7/22/2014 DATE IN	SUSPENSE	PRG ENGINEER	7/22/2014 LOGGED IN	WFX TYPE	pMAM1420359508 APP NO.

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]

- WFX-928
- Alamo Permian Resources LLC
274841

[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 ______________________________

[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

Wells
- West Artesia Grayburg Unit #18 30-015-01899
- West Artesia Grayburg Unit #13 30-015-02636
- West Artesia Grayburg Unit #1 30-015-02645
- West Artesia Grayburg Unit #4 30-015-02648
- West Artesia Grayburg Unit #12 30-015-02649
- West Artesia Grayburg Unit #6 30-015-10328

Pool
- Artesia; Queen-Grayburg-SA (3230)

[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.

Adam G. Rankin	[signature]	Attorney	7/22/14
Print or Type Name	Signature	Title	Date

agrankin@hollandhart.com
e-mail Address

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

FORM C-108

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

APPLICATION FOR WATERFLOOD EXPANSION

ALAMO PERMIAN RESOURCES, LLC
WEST ARTESIA GRAYBURG UNIT
Eddy County, New Mexico

LIST OF WELLS INCLUDED IN THIS APPLICATION

West Artesia Grayburg Unit #001
Section 8, T-18S, R-28E
Location: 990 FNL & 2,310 FWL
API No.: 30-015-02645
Eddy County, NM

West Artesia Grayburg Unit #004
Section 8, T-18S, R-28E
Location: 2,310 FNL & 990 FWL
API No.: 30-015-02648
Eddy County, NM

West Artesia Grayburg Unit #006
Section 8, T-18S, R-28E
Location: 2,310 FNL & 1,980 FEL
API No.: 30-015-10328
Eddy County, NM

West Artesia Grayburg Unit #012
Section 8, T-18S, R-28E
Location: 1,650 FSL & 990 FWL
API No.: 30-015-02649
Eddy County, NM

West Artesia Grayburg Unit #013
Section 7, T-18S, R-28E
Location: 2,310 FSL & 330 FEL
API No.: 30-015-02636
Eddy County, NM

West Artesia Grayburg Unit #018
Section 17, T-18S, R-28E
Location: 330 FNL & 990 FWL
API No.: 30-015-01899
Eddy County, NM

Requirements as per FORM C-108

I. PURPOSE:

The Purpose of this application is to expand the waterflood project (Secondary Recovery) within the West Artesia Grayburg Unit ("WAGU") by expanding the currently approved injection intervals to encompass the geological equivalent of the entire vertical extent of the waterflood as measured and recorded on the gamma ray-neutron log for the WAGU Well No. 9 from 2020 feet to 2322 feet per Ordering Paragraph 4 of Order R-3357-C. For each of the injection wells within the WAGU, Alamo Permian Resources seeks authorization to inject in each well across the geologic equivalent of the entire vertical extent of the approved waterflood project, as defined in the WAGU Well No. 9.

This Application by Alamo Permian Resources, LLC does qualify for Administrative Approval pursuant to 19.15.26.8.G(6) .

II. **OPERATOR:** **Alamo Permian Resources, LLC**
820 Gessner, Suite 1650
Houston, Texas 77024
Contact Party: Tyler Woodruff, Senior Landman
twoodruff@alamoresources.com
713-224-2500

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 to be used.**

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 to be 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 and gas zones in the area of the well, if any.**

Please see the attached Well Data Sheets and Wellbore Schematic Diagrams containing the above required data for each of the six (6) West Artesia Grayburg Unit water injection wells covered by this Application.

IV. EXPANSION OF AN EXISTING PROJECT:

Is this an expansion of an existing project?

Yes, this Application is the Expansion of the existing waterflood project within the West Artesia Grayburg Unit authorized under Order R-3357-C .

If yes, give the Division order number authorizing the project: Division Order No. R-3357-C

V. MAP

Attach a map that identifies all wells and leases within two miles of any proposed injection well within a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

Please see the following map which shows the location of the West Artesia Grayburg Unit, the location of the six (6) WAGU water injection wells covered by this Application, the wells and leases within two miles of the proposed WAGU injection wells, and the one-half mile radius circles designating the area of review around each proposed WAGU water injection well in this project, and covered by this Application.

VI. TABULATION OF DATA ON ALL WELLS WITHIN THE AREAS OF REVIEW:

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 details.

Please see the following table, "Tabulation of Data on All Wells of Public Record within the Area of Review Which Penetrate the Proposed Injection Zone". This table contains data on the seventy-one (71) wells which were found within the Area of Review for each of the six (6) West Artesia Grayburg Unit water injection wells covered by this application.

- Yellow highlighted wells on Tabulation portion of VI identify additional wells found within the Area of Review for each of the six (6) West Artesia Grayburg Unit water injections wells covered by this application that were drilled subsequent to the authorization of Order No. R-3357-C.

Also included are Wellbore Schematics on the fourteen (14) plugged and abandoned ("P&A'd") wells identified within these Areas of Review.

- The WAGU No. 022 Wellbore Schematic has been added to the portion of VI including the Wellbore Schematics on the plugged and abandoned wells identified within the Area of Review. This well was plugged and abandoned subsequent to the authorization of Order No. R-3357-C.

VII. DATA ON THE PROPOSED OPERATION:

Attach data on the proposed operation, including:

1. **Proposed average and maximum daily rate and volume of fluids to be injected;**

   Alamo Permian Resources proposes average and maximum daily rates and volumes of water to be injected into each of the six (6) WAGU water injection wells of:

   - Average: 600 BWPD/well ("Barrels of water per day per well")
   - Maximum: 1,000 BWPD/well.

   Total average and maximum daily water injection rates and volumes for the WAGU project when all six (6) water injection wells are fully operational of:

   - Average: 3,600 BWPD
   - Maximum: 6,000 BWPD.

2. **Whether the system is open or closed;**

   The West Artesia Grayburg Unit system is a closed system.

3. **Permitted maximum injection pressures;**

   Alamo Permian Resources is currently permitted to inject at a maximum injection pressure of 423 psig for each of the WAGU water injection wells covered by this Application. In a separate administrative application Alamo Permian Resources will seek approval to increase the injection pressures.

4. **Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than re-injected produced water;**

   Please see attached water analyses of injection water samples.

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.).**

   The six (6) WAGU water injection wells covered by this Application are to be used for Secondary Recovery and not for Disposal purposes. This requirement does not apply to this Application.

VIII. GEOLOGIC DATA:

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 such sources known to be immediately underlying the injection interval.

Please see the following "Geologic Data" summary write-up, structure map, and type log for the Grayburg Formation, the unitized formation in the West Artesia Grayburg Unit.

Also, please see the following "Fresh Water Data" summary and the fresh water data found for the WAGU Area obtained by Alamo Permian Resources from the public record.

IX. PROPOSED STIMULATION PROGRAM:

Describe the proposed stimulation program, if any.

To complete the Grayburg Formation zones with porosity development, Alamo Permian Resources plans to perforate the porous zones at a perf density of 2 shots per foot, and then initially acid stimulate the individual zones using 15% hydrochloric acid ("HCl" with non-emulsion and iron-sequestering additives) at an average volume of 100 gallons of HCl per foot of perforations.

Current plans do not include hydraulic fracturing of the Grayburg zones. Future stimulation treatments will be based on analysis of well performance.

X. LOGGING AND WELL TEST DATA:

Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

All well logs on the West Artesia Grayburg Unit water injection wells covered by this Application have been previously submitted to the Division.

Please see the following attached most recent Witnessed Mechanical Integrity Tests ("MIT's") run on the candidate wells covered by this Application.

XI. FRESH WATER WELL DATA:

Attach a chemical analysis of fresh water from two or more wells (if available and producing) within one mile of any injection or disposal well showing the location of wells and dates samples were taken.

Please see the following recent full water analysis from a fresh water well (windmill) located on a tract adjacent to the West Artesia Grayburg Unit, in Unit Letter A of Section 18, Township 18-S, Range 28-E of Eddy County, NM. This sample, taken on 10/12/2010, shows the fresh water sample to have a Chlorides (Cl-) content of 47.05 mg/l.

XII. AFFIRMATIVE STATEMENT FOR DISPOSAL WELLS:

Applicants for disposal wells must make an affirmative statement that they have examined available geologic data and engineering data and find no evidence of open faults or any hydrologic connection between the disposal zone and any underground sources of drinking water.

All of the wells covered by this Application in the West Artesia Grayburg Unit are water injection wells in a Secondary Recovery oil project. None are disposal wells and are exempt from this requirement.

XIII. 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 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 PROOF OF NOTICE HAS BEEN SUBMITTED.

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

Please see attached Proof of Notice documents:

1. Notice Letter from Alamo Permian Resources to affected Surface Owners;
2. Notice Letter from Alamo Permian Resources to Offset Leasehold Operators;
3. Exhibit "A" – Lists of affected Surface Owners and Offset Leasehold Operators;
4. Proof of Notification – copies of certified mail receipts of mailings; and
5. Legal Notice – copy of publication in local area newspaper in Eddy County, NM
   a. The Artesia Daily Press
      Artesia, NM

XIV. CERTIFICATION:

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

NAME: H. Patrick Seale **TITLE:** Senior Vice President

SIGNATURE: H. Patrick Seale **DATE:** 7/18/2014

E-MAIL ADDRESS: pseale@alamoresources.com

PHONE: 713-224-2500

ALAMO PERMIAN RESOURCES, LLC

WELLBORE DIAGRAM

Lease/Well No.: **WAGU No. 001 WIW** ELEVATION, GL: 3,633 ft

Location: 990' FNL & 2,310' FWL
UL: C, SEC: 8 T: 18-S, R:28-E
EDDY County, NM

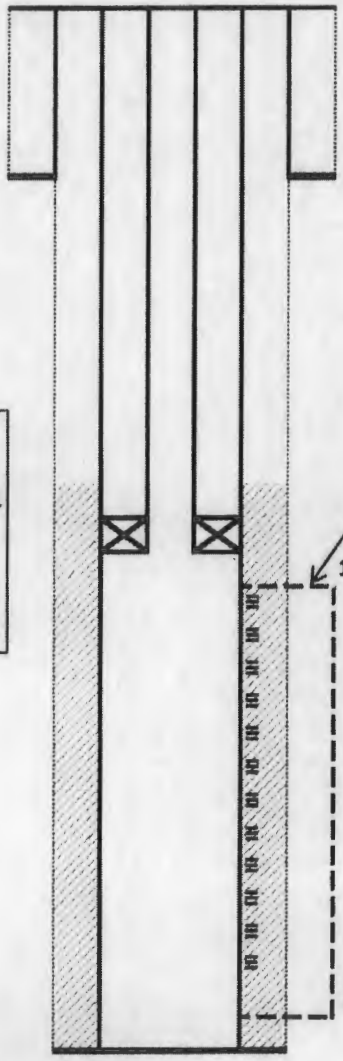
FIELD: **ARTESIA: QN-GB-SA**

LEASE No.: State OG-1644

API No. : **30-015-02645**

Spudded: 10/3/1958
Drlg Stopped: 10/26/1958
Completed: 11/6/1958
LAT:
LONG:

CABLE TOOLS



10" HOLE

Surface Csg:
8-5/8" 28#
Csg Set @ 451'
Cmt'd w/ MUD

TOC = No Cmt
Csg Mudded
451'

TOPS	DEPTH, ft
YATES	470
SEVEN RIVERS	770
QUEEN	1,416
LOCO HILLS	1,981
GRAYBURG	1,990
SAN ANDRES	2,284

TOC Est'd @ 1,894' ?
Calucated (75% SF)

2-3/8" 4.7# J-55
IPC Tubing - 56 jts
Baker Model AD-1
Tension Packer
Set @ 1,816.02'
15,000# Tension
2/24/2014

?

8" HOLE

PROPOSED INJECTION INTERVAL for WAGU #001 WIW:
1,981' - 2,284'
INJECTION ZONES: LOCO HILLS, GRAYBURG, METEX, & PREMIER.

1,981'

PERFS:	Zone	SPF - # Holes	Date
1982 - 2012'	GB - Zone 12	30' 2 spf - 60 holes	10/23/09
2012 - 2050'	GB - Zone 11	38' 2 spf - 76 holes	10/23/09
2050 - 2068'	GB - Zone 10	18' 2 spf - 36 holes	10/23/09
2088 - 2096'	GB - Zone 9	8' 2 spf - 16 holes	10/23/09
2108 - 2133'	GB - Zone 8	25' 2 spf - 50 holes	10/23/09
2150 - 2159'	GB - Zone 7	9' 2 spf - 18 holes	10/23/09
2162 - 2165'	GB - Zone 6	3' 2 spf - 6 holes	10/23/09
2178 - 2180'	GB - Zone 5	2' 2 spf - 4 holes	10/23/09
2193 - 2218'	GB - Zone 4	25' 2 spf - 50 holes	10/23/09
2218 - 2242'	GB - Zone 3	24' 2 spf - 48 holes	10/23/09
2254 - 2258'	GB - Zone 2	4' 4 spf - 16 holes	11/06/58
2258 - 2264'	GB - Zone 1	6' 4 spf - 24 holes	11/06/58
	TOTALS:	*192' -- 404 holes*	

Production Csg:
5 1/2" 15.5# J-55
Csg Set @ 2,295'
Cmt'd w/ 75 sx

2,284

2,295' Csg
2,277' PBTD (02/21/14)
2,297' TD

Originally Drilled as GULF STATE #1 by Ralph Nix & Jerry Curtis
Renamed WAGU Tract 9 #1 - 03/21/68.
Initial Water Injection: 11/09/68. Perfs: 2254-2264'.
Additional Perforations added in all GB Zones: 10/23/2009.

Cumulative Prod. (04/30/13):

OIL	11.657	MBO
GAS	8.851	MMCF
WATER	0.000	MBW
INJECT.	193.604	MBW

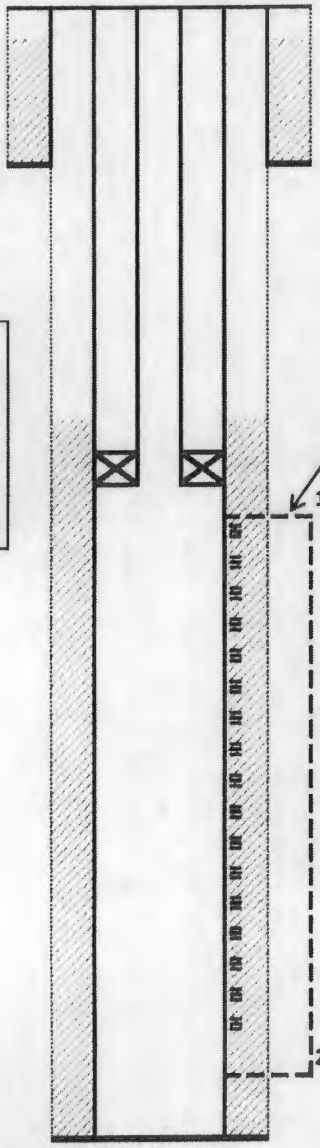
HPS: 06/26/2014

ALAMO PERMIAN RESOURCES, LLC
WELLBORE DIAGRAM

Lease/Well No.: **WAGU No. 004 WIW**
ELEVATION, GL: 3,628 ft
Location: 2,310' FNL & 990' FWL
UL: E, SEC: 8 T: 18-S, R:28-E
FIELD: **ARTESIA: QN-GB-SA**
EDDY County, NM
LEASE No.: State B-11539
API No. : **30-015-02648**

Spudded: **1/24/1958**
Drlg Stopped: **2/20/1958**
Completed: **2/22/1958**
LAT:
LONG:

CABLE TOOLS



10" HOLE

Surface Csg:
8-5/8" 24#
Csg Set @ 441'
Cmt'd w/ 50 sx

TOC Est'd @ 87'
Calc'd (75% SF)
441'

TOPS	DEPTH, ft
YATES	439
SEVEN RIVERS	747
QUEEN	1,404
LOCO HILLS	1,964
GRAYBURG	1,976
SAN ANDRES	2,273

TOC Est'd @ 1,752'
Calucated (75% SF)

2-3/8" 4.7# J-55
IPC Tubing - 58 jts
Baker Model AD-1
Tension Packer
Set @ 1,883.42'
14,000# Tension
9/11/2013

PROPOSED INJECTION INTERVAL for WAGU #004 WIW:
1,964' - 2,273'
INJECTION ZONES: LOCO HILLS, GRAYBURG, METEX, & PREMIER.

8" HOLE

1,964'

PERFS:	Zone	SPF - # Holes	Date
1966 - 1974'	GB - Zone 12	8' 7 spf - 52 holes	09/01/68
1992 - 1998'	GB - Zone 12	6' 2 spf - 10 holes	09/10/09
2004 - 2009'	GB - Zone 11	5' 2 spf - 10 holes	09/10/09
2010 - 2020'	GB - Zone 11	10' 4 spf - 40 holes	09/01/68
2021 - 2036'	GB - Zone 11	15' 2 spf - 30 holes	09/10/09
2040 - 2051'	GB - Zone 10	11' 2 spf - 22 holes	09/10/09
2064 - 2080'	GB - Zone 9	16' 2 spf - 32 holes	09/10/09
2090 - 2096'	GB - Zone 8	6' 2 spf - 12 holes	09/10/09
2102 - 2110'	GB - Zone 8	8' 4 spf - 32 holes	09/01/61
2128 - 2144'	GB - Zone 7	16' 2 spf - 32 holes	09/10/09
2144 - 2156'	GB - Zone 6	12' 2 spf - 24 holes	09/10/09
2156 - 2160'	GB - Zone 5	4' 2 spf - 8 holes	09/10/09
2174 - 2187'	GB - Zone 4	13' 2 spf - 26 holes	09/10/09
2196 - 2206'	GB - Zone 3	10' 4 spf - 40 holes	02/22/58
2220 - 2226'	GB - Zone 3	6' 4 spf - 24 holes	02/22/58
2234 - 2238'	GB - Zone 2	4' 4 spf - 16 holes	02/22/58
2244 - 2270'	GB - Zone 1	26' 2 spf - 52 holes	09/10/09
	TOTALS:	*176' -- 464 holes*	

2,273'

Production Csg:
5 1/2" 14# J-55
Csg Set @ 2,285'
Cmt'd w/ 100 sx

2,285' Csg
2,279' PBTD (09/10/2013)
2,290' TD

Originally Drilled as HUMBLE STATE #2 by Roach & Sheppard.
Renamed WAGU Tract 2 #5 - 03/21/68 & WAGU Tract 2 #4 - 08/14/68.
Initial Water Injection: 11/09/68 - pkr @ 2,058'. Inject down Tbg: Premier (2196-2206', 2220-26', & 2234-38'); & Metex (2102-10'). Inject down Annulus: "Old Field" (1966-74').
Added perfs 09/10/2009 & Acidized. Re-Acidized Perfs: 10/23/2012 & 02/25/2014.

Cumulative Prod. (4/30/14):

OIL	34.242	MBO
GAS	75.068	MMCF
WATER	0.000	MBW
INJECT.	350.633	MBW

HPS: 06/26/2014

ALAMO PERMIAN RESOURCES, LLC

WELLBORE DIAGRAM

Lease/Well No.: **WAGU No. 006 WIW** ELEVATION, GL: 3,634 ft

Location: 2,310' FNL & 1,980' FEL
UL: G, SEC: 8 T: 18-S, R:28-E FIELD: **ARTESIA: QN-GB-SA**
EDDY County, NM

LEASE No.: State OG-703 Spudded: 6/24/1964

API No. : **30-015-10328** Drlg Stopped: 7/20/1964

Completed: 7/23/1964

LAT:

LONG:

CABLE TOOLS

11" HOLE

Surface Csg:
8-5/8" 28#
Csg Set @ 426'
Cmt'd w/ 50 sx

TOC Est'd @ 231'
Calc'd (75% SF)

426' Csg

TOPS	DEPTH, ft	
YATES	504	
SEVEN RIVERS	816	
QUEEN	1,466	
LOCO HILLS	2,010	
GRAYBURG	2,020	
SAN ANDRES	2,326	Est'd - Well NDE

TOC Est'd @ 1,757'
Calucated (75% SF)

2-3/8" 4.7# J-55
IPC Tubing - 58 jts
Baker Model AD-1
Tension Packer
Set @ 1,953.00'
16,000# Tension
5/12/2014

PROPOSED INJECTION INTERVAL for WAGU #006 WIW:
2,010' - 2,326'
INJECTION ZONES: LOCO HILLS, GRAYBURG, METEX, & PREMIER.

