

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

- [D] Other: Specify _____

PMX
- Apache Corp
873

Empire Abo Unit 5
 30-015-00839
Pool
- Empire Abo
22040

[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

2015 MAY 11 P 3:40
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[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

[Signature]

Consultant

5-11-15

Print or Type Name

Signature

Title

Date

brian@permitswest.com

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 5

- Proposed average and maximum daily rate and volume of fluids to be injected;
- Whether the system is open or closed;
- Proposed average and maximum injection pressure;
- Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
- 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.).

30-015-00839

*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: MAY 9, 2015

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.

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

Tubing Size: 2-7/8" Lining Material: TUBOSCOPE TK FIBER

Type of Packer: ARROW AS-1X

Packer Setting Depth: ≈5,354'

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
5,378' - 5,674'
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____
OVER: YESO (3100'), GLORIETA (2965'), SAN ANDRES (1512'),
GRAYBURG (925'), QUEEN (620')

UNDER: MORROW (9400')

APACHE CORPORATION
EMPIRE ABO UNIT 5
330' FSL & 990' FWL SEC. 9, T. 18 S., R. 27 E.
EDDY COUNTY, NEW MEXICO

PAGE 1

30-015-00839

I. Goal is to convert a 5,768' (TD) Empire; Abo oil well to a water injection well from 5,378' to 5,674'. It operated as a gas injection well in 1994-1995. It is in the Empire; Abo Pool (22040). It would be the 25th injection well approved in the unit. Previous injection rules or orders are R-4549, PMX-55, PMX-58, PMX-61, PMX-62, PMX-65, PMX-73, PMX-116, PMX-188, PMX-269, PMX-270, and PMX-272.

II. Operator: Apache Corporation (OGRID #873)
Operator phone number: (432) 818-2009
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 NMLC-070938
Lease: SW4 Section 9, T. 18 S., R. 27 E.
Lease Size: 160 acres (see Exhibit A for C-102 and maps)
Closest Lease Line: 330'
Unit Size: 11,339.15 acres
Unit Number: 300117 (BLM: NMNM-070945X)
Closest Unit Line: 2,310'

A. (2) Surface casing (8-5/8", 24#, K-55) is set at 1,503'. Casing was cemented to the surface with 800 sacks.

Production casing (4-1/2", 9.5#, J-55) is set at 5,754'. Casing was cemented to 900' (temperature survey) with 1,050 sacks. PBD = 5,740'

A. (3) Tubing will be 2-7/8" with turned down couplings coated with Tuboscope® TK fiber line. Setting depth will be ≈5,354'. (Highest perforation is at 5,378'.)

- A. (4) An Arrow AS-1X packer will be set at $\approx 5,354'$ (24' above the highest perforation of 5,378').
- 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 5,378' to 5,668'. The entire well bore is cased.
- B. (3) Well was drilled in 1960 as an Empire; Abo oil well. Production in the first 2 months of 2015 averaged 3 bopd, 13 Mcfd, and 10 bwpd. The well has cumulatively produced >263,825 barrels of oil and >1,171,386 Mcf of gas.
- B. (4) Injection interval will be perforated with 2-4 shots per foot. Existing open perforations (all Abo) are 5,378' - 5,674'.
- B. (5) Higher and lower potential oil or gas zones in the area of review are:
 - Queen
 - Grayburg
 - San Andres
 - Glorieta
 - Yeso
 - Abo
 - Morrow

IV. This is within the previously authorized injection project area. There are 4 other active Abo water injection wells currently in the unit. Cumulative injection through February 28, 2015 in those wells is 39,414,490 barrels. Converting this oil well to an injection well will improve unit economics and positively affect existing production within the Empire Abo Unit.

EMPIRE ABO UNIT 5

330' FSL & 990' FWL SEC. 9, T. 18 S., R. 27 E.

EDDY COUNTY, NEW MEXICO

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V. Exhibit B shows 22 existing wells (12 plugged & abandoned + 10 active oil wells) within a half-mile radius. Eight of the P&A wells penetrated the Abo. Exhibit C shows 383 existing wells (235 producing oil or gas + 123 plugged & abandoned + 20 water injectors or disposals + 5 water wells) within a two-mile radius.

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

Aliquot Parts in Area of Review (T 18 S, R 27 E)	Lessor	Lease	Lessee(s) of Record	Abo operator, if any	in unit
SENE Sec. 8	BLM	NMNM-029268	Occidental	*	yes
SESE Sec. 8		NMNM-029273	Occidental	Apache	yes
NESE Sec. 8		NMNM-029275	Occidental	Apache	yes
NWSE Sec. 8		NMNM-089156	Lime Rock		no
SWSE Sec. 8		NMLC-070678A	Occidental		no
SWSE Sec. 9		NMLC-065478B	Apache	*	yes
SESW Sec. 9		NMLC-070938	Apache	*	yes
NESW Sec. 9		NMLC-070938	Apache	Apache	yes
W2SW4 Sec. 9		NMLC-070938	Apache	Apache	yes
NWSE Sec. 9		NMLC-025604	Apache	Apache	yes
SWNW Sec. 9		NMNM-031186	ExxonMobil	Apache	
SENW Sec. 9		NMNM-031186	ExxonMobil	*	yes
W2NE4 Sec. 16		NMSLO	B0-9603-0025	ExxonMobil	Apache
NENW Sec. 16	E0-3635-0000		Chevron	Apache	yes
NWNW Sec. 16	X0-2029-0080		ExxonMobil	*	yes
SWNW Sec. 16	E0-1049-0000		ConocoPhillips	Apache	yes
SENW Sec. 16	B1-0456-0007		Apache	*	yes
E2NE4 Sec. 17	BLM	NMNM-029276	ExxonMobil	*	yes
NWNE Sec. 17		NMNM-029276	ExxonMobil		no
				*Apache will be operator if Abo well drilled	

APACHE CORPORATION
 EMPIRE ABO UNIT 5
 330' FSL & 990' FWL SEC. 9, T. 18 S., R. 27 E.
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VI. Thirteen of the 22 existing wells that are within a half-mile penetrated the Abo. All of the 13 penetrators are Abo wells. Six of the Abo penetrators are plugged and abandoned. A table abstracting construction details and history of all 22 penetrators and diagrams of the 6 plugged penetrators are in Exhibit G.

The 22 existing wells that are within a half-mile (regardless of depth) are:

API	WHO	UL	T18S, R27E, SECTION	TVD	WELL	TYPE WELL	ZONE(S)	FEET FROM EAU.5
3001500901	Apache	D	16	5780	Empire Abo Unit 005C	P&A	Empire; Abo	990
3001500837	BP	N	9	5790	Empire Abo Unit 006B	P&A	Empire; Abo	1050
3001500841	Apache	L	9	5700	Empire Abo Unit 005B	O	Empire; Abo	1320
3001500824	Apache	P	8	5591	Empire Abo Unit 004A	O	Empire; Abo	1364
3001500900	Apache	C	16	5681	Empire Abo Unit 006D	O	Empire; Abo	1393
3001529057	Lime Rock	P	8	2400	Hawk 8 P Federal 012	O	Red Lake; Queen- Grayburg- SA	1427
3001533548	FDW	L	9	3398	CC Federal 003	P&A	NE Red Lake; Glorieta- Yeso	1558
3001500915	Humble	I	17	5576	Chalk Bluff Draw Unit A 12	P&A	Empire; Abo	1620
3001500825	Apache	I	8	5576	Empire Abo Unit 004B	O	Empire; Abo	1864
3001500835	Apache	K	9	5717	Empire Abo Unit 006A	O	Empire; Abo	1933
3001532273	BP	A	17	3700	Sparkplug Ridge 17 Federal Com 2	P&A	Red Lake; Glorieta- Yeso	1945
3001529027	Lime Rock	P	8	2350	Hawk 8 P Federal 011	O	Red Lake; Glorieta- Yeso	2014

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 330' FSL & 990' FWL SEC. 9, T. 18 S., R. 27 E.
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3001500908	BP	B	16	5825	Empire Abo Unit 007G	P&A	Empire; Abo	2033
3001500849	BP	O	9	5835	Empire Abo Unit 701P	P&A	Empire; Abo	2052
3001500903	BP	F	16	5700	Empire Abo Unit 006E	P&A	Empire; Abo	2078
3001534163	FDW	K	9	3324	CC Federal 005	P&A	Red Lake; Queen- Grayburg- SA	2093
3001529484	Lime Rock	O	9	2649	Hawk 9 O Federal 017	O	Red Lake; Queen- Grayburg- SA	2108
3001528277	Lime Rock	I	8	2249	West Red Lake Unit 048	O	Red Lake; Queen- Grayburg- SA	2149
3001500902	Apache	E	16	5708	Empire Abo Unit 005D	O	Empire; Abo	2339
3001500821	Lime Rock	I	8	1836	West Red Lake Unit 026	P&A	Red Lake; Queen- Grayburg- SA	2438
3001500840	Apache	E	9	5666	Empire Abo Unit 005A	O	Empire; Abo	2619
3001529097	Lime Rock	E	9	2400	Hawk 9 E Federal 006	O	Red Lake; Queen- Grayburg- SA	2628
3001530966	Marbob	B	16	9910	Scoggin Draw State C Com 2	P&A	Red Lake; Glorieta- Yeso	2651

- 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 1,075 psi (= 0.2 psi/foot x 5,378' (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 F. No compatibility problems have been reported from the other injection wells in the Unit.
 5. Abo is productive within one mile. The #5 well has produced at least 263,825 barrels of oil and 1,171,386 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 bearing strata were found from 325' to 350' in a 381' deep well (RA 03714) that is 2,954' northwest. Surface casing was set at 1,503' and cemented to the surface in the #5 well.

Closest water well (RA 03714) is 2,945' northwest. Its depth is 381'. No evidence of it could be found during a January 28, 2015 field inspection. No underground source of drinking water is below the proposed injection interval.

Formation tops are:

Tansill = 0'
Queen = 620'
San Andres = 1,512'
Glorieta - Yeso = 2,965'
Abo = 5,258'
Total Depth: 5,768'

There will be almost 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 (Queen, Grayburg, and San Andres) above the proposed injection interval in 10 wells within a 1-mile radius.

