circ.  
--- Top of Cement unknown, cmt'd w/ 200 sx - 4 1/2 csg.  
Est. TOC @ 5500'

CIBP @ 5840'  
+ 25 sx

--- PKR set at 5924', SN set at 5915'  
Tubing: 190 jts (5903') 2 3/8", 4.7#, 8rd, J-55

--- Top of Abo at 5949'

--- Perforations at 5956' - 6034' w/ 2 JSFF

--- Perforations at 6070' - 6122'

--- CR set at 6146'

--- Perforations at 6159' - 6175' Squeezed off

--- PBTD at 6183'

--- 4-12" - 95# / 116# casing set at 6185' (7 7/8" hole)



*Apurimac*

J-1-18S-27E

LEASE NAME

Empire Abo Unit

WELL #

19 Q

API #

30-015-00696

COUNTY

Eddy

P & A: 7-12-13

0

618

1236

1854

2472

3090

3708

4326

4944

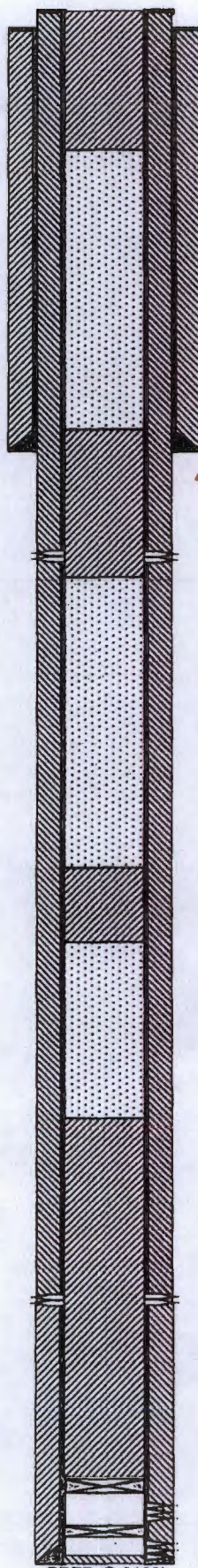
5562

6180

11" Hole  
8 5/8" 24# @ 1516'  
w/ 850 sx to surf

TOC @ 5170'

7 7/8" Hole  
4 1/2" 11.9/9.5# @ 6180'  
w/ 170 sx Drilled TOC @ 5170'



50 sx 703' - GL

40 sx 2002' - 1306'

25 sx 3537' - 3143'

Top of  
Glorieta @  
3487'

Top of  
Yaso @  
4370'

Top of  
Clearfork  
@ 4520'

set CIBP @ 5850'

100 sx 5850' - 4430'

+ 25 sx 4430' - 4160'

Top of Abo @ 5916'  
Abo perfs @ 5926'-6060'  
CIBP @ 6130' (5/97)  
Abo perfs @ 6144'-6170'

PBTD @ 6130'  
TD @ 6180'

EXHIBIT G



# Apache

WELL BORE INFO.  
G-1-18S-27E

LEASE NAME Empire Abo Unit  
WELL # 191  
API # 30-015-21552  
COUNTY Eddy

P & A: 7-23-13

0  
perf @ 1051'  
could not pump into perf  
RIH to 1101 & spot 45 sx to 832'  
85 sx 832' to surface

626

11' Hole  
8 5/8" 24# @ 1001'  
w/ 550 sx & 10 yds Redi-mix to surf

1252

25 sx @ 1700'

1678

2504

132 bbl MLF  
to surface

3130

3755

80 sx 4311' - 3508'

4381

DV Tool @ 4261'