2,010'

8" HOLE

2,326'

Production Csg:
5 1/2" 14# J-55
Csg Set @ 2,293'
Cmt'd w/ 100 sx

PERFS:	Zone	SPF - # Holes	Date
2012 - 2019'	GB - Zone 12	7' 2 spf - 14 holes	05/07/14
2014 - 2017'	GB - Zone 12	*3' 1 spf - 3 holes	09/11/81
2042 - 2050'	GB - Zone 12	8' 2 spf - 16 holes	05/07/14
2060 - 2067'	GB - Zone 11	7' 2 spf - 14 holes	05/07/14
2076 - 2084'	GB - Zone 11	8' 2 spf - 16 holes	05/07/14
2092 - 2100'	GB - Zone 10	8' 2 spf - 16 holes	05/07/14
2114 - 2130'	GB - Zone 9	16' 2 spf - 32 holes	05/07/14
2114 - 2130'	GB - Zone 9	*16' 5 spf - 80 holes	07/26/64
2124 - 2128'	GB - Zone 9	*4' 1 spf - 4 holes	09/11/81
2138 - 2144'	GB - Zone 9	6' 2 spf - 12 holes	05/07/14
2154 - 2164'	GB - Zone 8	10' 2 spf - 20 holes	05/07/14
2154 - 2156'	GB - Zone 8	*2' 1 spf - 2 holes	09/11/81
2159 - 2161'	GB - Zone 8	*2' 1 spf - 2 holes	09/11/81
2177 - 2182'	GB - Zone 7	5' 2 spf - 10 holes	05/07/14
2177 - 2181'	GB - Zone 7	*4' 1 spf - 4 holes	09/11/81
2190 - 2196'	GB - Zone 7	6' 2 spf - 12 holes	05/07/14
2192 - 2194'	GB - Zone 7	*2' 1 spf - 2 holes	09/11/81
2206 - 2210'	GB - Zone 6	4' 2 spf - 8 holes	05/07/14
2206 - 2208'	GB - Zone 6	*2' 1 spf - 2 holes	09/11/81
2220 - 2230'	GB - Zone 5	10' 2 spf - 20 holes	05/07/14
	GB - Zone 4		
2243 - 2258'	GB - Zone 3	12' 2 spf - 24 holes	05/07/14
2246 - 2250'	GB - Zone 3	*4' 1 spf - 4 holes	09/11/81
2253 - 2257'	GB - Zone 3	*4' 1 spf - 4 holes	09/11/81
2274 - 2277'	GB - Zone 3	3' 1 spf - 3 holes	09/11/81
NDE	GB - Zone 2	NDE	
NDE	GB - Zone 1	NDE	
2,293' Csg	*TOTALS:*	*107' -- 324 holes*	

2,293' PBTD (04/30/14)
2,295' TD

** Duplicate perf'd intervals*

Originally Drilled as the MARATHON STATE #1 by Kincaid & Watson Drilling Company
Renamed WAGU Tract 7 #6 - 03/21/68.
Initial Water Injection: 11/09/68 thruough perfs 2114-2130' in GB - Zone 9 (Upper Metex).

Cumulative Prod. (04/30/14):

OIL	5,636	MBO
GAS	17,674	MMCF
WATER	0.000	MBW
INJECT.	775,024	MBW

HPS: 06/26/2014

ALAMO PERMIAN RESOURCES, LLC

WELLBORE DIAGRAM

Lease/Well No.: **WAGU No. 012 WIW** ELEVATION, GL: 3,623 ft

Location: 1,650' FSL & 990' FWL
UL: L, SEC: 8 T: 18-S, R:28-E
EDDY County, NM

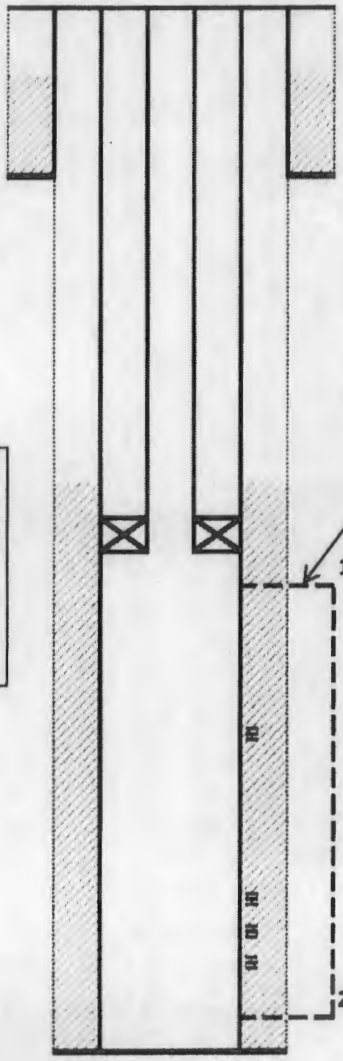
FIELD: **ARTESIA: QN-GB-SA**

LEASE No.: State E-7179

API No. : **30-015-02649**

Spudded: 9/7/1957
Drlg Stopped: 10/7/1957
Completed: 10/11/1957

CABLE TOOLS



10" HOLE

Surface Csg:
8-5/8" 26#
Csg Set @ 441'
Cmt'd w/ 30 sx

8" HOLE

2-3/8" 4.7# J-55 IPC Tubing - ?? jts
Baker Model AD-1 Tension Packer
Set @ 1,901' w/ Unknown Tension

8" HOLE

Production Csg:
5 1/2" 14# J-55
Csg Set @ 2,273'
Cmt'd w/ 100 sx

TOC Est'd @ 228'
Calc'd (75% SF)

441' Csg

TOC Est'd @ 1,735'
Calucated (75% SF)

TOPS	DEPTH, ft
YATES	478
SEVEN RIVERS	789
QUEEN	1,435
LOCO HILLS	1,966
GRAYBURG	1,982
SAN ANDRES	2,268

PROPOSED INJECTION INTERVAL for WAGU #012 WIW:
1,966' - 2,268'
INJECTION ZONES: LOCO HILLS, GRAYBURG, METEX, & PREMIER.

1,966'

2,268'

PERFS:	Zone	SPF - # Holes	Date
	GB - Zone 12		
	GB - Zone 11		
	GB - Zone 10		
	GB - Zone 9		
2114 - 2120'	GB - Zone 8	6' 4 spf - 24 holes	04/01/60
	GB - Zone 7		
	GB - Zone 6		
	GB - Zone 5		
	GB - Zone 4		
2204 - 2210'	GB - Zone 3	6' 4 spf - 24 holes	04/01/60
2236 - 2238'	GB - Zone 2	2' 4 spf - 8 holes	10/07/57
2245 - 2253'	GB - Zone 1	8' 4 spf - 32 holes	10/07/57
	TOTALS:	*22' -- 88 holes*	

2,273' Csg
2,273' PBTD
2,273' TD

Originally Drilled as the SIGNAL STATE #1 by Roach & Sheppard
Renamed WAGU Tract 5 #12 - 03/21/68.
Initial Water Injection: 04/25/71 with packer @ 2189' & perforations 2114-20', 2204-10', 2236-38', & 2245-53'.

Cumulative Prod. (04/30/14):

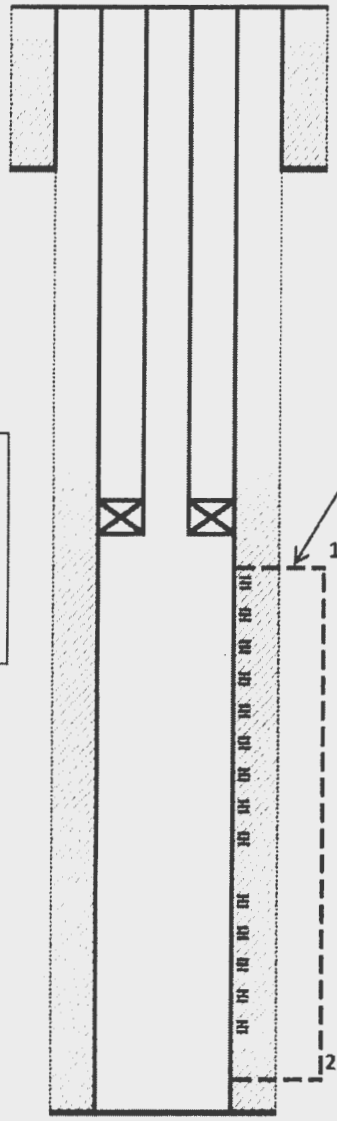
OIL	50.656	MBO
GAS	3.836	MMCF
WATER	18.433	MBW
INJECT.	573.000	MBW

HPS: 06/26/2014

ALAMO PERMIAN RESOURCES, LLC

WELLBORE DIAGRAM

Lease/Well No.:	**WAGU No. 013 WIW**	ELEVATION, GL:	3,621 ft
Location:	2,310' FSL & 330' FEL		
	UL: I, SEC: 7 T: 18-S, R:28-E	FIELD:	**ARTESIA: QN-GB-SA**
	EDDY County, NM		
LEASE No.:	State OG-780	Spudded:	6/21/1958
API No. :	**30-015-02636**	Drlg Stopped:	7/17/1958
		Completed:	8/1/1958
	CABLE TOOLS	LAT:	
		LONG:	



10" HOLE

Surface Csg:
8-5/8" 28#
Csg Set @ 457'
Cmt'd w/ 50 sx

TOC Est'd @ 103'
Calc'd (75% SF)

457' Csg

TOPS	DEPTH, ft	
YATES	431	
SEVEN RIVERS	739	
QUEEN	1,382	
LOCO HILLS	1,928	
GRAYBURG	1,943	
SAN ANDRES	2,239	Est'd - Well NDE

TOC Est'd @ 1,714'
Calucated (75% SF)

PROPOSED INJECTION INTERVAL for WAGU #013 WIW:
1,928' - 2,239'
INJECTION ZONES: LOCO HILLS, GRAYBURG, METEX, & PREMIER.

2-3/8" 4.7# J-55
IPC Tubing - 56 jts
Baker Model AD-1
Tension Packer
Set @ 1,875.32'
15,000# Tension
3/4/2014

8" HOLE

Production Csg:
5 1/2" 15.5# J-55
Csg Set @ 2,251'
Cmt'd w/ 100 sx

1,928'

2,239'

PERFS:	Zone	SPF - # Holes	Date
1932 - 1938'	GB - Zone 12	6' 2 spf - 12 holes	11/16/10
1997 - 2005'	GB - Zone 11	8' 2 spf - 16 holes	11/16/10
2011 - 2018'	GB - Zone 10	7' 2 spf - 14 holes	11/16/10
2032 - 2045'	GB - Zone 9	13' 2 spf - 26 holes	11/16/10
2063 - 2065'	GB - Zone 8	2' 4 spf - 8 holes	06/17/68
2072 - 2074'	GB - Zone 8	2' 4 spf - 8 holes	06/17/68
2075 - 2081'	GB - Zone 8	6' 4 spf - 24 holes	06/17/68
2097 - 2110'	GB - Zone 7	13' 2 spf - 26 holes	11/16/10
2110 - 2119'	GB - Zone 6	9' 2 spf - 18 holes	11/16/10
	GB - Zone 5		
2148 - 2152'	GB - Zone 4	4' 2 spf - 8 holes	11/16/10
2164 - 2172'	GB - Zone 3	8' 4 spf - 32 holes	08/01/58
2186 - 2190'	GB - Zone 3	4' 4 spf - 16 holes	08/01/58
2200 - 2203'	GB - Zone 2	3' 4 spf - 12 holes	08/01/58
2203 - 2208'	GB - Zone 1	5' 4 spf - 20 holes	08/01/58
	TOTALS:	*90' -- 240 holes*	

2,251' Csg
2,250' PBTD (logged from 2,237' - 11/16/10) (03/03/14)
2,252' TD

Originally Drilled as T.P. STATE #1 by Ralph Nix & Jerry Curtis
Renamed WAGU Tract 8 #13 - 03/21/68.
Initial Water Injection: 11/09/68 with packer @ 2134.54'. Injection down tbg into Premier (2164-72', 2186-90', & 2200-08') and down annulus into Metex (2063-65', 2072-74', & 2075-81').

Cumulative Prod. (04/30/14):		
OIL	19.811	MBO
GAS	20.769	MMCF
WATER	0.000	MBW
INJECT.	502.690	MBW

HPS: 06/26/2014

ALAMO PERMIAN RESOURCES, LLC
WELLBORE DIAGRAM

Lease/Well No.: **WAGU No. 018 WIW**
ELEVATION, GL: 3,611 ft

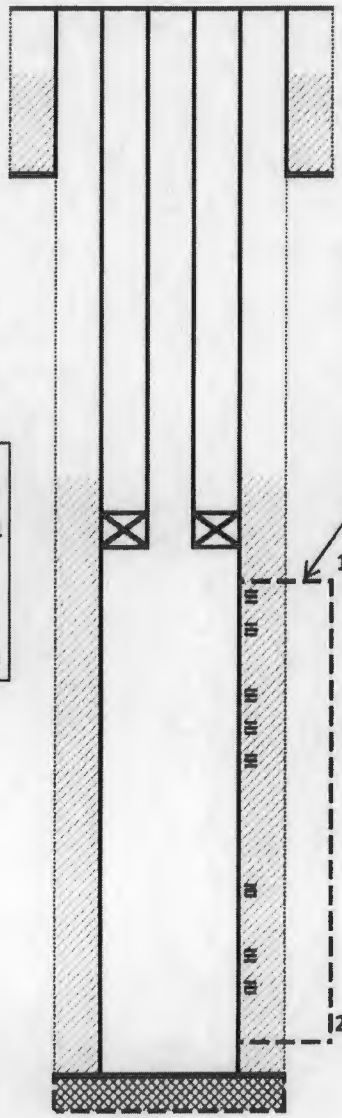
Location: 330' FNL & 990' FWL
UL: D, SEC: 17, T: 18-S, R:28-E
EDDY County, NM

FIELD: ARTESIA: QN-GB-SA

LEASE No.: Fee Lease
API No. : 30-015-01899

Spudded: 3/26/1960
Drlg Stopped: 5/12/1960
Completed: 7/15/1960
LAT:
LONG:

CABLE TOOLS



10" HOLE

Surface Csg:
8-5/8" 24#
Csg Set @ 506'
Cmt'd w/ 50 sx

TOC Est'd @ 152'
Calc'd (75% SF)
506'

TOPS	DEPTH, ft
YATES	526
SEVEN RIVERS	850
QUEEN	1,490
LOCO HILLS	1,998
GRAYBURG	2,016
SAN ANDRES	2,295

TOC Est'd @ 1,919'
Calucated (75% SF)

8" HOLE

PROPOSED INJECTION INTERVAL for WAGU #018 WIW:
1,998' - 2,295'
INJECTION ZONES: LOCO HILLS, GRAYBURG, METEX, & PREMIER.

2-3/8" 4.7# J-55
IPC Tubing - 59 jts
Baker Model AD-1
Tension Packer
Set @ 1,918.13'
16,000# Tension
3/21/2014

1,998'

PERFS:	Zone	SPF - # Holes	Date
2009 - 2014'	GB - Zone 12	5' 10 spf - 52 holes	01/15/69
2068 - 2071'	GB - Zone 11	3' 2 spf - 6 holes	11/16/10
	GB - Zone 10		
2115 - 2117'	GB - Zone 9	2' 6 spf - 12 holes	07/15/60
2132 - 2146'	GB - Zone 8	14' 2 spf - 28 holes	11/16/10
2167 - 2179'	GB - Zone 7	12' 2 spf - 24 holes	11/16/10
	GB - Zone 6		
	GB - Zone 5		
	GB - Zone 4		
2231 - 2235'	GB - Zone 3	4' 4 spf - 16 holes	07/15/60
	GB - Zone 2		
2269 - 2275'	GB - Zone 1	6' 4 spf - 24 holes	07/15/60
2277 - 2279'	GB - Zone 1	2' 4 spf - 8 holes	07/15/60
		TOTALS: *48' -- 170 holes*	

2,295'

Production Csg:
5 1/2" 14# J-55
Csg Set @ 2,317'
Cmt'd w/ 100 sx

2,317'
2,317' PBTD (11/16/2010)
2,415' TD

Originally Drilled as the LEONARD #1 by C.E. Roach Drilling Company
Renamed WAGU Tract 11 #18 - 03/21/68.
Initial Water Injection: 01/26/69. Injection down Tubing (WAGU): 2115-17', 2231-35', 2267-69', & 2277-79'. Injection down Annulus ("Old Field"): 2009-14'. Pkr @ 2056.5'.

Cumulative Prod. (4/30/14):

OIL	5.592	MBO
GAS	10.830	MMCF
WATER	0.000	MBW
INJECT.	741.062	MBW

HPS: 06/26/2014

Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised August 1, 2011

WELL API NO.
30-015-02645

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.
OG-1644

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

7. Lease Name or Unit Agreement Name
WEST ARTESIA GRAYBURG UNIT

1. Type of Well: Oil Well ☐ Gas Well ☐ Other Injection Well ☒

8. Well Number 1

2. Name of Operator
Alamo Permian Resources, LLC

9. OGRID Number
274841

3. Address of Operator
415 W. Wall Street, Suite 500, Midland, TX 79701

10. Pool name or Wildcat
Artesia; QN-GB-SA

4. Well Location
Unit Letter C : 990 feet from the N line and 2310 feet from the W line
Section 8 Township 18S Range 28E NMPM County EDDY

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
OTHER:	☐			OTHER: Acidize & RTP	☒		

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

- See Attached

RECEIVED
MAR 13 2014
NMOCD ARTESIA

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

SIGNATURE Carie Stoker TITLE **Regulatory Affairs Coordinator** DATE 02/27/2014

Type or print name **CARIE STOKER** E-mail address: **carie@stokeroilfield.com** PHONE: **432.664.7659**

APPROVED BY: KRDade TITLE Dist II Supervisor DATE 3/14/2014
Conditions of Approval (if any):

WEST ARTESIA GRAYBURG UNIT #001 (WIW)		
		Perfs: 1982 – 2264'
API: 30-015-02645	Lease: OG-1644	Spud: 10/03/58
C-8-18S-28E	990 FNL & 2310 FWL	P&A:
Eddy Co., NM	Pool: 3230 - ARTESIA; Queen-Grayburg-San Andres	

Objective: Clean out and acidize. RTP

02/19/14
MIRU Rig. Bled off 850 psi pressure to vac truck. ND WH, NU BOP. Work pkr free. Move in mule shoe, off-load WS & tally. RIH w/395' to tag fill. POOH w/pkr slow due to drag. Prep to RIH w/. Shut down due to strong wind. Well venting to line.
Note: Tagged fill @ 2211.00'. 66.00' of fill.

02/20/14
Bled off 150 psi well pressure. RIH w/mule shoe, 5-1/2" drillable csg scraper on 2-3/8" WS. Tag fill @ 2211'. RU swivel & kill truck. Break circ w/15 bbl, 2.5 BPM w/250-300 psi pressure w/80% returns. Tried to circ & rotate using tbg tongs f/2 hrs without success. LD swivel & RD kill truck. PUH above perfs w/csg scraper. SI BOP & vent tbg to line. SD due to strong wind.