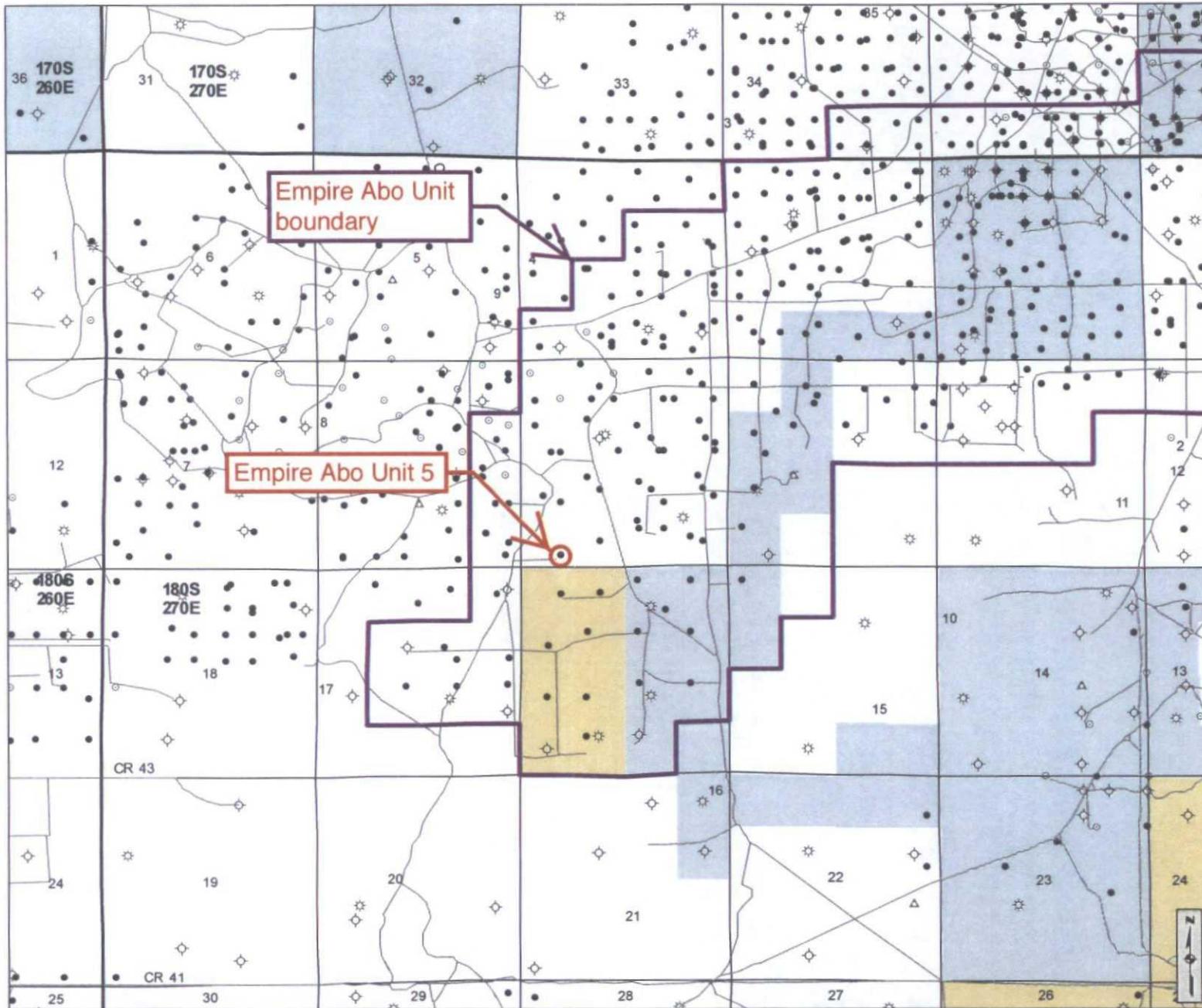
IX. The well will be stimulated with acid to clean out scale or fill.

APACHE CORPORATION
EMPIRE ABO UNIT 5
330' FSL & 990' FWL SEC. 9, T. 18 S., R. 27 E.
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- X. No logs are on file with the NMOCD.
- XI. According to the State Engineer's records and a January 28, 2015 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 52 miles southwest (Exhibit I). At least 130 injection and 14 saltwater disposal wells are active in the Abo.
- XIII. A legal ad (see Exhibit J) was published on April 30, 2015. Notice (this application) has been sent (Exhibit K) to the surface owner (BLM), all oil and gas lessees (Chevron, ConocoPhillips, ExxonMobil, Lime Rock, Occidental) or Abo operating right holders (BP, Craig Clark, Michael Dwinnell, Lime Rock Resources, Marbob, Occidental, Vanguard Resources, & Yates), and all oil and gas lessors (only New Mexico State Land Office and BLM) within a half-mile.



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
- NMOCD Order R-111-P
- Potash Enclave Outline

NMOCD Oil and Gas Wells

- CO₂
- Injection
- Oil
- Water
- Gas
- Miscellaneous
- Salt Water Disposal
- DA or PA

New Mexico State Land Office

Oil, Gas and Minerals

0 0.15 0.3 0.6 0.9 1.2 Miles

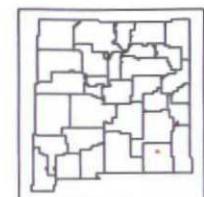
Universal Transverse Mercator Projection, Zone 13
1983 North American Datum

The New Mexico State Land Office assumes no responsibility or liability for, or in connection with, the accuracy, reliability or use of the information provided here, in State Land Office data layers or any other data layer.

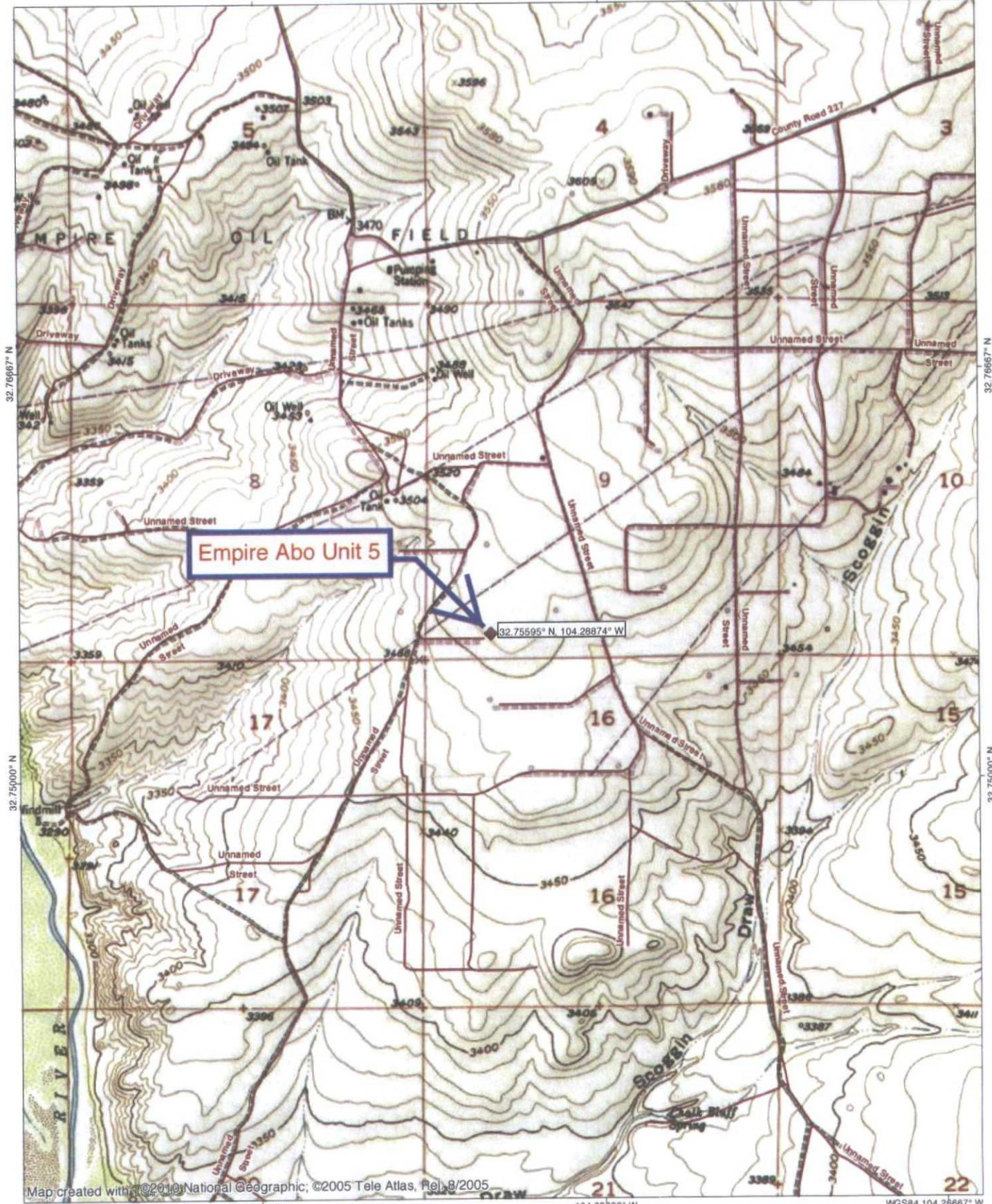
Land Office Geographic Information Center
logc@slo.state.nm.us

Created On: 4/26/2015 1:24:43 PM

EXHIBIT A



www.nmstatelands.org



32.76667° N

32.76667° N

32.75000° N

32.75000° N

Map created with ©2010 National Geographic; ©2005 Tele Atlas, Rel. 8/2005

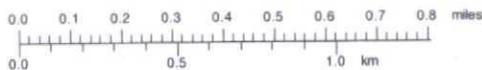


EXHIBIT A

TN=MN

7.5°

01/18/15

NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Dedication Plat

Section A.

Date March 30, 1960

Operator Humble Oil & Refining Co. Lease Abo-chalk Bluff Draw Unit
 Well No. 7 Unit Letter M Section 9 Township 18 South Range 27 East NMPM
 Located 330 Feet From South Line, 990 Feet From West Line
 County Eddy G. L. Elevation Later Dedicated Acreage 40 Acres
 Name of Producing Formation Abo Pool Empire-Abo

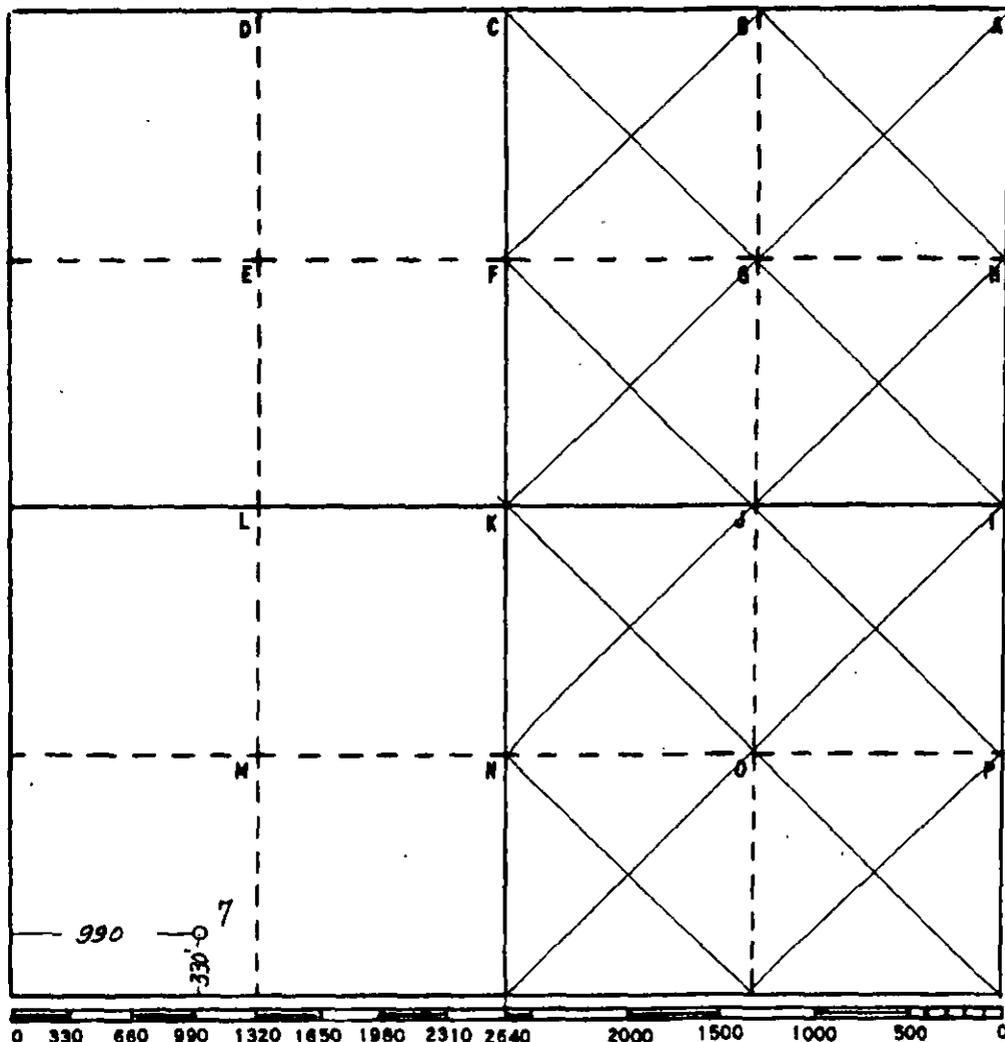
1. Is the Operator the only owner* in the dedicated acreage outlined on the plat below?
 Yes _____ No ✓
2. If the answer to question one is "no", have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes ✓ No _____ If answer is "yes," Type of Consolidation Unitization
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner

Land Description

<u>Owner</u>	<u>Land Description</u>

Section B



This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief

HUMBLE OIL & REFG. CO.