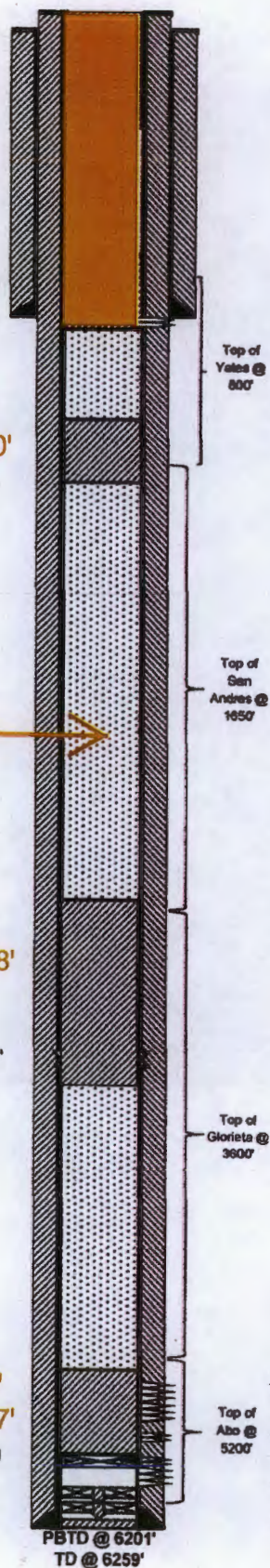
5007

5633

set CIBP @ 6000'  
60 sx 6000' - 5527'  
TAC @ 6048' on 2 3/8" tbg

6259

7 7/8" Hole  
5 1/2" 14# @ 6259'  
w/ 550 sx Stg 1, 850 sx Stg 2 to surf



Abo perms @ 5623'-5998'

Top of Abo @ 5200'  
Perfs @ 5941'-5943' & 6012' sqzd w/ 160 sx

Abo perms @ 6055'-6090'

(12/77) 2 - CIRC @ 6201'