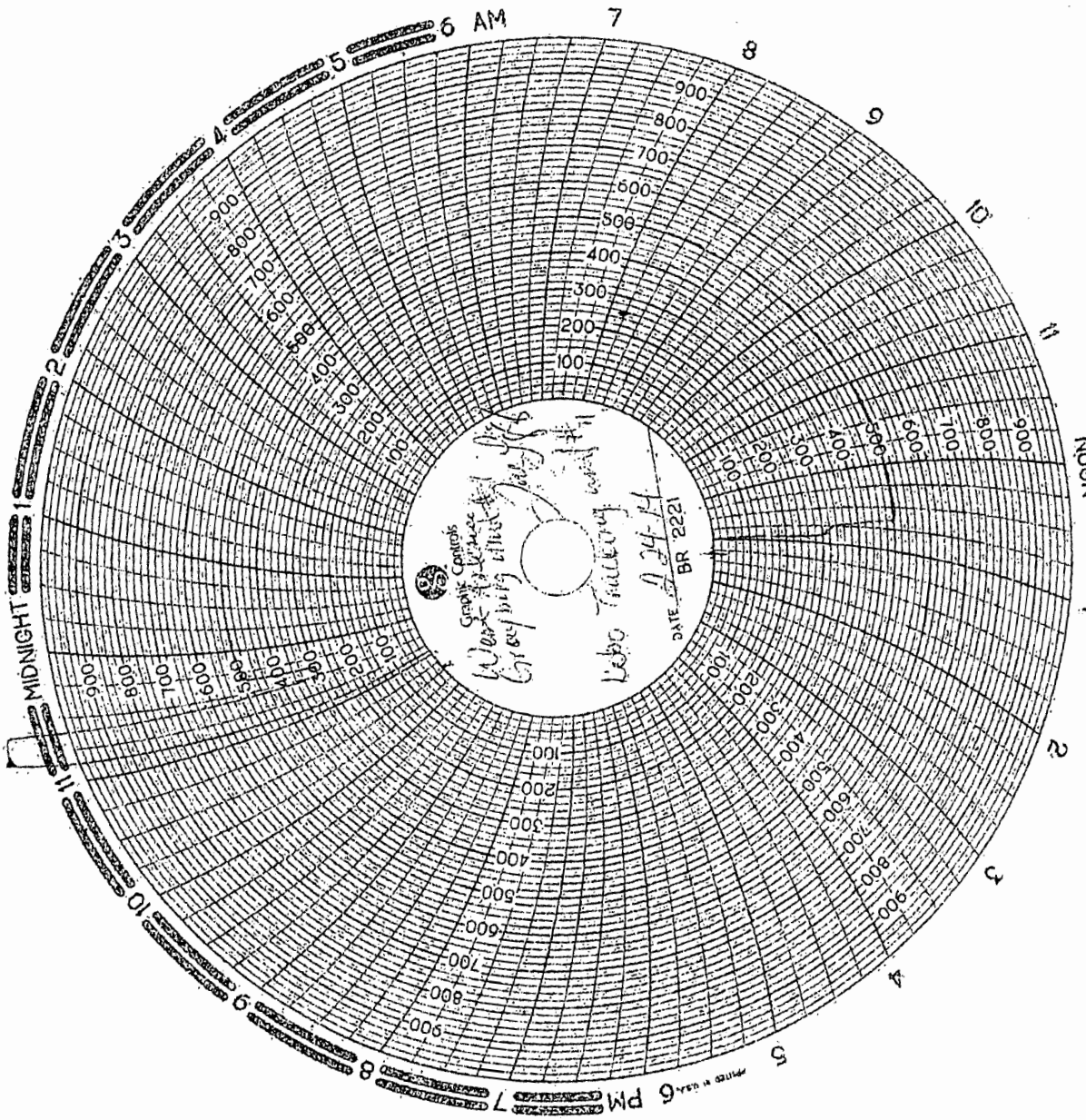
02/21/14
Bled off 100 psi pressure. POOH w/mule shoe, csg scraper & tbg. PU & RIH w/4-3/4" mill-tooth skirted bit, drillable csg scraper, (4) 3-1/2" DCs on 2-3/8" WS. Tag fill. NU swivel & RU kill truck. Break circ w/2.5 BPM @ 300-350 psi. Drill up bridge @ 2211'. Wash & rotate to bridge @ 2238'. Drill up salt ring & continue in the hole to 2265'. Drill to 2277'. Circ well clean w/70 BFW. Recover salt, iron sulphite & some sand. RD kill truck. POOH laying dwn WS & DCs. LD bit & csg scraper. Vent well to line. Move 2-3/8" WS to yard. SDFWE.

02/24/14
Bled off well pressure. MIRU Testers. PU 5-1/2"x15.5x2-3/8" Baker AD-1 tension pkr. Test 2-3/8" EUE 8rd IPC tbg in the hole to 5000 psi below slips. Replace joint #17 due to crimp. RD testers. Circ 75 bbls 2% KCl wtr w/pkr fluid. Set pkr w/15,000 lbs tension. ND BOP, NU WH. Pressure csg to 500 psi. Chart f/30 mins. No pressure drop (ok). RD chart.
RU kill truck on tbg & pumped 9,000 gals 15% NeFe HCl w/acid booster, anti-sludge, paraffin solvent, scale inhibitor & demulsifiers.
Max Pressure: 1400 PSI Avg Pressure: 1300 PSI
Max Rate: 1.5 BPM Avg Rate: 1.5 BPM
ISIP: 1300 PSI
5 mins: 1200 PSI
10 mins: 1200 PSI
15 mins: 1200 PSI
Flush to bottom perfs w/WAGU produced water.

	Description		Length	Depth
Tubing		KB	5.00'	5.00'
	56	jts 2⅜" EUE 8rd IPC Tubing	1808.63'	1813.63'
	1	5½"x15.5#x2-3/8" Baker AD-1 Packer	2.39'	1816.02'

2/26/14
MIRU Kill truck to pump rate & pressure test dwn 2-3/8" TBG w/ clean produced wtr; opened well w/ 200 PSI; pumped as follows:

0.25 BPM 700 PSI PUMPED 5 BBLS
0.50 BPM 900 PSI PUMPED 5 BBLS
0.75 BPM 1000 PSI PUMPED 5 BBLS
1.00 BPM 1075 PSI PUMPED 5 BBLS
1.25 BPM 1150 PSI PUMPED 5 BBLS
1.50 BPM 1200 PSI PUMPED 5 BBLS
1.75 BPM 1250 PSI PUMPED 5 BBLS
2.00 BPM 1300 PSI PUMPED 5 BBLS
ISIP 1100 PSI. SWI. RDMO.


6 AM
7
8
9
10
11
NOON
1
2
3
4
5
6 PM
7
8
9
10
11
MIDNIGHT
1
2
3
4
5
100
200
300
400
500
600
700
800
900
Graphic Controls
DATE
BR 2221

Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised August 1, 2011

WELL API NO.
30-015-02648

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.
B-11539

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

7. Lease Name or Unit Agreement Name
WEST ARTESIA GRAYBURG UNIT

1. Type of Well: Oil Well ☐ Gas Well ☐ Other Injection Well ☒

8. Well Number 004

2. Name of Operator
Alamo Permian Resources, LLC

RECEIVED
SEP 16 2013
NMOCD ARTESIA

9. OGRID Number
274841

3. Address of Operator
415 W. Wall Street, Suite 500, Midland, TX 79701

10. Pool name or Wildcat
Artesia; Queen-Grayburg-San Andres

4. Well Location
Unit Letter E : 2310 feet from the N line and 990 feet from the W line
Section 8 Township 18S Range 28E NMPM County EDDY

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☒	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
OTHER: ☐		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

REMEDIAL WORKOVER DUE TO FAILED MIT

09/09/13
MIRU Aztec Rig #523. ND WH, NU BOP w/catch pan. Work & release pkr. POOH w/Lok-Set type pkr. RIH w/5-1/2" bit & scraper to 2227.44'. POOH w/bit & scraper. Closed BOP. Well venting to frac tanks. SDFN.

09/10/13
RIH w/5-1/2"x2-3/8" bulldog bailer. Tag fill 2227.44'. Made 10' & bailed thru bridge. Continue bailing to 2279'. POOH w/bailer. LD cavity (recovered salt, sand, iron sulfite & scale). LD bailer. Close BOP & left well venting to frac tanks. SDFN.
Note: Plan to test in the hole tomorrow, circ pkr fluid, set pkr & chart pressure test.

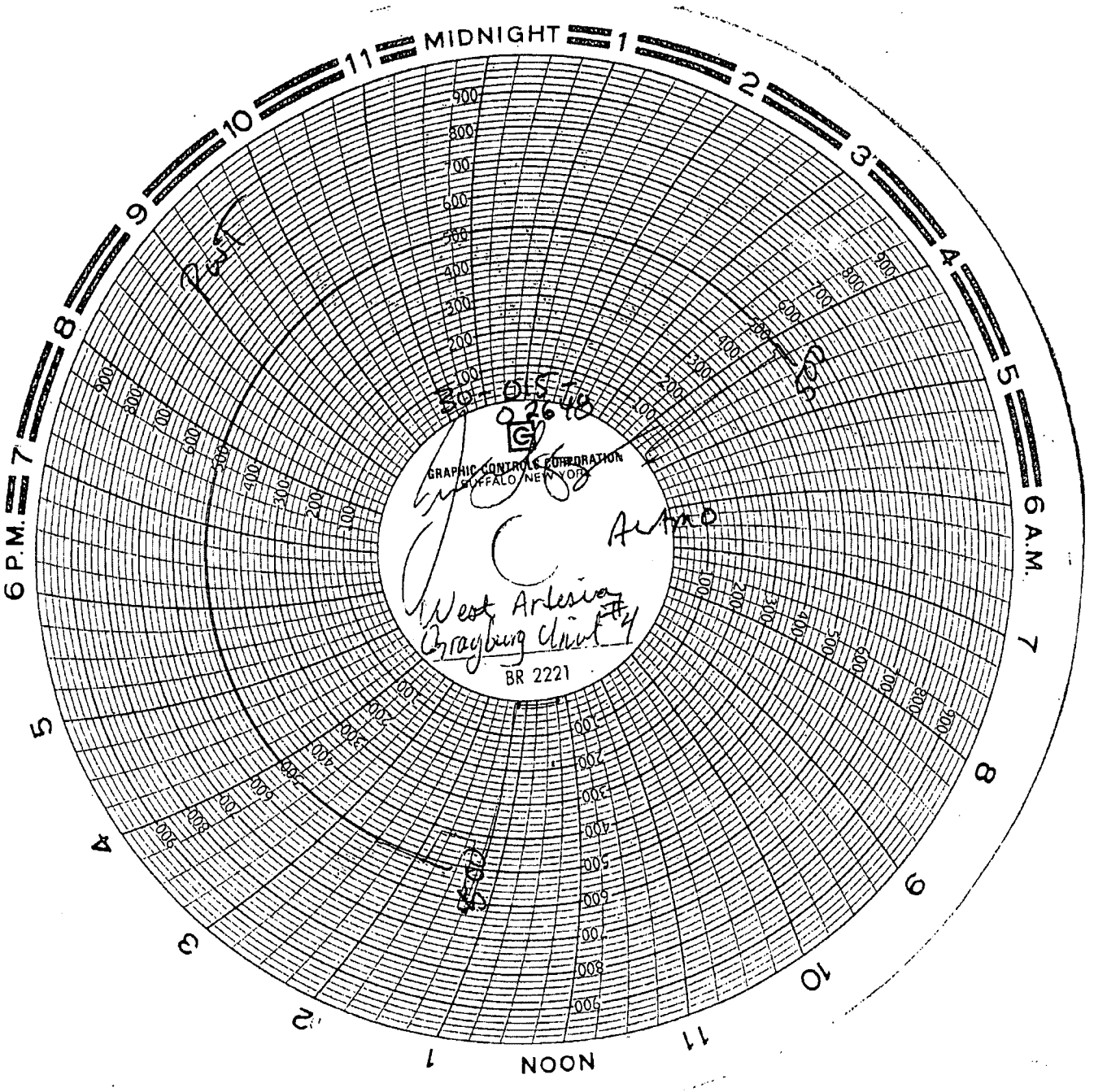
09/11/13
MIRU testers. PU 5-1/2"x14#x2-3/8" AD-1 tension pkr. Test 58 jts 2-3/8" IPC tbg in the hole to 5000 psi, ok. RD testers. RU Lobo kill truck. Pump 75 bbls pkr fluid to get clean returns. ND BOP, NU WH. Set pkr w/14,000# tension. Pressure & chart annulus to 500 psi for 30 mins. No leak-off. RD kill truck. Release all rentals. Clean location. RDMO.

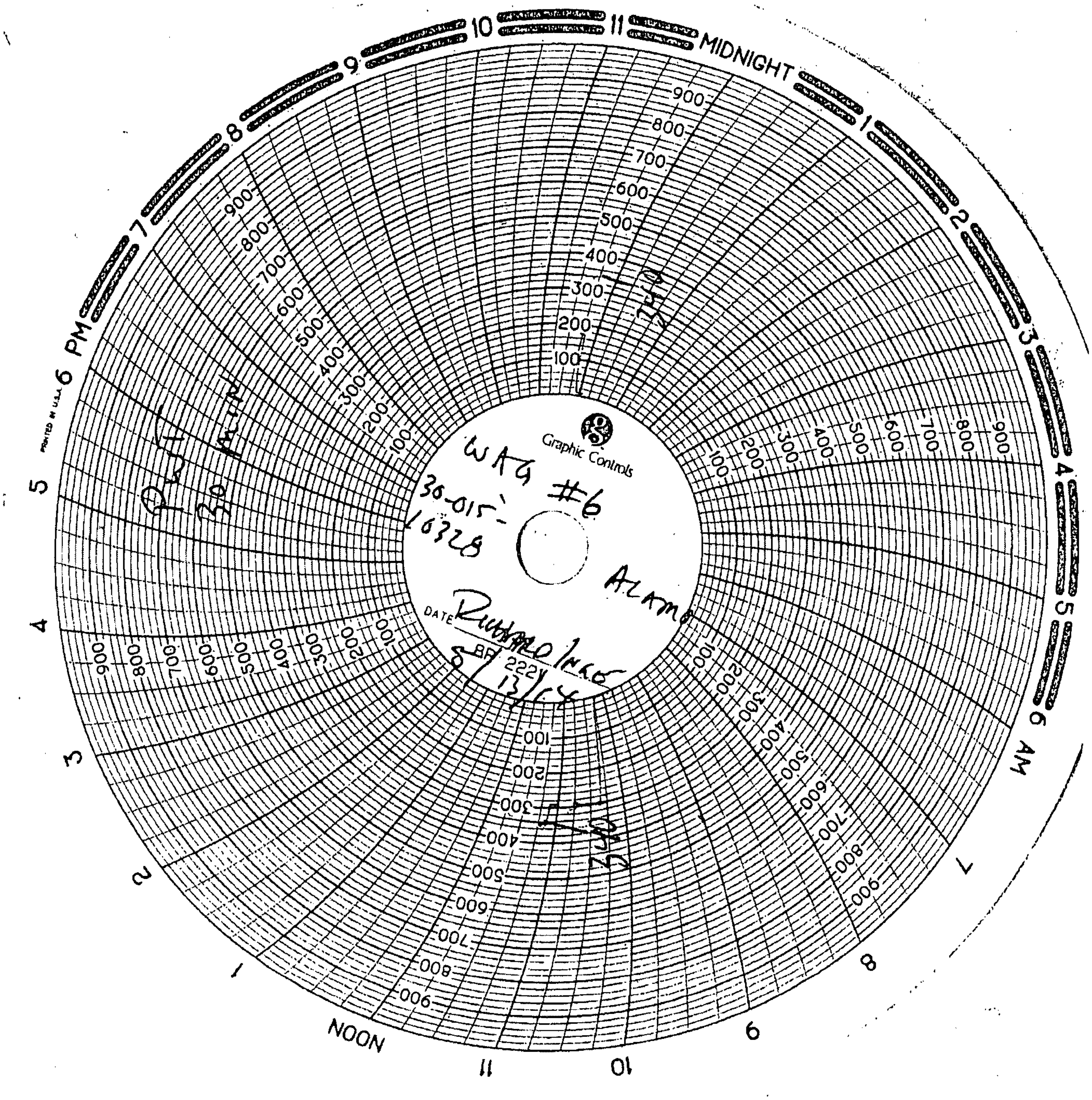
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Carie Stoker TITLE Regulatory Affairs Coordinator DATE 09/12/2013

Type or print name CARIE STOKER E-mail address: carie@stokeroilfield.com PHONE: 432.664.7659

APPROVED BY: Richard Inge TITLE Compliance Officer DATE 10/9/13
Conditions of Approval (if any):


MIDNIGHT
NOON
6 P.M.
6 A.M.
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
West Arlesia
Grayburg Unit #4
BR 2221


MIDNIGHT
NOON
6 PM
AM
Graphic Controls
DATE
BR 2221
PRINTED IN U.S.A.
WAG #6
30-015-10328
Alamo

GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
MIDNIGHT
6 P.M.
12
11
10
9
8
7
6
5
4
3
2
1
100
200
300
400
500
600
700
800
900

Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised August 1, 2011

	WELL API NO. 30-015-02636
	5. Indicate Type of Lease STATE ☒ FEE ☐
	6. State Oil & Gas Lease No. OG-780
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well ☐ Gas Well ☐ Other Injection Well ☒	7. Lease Name or Unit Agreement Name WEST ARTESIA GRAYBURG UNIT 8. Well Number 013
2. Name of Operator **Alamo Permian Resources, LLC**	9. OGRID Number **274841**
3. Address of Operator **415 W. Wall Street, Suite 500, Midland, TX 79701**	10. Pool name or Wildcat Artesia; Queen-Grayburg-San Andres
4. Well Location Unit Letter I : 2310 feet from the S line and 330 feet from the E line Section 7 Township 18S Range 28E NMPM County EDDY	
	11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☒	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
OTHER: ☐		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

SEE ATTACHED

RECEIVED
MAR 13 2014
NMOCD ARTESIA

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

SIGNATURE Carie Stoker TITLE Regulatory Affairs Coordinator DATE 03/06/2014

Type or print name CARIE STOKER E-mail address: carie@stokeroilfield.com PHONE: 432.664.7659

APPROVED BY: [illegible] TITLE Dist II Supervisor DATE 3/14/2014

Conditions of Approval (if any):

WEST ARTESIA GRAYBURG UNIT #013 WIW		
AFE:		Perfs: 1932 – 2208' OA
API: 30-015-02636	Lease: OG-780	Spud: 6/21/58
I-7-18S-28E	2310 FSL & 330 FEL	P&A: n/a
Eddy Co., NM	Pool: 3230- ARTESIA; QN-GB-SA	

Objective: Clean out and matrix acidize.

02/28/14

MIRU PU. Bled off slight tbg pressure. ND WH, NU BOP. Release Baker AD-1 tension pkr. PU 8 jts, tag fill @ 2131'. POOH w/tbg & pkr. PU 4-3/4" skirted bit, 5-1/2" rotating csg scraper on 2-3/8" WS to 1562'. SWI. SDFWE.

03/03/14

Bled off well pressure. Continue to PU 2-3/8" WS to 2131'. RU swivel. Rotate & wash to 2250'. Circ well clean. POOH laying down WS. Wait on tbg testers. RU testers. Try to run undersized cups in IPC tbg without success. Appears to have some scale build-up in IPC tbg. RD testers. SWI. SDFN.

03/04/14

Bled off well pressure. RIH w/ bull plug and 2-3/8" J55 IPC tbg. Testing tubing every 10 stands. Found collar leak on jnt 46. Replaced collar and continued testing tubing. OK. POOH pulling tubing wet. PU and RIH w/ 5-1/2" x 15.5# x 2-3/8" baker ad-1 tension packer on 2-3/8" ipc tubing to 1875'. Circulated 75 bbls 2% kcl with packer fluid. Set packer @ 1855' with 15,000 lbs tension. ND BOP. NU wellhead. Pressured casing to 500 psi and charted annulus for 30 mins. OK. MIRU- pumped matrix acid job down 2-3/8" injection string with 6000 gals 15% NEFE HCL acid, acid booster,anti-sledge, paraffin solvent, scale inhibitor,and demulsifiers @ 1.5 bpm. Max pressure 998 psi. Average pressure 912 psi. .rate 1.5 bpm. ISIP 778 psi. 5 min 752 psi. 10 min 743 psi. 15 mins 737 psi. 158 bbls load, SWI for acid to spend. Cleaned location. RDMO.