(Operator)

H. P. Hensley

(Representative)

Box 1600 Midland, Texas

Address

This is to certify that the well location shown on the plat in Section B 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.

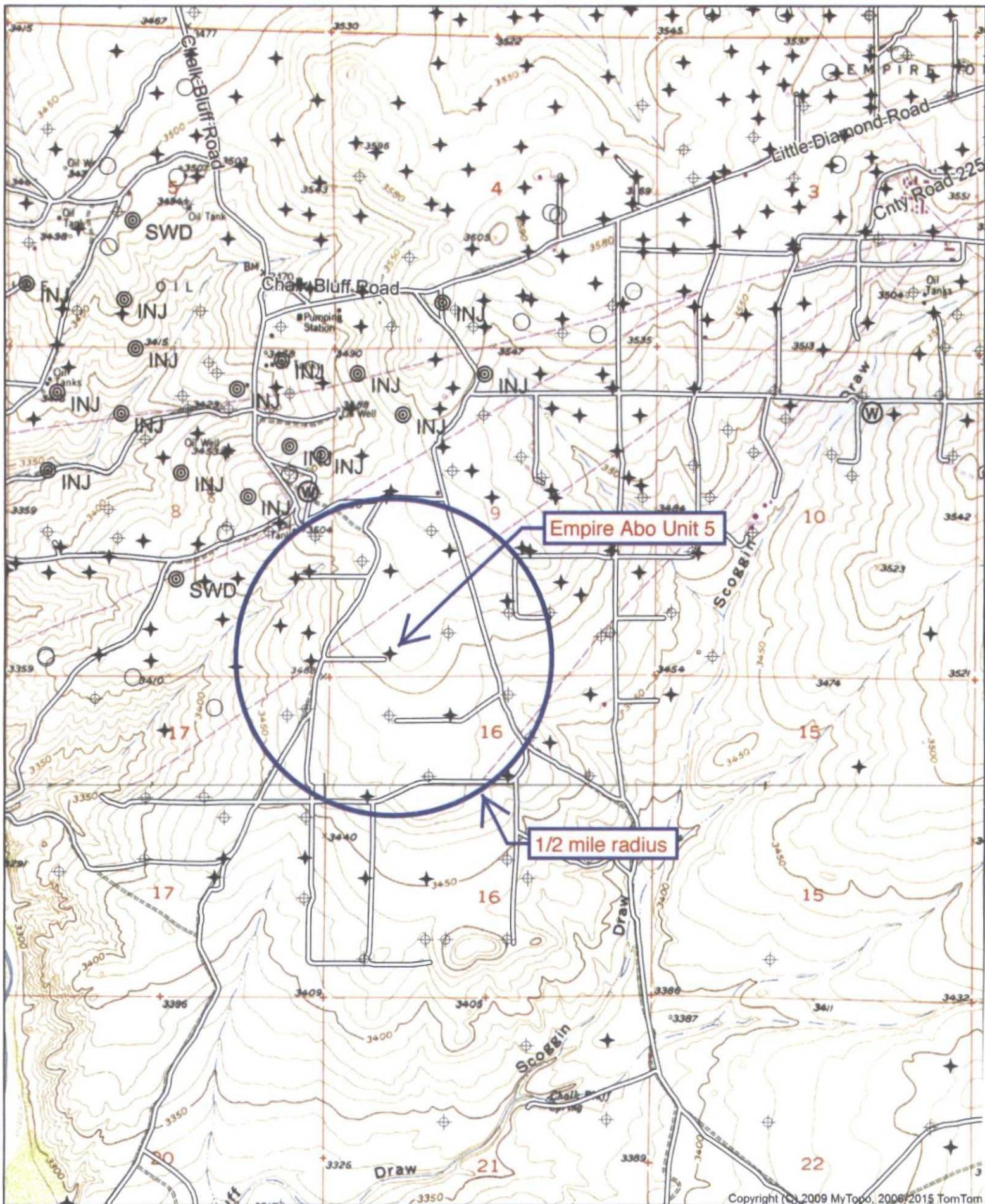
Date Surveyed March 29, 1960

W. S. Hunterfield
 Registered Professional
 Engineer and Land Surveyor

EXHIBIT A

Certificate No. 1382

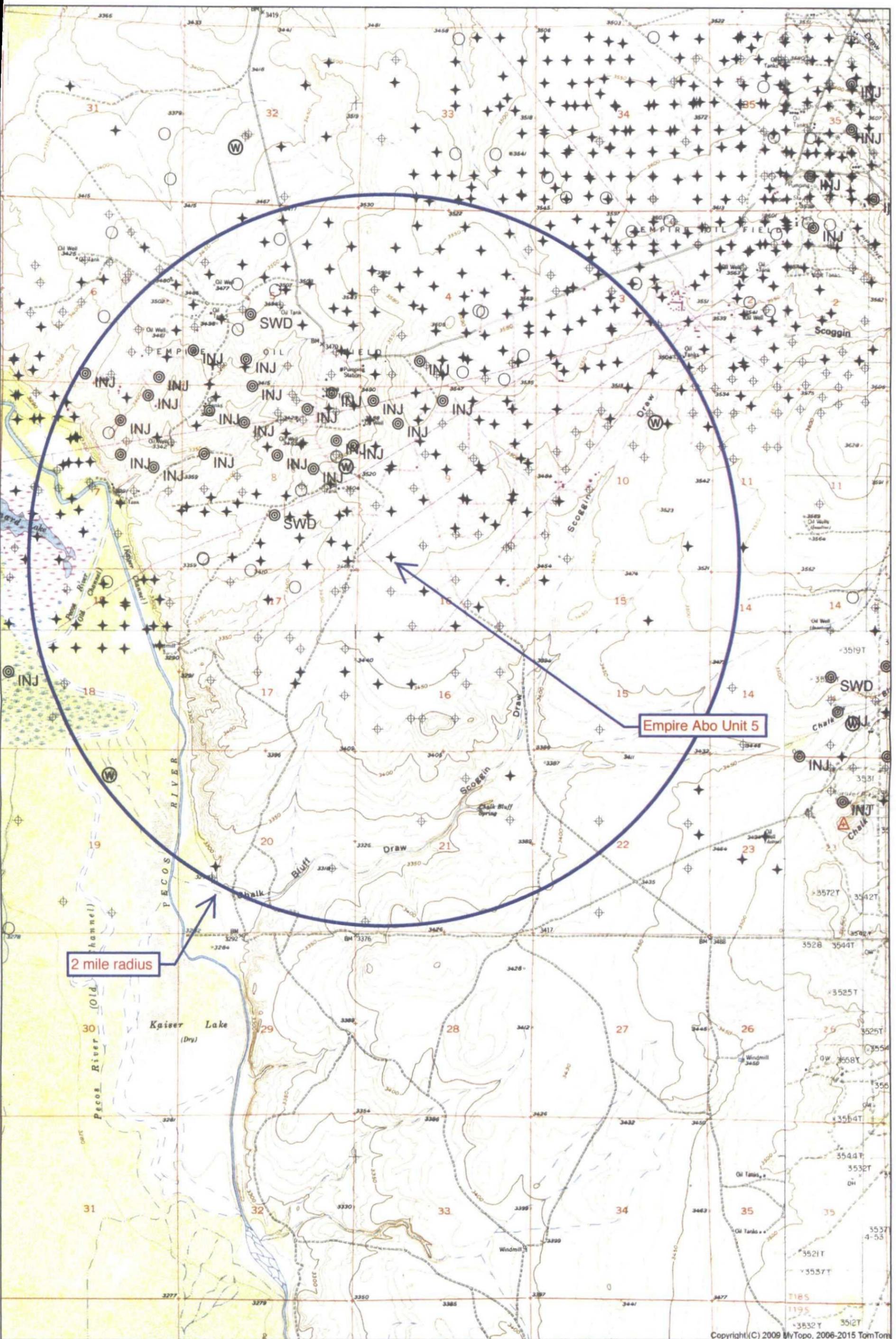
FILE NO. W-A-781A



Copyright (C) 2009 MyTops, 2006/2015 TomTom

Quad: SPRING LAKE
 Scale: 1 inch = 2,000 ft.

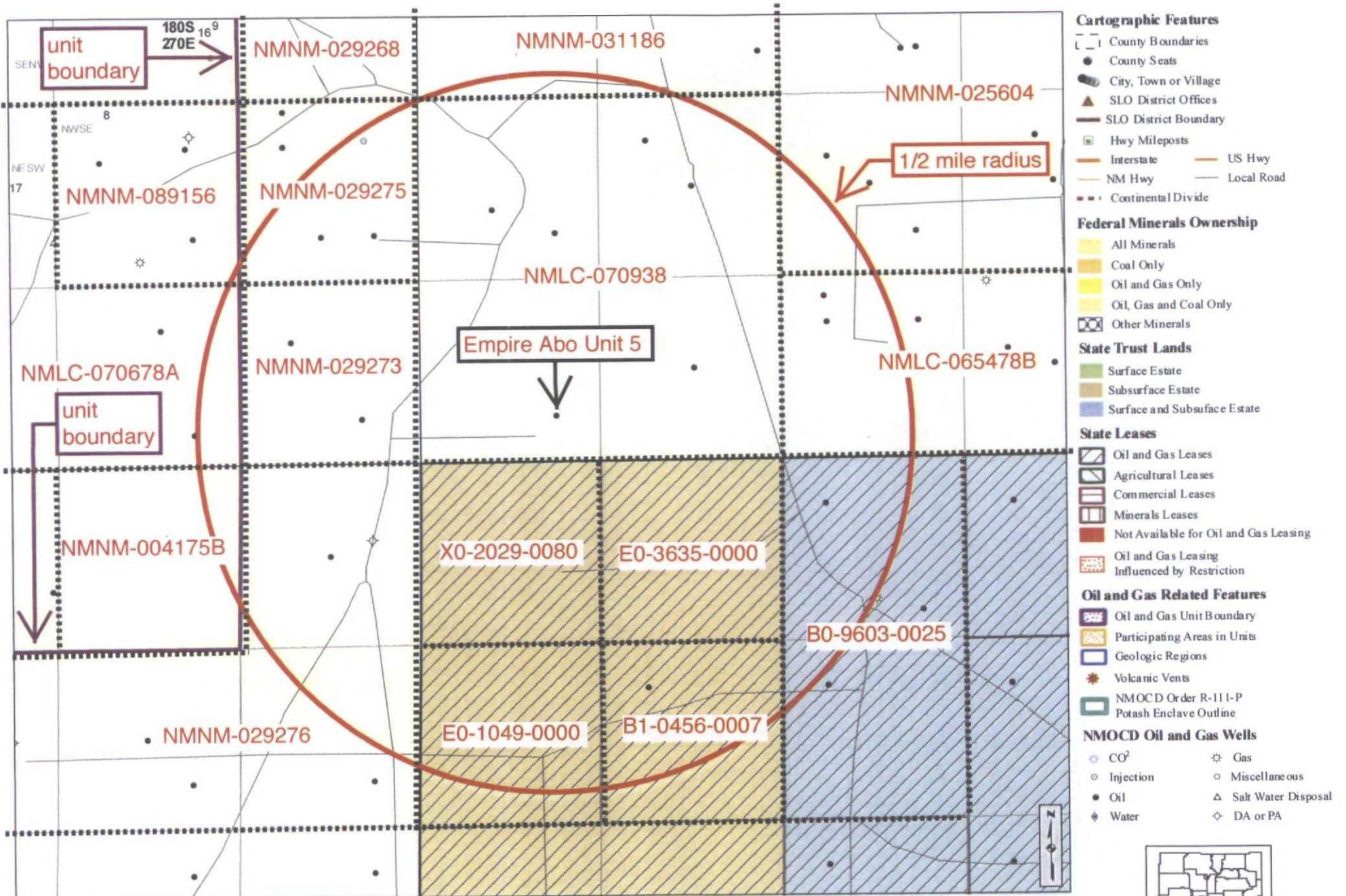
EXHIBIT B



Copyright (C) 2009 MyTopo, 2006-2015 TomTom

Quad: LAKE MC MILLAN NORTH
 Scale: 1 inch = 2,564 ft.