EXHIBIT G



# Apache

## WELL BORE INFO.

K-1-18S-27E

LEASE NAME Empire Abo Unit  
WELL # 184  
API # 30-015-22559  
COUNTY Eddy, NM

P & A: 7-18-13

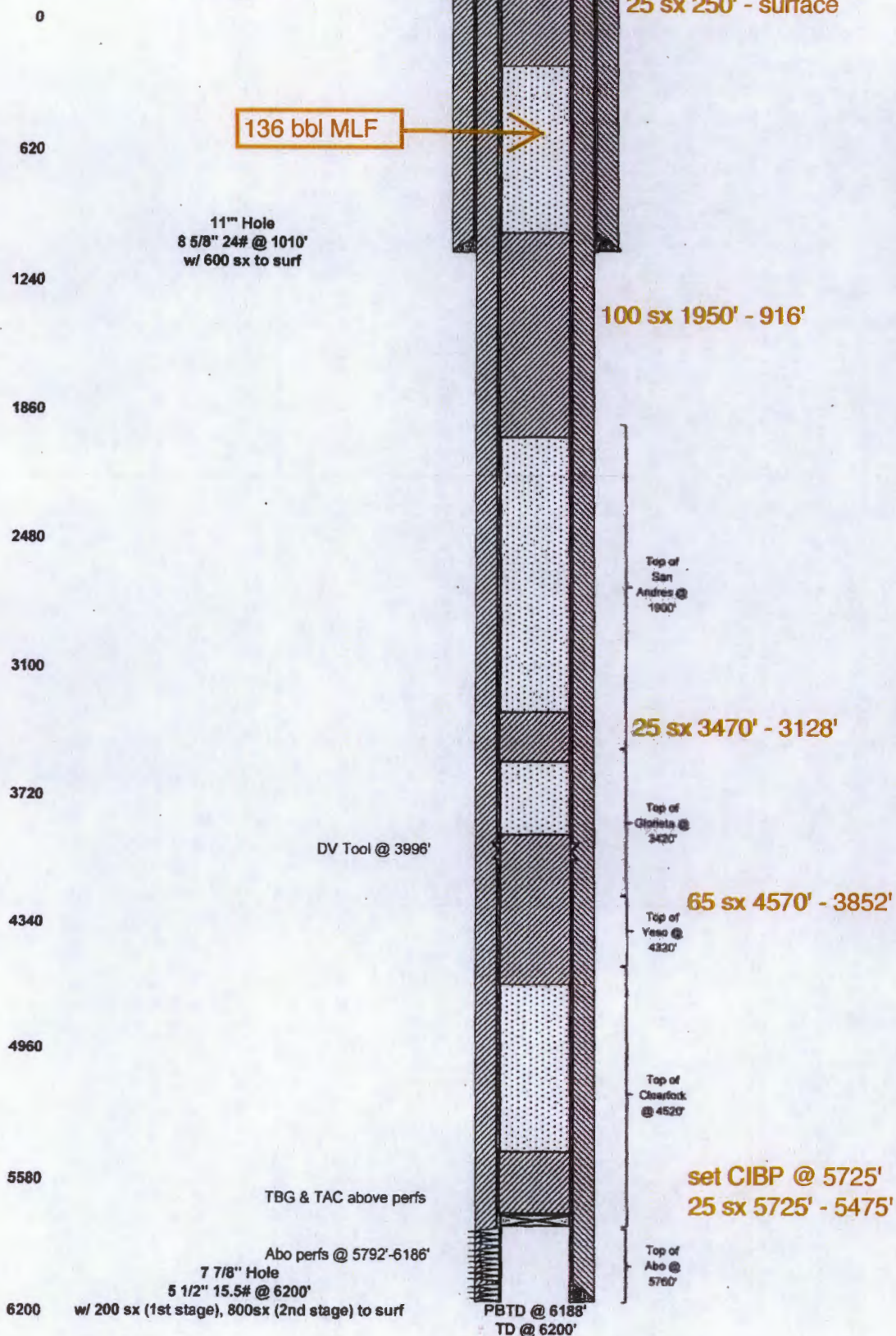


EXHIBIT G

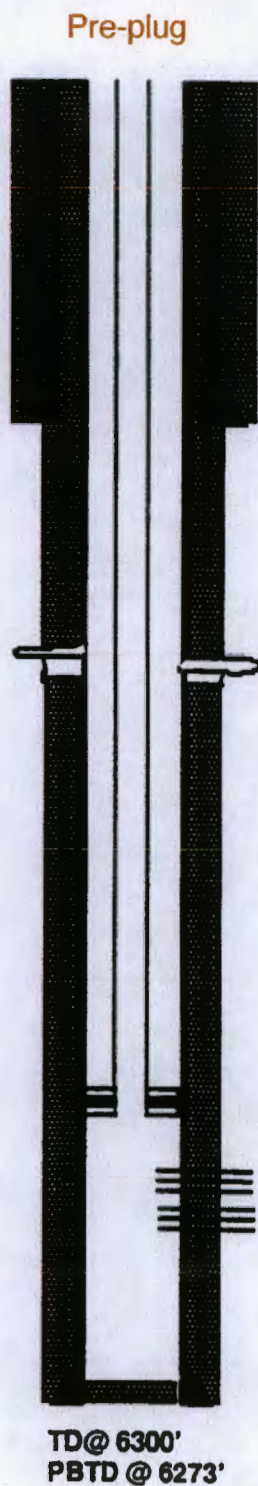


Empire Abo L-19  
 Sec. 1, T18S, R27E  
 953' FSL & 2197' FEL  
 Eddy Co., NM.