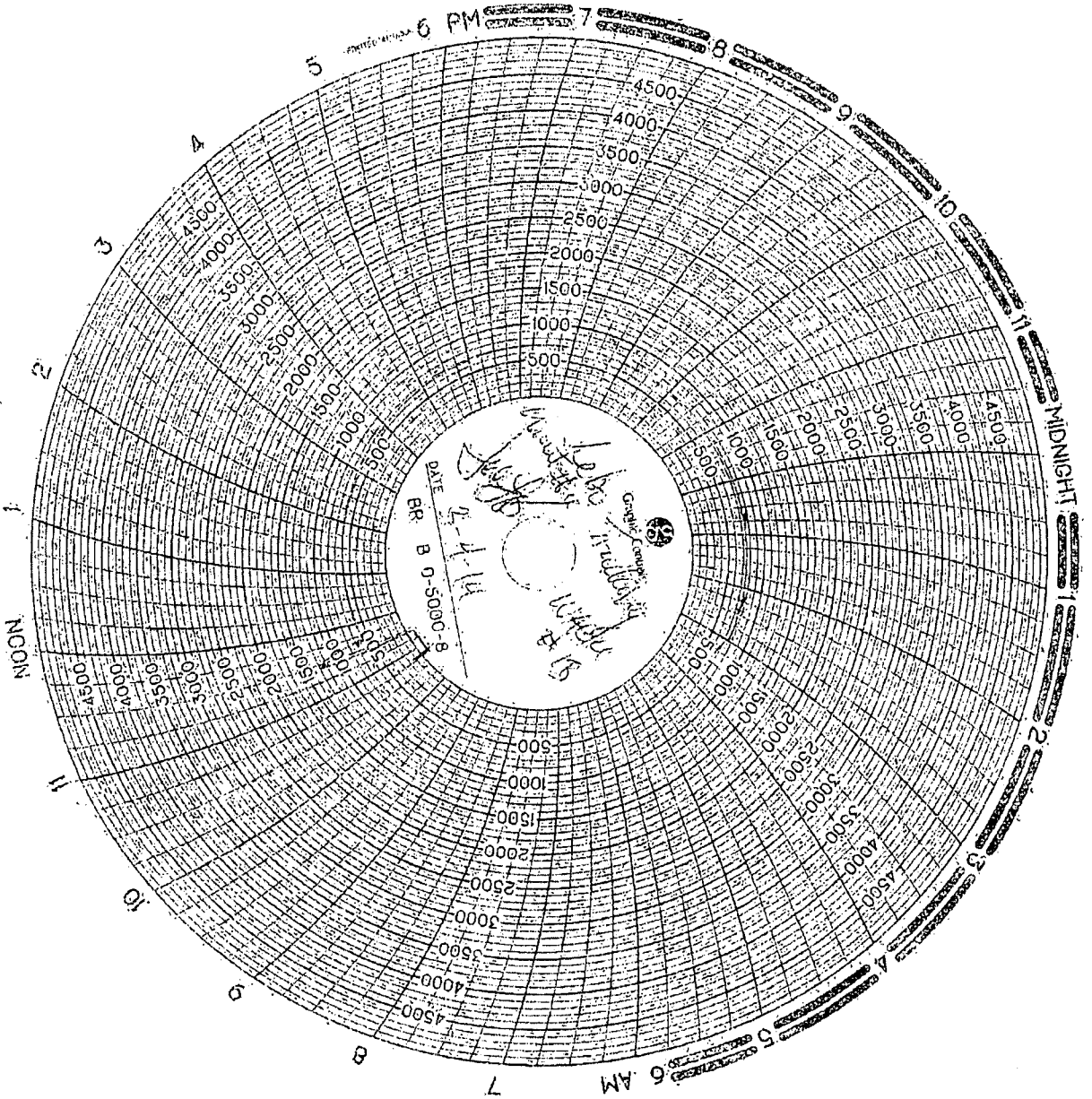
KB	6.00'	6.00'
56 JTS 2-3/8" J55 IPC EUE 8RD TBG.	1866.42'	1872.32'
5-1/2" X 15.5# X 2-3/8" BAKER AD-1 PKR.	2.90'	1875.32'

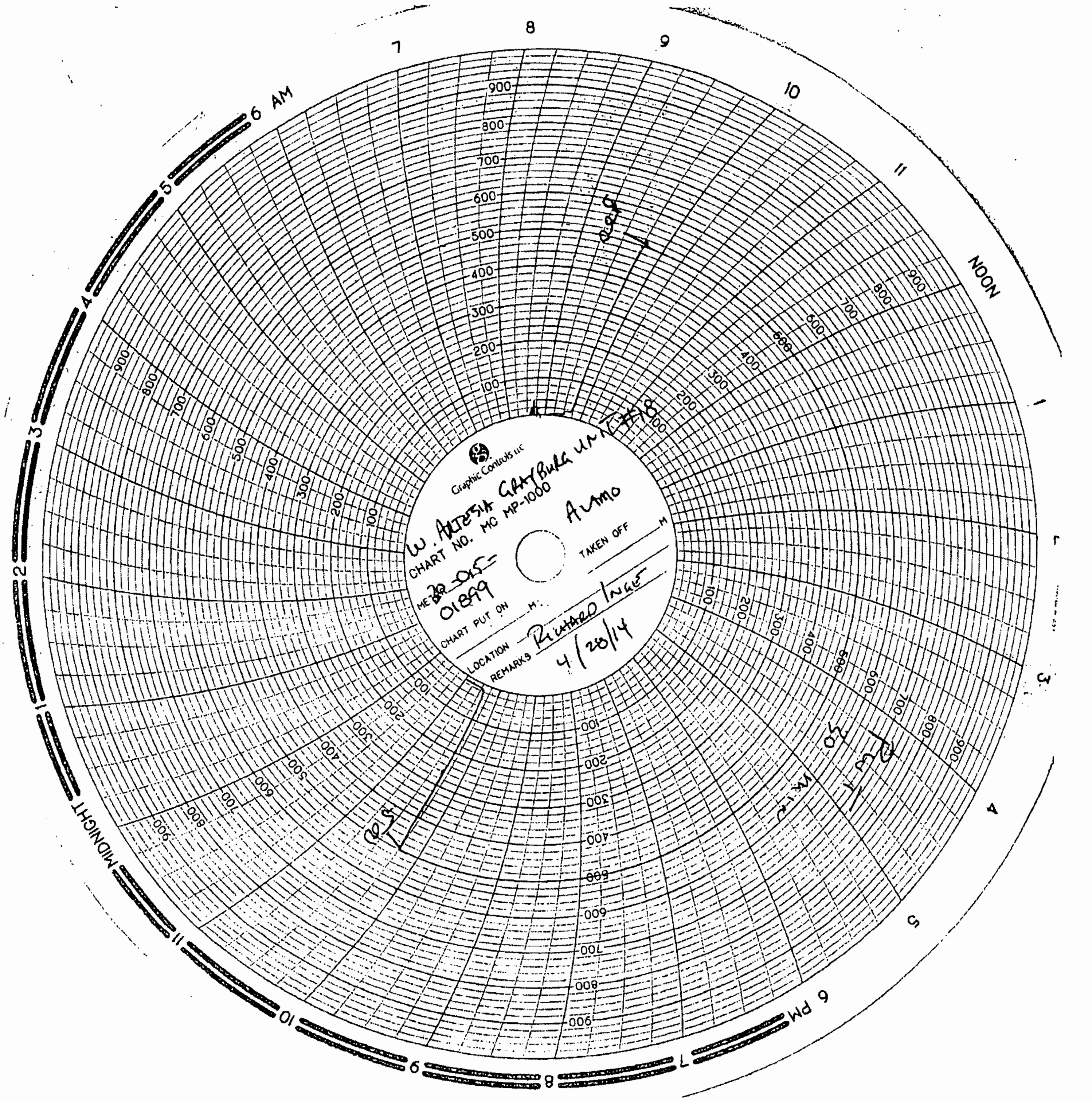
03/5/14

MIRU kill truck to pump rate and pressure test down 2-3/8" TBG w/ clean produced water. Opened

well w/ 400 PSI. Pumped as follows:

0.25 BPM 500 PSI PUMPED 5 BBLS
0.50 BPM 500 PSI PUMPED 5 BBLS
0.75 BPM 600 PSI PUMPED 5 BBLS
1.00 BPM 600 PSI PUMPED 5 BBLS
1.25 BPM 700 PSI PUMPED 5 BBLS
1.50 BPM 800 PSI PUMPED 5 BBLS
1.75 BPM 900 PSI PUMPED 5 BBLS
2.00 BPM 975 PSI PUMPED 5 BBLS
ISIP 700 PSI. SWI. RDMO.


6 PM
7
8
9
10
11
MIDNIGHT
1
2
3
4
5
6 AM
7
8
9
10
11
NOON
1
2
3
4
5
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
DATE
BR B 0-5000-8


Graphic Controls LLC
CHART NO. MC MP-1000
W. Artesia Grayburg Unit #18
Alamo
METER 30-015-01899
CHART PUT ON
TAKEN OFF
LOCATION Richard Inge
REMARKS 4/28/14
6 AM
NOON
6 PM
MIDNIGHT

Alamo Permian Resources, LLC: WEST ARTESIA GRAYBURG UNIT -- Form C-108 Application Filing

VI. Tabulation of Data On All Wells of Public Record Within the Area of Review Which Penetrate the Proposed Injection Zone

Sorted by Section (UPDATED: July 02, 2014)

No.	Lease Name	Well No.	API No.	Operator	LOCATION			Well Type	Well Status	Spud Date	Total Depth	Surface Casing				
					UL	Sec,Twp,Rge	FootageCalls					Hole Size	Casing Size	Setting Depth	Sacks Cmt	TOC
1	SOLT STATE	1	30-015-25277	ALAMO PERMIAN RESOURCES, LLC	O	S:5, T:18S, R:28E	660 FSL, 1980 FEL	Oil	Pumping	5/8/1985	3500'	12-1/4"	8-5/8"	352'	250	Surface
2	SOLT STATE	2	30-015-25278	ALAMO PERMIAN RESOURCES, LLC	P	S:5, T:18S, R:28E	330 FSL, 990 FEL	Oil	Pumping	5/16/1985	3500'	12-1/4"	8-5/8"	351'	200	Surface
3	SOLT STATE	3	30-015-25390	ALAMO PERMIAN RESOURCES, LLC	O	S:5, T:18S, R:28E	990 FSL, 1650 FEL	Oil	Pumping	9/30/1985	3020'	12-1/4"	8-5/8"	352'	200	Surface
4	SOLT STATE	4	30-015-25391	ALAMO PERMIAN RESOURCES, LLC	P	S:5, T:18S, R:28E	330 FSL, 330 FEL	Oil	Pumping	10/15/1985	3039'	12-1/4"	8-5/8"	350'	225	Surface
5	S A SOLT	1	30-015-28600	CAMERON OIL & GAS INC	J	S:5, T:18S, R:28E	1650 FSL, 2310 FEL	Oil	Pumping	9/13/1995	3175'	12-1/4"	8-5/8"	362'	350	Surface
6	S A SOLT	2	30-015-28764	CAMERON OIL & GAS INC	N	S:5, T:18S, R:28E	990 FSL, 2258 FWL	Oil	Pumping	1/29/1996	3200'	12-1/4"	8-5/8"	380'	350	Surface
7	S A SOLT	4	30-015-28990	CAMERON OIL & GAS INC	M	S:5, T:18S, R:28E	330 FSL, 964 FWL	Oil	Pumping	6/14/1996	2850'	12-1/4"	8-5/8"	362'	325	Surface
8	EMPIRE 5 STATE COM	1	30-015-28852	EOG RESOURCES INC	O	S:5, T:18S, R:28E	807 FSL, 1992 FEL	Gas	Flowing	7/23/1996	10438'	14-3/4"	11-3/4"	496'	300	Surface
9	WEST ARTESIA GRAYBURG UNIT	3	30-015-02630	ALAMO PERMIAN RESOURCES, LLC	H	S:7, T:18S, R:28E	2310 FNL, 330 FEL	Oil	Pumping	12/18/1957	2415'	10-3/4"	8-5/8"	457'	Mudded	Pulled
10	WEST ARTESIA GRAYBURG UNIT	13	30-015-02636	ALAMO PERMIAN RESOURCES, LLC	I	S:7, T:18S, R:28E	2310 FSL, 330 FEL	Inj	Injection	6/21/1958	2251'	10"	8-5/8"	457'	50	103'
11	WEST ARTESIA GRAYBURG UNIT	14	30-015-02635	ALAMO PERMIAN RESOURCES, LLC	P	S:7, T:18S, R:28E	990 FSL, 330 FEL	Oil	Pumping	6/30/1958	2225'	10"	8-5/8"	460'	30	247'
12	WEST ARTESIA GRAYBURG UNIT TRACT 1	15	30-015-02634	MACK ENERGY CORP	P	S:7, T:18S, R:28E	400 FSL, 330 FEL	Oil	P&A	7/19/1950	2235'	10"	8-5/8"	496'	50	142'
13	WEST ARTESIA GRAYBURG UNIT	25	30-015-23741	MARBOB ENERGY CORP	I	S:7, T:18S, R:28E	1650 FSL, 940 FEL	Oil	P&A	5/5/1981	2530'	12-1/4"	8-5/8"	477'	300	Surface
14	ARTESIA SWD	1	30-015-25271	DCP MIDSTREAM, LP	O	S:7, T:18S, R:28E	330 FSL, 2310 FEL	Disp	Disposal	6/7/1985	4115'	12-1/4"	8-5/8"	355'	350	Surface
15	DUKE AG	1	30-015-32324	DCP MIDSTREAM, LP (DUKE)	O	S:7, T:18S, R:28E	1232 FSL, 1927 FEL	Inj	Gas Inj.	8/14/2002	11520'	17-1/2"	13-3/8"	530'	675	Surface
16	TEXACO STATE	2	30-015-02633	KERSEY & COMPANY	J	S:7, T:18S, R:28E	1650 FSL, 1650 FEL	Oil	P&A	12/23/1961	2362'	10"	8-5/8"	465'	50	
17	STATE BY	1	30-015-25236	MOREXCO INC	F	S:7, T:18S, R:28E	1980 FNL, 1980 FWL	Oil	Pumping	12/23/1995	2600'	17-1/2"	13-3/8"	418'	500	Surface
18	SUN STATE	1	30-015-24774	MOREXCO INC	A	S:7, T:18S, R:28E	990 FNL, 430 FEL	Oil	Pumping	3/1/1984	2502'	12-1/4"	8-5/8"	365'	350	Surface
19	HUMBLE STATE	1	30-015-02629	J.F. BEDINGFIELD	G	S:7, T:18S, R:28E	2310 FNL, 1659 FEL	Oil	P&A	3/19/1958	2377'	10-3/4"	8-5/8"	406'	50	
20	STATE CG	1	30-015-25361	RAY WESTALL	J	S:7, T:18S, R:28E	1980 FSL, 2310 FEL	SWD	Disposal	9/6/1985	10380'	17-1/2"	13-3/8"	418'	500	Surface
21	WEST ARTESIA GRAYBURG UNIT	1	30-015-02645	ALAMO PERMIAN RESOURCES, LLC	C	S:8, T:18S, R:28E	990 FNL, 2310 FWL	Inj	Injection	10/3/1958	2297'	10"	8-5/8"	451'	Mudded	---
22	WEST ARTESIA GRAYBURG UNIT	2	30-015-02640	ALAMO PERMIAN RESOURCES, LLC	D	S:8, T:18S, R:28E	990 FNL, 990 FWL	Oil	Pumping	4/18/1958	2382'	10"	8-5/8"	502'	50	148'
23	WEST ARTESIA GRAYBURG UNIT	4	30-015-02648	ALAMO PERMIAN RESOURCES, LLC	E	S:8, T:18S, R:28E	2310 FNL, 990 FWL	Inj	Injection	1/24/1958	2290'	10"	8-5/8"	441'	50	87'
24	WEST ARTESIA GRAYBURG UNIT	5	30-015-02647	ALAMO PERMIAN RESOURCES, LLC	F	S:8, T:18S, R:28E	2310 FNL, 1980 FWL	Oil	Pumping	11/15/1957	2314'	10"	8-5/8"	440'	40	156'
25	WEST ARTESIA GRAYBURG UNIT	6	30-015-10328	ALAMO PERMIAN RESOURCES, LLC	G	S:8, T:18S, R:28E	2310 FNL, 1980 FEL	Inj	Injection	6/24/1964	2293'	11"	8-5/8"	426'	50	231'
26	WEST ARTESIA GRAYBURG UNIT	7	30-015-02639	ALAMO PERMIAN RESOURCES, LLC	H	S:8, T:18S, R:28E	2310 FNL, 990 FEL	Oil	Pumping	5/3/1962	2359'	11"	8-5/8"	472'	50	277'
27	WEST ARTESIA GRAYBURG UNIT	8	30-015-02659	ALAMO PERMIAN RESOURCES, LLC	I	S:8, T:18S, R:28E	2310 FSL, 990 FEL	Oil	Pumping	7/14/1958	2366'	10"	8-5/8"	468'	50	114'
28	WEST ARTESIA GRAYBURG UNIT	9	30-015-02658	ALAMO PERMIAN RESOURCES, LLC	J	S:8, T:18S, R:28E	2310 FSL, 2310 FEL	Oil	Pumping	12/30/1957	2345'	10"	8-5/8"	453'	50	99'
29	WEST ARTESIA GRAYBURG UNIT	10	30-015-02646	MARBOB ENERGY CORP	K	S:8, T:18S, R:28E	2200 FSL, 2200 FWL	Oil	P&A	2/13/1962	2311'	10-3/4"	8-5/8"	442'	50	247'
30	WEST ARTESIA GRAYBURG UNIT	11	30-015-02655	DORAL ENERGY CORP.	K	S:8, T:18S, R:28E	1650 FSL, 1650 FWL	Inj	P&A	12/12/1958	2305'	10"	8-5/8"	500'	Mudded	---
31	WEST ARTESIA GRAYBURG UNIT	12	30-015-02649	ALAMO PERMIAN RESOURCES, LLC	L	S:8, T:18S, R:28E	1650 FSL, 990 FWL	Inj	Injection	9/7/1957	2273'	10"	8-5/8"	441'	30	228'
32	WEST ARTESIA GRAYBURG UNIT	16	30-015-02641	ALAMO PERMIAN RESOURCES, LLC	M	S:8, T:18S, R:28E	400 FSL, 330 FWL	Oil	Active	5/21/1950	2255'	10"	8-5/8"	503'	50	148'
33	WEST ARTESIA GRAYBURG UNIT	17	30-015-02642	ALAMO PERMIAN RESOURCES, LLC	M	S:8, T:18S, R:28E	330 FSL, 987 FWL	Oil	Pumping	9/7/1957	2118'	10"	8-5/8"	500'	25	323'
34	WEST ARTESIA GRAYBURG UNIT	20	30-015-23113	ALAMO PERMIAN RESOURCES, LLC	J	S:8, T:18S, R:28E	1650 FSL, 1980 FEL	Oil	Pumping	1/16/1980	10560'	17-1/2"	13-3/8"	405'	425	Surface
35	WEST ARTESIA GRAYBURG UNIT	21	30-015-23619	ALAMO PERMIAN RESOURCES, LLC	E	S:8, T:18S, R:28E	1650 FNL, 330 FWL	Oil	Pumping	2/3/1981	2520'	12-1/4"	8-5/8"	507'	300	Surface
36	WEST ARTESIA GRAYBURG UNIT	22	30-015-23639	ALAMO PERMIAN RESOURCES, LLC	L	S:8, T:18S, R:28E	2269 FSL, 330 FWL	Oil	P&A	2/12/1981	2551'	12-1/4"	8-5/8"	521'	300	Surface
37	WEST ARTESIA GRAYBURG UNIT	23	30-015-23648	MARBOB ENERGY CORP	L	S:8, T:18S, R:28E	2369 FSL, 971 FWL	Oil	P&A	3/14/1981	2320'	12-1/4"	8-5/8"	500'	300	Surface
38	WEST ARTESIA GRAYBURG UNIT	24	30-015-23724	ALAMO PERMIAN RESOURCES, LLC	M	S:8, T:18S, R:28E	970 FSL, 330 FWL	Oil	Pumping	3/28/1981	2325'	12-1/4"	8-5/8"	515	300	Surface
39	WEST ARTESIA GRAYBURG UNIT	26	30-015-23784	ALAMO PERMIAN RESOURCES, LLC	F	S:8, T:18S, R:28E	1710 FNL, 2274 FWL	Oil	Pumping	7/13/1981	2539'	12-1/4"	8-5/8"	512'	300	Surface
40	WEST ARTESIA GRAYBURG UNIT	27	30-015-23869	ALAMO PERMIAN RESOURCES, LLC	D	S:8, T:18S, R:28E	330 FNL, 330 FWL	Oil	Pumping	7/23/1981	2520'	12-1/4"	8-5/8"	457'	300	Surface
41	WEST ARTESIA GRAYBURG UNIT	28	30-015-39639	ALAMO PERMIAN RESOURCES, LLC	C	S:8, T:18S, R:28E	330 FNL, 1440 FWL	Oil	Pumping	3/4/2013	2370'	12-1/4"	8-5/8"	505'	375	Surface

41 41

Alamo Permian Resources, LLC: **WEST ARTESIA GRAYBURG UNIT -- Form C-108 Application Filing**

VI. Tabulation of Data On All Wells of Public Record Within the Area of Review Which Penetrate the Proposed Injection Zone

Sorted by Section (UPDATED: July 02, 2014)