EXHIBIT C



New Mexico State Land Office
Oil, Gas and Minerals

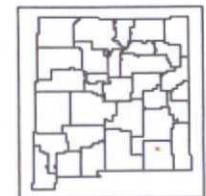
0 0.0375 0.075 0.15 0.225 0.3 Miles
 Universal Transverse Mercator Projection, Zone 13
 1983 North American Datum

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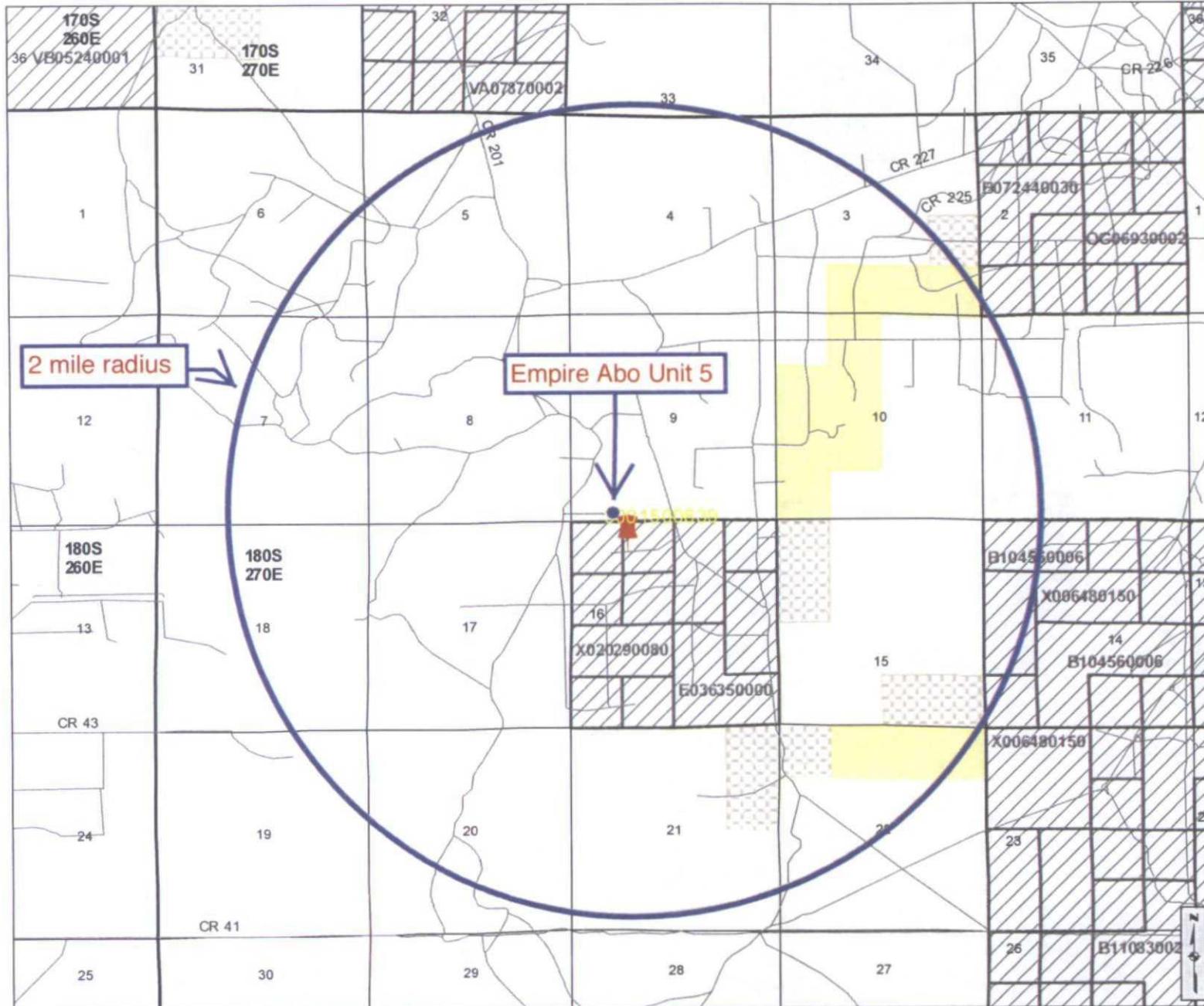
Land Office Geographic Information Center
 logic@slo.state.nm.us

Created On: 4/26/2015 1:27:59 PM

EXHIBIT D



www.nmstatelands.org



- 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**
- CO₂
 - Gas
 - Injection
 - Miscellaneous
 - Oil
 - △ Salt Water Disposal
 - ◆ Water
 - ◆ DA or PA

2 mile radius

Empire Abo Unit 5

New Mexico State Land Office
Oil, Gas and Minerals

0 0.15 0.3 0.6 0.9 1.2 Miles
Universal Transverse Mercator Projection, Zone 13
1983 North American Datum

The New Mexico State Land Office assumes no responsibility or liability for, or in connection with, the accuracy, reliability or use of the information provided here, in State Land Office data layers or any other data layer.

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EXHIBIT E



www.nmstatelands.org

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 ₃)	
Magnesium (Mg)		Bicarbonate (HCO ₃)	2520
Barium (Ba)		Hydroxide (OH)	
Manganese (Mn)		Hydrogen Sulfide (H ₂ S)	
Strontium (Sr)		Carbon Dioxide (CO ₂)	
Iron (Fe)		Oxygen (O)	

EXHIBIT F

Sorted by distance from Empire Abo Unit 5

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
EAU 005C	5/29/60	5780	Empire-Abo	P & A	11	8.625	1500	800 sx	GL	circulated
30-015-00901					7.875	4.5	5700	800 sx	GL	circulated
D-16-18s-27e										
EAU 006B	2/13/60	5790	Empire-Abo	P & A	11	8.625	1497	700 sx	GL	temp survey
30-015-00837					no report	4.5	5789	350 sx	3910	temp survey
N-9-18s-27e										
EAU 005B	5/15/60	5700	Empire-Abo	Oil	11	8.625	1501	800 sx	GL	circulated
30-015-00841					no report	4.5	5700	800 sx	GL	circulated
L-9-18s-27e										
EAU 004A	10/11/60	5591	Empire-Abo	Oil	11	8.625	1529	800 sx	GL	circulated
30-015-00824					no report	4.5	5591	800 sx	GL	circulated
P-8-18s-27e										
EAU 006D	3/14/60	5681	Empire-Abo	Oil	11	8.625	1508	700 sx	GL	circulated
30-015-00900					7.875	4.5	5680	800 sx	800	temp survey
C-16-18s-27e										
Chalk Bluff 12	12/30/60	5576	Empire-Abo	Oil	11	8.625	1534	800 sx	GL	circulated
30-015-00915					7.875	4.5	5576	850 sx	400	temp survey
I-17-18s-27e										
EAU 004B	1/10/60	5576	Empire-Abo	Oil	11	8.625	1476	750 sx	GL	circulated
30-015-00825					no report	4.5	5717	350 sx	3730	calculated
I-8-18s-27e										
EAU 006A	6/8/60	5717	Empire-Abo	P & A	11	8.625	1513	800 sx	GL	circulated
30-015-00835					unknown	4.5	5694	800 sx	1000	temp survey
K-9-18s-27e										
EAU 007G	5/7/60	5825	Empire-Abo	P & A	11	8.625	1514	800 sx	GL	circulated
30-015-00908					7.875	4.5	5825	800 sx	1765	temp survey
B-16-18s-27e										
EAU 701P	10/30/59	5835	Empire-Abo	P & A	11	8.625	1496	unknown	GL	circulated
30-015-00849					7.875	4.5	5835	850 sx	1250	temp survey
O-9-18s-27e										

Apache's Empire Abo Unit 5C
 30-015-00901
 D-16-18s-27e
 spud: 5-29-60
 P&A: 11-23-10

Empire Abo Unit "Q" #5
 Empire Abo Field
 APN No. 30-015-00901
 640' FNL & 990' FWL
 Section 16 - T18S - R27E
 Eddy County, New Mexico

RKB 3495'
 GL 3484'

Top Plug
 141 sx Class "C"
 0' - 348'
 Set 11/21/10

Internal Casing Cuts
 60' 80' 110' 140' 190' &
 220'. 4 1/2" removed to
 149' by washing over /
 milling.

4 1/2" casing sectioned
 from 280' - 358'.

Fish in Hole
 4.40' mule shoe sub w/
 approx 8' piece of jet
 cut tubing above sub
 TOF @ 375'
 EOF @ 387'

Queen 598'

Perfed @ 1000' to attempt to
 squeeze micro-annulus. Set
 CR @ 798', est injection w/
 1400 psi, 2 BPM - no returns to
 surface. Squeezed perfs w/ 150
 sx "C", final pump in press =
 900psi @ 2 BPM, ISIP = 480
 psi. Squeezed 8/5/10, WOC &
 tag plug @ 752' on 8/6/10.

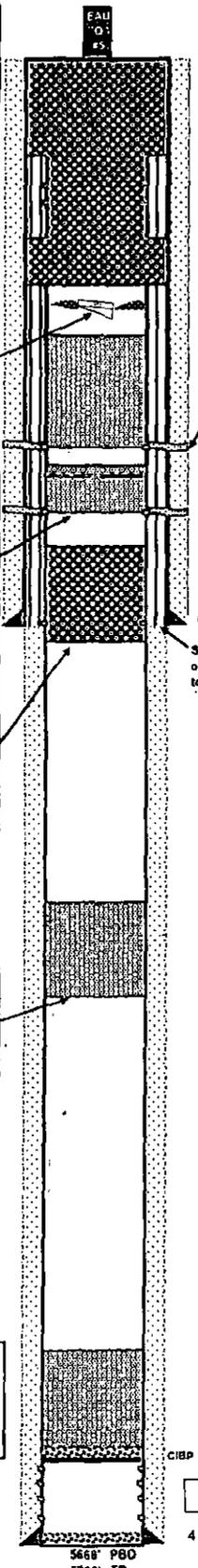
Surface Csg Shoe Plug
 1201' - 1580'
 25 sx "C"
 Set 8/4/10
 TAGGED - 8/4/10

Perfed @ 1520' to squeeze
 shoe, unable to pump into perfs
 w/ 2800 psi.