aka, Empire Abo Unit 19,  
 aka Empire Abo Unit 5

30-015-20394  
 30-015-20388

P & A: 1-2-92



8-5/8" 24 ppf  
 @ 1531' Cmt. w/ 900 sx

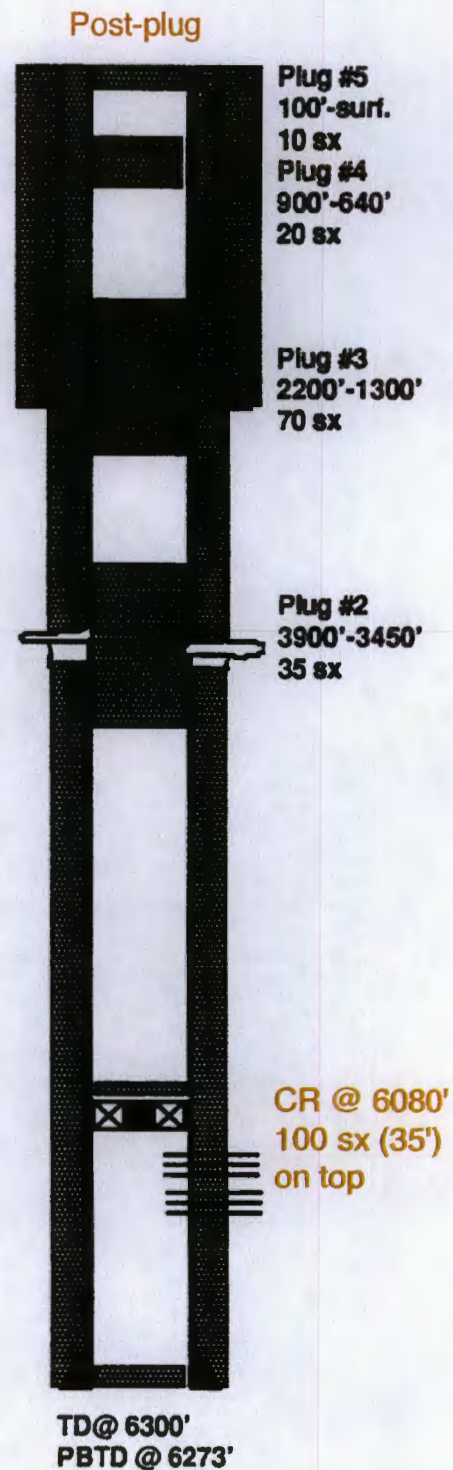
Squeeze holes @ 3780'

2-3/8" 4.7 ppf J-55 EUE Tbg.

Gulberson KVL pkr. w/SN

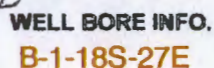
Abo Perfs. 6206'-6216'  
 11 holes.

4-1/2" 9.5 ppf K-55 @  
 6300' Cmt. w/ 450 sx



RDR 9/19/91

EXHIBIT G



LEASE NAME \_\_\_\_\_  
WELL # \_\_\_\_\_  
API # \_\_\_\_\_  
COUNTY \_\_\_\_\_

P & A: 5-22-13

perf @ 250'  
squeeze 80 sx to surface

perf @ 1535'  
squeeze 150 sx  
displace to 1000'

perf @ 1895'  
squeeze 50 sx & displace to 1700'  
vacuum  
resqueeze 50 sx & displace to 1700'

Top of San  
Andrea @  
1845'

25 sx 3415' - 2905'

Top of  
Gloneta @  
3385

set CIBP @ 5650'  
& 25 sx

- Top of Abo      Abo perfs @ 5715'-6028'

12 1/4 Hole  
8 5/8" 24# @ 1485'  
w/ 750 ex Cal to surf

TOC Cal @ 3036'

PBTD @ 6039'  
TD @ 6078'

7 7/8" Hole  
4 1/2" 9.5# @ 6078'  
w/ 700 sx Cal TOC @ 3036'

EXHIBIT G

35 sx GL - 100'

90 sx 575' - 900'

80 sx 1150' - 1580'

30 sx 1650' - 1960'

200 sx 2000' - 5400'

850 sx & to surface

8-5/8" set @ 1522'

200 sx & to surface

5-1/2" set @ 2050'

Open hole  
TD - 2050'

TD 6365'

EXHIBIT G



### General Information About: Sample 5343

GREEN B

API	3001503183	Sample Number	
Unit/Section/ Township/Range	N / 29 / 17S / 29E	Field	GRAYBURG-JACKSON
County	Eddy	Formation	ABO
State	NM	Depth	
Lat/Long	32.79889 , -104.09750	Sample Source	UNKNOWN
TDS (mg/L)	29400	Water Type	
Sample Date(MM/DD/YYYY)		Analysis Date(MM/DD/YYYY)	
Remarks/Description			





#### Cation Information (mg/L)

#### Anion Information (mg/L)

Potassium (K)		Sulfate (SO)	2800
Sodium (Na)		Chloride (Cl)	13700
Calcium (Ca)		Carbonate (CO <sub>3</sub> )	
Magnesium (Mg)		Bicarbonate (HCO <sub>3</sub> )	2520
Barium (Ba)		Hydroxide (OH)	
Manganese (Mn)		Hydrogen Sulfide (H <sub>2</sub> S)	
Strontium (Sr)		Carbon Dioxide (CO <sub>2</sub> )	
Iron (Fe)		Oxygen (O)	