No.	Lease Name	Well No.	API No.	Production Casing					Overall Perf Interval (No. of Perfs)	Comments
				Hole Size	Casing Size	Setting Depth	Sacks Cmt	TOC		
1	SOLT STATE	1	30-015-25277	7-7/8"	5-1/2"	3500'	900	Surface	1970-3252' (38)	IP 6/26/85 - 33 BO, 42 MCF, 20 BW.
2	SOLT STATE	2	30-015-25278	7-7/8"	5-1/2"	3500'	900	Surface	1976-3241' (37)	IP 7/18/85 - 27 BO, 30 MCF, 37 BW.
3	SOLT STATE	3	30-015-25390	7-7/8"	5-1/2"	3032'	800	Surface	1685-2369' (33)	IP 12/05/85 - 25 BO, 18 MCF, 50 BW.
4	SOLT STATE	4	30-015-25391	7-7/8"	5-1/2"	3032'	800	Surface	1724-2414' ( )	IP 11/15/85 - 50 BO, 50 MCF, 15 BW.
5	S A SOLT	1	30-015-28600	7-7/8"	5-1/2"	2962'	600	Surface	2110-2209' (26)	IP 10/22/95 - 20 BO, 0 MCF, 10 BW.
6	S A SOLT	2	30-015-28764	7-7/8"	5-1/2"	3198'	675	Surface	1966-2236' (25)	IP 2/22/96 - 23 BO, 40 MCF, 48 BW.
7	S A SOLT	4	30-015-28990	7-7/8"	5-1/2"	2849'	600	Surface	2016-2027' (21)	IP 7/21/96 - 17 BO, 12 MCF, 21 BW.
8	EMPIRE 5 STATE COM	1	30-015-28852	11"	5-1/2"	2786'	950	Surface	10,222-10,258' (32)	IP 8/30/96 - 90 BO, 3100 MCF, 0 BW.
				7-7/8"	5-1/2"	10438'	1690			
9	WEST ARTESIA GRAYBURG UNIT	3	30-015-02630	8-5/8"	7"	2160'	650	1695'	1659-2083' (161) + 2160-2235' (Open-Hole)	IP 1/30/58 - 72 BOPD
10	WEST ARTESIA GRAYBURG UNIT	13	30-015-02636	8"	5-1/2"	2251'	100	1713'	2063-2208' (24)	IP 7/22/58 (2164-2208') - 40 BOPD. Converted to WIW 11/09/68.
11	WEST ARTESIA GRAYBURG UNIT	14	30-015-02635	8"	5-1/2"	2215'	80	1795'	1937-2163' (42)	IP 8/03/58 - 79 BOPD
12	WEST ARTESIA GRAYBURG UNIT TRACT 1	15	30-015-02634	8"	---	---	---	---	496-2235' (Open-Hole)	IP 9/01/50 - 35 BOPD. P&A'd - May 1992.
13	WEST ARTESIA GRAYBURG UNIT	25	30-015-23741	7-7/8"	4-1/2"	2523'	625	Surface	1917-2490' (82)	GB & SA. IP 7/4/81 - 8 BOPD, 25 BWPD. P&A - 10/28/1985.
14	ARTESIA SWD	1	30-015-25271	7-7/8"	5-1/2"	4100'	900	Surface	3410-4060' (160)	Completed 3/14/1986. SWD Well.
15	DUKE AG	1	30-015-32324	12-1/4"	9-5/8"	4200'	1025	Surface	11,207-11,412' (192)	Devonian - Acid Gas Injection Well.
				8-3/4"	7"	11520'	n/a	2510'		
16	TEXACO STATE	2	30-015-02633	8"	4-1/2"	2353'	120	1831'	2054-2186' ( )	IP 2/20/62 - 52 BO, 0 MCF, 0 BW. P&A'd - 12/19/2008.
17	STATE BY	1	30-015-25236	11"	8-5/8"	2600'	1150	Surface	1627-1640' (18)	Re-Entry - 1995. Penrose. IP 1/11/96 - 39 BO, 0 MCF, 26 BW.
18	SUN STATE	1	30-015-24774	7-7/8"	5-1/2"	2380'	550	Surface	1652-1662' (11)	Penrose. IP 3/30/84 - 40 BO, 0 MCF, 3 BW.
19	HUMBLE STATE	1	30-015-02629	8"	---	---	---	---	406-2377' (Open-Hole)	Completed 3/19/1958. P&A'd - 4/28/1958.
20	STATE CG	1	30-015-25361	12-1/4"	9-5/8"	2585'	1250	Surface	Original 10212-10226' (60)	Original - Morrow. IP 11/04/85 - 91 BOPD, 4512 MCFD.
				8-3/4"	5-1/2"	10380'	2300		Current 7948-7982' (64)	Now Canyon Disposal Well.
21	WEST ARTESIA GRAYBURG UNIT	1	30-015-02645	8"	5-1/2"	2297'	75	1894'	1982-2264' ( )	IP 11/6/58 (2254-2264') - 55 BOPD. Converted to WIW 11/09/68.
22	WEST ARTESIA GRAYBURG UNIT	2	30-015-02640	7"	5-1/2"	2260'	100	1292'	1946-2210' ( )	IP 6/07/58 (2176-2210') - 40 BOPD
23	WEST ARTESIA GRAYBURG UNIT	4	30-015-02648	8"	5-1/2"	2285'	100	1747'	1966-2270' ( )	IP 2/22/58 (2196-2238') - 60 BOPD. Converted to WIW 11/09/68.
24	WEST ARTESIA GRAYBURG UNIT	5	30-015-02647	8"	5-1/2"	2314'	100	1776'	1988-2275' ( )	IP 12/24/57 (2265-2275') - 60 BOPD
25	WEST ARTESIA GRAYBURG UNIT	6	30-015-10328	8"	5-1/2"	2293'	100	1755'	2114-2277' ( )	IP 7/20/64 (2114-2130') - 40 BOPD. Converted to WIW 11/09/68.
26	WEST ARTESIA GRAYBURG UNIT	7	30-015-02639	8"	5-1/2"	2354'	100	1816'	2133-2320' (56)	IP 6/01/62 (2316-2320') - 26 BO, 232 BW
27	WEST ARTESIA GRAYBURG UNIT	8	30-015-02659	8"	5-1/2"	2366'	100	1828'	2050-2312' ( )	IP 9/01/58 - 40 BOPD.
28	WEST ARTESIA GRAYBURG UNIT	9	30-015-02658	8"	5-1/2"	2340'	100	1807'	2024-2265' ( )	IP 2/09/58 - 50 BOPD.
29	WEST ARTESIA GRAYBURG UNIT	10	30-015-02646	8"	4-1/2"	2058'	75	1732'	2007-2017' ( )	IP 3/10/62 - 22 BOPD. P&A'd - 10/05/1990.
30	WEST ARTESIA GRAYBURG UNIT	11	30-015-02655	8"	5-1/2"	2305'	100	1767'	2218-2272' (88)	IP 10/26/58 - 60 BOPD Converted to WIW 11/09/68. P&A'd - 6/24/2010.
31	WEST ARTESIA GRAYBURG UNIT	12	30-015-02649	8"	5-1/2"	2273'	100	1735'	2114-2253' ( )	IP 10/11/57 - 60 BOPD. Converted to WIW 4/25/71.
32	WEST ARTESIA GRAYBURG UNIT	16	30-015-02641	8"	---	---	---	---	503-2200' (Open-Hole)	IP 7/10/50 - 35 BOPD
33	WEST ARTESIA GRAYBURG UNIT	17	30-015-02642	8"	5-1/2"	2118'	50	1849'	1986-2096' ( )	IP 10/11/57 - 100 BOPD
34	WEST ARTESIA GRAYBURG UNIT	20	30-015-23113	12-1/4"	9-5/8"	2778'	1200	Surface	2041-2184' (26)	Re-Entry after 5-1/2" csg pulled & well P&A'd. IP 12/22/80 - 40 BOPD.
35	WEST ARTESIA GRAYBURG UNIT	21	30-015-23619	6-1/2"	4-1/2"	2520'	525	Surface	2008-2216' (48)	IP 2/25/81 - 37 BOPD.
36	WEST ARTESIA GRAYBURG UNIT	22	30-015-23639	7-7/8"	4-1/2"	2531'	625	Surface	2004-2218' (48)	IP 3/23/81 - 27 BOPD, 2 BWPD. **P&A'd: 05/06/2011.**
37	WEST ARTESIA GRAYBURG UNIT	23	30-015-23648	7-7/8"	4-1/2"	2320'	625	Surface	2070-2236' (32)	IP 3/28/81 - 12 BOPD, 2 BWPD. P&A'd - 10/10/1990.
38	WEST ARTESIA GRAYBURG UNIT	24	30-015-23724	7-7/8"	4-1/2"	2299'	625	Surface	2062-2223' (34)	IP 5/20/81 - 8 BOPD, 25 BWPD.
39	WEST ARTESIA GRAYBURG UNIT	26	30-015-23784	7-7/8"	4-1/2"	2539'	600	Surface	1730-2268' (62)	IP 8/24/81 - 5 BOPD, 30 BWPD.
40	WEST ARTESIA GRAYBURG UNIT	27	30-015-23869	7-7/8"	4-1/2"	2520'	650	Surface	1644-2204' (88)	IP 8/26/81 - 7 BOPD, 40 BWPD.
41	WEST ARTESIA GRAYBURG UNIT	28	30-015-39639	7-7/8"	5-1/2"	2378'	450	Surface	**1961-2249' (82)**	**IP 05/05/2013 - 15 BOPD, 17 BWPD.**

Alamo Permian Resources, LLC: WEST ARTESIA GRAYBURG UNIT -- Form C-108 Application Filing

VI. Tabulation of Data On All Wells of Public Record Within the Area of Review Which Penetrate the Proposed Injection Zone

Sorted by Section (UPDATED: July 02, 2014)

No.	Lease Name	Well No.	API No.	Operator	LOCATION			Well Type	Well Status	Spud Date	Total Depth	Surface Casing				
					UL	Sec,Twp,Rge	FootageCalls					Hole Size	Casing Size	Setting Depth	Sacks Cmt	TOC
42	DONNELLY KELLY STATE	1	30-015-02367	DONNELLY DRILLING CO.	O	S:8, T:18S, R:28E	660 FSL, 1980 FEL	Oil	P&A	4/16/1957	2500'	10-3/4"	8-5/8"	515'	50	320'
43	DONNELLY KELLY STATE	2	30-015-02644	ALAMO PERMIAN RESOURCES, LLC	O	S:8, T:18S, R:28E	330 FSL, 2310 FEL	Oil	Pumping	10/31/1957	2485'	10-3/4"	8-5/8"	500'	50	305'
44	DONNELLY KELLY STATE	3	30-015-23815	ALAMO PERMIAN RESOURCES, LLC	O	S:8, T:18S, R:28E	990 FSL, 2270 FEL	Oil	Pumping	6/19/1981	2510'	12-1/4"	8-5/8"	479'	300	Surface
45	STATE N	1	30-015-02643	ALAMO PERMIAN RESOURCES, LLC	N	S:8, T:18S, R:28E	330 FSL, 1650 FWL	Oil	Pumping	1/9/1956	2167'	10-3/4"	8-5/8"	502'	50	307'
46	STATE N	2	30-015-41186	ALAMO PERMIAN RESOURCES, LLC	N	S:8, T:18S, R:28E	1060 FSL, 1600 FWL	Oil	Pumping	5/1/2013	2615'	12-1/4"	8-5/8"	507'	350	Surface
47	AMIN STATE	1	30-015-24785	MOREXCO INC	A	S:8, T:18S, R:28E	990 FNL, 990 FEL	Oil	P&A	4/20/1988	2520'	12-1/4"	8-5/8"	360'	300	Surface
48	EDDY BOA STATE	1	30-015-02638	DAVID G HAMMOND	P	S:8, T:18S, R:28E	330 FSL, 990 FEL	Oil	T/A	12/30/1958	2409'	9-5/8"	7-5/8"	571	300	Surface
49	LEVERS A STATE	1	30-015-02656	SANDLOTT ENERGY (JACKIE BREWER DBA)	B	S:8, T:18S, R:28E	255 FNL, 1532 FEL	Oil	Pumping	n/a	2309'	n/a	n/a	n/a	n/a	n/a
50	LEVERS A STATE	2	30-015-26895	SANDLOTT ENERGY (JACKIE BREWER DBA)	B	S:8, T:18S, R:28E	330 FNL, 2310 FEL	Oil	Pumping	12/16/1991	2494	12-1/4"	8-5/8"	378'	220	Surface
51	LEVERS A STATE	3	30-015-26896	SANDLOTT ENERGY (JACKIE BREWER DBA)	B	S:8, T:18S, R:28E	990 FNL, 1650 FEL	Oil	Pumping	4/30/1992	2600'	12-1/4"	8-5/8"	365'	220	Surface
52	MIMOSA 8 STATE COM	1	30-015-29875	MARBOB ENERGY CORP	N	S:8, T:18S, R:28E	350 FSL, 2003 FWL	Gas	P&A	10/12/1997	10655'	17-1/2"	13-3/8"	550'	600	Surface
53	NIX-STATE	1	30-015-06117	V.S. WELCH	P	S:8, T:18S, R:28E	250 FEL, 1070 FSL	Oil	P&A	1925	2378'	10"	8-5/8"	500'	50	
54	SCOGGIN DRAW 8 STATE	1	30-015-29220	MEWBOURNE OIL CO	F	S:8, T:18S, R:28E	1930 FNL, 2310 FWL	Gas	---	---	---	---	---	---	---	---
55	HUMBLE STATE	1	30-015-02662	LEONARD NICHOLS	L	S:9, T:18S, R:28E	2310 FSL, 330 FWL	Oil	P&A	7/9/1959	2555'	10"	8-5/8"	516'	50	
56	WEST ARTESIA GRAYBURG UNIT	18	30-015-01899	ALAMO PERMIAN RESOURCES, LLC	D	S:17, T:18S, R:28E	330 FNL, 990 FWL	Inj	Injection	3/29/1960	2451'	10"	8-5/8"	506'	50	152'
57	WEST ARTESIA GRAYBURG UNIT	19	30-015-01897	ALAMO PERMIAN RESOURCES, LLC	C	S:17, T:18S, R:28E	330 FNL, 1650 FWL	Oil	Pumping	4/3/1957	2145'	10"	8-5/8"	510'	30	297'
58	STATE B	2	30-015-01896	ALAMO PERMIAN RESOURCES, LLC	B	S:17, T:18S, R:28E	330 FNL, 2310 FEL	Oil	Pumping	3/13/1957	2482'	10-3/4"	8-5/8"	503'	50	308'
59	ADKINS STATE	1	30-015-01893	H & S OIL LLC	F	S:17, T:18S, R:28E	1980 FNL, 1980 FWL	Oil	T/A	4/12/1959	2450'	12"	10-3/4"	240'	50	
60	GRARIDGE STATE	3	30-015-01904	SMITH & MARRS INC	L	S:17, T:18S, R:28E	2350 FSL , 1050 FWL	Oil	Shut-in	n/a	2136'	n/a	10"	386'	n/a	n/a
61	GRARIDGE STATE	4	30-015-01905	SMITH & MARRS INC	L	S:17, T:18S, R:28E	2390 FSL , 250 FWL	Oil	Pumping	n/a	2100'	n/a	10"	511'	n/a	n/a
62	HUMBLE STATE	1	30-015-01900	SOUTHWESTERN INC	A	S:17, T:18S, R:28E	330 FNL, 990 FEL	Oil	Shut-in	9/19/1958	2502'	10"	8-5/8"	540'	50	
63	ILLINOIS CAMP 17 STATE COM	1	30-015-27394	MEWBOURNE OIL CO	F	S:17, T:18S, R:28E	2180 FNL, 1980 FWL	Gas	Flowing	5/19/1993	10520'	17-1/2"	13-3/8"	385'	525	Surface
64	SIGNAL STATE	2	30-015-01901	SMITH & MARRS INC	E	S:17, T:18S, R:28E	2390 FNL, 1050 FWL	Oil	Pumping	5/14/1969	2165'	12-1/4"	8-5/8"	210'	Mudded	---
65	SIGNAL STATE	4	30-015-24606	SMITH & MARRS INC	E	S:17, T:18S, R:28E	2310 FNL, 330 FWL	Oil	Pumping	9/24/1983	2484'	12-1/4"	8-5/8"	378'	350	Surface
66	WELCH STATE	2	30-015-01909	SMITH & MARRS INC	K	S:17, T:18S, R:28E	2390 FSL, 1570 FWL	Oil	Active	1925	2404'	n/a	n/a	n/a	n/a	n/a
67	WELCH STATE	4	30-015-10452	SMITH & MARRS INC	K	S:17, T:18S, R:28E	2630 FSL , 2230 FWL	Oil	T/A	4/14/1964	2333'	10"	8-5/8"	560'	75	
68	WELCH STATE	7	30-015-10451	SMITH & MARRS INC	K	S:17, T:18S, R:28E	1330 FSL, 1330 FWL	Oil	Pumping	3/24/1964	2310'	10"	8-5/8"	537'	50	
69	JENNINGS	1	30-015-23842	ALAMO PERMIAN RESOURCES, LLC	A	S:18, T:18S, R:28E	406 FNL, 330 FEL	Oil	Pumping	6/27/1981	2634'	12-1/4"	8-5/8"	518'	175	98'
70	BENNETT STATE	1	30-015-01927	BYARD BENNETT	H	S:18, T:18S, R:28E	1980 FNL, 660 FEL	Oil	P&A	6/20/1957	2418'	10"	8-5/8"	510'	50	
71	GULF STATE	1	30-015-20275	C.O. FULTON	H	S:18, T:18S, R:28E	2310 FNL, 330 FEL	Oil	Pumping	1/27/1970	2260'	10-3/4"	8-5/8"	447'	50	

Alamo Permian Resources, LLC: WEST ARTESIA GRAYBURG UNIT -- Form C-108 Application Filing

VI. Tabulation of Data On All Wells of Public Record Within the Area of Review Which Penetrate the Proposed Injection Zone

Sorted by Section (UPDATED: July 02, 2014)