Glorieta 2910'

Glorieta Plug
 2635' - 3100'
 25 sx "C"
 Set 7/30/10
 TAGGED 8/2/10

Abo Plug
 4897' - 5368'
 25 sx "C"
 Set 7/20/10
 TAGGED 7/26/10



As of 10/7/10 when suspended operations were resumed, the 8 5/8" x 4 1/2" annulus had built to 8 psi with a steady oil / water drip when open to containment. The 4 1/2" production csg had built to 3 psi. Resumed operations 10/11/10 and was successful in sectioning 4 1/2" csg from 280' - 358' (total = 78' of planned 100') where progress ceased on 10/22/10. After sectioning, the 4 1/2" would not build any pressure but the 8 5/8" x 4 1/2" annulus built to 17 psi overnight. Decision was made to make internal cuts in 4 1/2" to relieve any trapped pressure in annulus. Cuts were made @ 220', 110' & 60'; in 48 hrs, the 4 1/2" csg had 3 psi and the annulus 2 psi. Additional cuts were made at 190', 140' & 80' and after overnight SI, the 4 1/2" built to 5 psi & annulus to 2 psi. Decision was made and NMOCD approval received as of 11/2/10 to washover 4 1/2" to allow setting plug inside 8 5/8" to complete the P&A.

Washed over and milled 4 1/2" casing from 0' - 149'. On 11/10/10 after removing 4 1/2" csg to 52', observed very slight leakage of water outside of the 8 5/8" while reverse circulating during milling operations. Switched to conventional circulation and no further leakage outside of the 8 5/8" was observed after 11/11/10.

Wellbore shut-in pressures were observed to be a vacuum to only very slight positive pressure upon removing casing to 149' and decision was made to set final plug. Discussed with NMOCD District Supervisor Randy Cade on 11/20/10 and received approval to set top plug and complete abandonment. A cement plug was successfully spotted from 348' - 0' on 11/21/10 and the WH was cut-off on 11/23/10.

Perfed @ 598' - top of Queen - to attempt squeeze of micro-annulus & potential pressure source. Set pkr @ 300', est injection w/ 2150 psi, 2 BPM - no returns to surface. Squeezed perfs w/ 150 sx "C", final pump in press = 1000 psi @ 2 BPM, ISIP = 433 psi. WOC & tag plug @ 417'. Decision made to section csg for setting plug. Suspended operations 8/18/10.

8 5/8" 24# J55 STC @ 1527'
 Schlumberger USIT (CBL) log identified top of good bonding @ 1530' - probable poor to fair bonding to surface with micro-annulus.

CIBP @ 5368' w/ omt to 5345' (12/20/04)

Abo Perfs
 5398' - 5610' overall

4 1/2" 9.5 J-55 STC @ 5700'

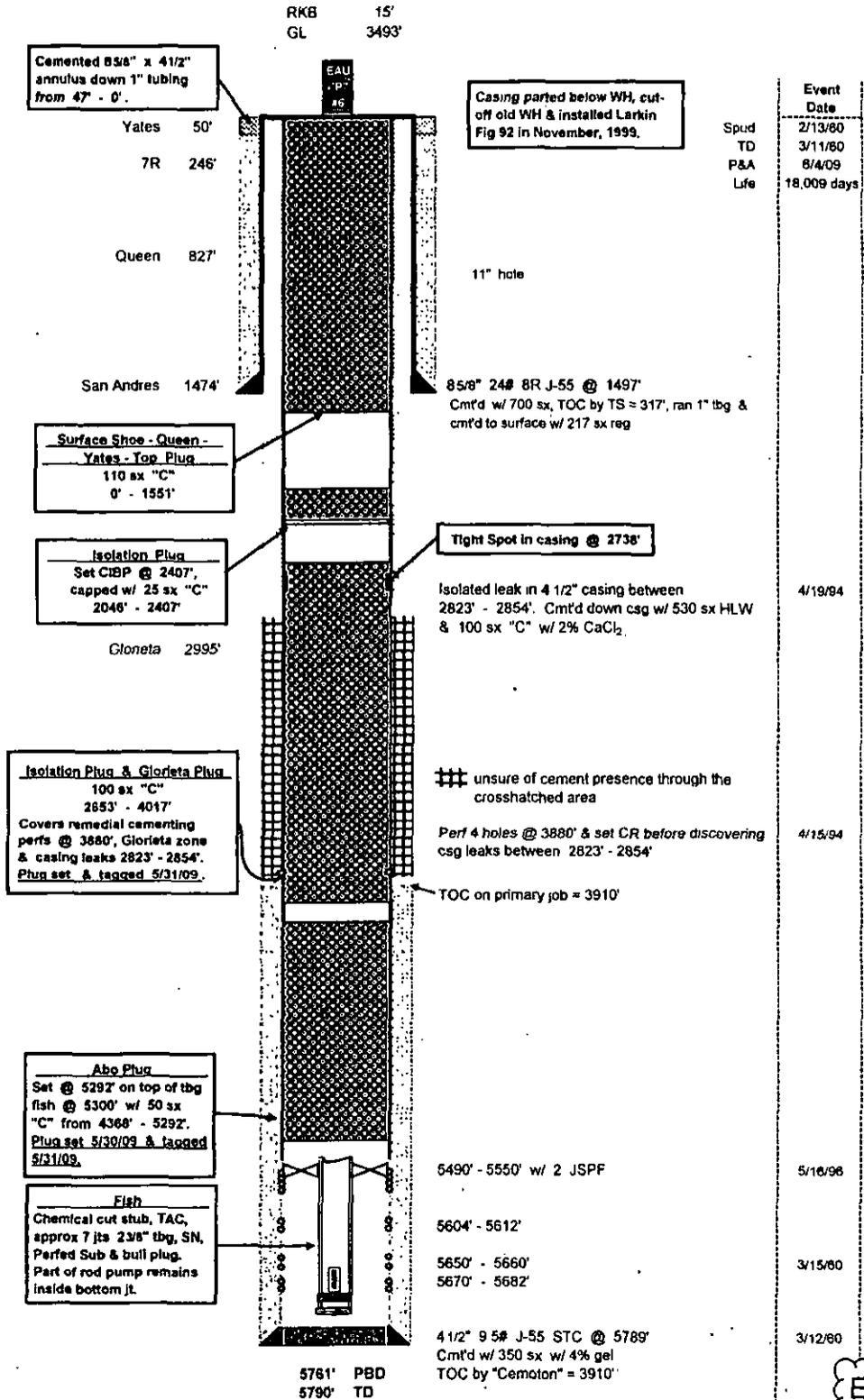
5668' PBD
 5700' TD

EXHIBIT G

BP's Empire Abo Unit 6B
 30-015-00837
 N-9-18s-27e
 spud: 2-13-60
 P&A: 6-4-09

Empire Abo Unit "P" #6
 Empire Abo Field
 (Federal Lease No. NMLC070933)
 API No. 30-015-00837
 660' FSL & 1980' FWL
 Section 9 - T18S - R27E
 Eddy County, New Mexico
 (Originally drilled by Humble O&R as the Chalk
 Bluff Draw Unit #3)

Final P&A Status



BP'S Empire Abo Unit 7G
 30-015-00908
 B-16-18s-27e
 spud: 5-7-60
 P&A: 5-29-07

Empire Abo Unit "Q" #7
 Empire Abo Field
 API No. 30-015-00908
 330' FNL & 2310' FEL
 Sec 16 - T18S - R27E
 Eddy County, New Mexico

FINAL P&A

5/30/07

RKB 16'
 GL 3465'

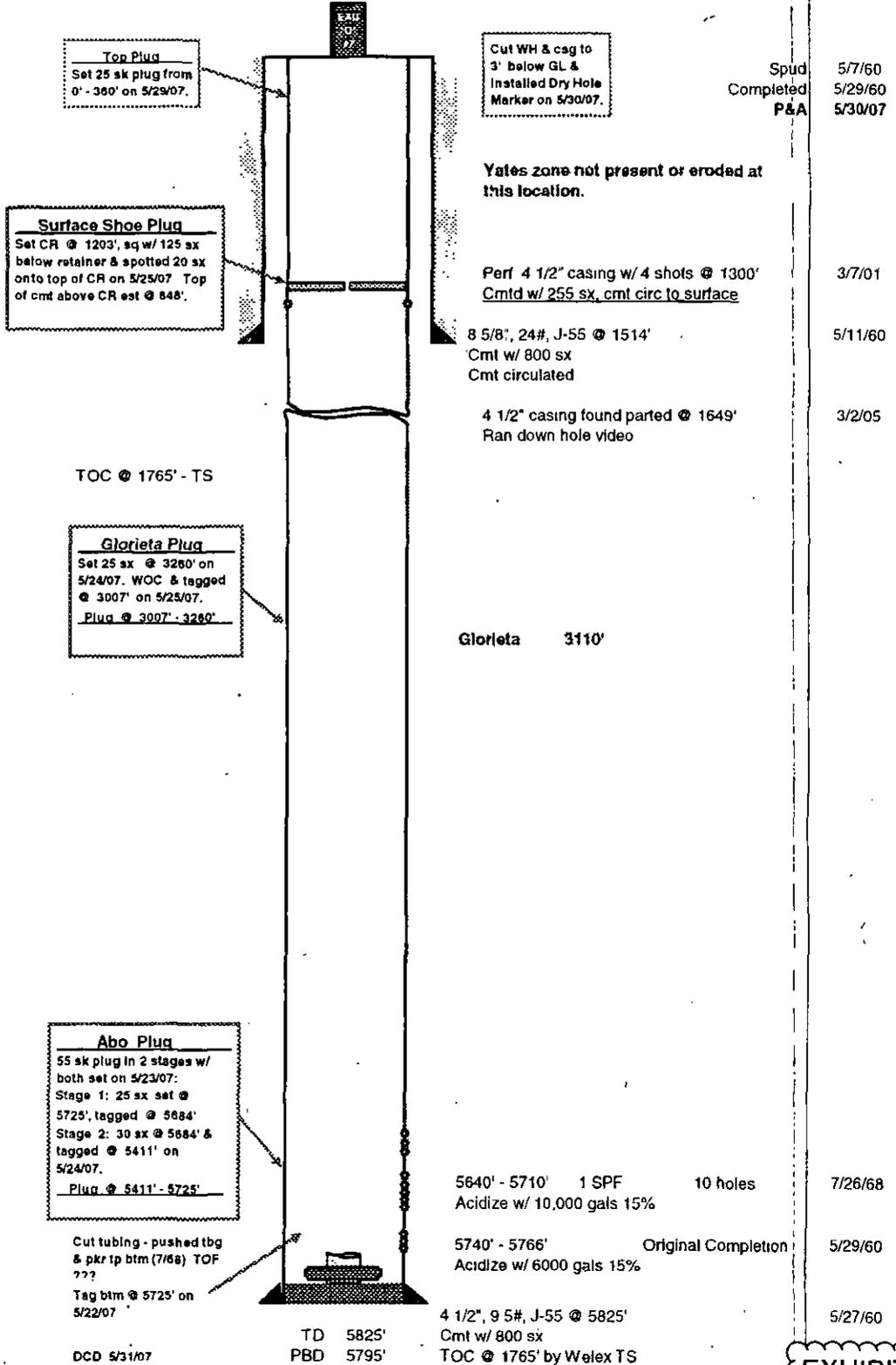


EXHIBIT G

BP's Empire Abo Unit 701P
 30-015-00849
 O-9-18s-27e
 spud: 10-30-59
 P&A: 10-13-09