EXHIBIT H



(acre ft per annum)					C=the file is closed)		(quarters are smallest to largest)				(NAD83 UTM in meters)							
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q q q				X	Y	Distance		
										6416	4	Sec	Tws				Rng	
<a href="#">RA 08235</a>		STK		1.43 BOGLE FARMS	ED	<a href="#">RA 06235</a>					07	18S	28E	573537	3625134*		2035	
<a href="#">RA 02996</a>		DOM		3 PATON BROTHERS	ED	<a href="#">RA 02996</a>			2	3	1	02	18S	27E	569808	3627025*		2531
<a href="#">RA 08236</a>		STK		1 BOGLE FARMS	ED	<a href="#">RA 08236</a>			3	3	08	18S	28E	574557	3624563*		3138	
<a href="#">RA 08237</a>		STK		1.47 BOGLE FARMS	ED	<a href="#">RA 08237</a>			3	3	08	18S	28E	574557	3624563*		3138	

**Sorted by:** Distance

### ACTIVE & INACTIVE POINTS OF DIVERSION



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# *New Mexico Office of the State Engineer* **Water Column/Average Depth to Water**

---

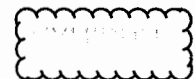
No records found.

**UTMNA83 Radius Search (in meters):**

Easting (X): 572327

Northing (Y): 3626771

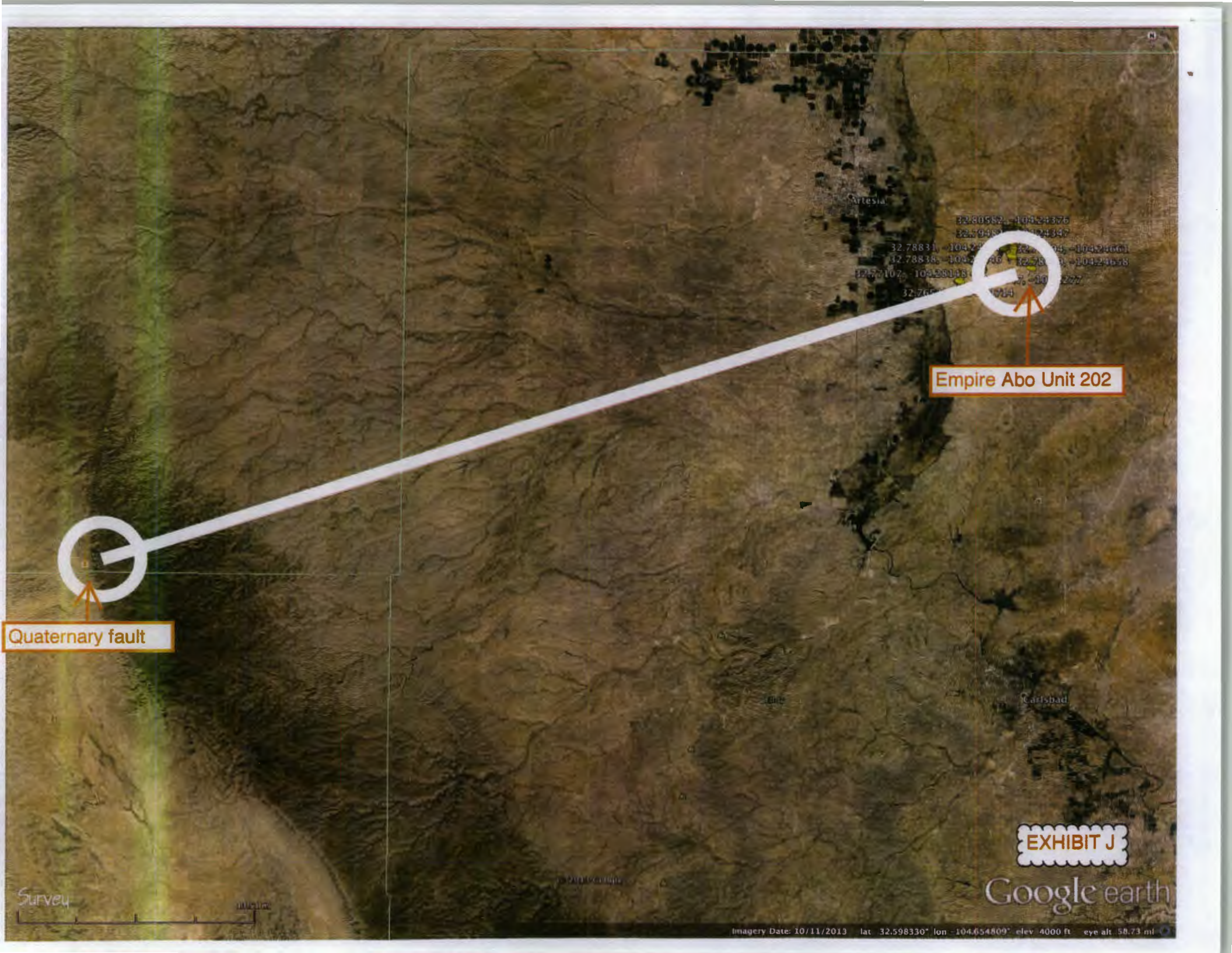
Radius: 3220



---

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

---



Empire Abo Unit 202

Quaternary fault

EXHIBIT J

Google earth



February 13, 2014

BLM  
620 E. Greene St.  
Carlsbad NM 88220

Apache Corporation is applying (application attached) to convert its Empire Abo Unit 202 oil well to a water injection well. As required by NM Oil Conservation Division Rules, I am notifying you of the following proposal. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: Empire Abo Unit 202 (BLM lease) ID = 6,296'  
Proposed Injection Zone: Abo (from 5,614' - 6,260')  
Location: 2490' FNL & 1299' FEL Sec. 1, T. 18 S., R. 27 E., Eddy County, NM  
Approximate Location: ≈11 air miles southeast of Artesia, NM  
Applicant Name: Apache Corporation (432) 818-1926  
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

Submittal Information: Application for a water injection well will be filed with the NM Oil Conservation Division (NMOCD). If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. The NMOCD address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,