No.	Lease Name	Well No.	API No.	Production Casing					Overall Perf Interval (No. of Perfs)	Comments
				Hole Size	Casing Size	Setting Depth	Sacks Cmt	TOC		
42	DONNELLY KELLY STATE	1	30-015-02367	6-3/4"	---	---	---	---	None	Drilled & Abandoned - 5-16-1957.
43	DONNELLY KELLY STATE	2	30-015-02644	7"	5-1/2"	2485'	100	1517'	2145-2468' (64)	IP 4/01/58 - 41 BOPD
44	DONNELLY KELLY STATE	3	30-015-23815	7-7/8"	4-1/2"	2510'	675	Surface	2039-2475' (48)	IP 7/08/91 - 10 BOPD, 9 MCFD, 5 BWPD.
45	STATE N	1	30-015-02643	7-7/8"	5-1/2"	2167'	150	1310'	2002-2120' (37)	IP 12/15/56 - 62 BOPD
46	STATE N	2	30-015-41186	7-7/8"	5-1/2"	2605'	500	Surface	2001-2457' (154)	IP 06/25/2013 - 33 BOPD, 165 BWPD.
47	AMIN STATE	1	30-015-24785	7-7/8"	5-1/2"	2476'	700	Surface	2120-2301' (20)	IP 5/28/84 - 17 BOPD, 55 BWPD. P&A'd - 1/31/2000.
48	EDDY BOA STATE	1	30-015-02638	6-3/4"	4-1/2"	2392'	375	Surface	2173-2318' ( )	IP 1/07/59 - 51 BOPD, 0 MCFD, 6 BWPD.
49	LEVERS A STATE	1	30-015-02656	n/a	4-1/2"	2309'	125		1969-2303' (48)	IP 8/28/68 - 30 BOPD.
50	LEVERS A STATE	2	30-015-26895	7-7/8"	5-1/2"	2496'	378		1712-2269' (50)	Penrose, GB. IP 3/06/92 - 26 BOPD, 27 MCFD, 25 BWPD.
51	LEVERS A STATE	3	30-015-26896	7-7/8"	5-1/2"	2500'	395		2233-2392' (20)	QN, GB, SA. IP 6/08/92 - 6 BOPD, 10 MCFD, 57 BWPD.
52	MIMOSA 8 STATE COM	1	30-015-29875	12-1/4"	9-5/8"	2560'	900	Surface	None	Drilled & Abandoned - 1/20/1998.
				8-3/4"	4-1/2"	10665'	1700	500'		
53	NIX-STATE	1	30-015-06117	8"	n/a	n/a	n/a	n/a	N/A	Originally P&A'd 8/15/25. Re-Entry attempted 4/01/54. Junk csg at 500' - Unsuccessful. P&A'd 5/08/54 w/ 500 sx cmt.
54	SCOGGIN DRAW 8 STATE	1	30-015-29220	---	---	---	---	---	---	Well Never Drilled. Cancelled APD.
55	HUMBLE STATE	1	30-015-02662	7"	---	---	---	---	None	Drilled & Abandoned - 8/14/1959.
56	WEST ARTESIA GRAYBURG UNIT	18	30-015-01899	8"	5-1/2"	2317'	100	1918'	2009-2279' (112)	IP 7/15/60 (2115-2279') - 35 BOPD. Converted to WIW 11/26/69.
57	WEST ARTESIA GRAYBURG UNIT	19	30-015-01897	8"	5-1/2"	2145'	30	1984'	2131-2136' (20)	IP 2/19/58 - 140 BOPD
58	STATE B	2	30-015-01896	7-7/8"	5-1/2"	2478'	150	1621'	2449-2471' (22)	IP 4/13/57 - 150 BOPD.
59	ADKINS STATE	1	30-015-01893	8"	5-1/2"	2480'	100		2402-2456' (200)	SA. IP 6/11/59 - 53 BOPD. TA Notice 10/15/97. Last Prod 8/90.
60	GRARIDGE STATE	3	30-015-01904	n/a	8-1/4"	526'	n/a	n/a	526-2136' (Open-Hole)	Top of pay @ 2002'. No IP data.
61	GRARIDGE STATE	4	30-015-01905	n/a	4-1/2"	1971'	350	Surface	1971-2001' (Open-Hole)	WIW - Injection began 6/01/65. Converted to Production 12/15/77.
62	HUMBLE STATE	1	30-015-01900	8"	5-1/2"	2376'	200		2171-2316' (248)	GB. IP 11/02/58 - 56 BOPD.
63	ILLINOIS CAMP 17 STATE COM	1	30-015-27394	12-1/4"	9-5/8"	2583'	1000	Surface	10,265-10,378' (60)	Morrow. IP 8/27/93 - 22 BO, 1420 MCF, 0 BW.
				8-3/4"	5-1/2"	10520'	2220	Surface		
64	SIGNAL STATE	2	30-015-01901	10"	7"	403'	Mudded	---	1883-2165' (Open-Hole)	Premier O/H. IP 7/02/69 - 60 BOPD - Flowing.
				8"	4-1/2"	1883'	100			
65	SIGNAL STATE	4	30-015-24606	7-7/8"	5-1/2"	2478'	500	Surface	2059-2218' (28)	GB. IP 10/18/83 - 30 BOPD, 70 BWPD.
66	WELCH STATE	2	30-015-01909	n/a	n/a	n/a	n/a	n/a	n/a	Drilled to 2148' - 8/26/25 as Three Sands #2. Deepened to 2404' 12/31/52 by V.S. Welch. Very limited data available in records.
67	WELCH STATE	4	30-015-10452	8"	4-1/2"	2333'	150		2038-2315' (13)	WIW in GB. Well T/A'd 02/20/66.
68	WELCH STATE	7	30-015-10451	8"	4-1/2"	2310'	150		1991-2270' (14)	WIW in GB. Converted to Production 2/01/76. IP 1/20/76 - 4 BOPD, 2 BWPD, Flowing.
69	JENNINGS	1	30-015-23842	7-7/8"	4-1/2"	2634'	550	Surface	1725-2596' ( )	IP 7/31/81 - 21 BOPD, 28 MCFD, 1 BWPD.
70	BENNETT STATE	1	30-015-01927	7"	5-1/2"	2416'	100		2374-2404' ( )	IP 8/20/57 - 54 BOPD. P&A'd - 8/16/1958.
71	GULF STATE	1	30-015-20275	7"	4-1/2"	2197'	100		1974-2127' ( )	IP 10/29/74 (1974-1986') - 120 BOPD.

Alamo Permian Resources, LLC

West Artesia Grayburg Unit
Waterflood Project

And Offset Alamo Permian-Operated Leases

T-18-S, R28-E, Sections 7, 8, & 17

Eddy County, New Mexico

Solt State

West Artesia Grayburg Unit

Donnelly Kelly State

State "B"

State "N"

Jennings

WAGU Legend

- Active Well
- Plugged Well
- Water Injection Well
- Area of Review

N

Map Scale:
One Mile

ALAMO PERMIAN RESOURCES, LLC

WELLBORE DIAGRAM

Lease/Well No.: **WAGU No. 022 (P&A'd)** ELEVATION, GL: 3,621 ft

Location: 2,269' FSL & 330' FWL
UL: L, SEC: 8, T: 18-S, R:28-E
EDDY County, NM

FIELD: ARTESIA: QN-GB-SA

LEASE No.: State E-7179

API No. : 30-015-23639

Spudded: 2/12/1981
Drlg Stopped: 2/23/1981
Completed: 3/23/1981
LAT:
LONG:

ROTARY DRLG RIG

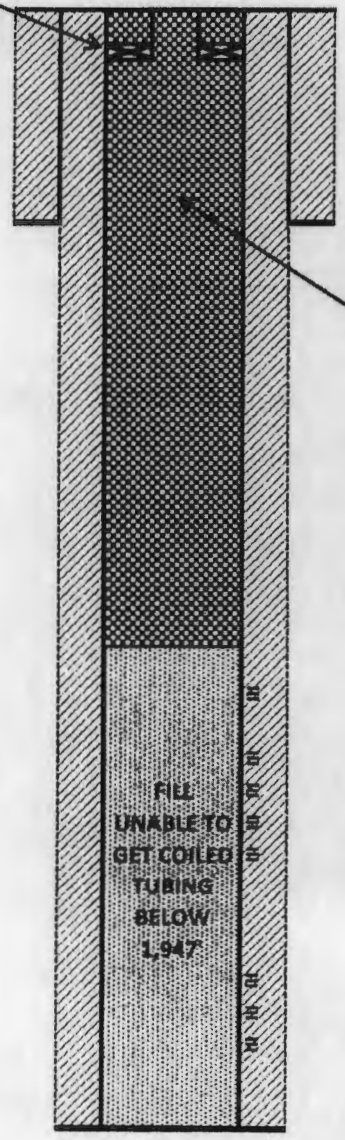
Model 32-A Pkr
Stuck @ 192.72'

12-1/4" HOLE

Surface Csg:
8-5/8" 24# J-55
Csg Set @ 521'
Cmt'd w/ 300 sx

TOC @ Surface
Circulated 10 sx

7-7/8" HOLE



Production Csg:
4-1/2" 10.5# J-55
Csg Set @ 2,531'
Cmt'd w/ 625 sx

	TOPS (TEF)	DEPTH, ft
TOC @ Surface	GRAYBURG	1,955
Circulated 55 sx	SAN ANDRES	2,250

521' Csg

During Workover to Repair shallow casing leak on 08/30/2010 - Model 32-A packer was stuck in 4-1/2" csg on 2-3/8" tubing.
04/30/2011 - Attempted to get coiled tubing to TD in well, but could only get down to 1,957' - approved by NMOCD to P&A.
Perf'd 4 holes in 2-3/8" tbg at 151' (W/L depth).
TIH w/coiled tbg - could only get down to 1,947' due to fill.
NMOCD approved P&A from this depth to surface. Pumped 160 sx cement down coil tbg to fill 4-1/2" csg. WOC & tagged TOC at 155'. Pumped 25 sx cmt to fill csg to Surface.
Cut cgs & tbg, capped well. Set P&A Marker.

PERFS:	Zone	SPF - # Holes	Date
	GB - Zone 12		
2004 - 2006'	GB - Zone 11	2' 2 spf - 4 holes	03/23/81
	GB - Zone 10		
2046 - 2048'	GB - Zone 9	2' 2 spf - 4 holes	03/23/81
2057 - 2059'	GB - Zone 9	2' 2 spf - 4 holes	03/23/81
2086 - 2090'	GB - Zone 8	4' 2 spf - 8 holes	03/23/81
2116 - 2120'	GB - Zone 7	4' 2 spf - 8 holes	03/23/81
	GB - Zone 6		
	GB - Zone 5		
	GB - Zone 4		
2174 - 2182'	GB - Zone 3	8' 1 spf - 8 holes	03/23/81
2200 - 2204'	GB - Zone 3	4' 1 spf - 4 holes	03/23/81
2210 - 2218'	GB - Zone 2	8' 1 spf - 8 holes	03/23/81
	GB - Zone 1		
2,531' Csg	*TOTALS:*	*34' -- 48 holes*	
2,531' PBTD			
2,551' TD			

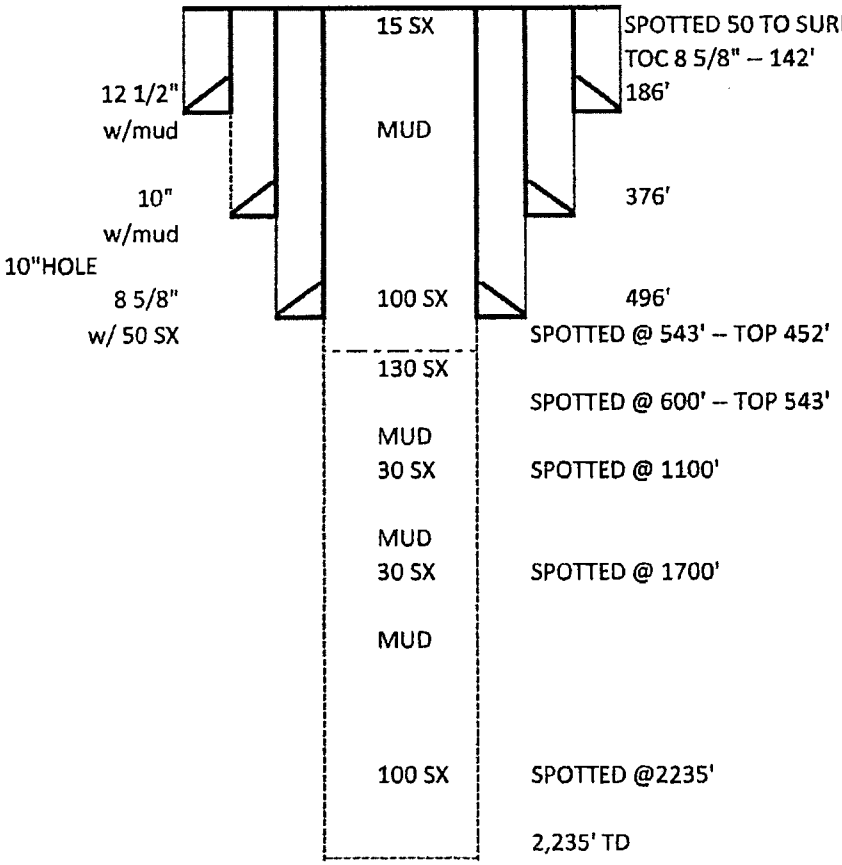
Originally Drilled as WEST ARTESIA GRAYBURG UNIT TRACT 5 #22 by MARBOB ENERGY CORP.
During W/O on 08/30/10 - Model 32-1 Pkr stuck at 192.74' inside 4-1/2" casing.
P&A'd by ALAMO PERMIAN RESOURCES - 05/06/2011 due to Casing Problems.

Cumulative Prod. (04/30/14):

OIL	34.695	MBO
GAS	20.739	MMCF
WATER	76.708	MBW
INJECT.	----	MBW

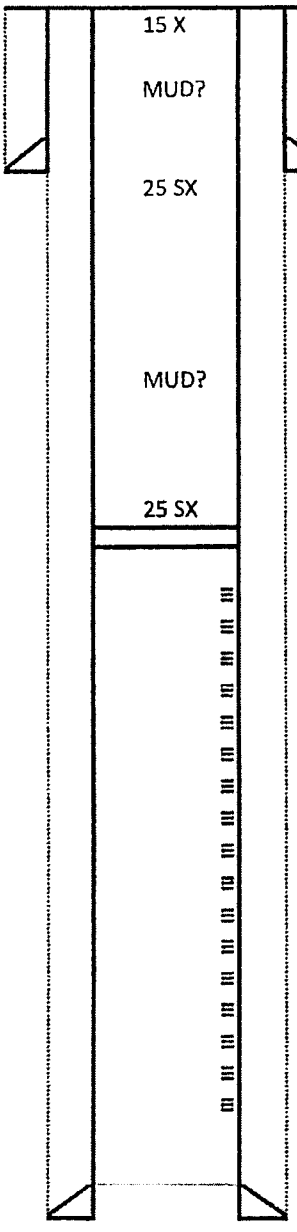
HPS: 06/23/2014

Lease/Well No.	WEST ARTESIA GRAYBURG UNIT	ELEVATION	
	No. 15		
Location	330' FEL & 400' FSL		
	UT P, S 7, T18S, R28E	FIELD	ARTESIA
	EDDY CO, NM		
LEASE NO	FEE	Spudded	07/19/50 CABLE TOOLS
API No.	30-015-02634	Completed	09/01/50
		LAT	
		LONG	



CMB 01-20-11

Lease/Well No.	WAGU # 25	ELEVATION	GL 3619'
Location	1,650' FSL & 971' FEL		
	I, SEC 7, T18S, R28E	FIELD	ARTESIA; Q.GB,SA
	EDDY CO, NM		
LEASE NO	OG 780	Spudded	05/05/81
API No.	30-015-23741	Completed	05/11/81
		LAT	
		LONG	



12.25" HOLE

8 5/8" 24# J-55
CSG W/ 300 SX

477'

PLUG RPT'ED
@300 - 600'

CIBP @1,900'

7.875" HOLE

4 1/2", 10.5 #
CSGW/ 625SX
@ 2,523'

TOPS	FT
YATES	
SVN RIVERS	
QUEEN	
GRAYBURG	
SAN ANDRES	

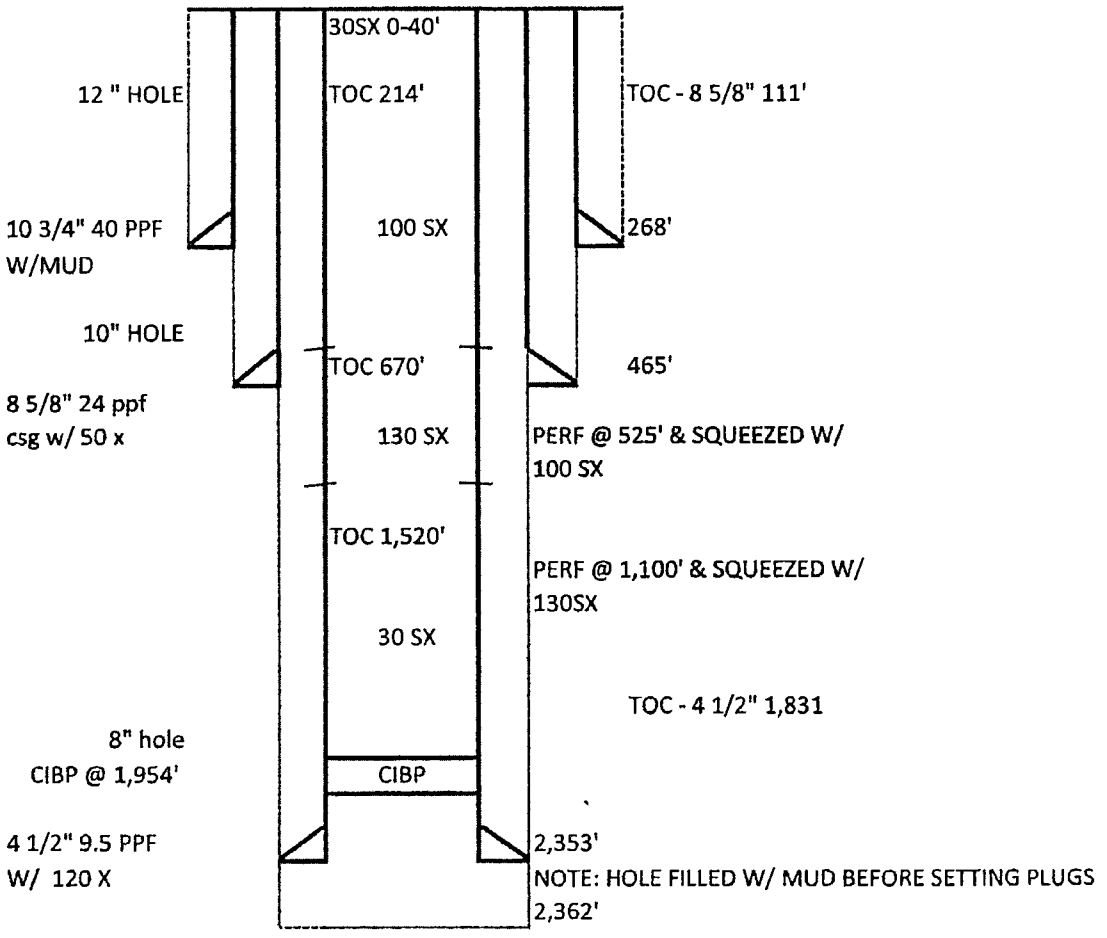
PERFS

1917-25	8 SHOTS
1985-91	6 SHOTS
2029-33	4 SHOTS
2035-37	2 SHOTS
2061-63	2 SHOTS
2065-67	2 SHOTS
2091-93	2 SHOTS
2097-99	2 SHOTS
2150-58	16 SHOTS
2280-82	2 SHOTS
2303-05	2 SHOTS
2324-28	4 SHOTS
2341-45	4 SHOTS
2356-60	4 SHOTS
2380-82	2 SHOTS
2418-20	2 SHOTS
2425-27	2 SHOTS
2456-68	12 SHOTS
2486-90	4 SHOTS

PBTD @ 2,500'
TD @ 2,530'

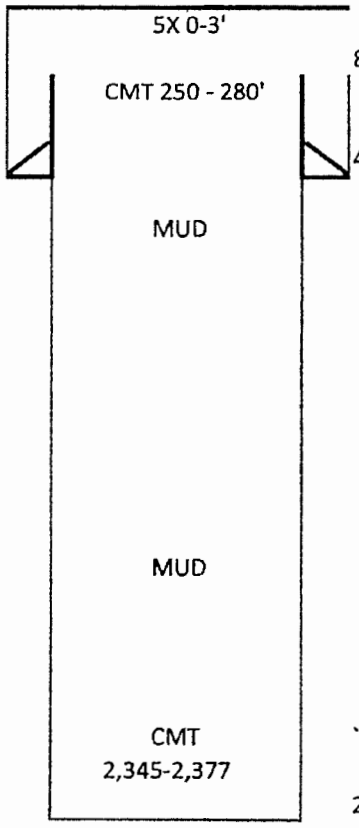
CMB 10-14-10

Operator	KERSEY & COMPANY		
Lease/Well No.	TEXACO ST NO. 2	ELEVATION	3,611' GR
	1,650' FEL & 1,650' FSL		
	UT J, S 7, T 18S, R28E	FIELD	ARTESIA POOL
	EDDY CO, NM		
LEASE NO	OG 1409	Spudded	12/23/61 CABLE TOOLS
API No.	30-015-02633	Completed	01/22/62
		LAT	
		LONG	



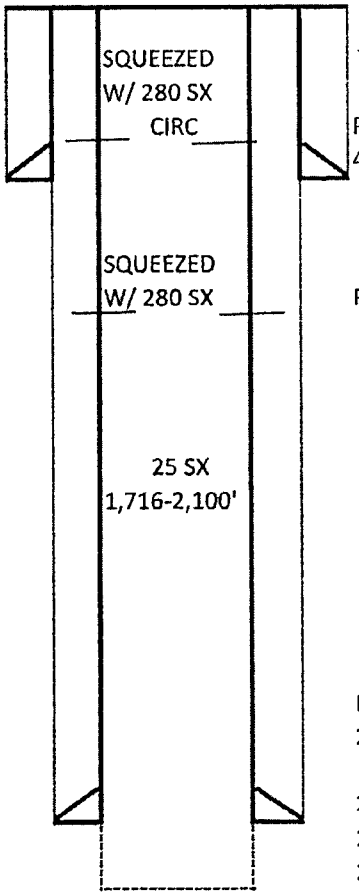
CMB 01-19-11

Operator	J.F. BEDINGFIELD		
Lease/Well No.	HUMBLE ST NO. 1	ELEVATION	3,615 GR
Location	1,659' FEL & 2,310' FNL		
	UT G, S 7, T 18S, R28E	FIELD	ARTESIA POOL (1958)
	EDDY CO, NM		
LEASE NO	B-11539	Spudded	03/19/58 Cable tools
API No.	30-015-02629	Completed	04/17/58
		LAT	
		LONG	



CMB 01-19-11

Lease/Well No.	WEST ARTESIA GRAYBURG UT NO. 10	ELEVATION	
Location	2,200' FWL & SL UT K, S 8, T18S, R 28E EDDY CO., NM	FIELD	ARTESIA
LEASE NO	E-7179	Spudded	02/13/62
API No.	30-015-02646	Completed	03/10/62
		LAT	
		LONG	



TOC 8 5/8" 247'

PERF'ED @ 400'

442'