Empire Abo Unit P-701
 Empire Abo Field
 API No. 30-015-00849
 985' FSL & 2297' FEL
 Sec 9 - T18S - R27E
 Eddy County, New Mexico

Event
 Date

Spud 10/30/59
 Completed 11/26/59

RKB elev = 3513'

120 sx GL - 400'

25 sx 1077' - 1650'

8 5/8", 24#, J-55 @ 1496'
 Cmt w/ ? sx
 Cmt circulated (records do not show amt but indicate cmt circ)

Glorieta plug
 25 sx 2760' - 3204'

set CIBP @ 5505'
 35 sx 4999' - 5505'

5579-80' cemented w/ 100 sx 8/68 - attempt to shut off gas
 5610-40' cemented with 125 sx 3/69 - attempt to shut off gas
 5629-40', 5651-58'
 5676-87', 5696-5708', 5715-22', 5737-42'

TD 5835'
 PBD 5804'
 4 1/2", 9.5#, J-55 @ 5835'
 Cmt w/ 850 sx
 TOC @ 1250' - TS

BP's Empire Abo Unit 6E
 30-015-00903
 F-16-18s-27e
 spud: 7-1-60
 P&A: 1-13-10

Empire Abo Unit "R" #6
 Empire Abo Field
 API No. 30-015-00903
 1650' FNL & 1650' FWL
 Sec 16 - T18S - R27E
 Eddy County, New Mexico
 Originally drilled by Humble Oil & Refining Co.
 as the Abo Chalk Bluff Draw Unit #14

Final P&A Status
 1/18/10

Top Plug
 0' - 114'
 Perfed 4 1/2" csg @ 114'
 Circ'd cmt into 8 5/8" x 4 1/2"
 annulus and left 4 1/2" csg
 filled w/ cmt from 0' - 114'.
 Used total of 35 sx "C".
 Set 1/13/10

RKB 13.8'
 GL 3484'

EAU "R" #6

Event	Date
Spud	7/1/60
RR	7/23/60
P&A	1/13/10
Life of Well	18,093 days

7R 206'

TOC = 230' by CBL of 11/19/09

Yates top is less than 30'
 or entirely absent

Queen 782'

8 5/8" 32# J-55 STC @ 1511'
 w/ 800 sx, cement circulated to surface

8 5/8" Shoe - Queen Plug
 610' - 1580'
 60 sx Class "C"
 Set & tagged 1/13/10

Glorieta & VIT Isolation Plug
 2370' - 3116'
 45 sx Class "C"
 Set 1/12/10 & tagged 1/13/10

Test Perfs #3 2562' & 2578'

Test Perfs #2 2689' & 2704'

Restriction in 4 1/2" csg @ 2761'

Glorieta 3033'

Vertical Integrity Test - Perf Intervals

#1	5350' & 5365'	- 5 SPF
#2	2689' & 2704'	- 5 SPF
#3	2562' & 2578'	- 5 SPF

Abo VIT Isolation Plug
 4955' - 5426'
 30 sx Class "C"
 Set & tagged 1/12/10

Perfs 5481' - 5600' were
 squeezed w/ 260 sx "H" on
 9-28-82 and well TA'd. Cleaned
 out WB & re-perfed 5498' - 5600'
 w/ 2 SPF on 8-12-94 and well
 returned to production. On
 11-5-94, set CIBP @ 5488'
 on WL & capped w/ 35 cmt to
 5433', well TA'd.

ABO 5140'

Test Perfs #1 5350' & 5365'

CIBP @ 5488'
 w/ 35' cmt to 5433'

Added 5461' 5482' 5501' 5508'

Added 5505' 5516' 5519' 5524' 5529' 5537'
 & 5542' w/ 1 SPF - perfs communicated to lower

5582' - 5600' w/ 2 JSPP

4 1/2" 9.5# J-55 STC @ 5699'

w/ 800 sx (12% gel & 1/4 pps floesal in first 100 sx
 Cmt circulated to surface per original drilling report

OCB 12/16/09

6673' PBO
 5700' TD

Dec, 1963

May, 1963

3/10/79

7/21/60

EXHIBIT G

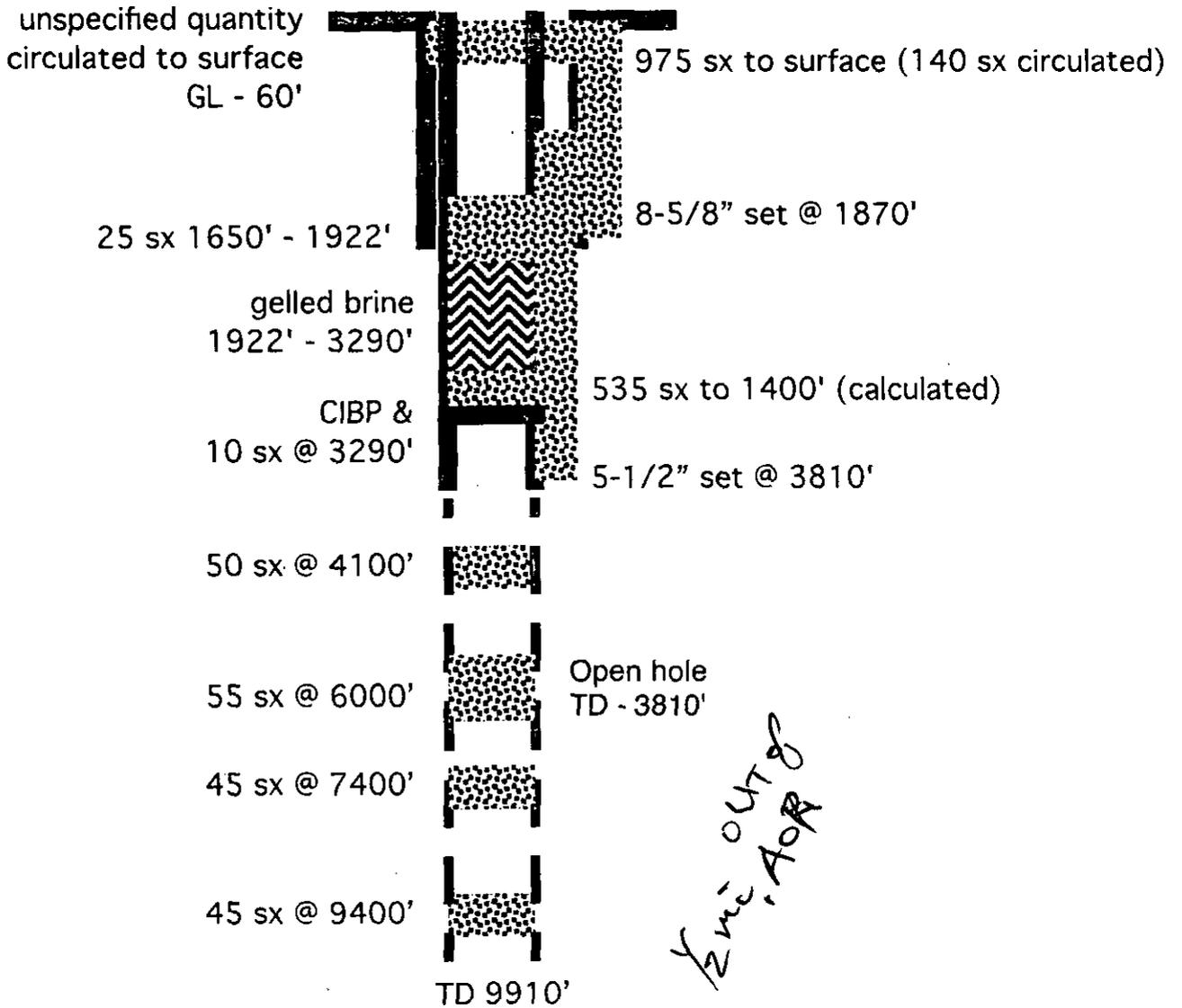
Marbob's Scoggins Draw State C Com 2

API 30-015-30096

B-16-18s-27e

Spud: 4-28-00

P&A: 12-4-01



(not to scale)

EXHIBIT G



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant					X	Y	Distance			
									Source	q	q	q						
RA 03714		PRO		0 HUMBLE OIL & REFINING COMPANY	CH	RA 03714			Shallow	4	4	2	08	18S	27E	566212	3625253*	898
RA 03917		PRO		0 PAN AMERICAN PETROLEUM CORP.	LE	RA 03917			Artesian	4	1	2	10	18S	27E	569019	3625660*	2678
RA 04298		OBS		0 LEE DRILLING CO	ED	RA 04298			Shallow	1	2	19	18S	27E	564082	3622523*	3195	

(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)
 C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

1 mile =
 1,610 meters

Record Count: 3

UTMNAD83 Radius Search (In meters):

Easting (X): 566626

Northing (Y): 3624456

Radius: 3220 meters

x 3.28 feet/meter

10,561.6' = 2.0003 miles

Sorted by: Distance

EXHIBIT H

*UTM location was derived from PLSS - see Help

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.



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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 1	Q 2	Q 3	Sec	Tws	Ring	X	Y	Distance	Depth Well	Depth Water Column
<u>RA 03714</u>			CH	4	4	2	08	18S	27E	566212	3625253*	898	381	
<u>RA 03917</u>			LE	4	1	2	10	18S	27E	569019	3625660*	2678	130	50 80
<u>RA 04298</u>			ED		1	2	19	18S	27E	564082	3622523*	3195	92	