Brian Wood

February 13, 2014

BP America Production Co.  
501 Westlake Park Blvd.  
Houston, TX 77079

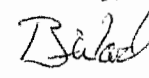
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Please call me if you have any questions.

Sincerely,



Brian Wood

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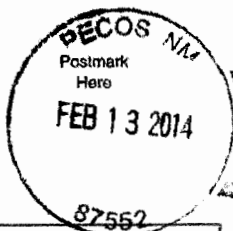


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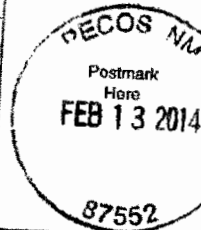
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February 13, 2014

Chevron USA Inc.  
P. O. Box 2100  
Houston TX 77252

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Please call me if you have any questions.

Sincerely,

*Brian Wood*  
Brian Wood

February 13, 2014

ConocoPhillips Company  
P. O. Box 7500  
Bartlesville, OK 74005-7500

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Please call me if you have any questions.

Sincerely,

*Brian Wood*  
Brian Wood

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PS Form 3800, August 2008 See Reverse for Instructions

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Sent To: *ConocoPhillips*

Street, Apt. No., or PO Box No.  
City, State, ZIP+4

February 13, 2014

ExxonMobil Corporation  
 P. O. Box 4358  
 Houston, TX 77210-4358

Apache Corporation is applying (application attached) to convert its Empire Abo Unit 202 oil well to a water injection well. As required by NM Oil Conservation Division Rules, I am notifying you of the following proposal. This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.

Sincerely,

Brian Wood

February 13, 2014

Mewbourne Oil Co.  
 P. O. Box 5270  
 Hobbs NM 88241

Apache Corporation is applying (application attached) to convert its Empire Abo Unit 202 oil well to a water injection well. As required by NM Oil Conservation Division Rules, I am notifying you of the following proposal. This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.