PERF'ED @ 1,442

TOC 4 1/2" -- 1,732'

PERFS
2,007-2,017'

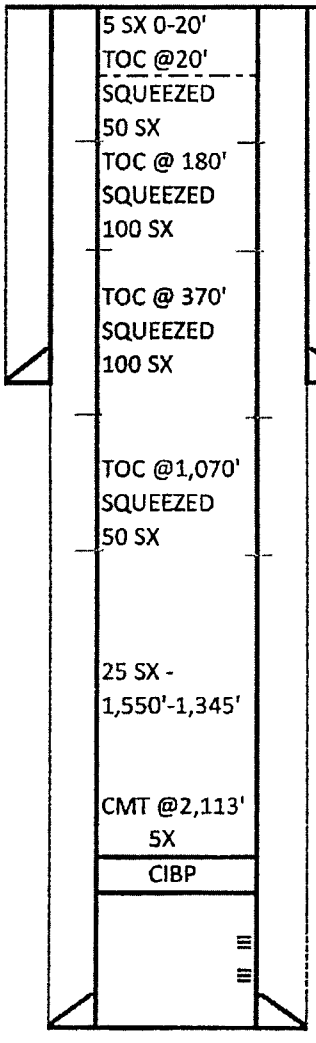
2,058'

2,060' PBTD

2,311' TD

CMB 01-20-11

Lease/Well No.	WEST ARTESIA GRAYBURG UT NO. 11	ELEVATION	KB
Location	1,650' FS&WL		GL 3603'
	UT K, S 8, T 18S, R 28E	FIELD	ARTESIA; Q.GB,SA
	EDDY CO, NM		
LEASE NO	TRACT 5 - E 7179	Spudded	12/12/58
API No.	30-015-02655	Completed	01/17/58
		LAT	
		LONG	



NOTE: HOLE FILLED W/ MUD BEFORE PUMPING CMT

PERFED @ 60'

10" HOLE

CUT @ 300' CSG WAS NOT FREE

8 5/8" 24# J-55 CSG W/ MUD

500'

PERFED @ 600'

PERFED @1,200'

8" HOLE

TOC 5 1/2" – 1,550'

CIBP @ 2,160' W/ 5X CAP

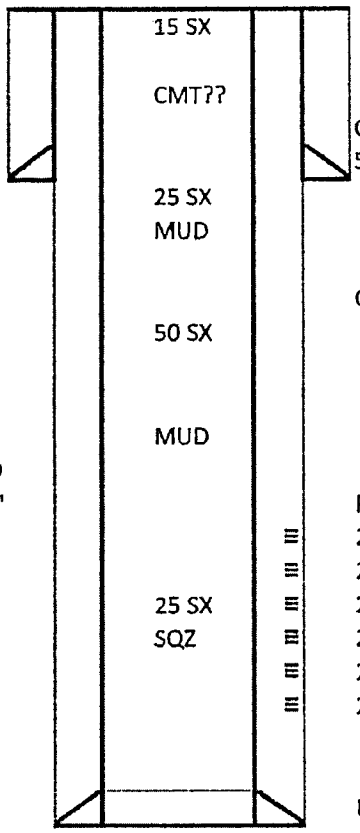
PERFS
2218' - 2228' 40 HOLES
2256' - 2272' 48 HOLES

5 1/2", 15.5 # CSGW/100SX

CSG @ 2305'

CMB 01-20-11

Lease/Well No.	WEST ARTESIA GRAYBURG UT	ELEVATION	GL 3625'
	WELL NO. 23		
Location	971' FWL & 2,269'FSL		
	UT L, S 8, T 18S, R 28E	FIELD	ARTESIA; Q.GB,SA
	EDDY CO, NM		
LEASE NO	TRACT 5 - E-7179	Spudded	03/14/81
API No.	30-015-23648	Completed	03/12/81
		LAT	
		LONG	



12.25" HOLE

8 5/8" 24# J-55
CSG W/ 300 SX

7.875" HOLE
TOP PLUG @
1,629'

4 1/2", 10.5 #
CSGW/ 625SX

CMT RPT'ED @SURF

CMT PLUG TOP EST 181'
500'

CMT RPT'ED @ 550'

CMT PLUG TOP EST 713'

CMT RPT'ED @ 1450'

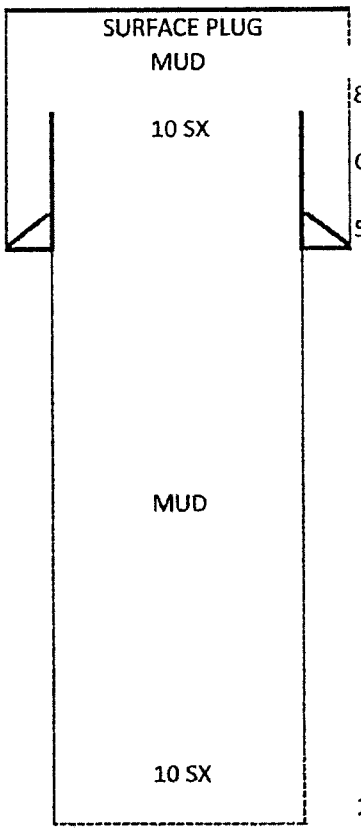
PERFS

2070-76'	6 SHOTS
2090-94	4 SHOTS
2100-08	8 SHOTS
2187-93	6 SHOTS
2224-28	4 SHOTS
2234-36	4 SHOTS

PBTD @ 2301'
TD @ 2,320'

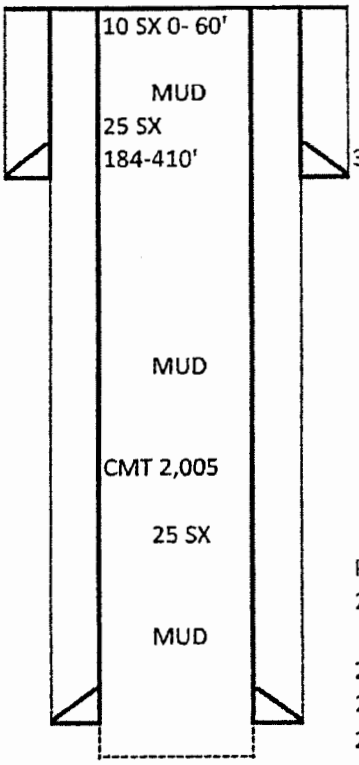
CMB 10-14-10

Operator	DONNELLEY DRILLING CO		
Lease/Well No.	DONNELLEY KELLEY ST NO. 1	ELEVATION	
Location	660' FSL & 1,980' FEL		
	UT O, S 8, T 18S, R 28E	FIELD	ARTESIA
	EDDY CO, NM		
LEASE NO		Spudded	04/16/57 CABLE TOOLS
API No.	30-015-02637	Completed	05/15/57
		LAT	
		LONG	



CMB 01-21-11

Operator:	MOREXCO INC.		
Lease/Well No.	AMIN ST NO. 1	ELEVATION	3,641 GR
Location	UT A, S 8, T18S, R28E		
	990' FN &EL	FIELD	ARTESIA
	EDDY CO, NM		
LEASE NO	E-7179	Spudded	04/20/84 ROTARY
API No.	30-015-24785	Completed	04/26/84
		LAT	
		LONG	



8 5/8" 23 PPF
W/300 X CIRC

360'

PERFS
2,120'- 2,301

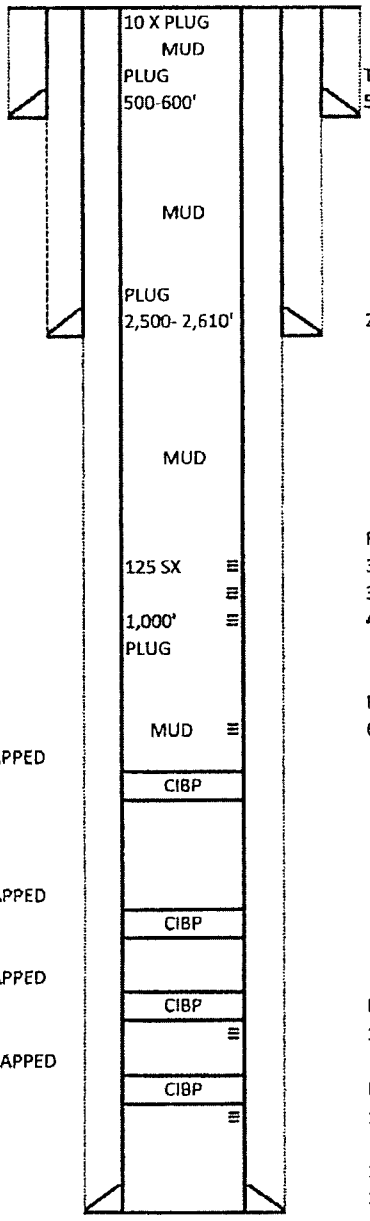
2,450' PBTD

5 1/2" 15.5 PPF
W/ 700 X CIRC

2,476'
2521' TD

CMB 01-20-11

Operator	MARBOB		
Lease/Well No.	MIMOSA 8 ST COM NO. 1	ELEVATION	3,612' GR
Location	350' FSL & 2,003 FWL		
	UT N, S 8 T18S R28E	FIELD	ILLINOIS CAMP, NORTH (MORROW)
	EDDY CO, NM		
LEASE NO		Spudded	10/12/97
API No.	30-015-29875	Completed	11/25/97
		LAT	
		LONG	



17 1/2" HOLE

13 3/8" 54.5 PPF
W/ 600X CIRC

TOC 5 1/2" -- 500'
550'

12 1/4" HOLE

9 5/8" 36 PPF
W/900 SX CIRC

2560'

8 3/4" HOLE

PERFS
3,503-3,628'
3,758-3,936'
4,130-4,432'

PERFS
6,315-20'

CIBP @ 6,363' CAPPED
W/ 20' CMT

CIBP @ 8,400' CAPPED
W/ 100' CMT

CIBP @ 9,950' CAPPED
W/ 20' CMT

PERFS
10,000-34'

CIBP @ 10,365' CAPPED
W/ 20' CMT

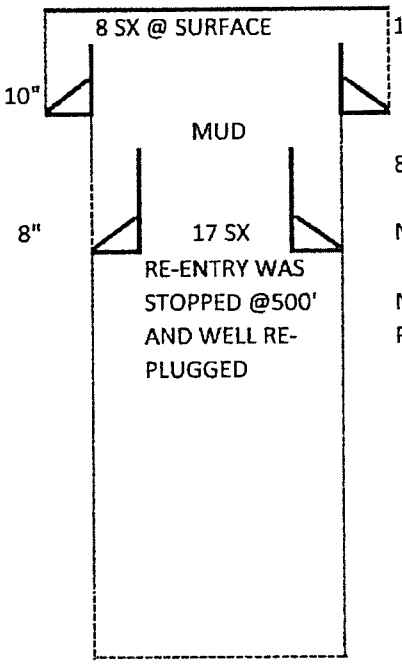
PERFS
10,394-406'

10,584 PBTD
10,655' TD

5 1/2" 17 PPF
W/1,700 SX

CMB 01-21-11

Operator	V. S. WELCH			
Lease/Well No.	NIX-STATE NO. 1	ELEVATION	3,629'	
Location	250' FEL & 1,070' FSL			
	UT P, S 8, T 18S, R 28E	FIELD	ARTESIA	
	EDDY CO, NM			
LEASE NO		Spudded	1925	CABLE TOOLS
API No.	30-015-06117	Completed	1925	
		ATEMPTED RE-ENTRY		05-07 TO 08/1954



10" STUB @ 50'

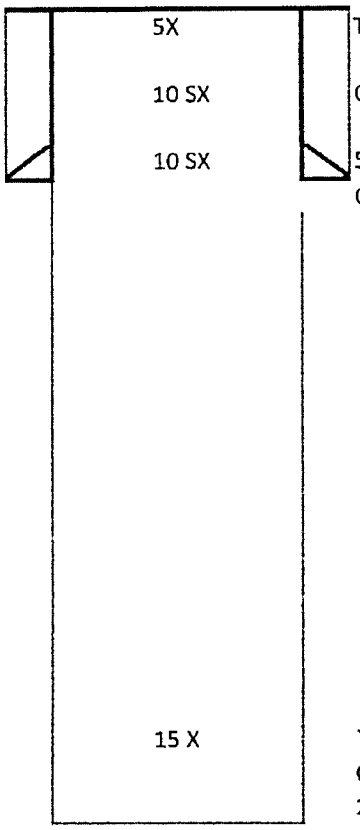
8" STUB @ 290'

NO DEPTH REPORTED

NO RECORDS AVAILABLE ON 1925 PLUGGING

CMB 01-21-11

Operator	LEONARD NICHOLS		
Lease/Well No.	HUMBLE ST NO. 1	ELEVATION	3,364' GR
Location	330' FWL & 2,310' FSL		
	UT L, S 9, T 18S, R28E	FIELD	ARTESIA POOL (1959)
	EDDY CO, NM		
LEASE NO	B-11539	Spudded	07/09/59 Cable tools
API No.	30-015-02662	Completed	08/08/59
		LAT	
		LONG	



TOC SURF

10" HOLE

CMT SPOTTED @ 255'

8 5/8" 28 ppf csg w/ 100 x

516'

CMT SPOTTED @ 520'

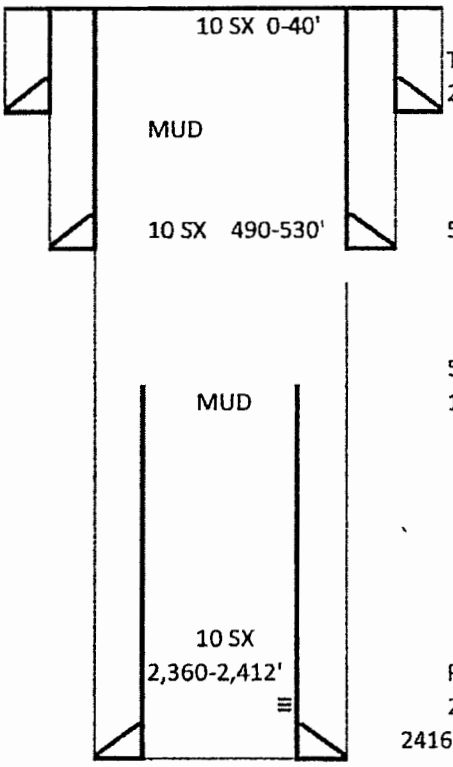
8" hole

CMT SPOTTED @ 2,555'

2,555'

CMB 01-19-11

Operator	BYARD BENNETT		
Lease/Well No.	BENNETT ST No. 1	ELEVATION	3,604' GR
	660' FEL & 1,980' FNL		
	UT H, S 18, T 18S, R28E	FIELD	ARTESIA POOL
	EDDY CO, NM		
LEASE NO	E-828	Spudded	06/20/57
API No.	30-015-01927	Completed	08/09/57
		LAT	
		LONG	



CMB 01-19-11

NMOCD Form C-108 – Sec. VIII: Geologic Data

West Artesia Grayburg Unit Area

Eddy Co., New Mexico

Sections 7, 8, & 17 of Township 18-S, Range 28-E

The unitized producing formation under the West Artesia Grayburg Unit ("WAGU") in Sections 7, 8, and 17 of Township 18-S, Range 28-E in Eddy County, NM is the Grayburg Formation. In the WAGU Area, the Grayburg Formation is comprised of a succession of Middle Permian age dolomite, anhydritic dolomite, and radioactive sandstones which are located on the northern rim (Northwest Shelf) of the Delaware Basin. The main producing lithology in the Grayburg is sandstone, although the non-anhydritic dolomites sometimes develop porosity as well over the formation interval.

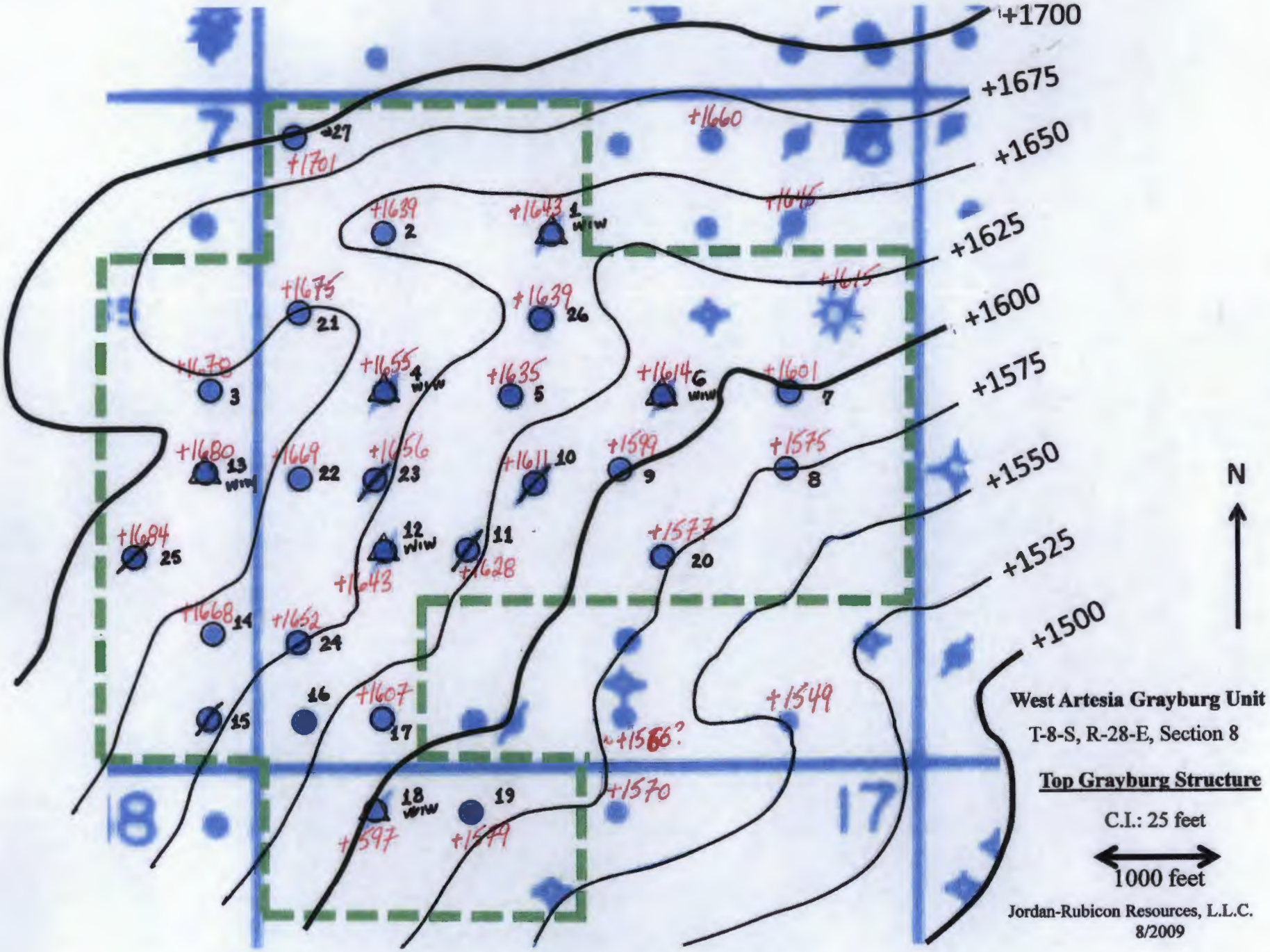
Two stratigraphic formations produce in the WAGU Area, the Queen and Grayburg formations. The oldest is the Grayburg which produces from sandstone and dolomite at depths ranging from approximately 2,000' to 2,250'. The Grayburg is overlain by the Queen which produces from two individual sandstone layers, one situated directly above the Grayburg (included in Grayburg Zone #12), and the other located approximately 350' above the top of the Grayburg (herein referred to as the Queen "1650" Zone).

These sandstones are thin remnants or "lags" of the large amounts of sand sediments that travelled across the shelf during relative shallowings of sea level and eventually came to rest as layers of the Brushy Canyon and Cherry Canyon formations in the Delaware Basin.

The attached Structure Map on the top of the Grayburg Formation shows approximately 175 feet of structural dip across the WAGU Area, generally from the northwest to the southeast (see attached Structure Map).

For the purpose of documenting and illustrating the producing and water-injecting stratigraphy of the WAGU wells, Alamo Permian Resources has sub-divided the Grayburg into 12 stratigraphic units or zones. These 12 stratigraphic zones range from Zone #1 at the base of the Grayburg to Zone #12 at the top of the Grayburg (see attached WAGU Type Log).