Average Depth to Water: **50 feet**

Minimum Depth: **50 feet**

Maximum Depth: **50 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 566626

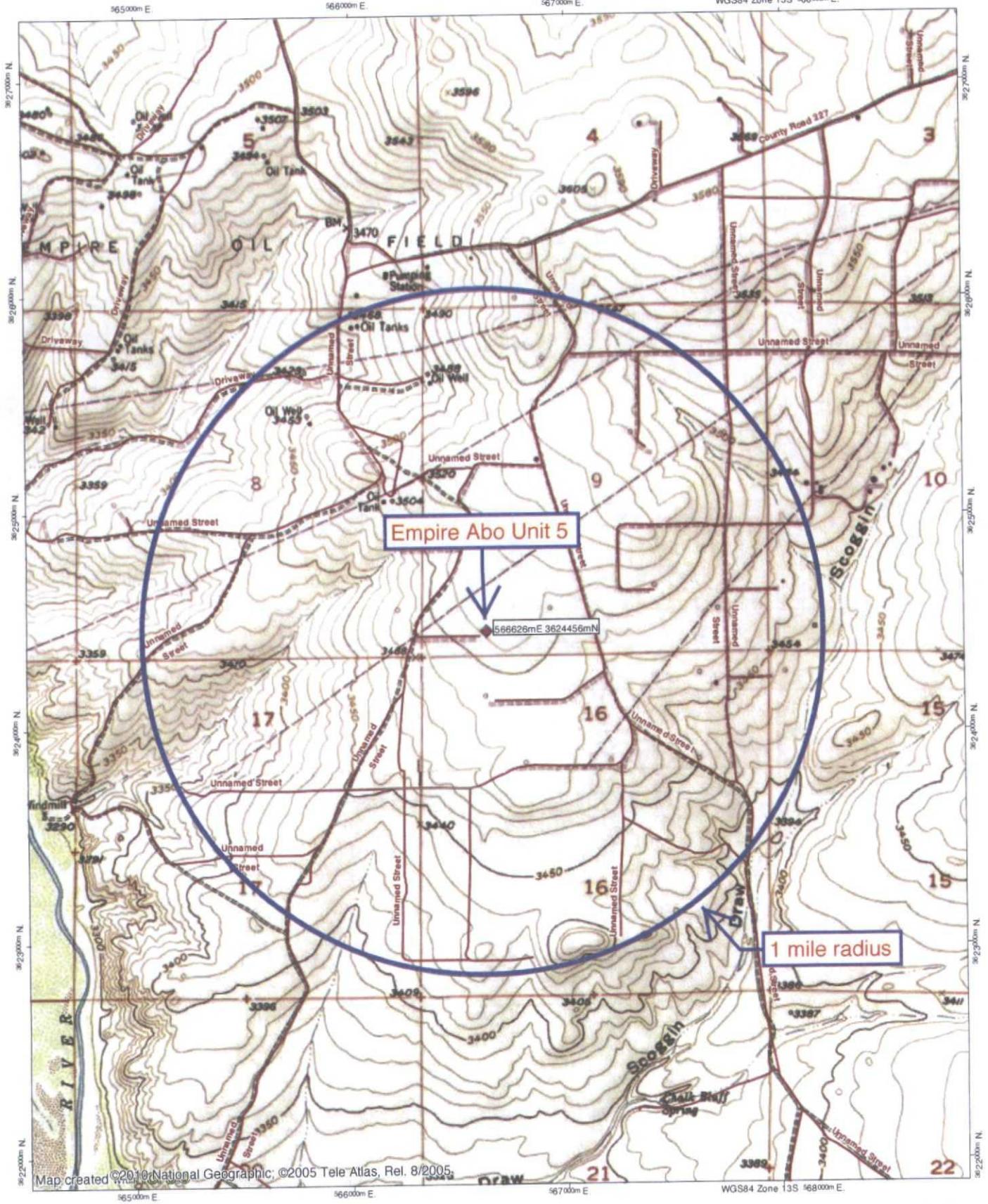
Northing (Y): 3624456

Radius: 3220

EXHIBIT H

*UTM location was derived from PLSS - see Help

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.

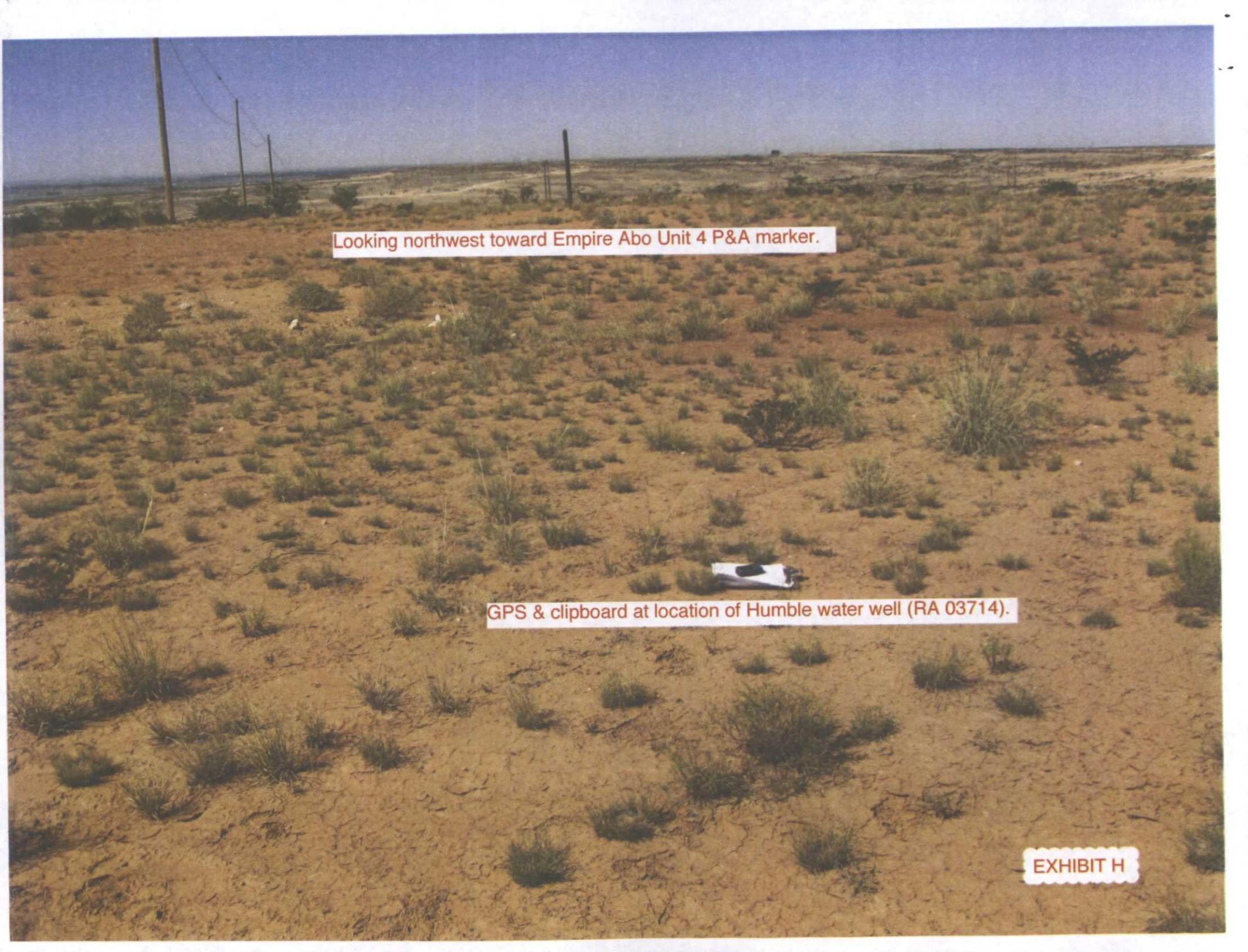


Map created ©2010 National Geographic, ©2005 Tele Atlas, Rel. 8/2005.



EXHIBIT H

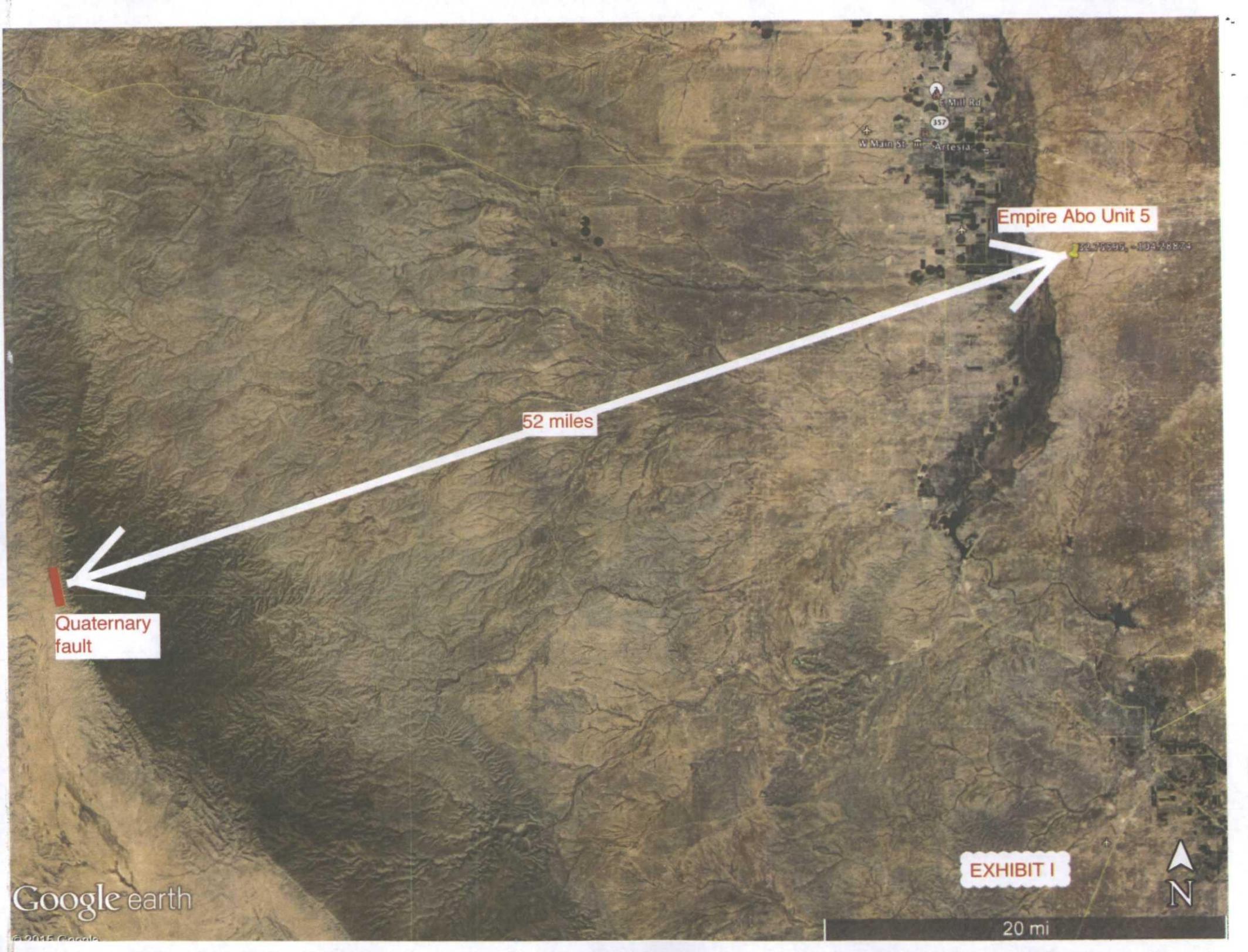
TN 41 MN
7.5°
01/18/15



Looking northwest toward Empire Abo Unit 4 P&A marker.

GPS & clipboard at location of Humble water well (RA 03714).

EXHIBIT H



Empire Abo Unit 5

52 miles

Quaternary fault

EXHIBIT I



20 mi

Affidavit of Publication

No. 23474

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/day on the same

day as follows:

First Publication	<u>April 30, 2015</u>
Second Publication	
Third Publication	
Fourth Publication	
Fifth Publication	
Sixth Publication	

Subscribed and sworn before me this

30th day of April 2015



OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2015

Latisha Romine
Notary Public, Eddy County, New Mexico

Copy of Publication:

LEGAL NOTICE

Apache Corporation is applying for a water injection well. The Empire Abo Unit 5 will inject into the Abo from 5,378 to 5,674. It is located 8 miles southeast of Artesia at 330 FSL & 990 FEL Sec. 9, T. 18 S. R. 27 E., Eddy County. Maximum disposal rate will be 7,500 bwpd. Maximum injection pressure will be 1,075 psi. Interested parties must file objections or requests for hearing with the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505 within 15 days. Additional information can be obtained by contacting Brian Wood, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120.

Published in the Artesia Daily Press, Artesia, N.M., April 30, 2015 Legal No. 23474

EXHIBIT J

PERMITS WEST .INC.
 PROVIDING PERMITS for LAND USERS
 37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

May 9, 2015

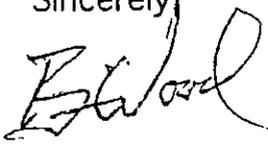
BLM
 620 E. Greene St.
 Carlsbad NM 88220

Apache Corporation is applying (application attached) to convert its Empire Abo Unit 5 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 5 (BLM lease) ID = 5,768'
Proposed Injection Zone: Abo (from 5,378' - 5,674')
Location: 330' FSL & 990' FWL Sec. 9, T. 18 S., R. 27 E., Eddy County, NM
Approximate Location: 8 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

7014 2870 0001 8950 7748

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 MAY 9 2015
 87652

Sent To: BLM
 Street & Apt. No., or PO Box No.
 City, State, ZIP+4: CARLSBAD

PS Form 3800, July 2014 See Reverse for Instructions

EXHIBIT K

May 9, 2015

Chevron USA Inc.
 1400 Smith
 Houston TX 77002

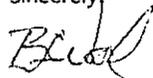
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Please call me if you have any questions.