Sincerely,

Brian Wood

7012 1010 0000 4656 1587

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PS Form 3800, August 2006

EXHIBIT K

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February 13, 2014

Nick Jaramillo  
 New Mexico State Land Office  
 P. O. Box 1148  
 Santa Fe, NM 87504-1148

Dear Nick,

Apache Corporation is applying (application attached) to convert its Empire Abo Unit 202 oil well to a water injection well. As required by NM Oil Conservation Division Rules, I am notifying you of the following proposal. This letter is a notice only. No action is needed unless you have questions or objections.

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Applicant Name: Apache Corporation (432) 818-1926  
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Submission Information: Application for a gas injection well will be filed with the NM Oil Conservation Division (NMOCD). If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. The NMOCD address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

*Brian Wood*

Brian Wood

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 Here  
 87552

**EXHIBIT K**

February 13, 2014

Altura Energy  
 c/o Occidental Petroleum Corporation  
 P. O. Box 4294  
 Houston, TX 77210

Apache Corporation is applying (application attached) to convert its Empire Abo Unit 202 oil well to a water injection well. As required by NM Oil Conservation Division Rules, I am notifying you of the following proposal. This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.

Sincerely,

*Brian Wood*

Brian Wood

7012 1010 0000 4656 1570

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PS Form 3800, August 2006 See Reverse for Instructions

# Affidavit of Publication

NO. 22788

STATE OF NEW MEXICO

County of Eddy:

Danny Scott

being duly sworn, says that he is the Publisher

of the Artesia Daily Press, a daily newspaper of general circulation, published in English at Artesia, said county and state, and that the hereto attached

## Legal Notice

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 Consecutive weeks/days on the same day as follows:

First Publication November 15, 2013

Second Publication \_\_\_\_\_

Third Publication \_\_\_\_\_

Fourth Publication \_\_\_\_\_

Fifth Publication \_\_\_\_\_

Subscribed and sworn to before me this

18th day of November 2013



OFFICIAL SEAL  
Latisha Romine  
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2015

Latisha Romine

Latisha Romine  
Notary Public, Eddy County, New Mexico

## Copy of Publication:

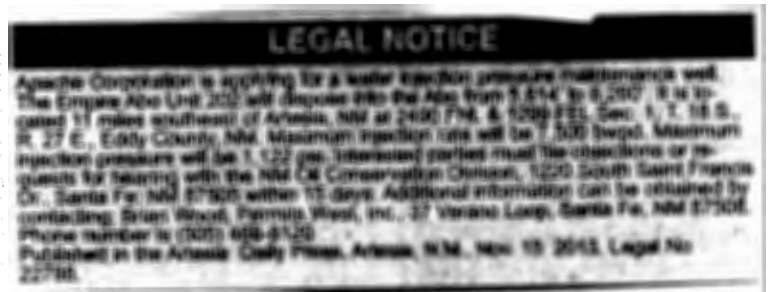


EXHIBIT L



**C-108 Review Checklist:** Received 2/13/2014 Add. Request: \_\_\_\_\_ Reply Date: \_\_\_\_\_ Suspended: \_\_\_\_\_ [Ver 13]

**PERMIT TYPE:** WFX / PMX / SWD Number: \_\_\_\_\_ Permit Date: \_\_\_\_\_ Legacy Permits/Orders: R-4549

Well No. 202 Well Name(s): Empire Abu Unit

API: 30-0 15-21783 Spud Date: 4/17/1976 New or Old: \_\_\_\_\_ (UIC Class II Primacy 03/07/1982)

Footages 2490 Fm, 125567 Lot \_\_\_\_\_ or Unit \_\_\_\_\_ Sec 1 Tsp 18S Rge 27E County Eddy

General Location: \_\_\_\_\_ Pool: \_\_\_\_\_ Pool No.: \_\_\_\_\_

BLM 100K Map: \_\_\_\_\_ Operator: Apache Corp OGRID: 873 Contact: Brian Woods

**COMPLIANCE RULE 5.9:** Total Wells: \_\_\_\_\_ Inactive: 3 Fincl Assur: \_\_\_\_\_ Compl. Order? \_\_\_\_\_ IS 5.9 OK? \_\_\_\_\_ Date: 9-30-14