Sincerely,



Brian Wood

EXHIBIT K

May 9, 2015

BP America Production Co.
 P. O. Box 3092
 Houston, TX 77253-3092

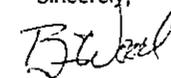
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Proposed Injection Zone: Abo (from 5,378' - 5,674')
Location: 330' FSL & 990' FWL Sec. 9, T. 18 S., R. 27 E., Eddy County, NM
Approximate Location: 8 air miles southeast of Artesia, NM
Applicant Name: Apache Corporation (432) 818-1926
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

Submittal Information: Application for a 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

7014 2870 0001 8950 7761

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See Reverse for Instructions

May 9, 2015

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

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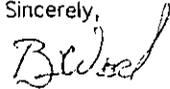
Sincerely,

 Brian Wood

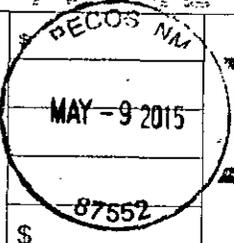
EXHIBIT K

7014 2870 0001 8950 7779



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Total Postage & Fees \$	

Sent To: Conoco Phillips
 Street & Apt. No., or PO Box No.
 City, State, ZIP+4: Bartlesville, OK 74005

May 9, 2015

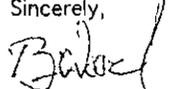
ExxonMobil Corporation
 P. O. Box 4358
 Houston, TX 77210-4358

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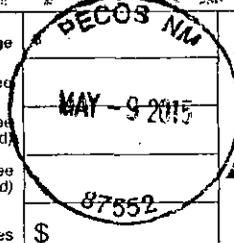
Sincerely,

 Brian Wood

7014 2870 0001 8950 7786



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May 9, 2015

Occidental Permian LP
 5 East Greenway Plaza, #110
 Houston TX 77046-0521

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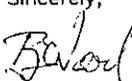
Sincerely,

 Brian Wood

EXHIBIT K

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PECOS NM
MAY - 9 2015
87552

May 9, 2015

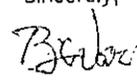
New Mexico State Land Office
 P. O. Box 1148
 Santa Fe, NM 87504-1148

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Please call me if you have any questions.

Sincerely,

 Brian Wood

7014 2870 0001 8950 7755

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 or PO Box No.
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 S.F.

PECOS NM
MAY - 9 2015
87552

PS Form 3800, July 2014 See Reverse for Instructions

May 9, 2015

Bobby Reynolds
 Lime Rock Resources A LP
 1111 Bagby St., #4600
 Houston TX 77002

Dear Bobby,

Apache Corporation is applying (application attached) to convert its Empire Abo Unit 5 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

EXHIBIT K

May 9, 2015

Craig Clark
 310 W. Texas, #822
 Midland TX 79701

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Please call me if you have any questions.

Sincerely,

Brian Wood

Brian Wood

7014 2870 0001 8950 7809

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Postmark: MAY - 9 2015 87552

Sent To: LIME ROCK B. REYNOLDS
 Street & Apt. No., or PO Box No.
 City, State, ZIP+4: HOUSTON

PS Form 3800, July 2014

7014 2870 0001 8950 7816

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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmark: MAY - 9 2015 87552

Sent To: CRAIG CLARK
 Street & Apt. No., or PO Box No.
 City, State, ZIP+4: MIDLAND

PS Form 3800, July 2014

May 9, 2015

Michael Dwinnell
 4420 Mendenhall
 Dallas TX 75244

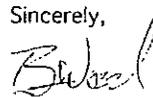
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Please call me if you have any questions.

Sincerely,



Brian Wood

EXHIBIT K

May 9, 2015

Vanguard Resources Inc.
 4308 Royal Ridge
 Dallas TX 75229

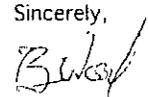
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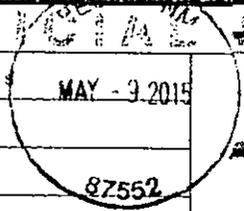


Brian Wood

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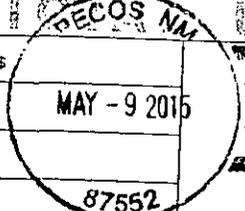
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Restricted Delivery Fee (Endorsement Required)	\$	
Total Postage & Fees	\$	

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

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Sent To: *VANGUARD*
 Street & Apt. No., or PO Box No.
 City, State, ZIP+4
Dallas

7014 2870 0001 8950 7830

7014 2870 0001 8950 7830

May 9, 2015

Marbob Energy Corp.
 c/o Concho Resources
 600 W. Illinois Ave.
 Midland TX 79701

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Sincerely,

Brian Wood

Brian Wood

EXHIBIT K

May 9, 2015

Yates Petroleum Corp.
 105 S. 4th St.
 Artesia NM 88210

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Please call me if you have any questions.

Sincerely,

Brian Wood

Brian Wood

7014 2870 0001 8950 7847

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Total Postage & Fees	\$	

Sent To: *MARBOB*

Street & Apt. No., or PO Box No.: _____

City, State, ZIP+4: *MIDLAND*

See Reverse for Instructions

7012 1010 0000 4651 3630

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Total Postage & Fees	\$	

Sent To: *YATES*

Street, Apt. No., or PO Box No.: _____

City, State, ZIP+4: *ARTESIA*

Jones, William V, EMNRD

From: Brian Wood <brian@permitswest.com>
Sent: Tuesday, August 18, 2015 7:50 AM
To: Jones, William V, EMNRD
Subject: Re: PMX application from Apache: Empire Abo Unit Well No. 5 30-015-00839

They are still interested.

No protests received by me.

I'll check on logs.

On Aug 17, 2015, at 6:11 PM, Jones, William V, EMNRD wrote:

Hello Brian,
How goes it?

Apparently we received this May 11, 2015 – I found it in another folder and drafted up a permit.

Is Apache still interested in this permit?
Have you or Apache received any protests?

There are no logs in our files for this well.
Are there any logs on this well they could send copies to Artesia district office?

Regards,

<image003.jpg> **William V. Jones, P.E., District IV Supervisor**
Oil Conservation Division <http://www.emnrd.state.nm.us/ocd/>
1220 South St. Francis Drive, Santa Fe, NM 87505
P: 505.476.3477 C: 505.419.1995



C-108 Review Checklist: Received 5/11/15 Add. Request: _____ Reply Date: _____ Suspended: _____ [Ver 14]

PERMIT TYPE: WFX (PMX) SWD Number: 275 Permit Date: 8/17/15 Legacy Permits/Orders: R-4549
Case 4953

Well No. _____ Well Name(s): EMPIRE ABO UNIT #5

API: 30-0 15-00839 Spud Date: _____ New or Old: _____ (UIC Class II Primacy 03/07/1982)

Footages 330 FSL / 990 FWL Lot _____ or Unit M Sec 9 Tsp 18 S Rge 27E County EDDY

General Location: _____ Pool: EMPIRE ABO (22040) Pool No.: 2

BLM 100K Map: _____ Operator: APACHE CORP OGRID: 873 Contact: Brian Wood

COMPLIANCE RULE 5.9: Total Wells: 3025 Inactive: 1 Fincl Assur: OK Compl. Order? _____ IS 5.9 OK? _____ Date: 8/17/15

WELL FILE REVIEWED Current Status: Producty

WELL DIAGRAMS: NEW: Proposed or RE-ENTER: Before Conv. After Conv. Logs in Imaging: ~~_____~~

Planned Rehab Work to Well: _____

Well Construction Details		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned ___ or Existing ___ Surface		<u>11 - 8 5/8</u>		<u>800SX</u>	<u>CRC</u>
Planned ___ or Existing ___ Interm/Prod					
Planned ___ or Existing ___ Interm/Prod					
Planned ___ or Existing ___ Prod/Liner		<u>7 7/8 - 4 1/2</u>		<u>1050 SX</u>	<u>900 TS.</u>
Planned ___ or Existing ___ Liner					
Planned ___ or Existing ___ OH (PERF)					
Injection Lithostratigraphic Units:				Completion/Operation Details:	
Adjacent Unit: Litho. Struc. Por.	Depths (ft)	Injection or Confining Units	Tops	Drilled TD <u>5768</u>	PBTD <u>5740</u>
Confining Unit: Litho. Struc. Por.	<u>5258</u>	<u>ABO</u>	<input checked="" type="checkbox"/>	NEW TD _____	NEW PBTD _____
Proposed Inj Interval TOP:	<u>5378</u>	<u>ABO</u>		NEW Open Hole <input type="checkbox"/> or NEW Perfs <input type="checkbox"/>	
Proposed Inj Interval BOTTOM:	<u>5674</u>	<u>"</u>		Tubing Size <u>2 1/8</u> in. Inter Coated? <input checked="" type="checkbox"/>	
Confining Unit: Litho. Struc. Por.				Proposed Packer Depth _____ ft	
Adjacent Unit: Litho. Struc. Por.				Min. Packer Depth _____ (100-ft limit)	
AOR: Hydrologic and Geologic Information				Proposed Max. Surface Press. _____ psi	Admin. Inj. Press. <u>1015</u> (0.2 psi per ft)
POTASH: R-111-P <input type="checkbox"/> Noticed? _____	BLM Sec Ord <input type="checkbox"/>	WIPP <input type="checkbox"/> Noticed? _____	SALT/SALADO T: _____	B: _____	CLIFF HOUSE _____
FRESH WATER: Aquifer _____	Max Depth <u>350</u>	HYDRO AFFIRM STATEMENT By Qualified Person <input checked="" type="checkbox"/>			
NMOSE Basin: _____	CAPITAN REEF: thru <input type="checkbox"/> adj <input type="checkbox"/> NA <input type="checkbox"/>	No. Wells within 1-Mile Radius? <input type="checkbox"/>		FW Analysis <input type="checkbox"/>	
Disposal Fluid: Formation Source(s) <u>ABO</u>	Analysis? _____	<input checked="" type="checkbox"/> On Lease <input checked="" type="checkbox"/> Operator Only <input checked="" type="checkbox"/> or Commercial <input type="checkbox"/>			
Disposal Int: Inject Rate (Avg/Max BWPD): _____	Protectable Waters? _____	Source: _____	System: Closed <input type="checkbox"/> or Open <input type="checkbox"/>		
HC Potential: Producing Interval? _____	Formerly Producing? _____	Method: Logs/DST/P&A/Other _____	2-Mile Radius Pool Map <input type="checkbox"/>		
AOR Wells: 1/2-M Radius Map? <input checked="" type="checkbox"/>	Well List? <input checked="" type="checkbox"/>	Total No. Wells Penetrating Interval: <u>13</u>	Horizontals? _____		
Penetrating Wells: No. Active Wells <u>7</u>	Num Repairs? <input type="checkbox"/>	on which well(s)? _____		Diagrams? _____	
Penetrating Wells: No. P&A Wells <u>6</u>	Num Repairs? <input type="checkbox"/>	on which well(s)? _____		Diagrams? <input checked="" type="checkbox"/>	
NOTICE: Newspaper Date <u>4/30/10</u>	Mineral Owner <u>SLO/BLM</u>	Surface Owner <u>BLM</u>	N. Date <u>5/9</u>		
RULE 26.7(A): Identified Tracts? _____	Affected Persons: <u>See APP.</u>	N. Date <u>5/9</u>			

Permit Conditions: Issues: was gas in before (94-95) See pmx 272
AOR extends to outside EAL to well.