**WELL FILE REVIEWED** ☒ Current Status: producer

**WELL DIAGRAMS:** NEW: Proposed ☐ or RE-ENTER: Before Conv. ☐ After Conv. ☒ Logs in Imaging: \_\_\_\_\_

Planned Rehab Work to Well: \_\_\_\_\_

Well Construction Details:		Sizes (in)	Setting	Cement	Cement Top and	
		Borehole / Pipe	Depths (ft)	Sx or Cf	Determination Method	
Planned ___ or Existing ___ Surface	<u>11" 848"</u>	<u>1000</u>	Stage Tool	<u>350</u>	<u>S/UIS4C1</u>	
Planned ___ or Existing ___ Interm/Prod						
Planned ___ or Existing ___ Interm/Prod						
Planned ___ or Existing ___ Prod/Liner	<u>7 7/8" 5 1/2"</u>	<u>6296</u>		<u>1550</u>	<u>S/UIS4C1</u>	
Planned ___ or Existing ___ Liner						
Planned ___ or Existing ___ OH / <u>PERF</u>	<u>5614</u> <u>6296</u>		Inj Length	<b>Completion/Operation Details:</b> Drilled TD <u>6296</u> PBTD _____ NEW TD <u>6270</u> NEW PBTD _____ NEW Open Hole <input type="radio"/> or NEW Perfs <input checked="" type="radio"/> Tubing Size <u>3 1/2</u> in. Inter Coated? <input checked="" type="checkbox"/> Proposed Packer Depth <u>5541</u> ft Min. Packer Depth <u>5514</u> (100-ft limit) Proposed Max. Surface Press. <u>1122</u> psi Admin. Inj. Press. <u>1122</u> (0.2 psi per ft)		
<b>Injection Stratigraphic Units:</b>		Depths (ft)	Injection or Confining Units			Tops
Adjacent Unit: Litho. Struc. Por.						
Confining Unit: Litho. Struc. Por.						
Proposed Inj Interval TOP:	<u>5164</u>					
Proposed Inj Interval BOTTOM:	<u>6260</u>					
Confining Unit: Litho. Struc. Por.						
Adjacent Unit: Litho. Struc. Por.						

**AOR: Hydrologic and Geologic Information**

POTASH: R-111-P ☐ Noticed? \_\_\_\_\_ BLM Sec Ord ☐ WIPP ☐ Noticed? \_\_\_\_\_ SALT/SALADO T: \_\_\_\_\_ B: \_\_\_\_\_ CLIFF HOUSE \_\_\_\_\_

FRESH WATER: Aquifer \_\_\_\_\_ Max Depth \_\_\_\_\_ HYDRO AFFIRM STATEMENT By Qualified Person ☒

NMOSE Basin: Roswell CAPITAN REEF: thru ☐ adj ☐ NA ☐ No. Wells within 1-Mile Radius? \_\_\_\_\_ FW Analysis ☐

Disposal Fluid: Formation Source(s) Abu Analysis? ☒ On Lease ☐ Operator Only ☐ or Commercial \_\_\_\_\_

Disposal Int: Inject Rate (Avg/Max BWPD): 5000/7000 Protectable Waters? \_\_\_\_\_ Source: \_\_\_\_\_ System: Closed ☒ or Open ☐

HC Potential: Producing Interval? ☒ Formerly Producing? \_\_\_\_\_ Method: Logs/DST/P&A/Other \_\_\_\_\_ 2-Mile Radius Pool Map ☐

AOR Wells: 1/2-M Radius Map? ☒ Well List? ☒ Total No. Wells Penetrating Interval: 37 Horizontals? 0

Penetrating Wells: No. Active Wells 33 Num Repairs? \_\_\_\_\_ on which well(s)? \_\_\_\_\_ Diagrams? \_\_\_\_\_

Penetrating Wells: No. P&A Wells 4 Num Repairs? \_\_\_\_\_ on which well(s)? \_\_\_\_\_ Diagrams? ☒

**NOTICE:** Newspaper Date 11-15-2013 Mineral Owner BLM Surface Owner BLM N. Date 2-13-2014

**RULE 26.7(A):** Identified Tracts? ☒ Affected Persons: NMSLO, BLM, Chevron, Comdun Date 2-13-2014

**Permit Conditions:** Issues: \_\_\_\_\_