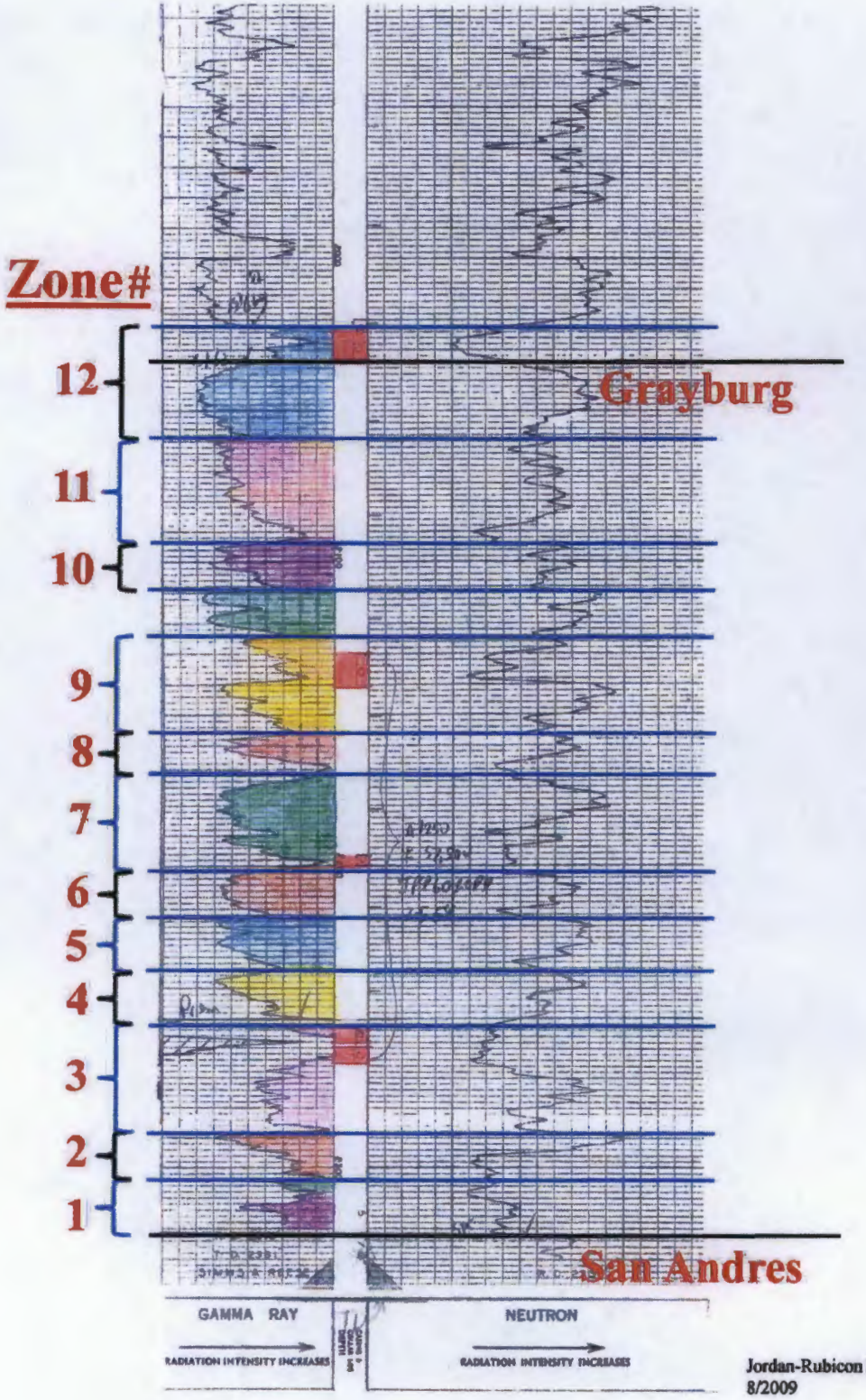
Based on analysis and evaluation to-date, Alamo Permian Resources believes that each of the 12 Grayburg Zones are productive across the WAGU Area where porosity is found to be developed. Current plans are to add perforations in existing water injection and producing wells within the West Artesia Grayburg Unit with developed porosity which have not been previously completed. This should improve injection-production conformance within the Unit, increasing oil production and developing previously by-passed oil reserves.


+1700
+1675
+1650
+1625
+1600
+1575
+1550
+1525
+1500
+1701
+1660
+1646
+1639
+1643
+1615
+1675
+1639
+1655
+1635
+1614
+1601
+1680
+1669
+1656
+1611
+1599
+1575
+1684
+1643
+1628
+1577
+1668
+1652
+1607
+1549
+1566?
+1570
+1597
+1579
27
2
1 WIW
21
26
3
4 WIW
5
6 WIW
7
13 WIW
22
23
10
9
8
12 WIW
11
25
20
14
24
16
15
17
18 WIW
19
N
West Artesia Grayburg Unit
T-8-S, R-28-E, Section 8
Top Grayburg Structure
C.I.: 25 feet
1000 feet
Jordan-Rubicon Resources, L.L.C.
8/2009

West Artesia Grayburg Unit - TYPE LOG

And Key to
Perforated Intervals

WAGU #9



Jordan-Rubicon Resources, L.L.C.
8/2009

Alamo Permian Resources, LLC

West Artesia Grayburg Unit

T-18-S, R-28-E, Sections 7, 8 & 17

Eddy County, New Mexico

6/30/2014

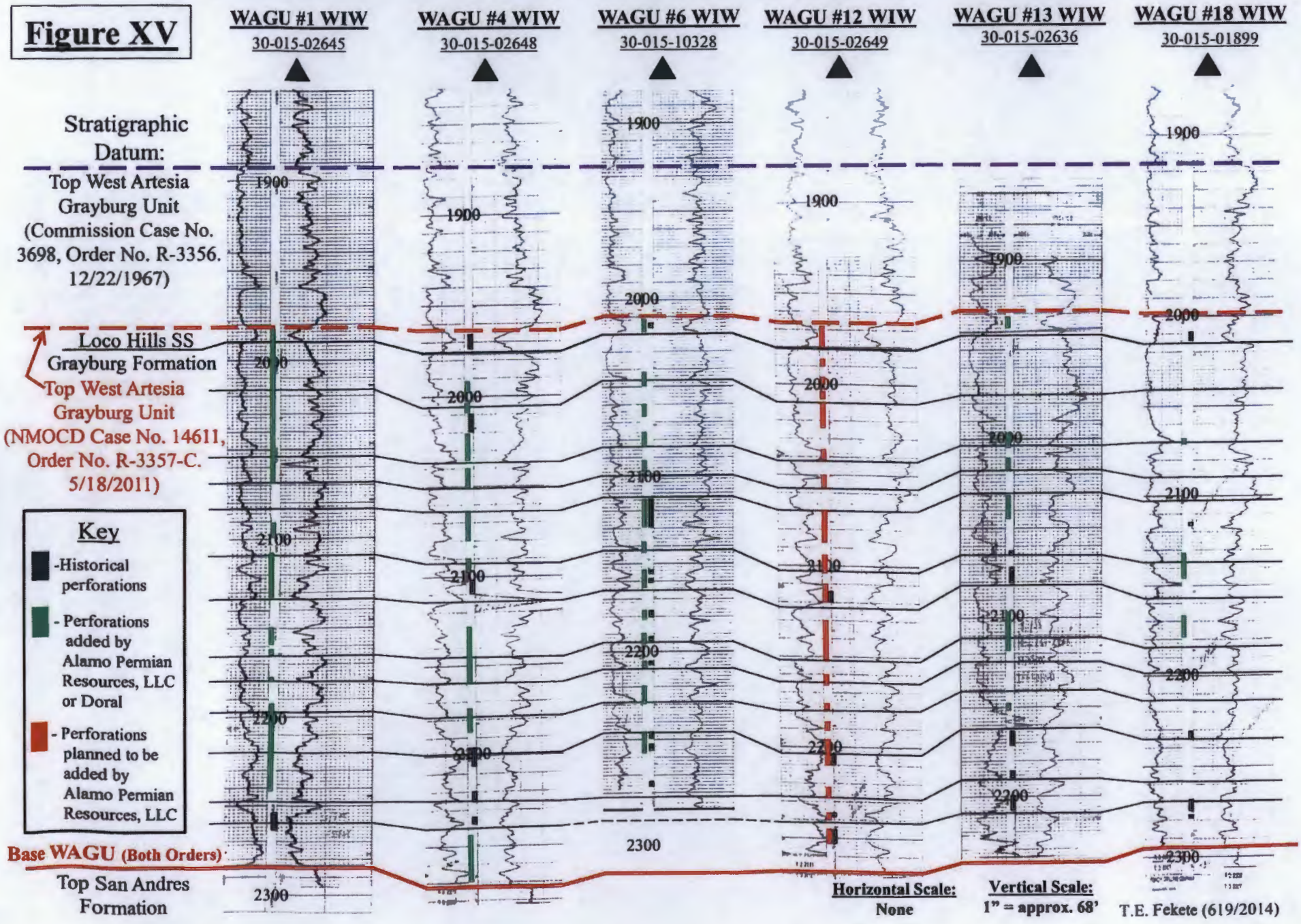
Geological Statement

Figure XV is a stratigraphic log-section of water injection wells that is datumed on the top of the West Artesia Grayburg Unit, as defined in Commission Case No. 3698, Order No. R-3356 (12/22/1967). This stratigraphic datum is correlated from the WAGU #9 well log which is the Type Well of the unit, and is represented by the dashed purple line near the top of the display. The dashed red line located about 90 feet log scale-wise below the purple datum marks the stratigraphic top of the Queen Loco Hills Sandstone layer. This uppermost boundary of the Loco Hills Sandstone interval represents the top of the West Artesia Grayburg Unit as defined in NMOCD Case No. 14611, Order No. R-3357-C, issued on 5/18/2011. Both the 1967 and the 2011 orders above define the base of the West Artesia Grayburg Unit as the base of the Grayburg Formation/top of the San Andres Formation. This stratigraphic horizon is represented at the base of the log-section by the solid red line. The six neutron porosity logs are from the six water injection wells that are currently active in the West Artesia Grayburg Unit. The thin black lines traversing the logs are Alamo Permian Resources' attempt to identify and correlate stratigraphic flow units, for the purpose of increasing conformance between water injection and oil producing wells. Correlations between wells are for the most part very straight-forward. The depth track of each log contains vertical columns representing various vintages of perforations. The black columns represent historical perforations that predate Doral/Alamo Permian Resources' ownership of this property. The green columns show the depths shot by Doral/Alamo Permian Resources during 2009 - 2011 & 2014, and the red columns indicate the intervals that Alamo Permian Resources is planning to perforate. This log-section illustrates that all perforations, whether already existing or planned, are located within the approved vertical extent of the West Artesia Grayburg Unit as defined by NMOCD Order No. R-3357-C, issued 5/18/2011.

Thomas Fekete
Geologist
Alamo Permian Resources, LLC

Alamo Permian Resources, LLC West Artesia Grayburg Unit - Stratigraphic Log-Section of Water Injection Wells

Figure XV



NMOCD Form C-108 – Sec. VIII: Fresh Water Data

West Artesia Grayburg Unit Area

Eddy Co., New Mexico

Sections 7, 8, & 17 of Township 18-S, Range 28-E

As part of this Application, Alamo Permian Resources conducted a review of the Fresh Water Data available across the West Artesia Grayburg Unit ("WAGU') Area by accessing the New Mexico Water and Infrastructure Data System ("WAIDS") for public data on the location and depth of underground sources of drinking water in this Area.

Fresh water can be found in the Ogallala, Quaternary Alluvium, and Rustler formations in various locations across Southeastern New Mexico. In the WAGU Area, however, Fresh Water is found only in the Quaternary Alluvium formation. The Quaternary Alluvium formation ranges in depth across the WAGU Area from approximately 140 feet in the north part of the WAGU, down to approximately 160 feet in the southern part of WAGU. A copy of the fresh water data from the seven (7) sites found in the WAIDS system is attached for review, showing chlorides ranging from 6 mg/l to 208 mg/l for the 7 samples.

An additional complete detailed fresh water analysis from a fresh water well (windmill) located in UL-A, Section 18, Township 18S, Range 28E is included in Section XI of this Application, which indicates a chlorides content of 47.05 mg/l.

There are no known Fresh Water sources below the Grayburg formation injection intervals in the West Artesia Grayburg Unit Area.

FRESH WATER DATA
Source : NM WAIDS Printed 01-22-11

SID:	13042				
Latitude:	32.7763	Longitude:	-104.1816		
Section:	4	Township:	18S	Range:	28E
WBF:	QAL	Formation:	OAL		
Depth:	145	Elevation:	3640		
Temperature:	0				
Date Collected:	Tue Apr 30 00:00:00 MDT 1957	Collector:	USG	Point of Collection:	YT
Use:	Domestic				
Conductivity:	798				
Chlorides(mg/L):	6				

SID:	10218				
Latitude:	32.7763	Longitude:	-104.1816		
Section:	4	Township:	18S	Range:	28E
WBF:	QAL	Formation:	OAL		
Depth:	145	Elevation:	3640		
Temperature:	0				
Date Collected:	Sun May 19 00:00:00 MDT 1985	Collector:	SEO	Point of Collection:	DP
Use:	Commercial				
Conductivity:	980				
Chlorides(mg/L):	41				

SID:	9113				
Latitude:	32.7763	Longitude:	-104.1816		
Section:	4	Township:	18S	Range:	28E
WBF:	QAL	Formation:	OAL		
Depth:	145	Elevation:	3640		
Temperature:	0				
Date Collected:	Wed Sep 19 00:00:00 MDT 1990	Collector:	SEO	Point of Collection:	DP
Use:	null				
Conductivity:	1260				
Chlorides(mg/L):	76				

FRESH WATER DATA
Source : NM WAIDS Printed 01-22-11

SID:	9650				
Latitude:	32.7618	Longitude:	-104.2159		
Section:	7	Township:	18S	Range:	28E
WBF:	QAL	Formation:	QAL		
Depth:	140	Elevation:	3594		
Temperature:	65				
Date Collected:	Tue Oct 8 00:00:00 MDT 1985	Collector:	SEO	Point of Collection:	DP
Use:	Stock				
Conductivity:	1535				
Chlorides(mg/L):	255				

SID:	9357				
Latitude:	32.7618	Longitude:	-104.2159		
Section:	7	Township:	18S	Range:	28E
WBF:	QAL	Formation:	QAL		
Depth:	140	Elevation:	3594		
Temperature:	64				
Date Collected:	Wed Nov 23 00:00:00 MST 1988	Collector:	SEO	Point of Collection:	DP
Use:	Stock				
Conductivity:	2209				
Chlorides(mg/L):	280				

SID:	27744				
Latitude:	32.7618	Longitude:	-104.2159		
Section:	7	Township:	18S	Range:	28E
WBF:	PR	Formation:	RSLR		
Depth:	140	Elevation:	3549		
Temperature:	65				
Date Collected:	Wed Mar 9 00:00:00 MST 1994	Collector:	SEO	Point of Collection:	DP
Use:	Stock				
Conductivity:	2010				
Chlorides(mg/L):	208				

FRESH WATER DATA
Source : NM WAIDS Printed 01-22-11

SID:	26392				
Latitude:	32.7473	Longitude:	-104.1988		
Section:	17	Township:	18S	Range:	28E
WBF:	PAT	Formation:	ARTESIA		
Depth:	160	Elevation:	3599		
Temperature:	0				
Date Collected:	Tue Oct 8 00:00:00 MDT 1985	Collector:	SEO	Point of Collection:	DP
Use:	Stock				
Conductivity:	275				
Chlorides(mg/L):	6				

MITCHELL ANALYTICAL LABORATORY

2638 Faudree
Odessa, Texas 79765-8538
561-5579

Company: ***WadeCo Specialties, LLC***

Well Number:	State A & E	Sample Temp:	70
Lease:	Alamo	Date Sampled:	1/27/2011
Location:		Sampled by:	Wade Havens
Date Run:	1/27/2011	Employee #:	
Lab Ref #:	11-jan-w20470	Analyzed by:	DOM

			Mg/L	Eq. Wt.	MEq/L
Dissolved Gases					
Hydrogen Sulfide	(H2S)		.00	16.00	.00
Carbon Dioxide	(CO2)	**NOT ANALYZED**			
Dissolved Oxygen	(O2)	**NOT ANALYZED**			
Cations					
Calcium	(Ca++)		2,379.84	20.10	118.40
Magnesium	(Mg++)		722.24	12.20	59.20
Sodium	(Na+)		63,731.93	23.00	2,770.95
Barium	(Ba++)	**NOT ANALYZED**			
Manganese	(Mn+)		.35	27.50	.01
Anions					
Hydroxyl	(OH-)		.00	17.00	.00
Carbonate	(CO3=)		.00	30.00	.00
BiCarbonate	(HCO3-)		659.88	61.10	10.80
Sulfate	(SO4=)		3,000.00	48.80	61.48
Chloride	(Cl-)		102,112.20	35.50	2,876.40
Total Iron	(Fe)		2.03	18.60	.11
Total Dissolved Solids			172,608.47		
Total Hardness as CaCO3			8,910.78		
Conductivity MICROMHOS/CM			196,400		

pH 6.610 Specific Gravity 60/60 F. 1.120

CaSO4 Solubility @ 80 F. 86.25MEq/L, CaSO4 scale is unlikely

CaCO3 Scale Index

70.0	.519	100.0	.869	130.0	1.499
80.0	.619	110.0	1.179	140.0	1.499
90.0	.869	120.0	1.179	150.0	1.869

WadeCo Specialties, LLC

MITCHELL ANALYTICAL LABORATORY

2638 Faudree
Odessa, Texas 79765-8538
561-5579

Company: ***WadeCo Specialties, LLC***

Well Number:	Lime Rock Supply Water	Sample Temp:	70
Lease:	Alamo	Date Sampled:	1/27/2011
Location:		Sampled by:	Wade Havens
Date Run:	1/27/2011	Employee #:	
Lab Ref #:	11-jan-w20471	Analyzed by:	DOM

			Mg/L	Eq. Wt.	MEq/L
		Dissolved Gases			
Hydrogen Sulfide	(H2S)		55.00	16.00	3.44
Carbon Dioxide	(CO2)	**NOT ANALYZED**			
Dissolved Oxygen	(O2)	**NOT ANALYZED**			
		Cations			
Calcium	(Ca++)		2,677.32	20.10	133.20
Magnesium	(Mg++)		409.92	12.20	33.60
Sodium	(Na+)		64,796.97	23.00	2,817.26
Barium	(Ba++)	**NOT ANALYZED**			
Manganese	(Mn+)		.40	27.50	.01
		Anions			
Hydroxyl	(OH-)		.00	17.00	.00
Carbonate	(CO3=)		.00	30.00	.00
BiCarbonate	(HCO3-)		635.44	61.10	10.40
Sulfate	(SO4=)		3,650.00	48.80	74.80
Chloride	(Cl-)		102,913.08	35.50	2,898.96
Total Iron	(Fe)		1.51	18.60	.08
Total Dissolved Solids			175,139.64		
Total Hardness as CaCO3			8,373.97		
Conductivity MICROMHOS/CM			194,800		

pH 6.580 Specific Gravity 60/60 F. 1.122

CaSO4 Solubility @ 80 F. 85.74MEq/L, CaSO4 scale is unlikely

CaCO3 Scale Index

70.0	.524	100.0	.874	130.0	1.504
80.0	.624	110.0	1.184	140.0	1.504
90.0	.874	120.0	1.184	150.0	1.874

MITCHELL ANALYTICAL LABORATORY

2638 Faudree
Odessa, Texas 79765-8538
561-5579

Company: ***WadeCo Specialties, LLC***

Well Number:	Solt State	Sample Temp:	70
Lease:	Alamo	Date Sampled:	1/27/2011
Location:		Sampled by:	Wade Havens
Date Run:	1/27/2011	Employee #:	
Lab Ref #:	11-jan-w20472	Analyzed by:	DOM

			Mg/L	Eq. Wt.	MEq/L
		Dissolved Gases			
Hydrogen Sulfide	(H2S)		.00	16.00	.00
Carbon Dioxide	(CO2)	**NOT ANALYZED**			
Dissolved Oxygen	(O2)	**NOT ANALYZED**			
		Cations			
Calcium	(Ca++)		3,216.00	20.10	160.00
Magnesium	(Mg++)		932.08	12.20	76.40
Sodium	(Na+)		62,663.49	23.00	2,724.50
Barium	(Ba++)	**NOT ANALYZED**			
Manganese	(Mn+)		.59	27.50	.02
		Anions			
Hydroxyl	(OH-)		.00	17.00	.00
Carbonate	(CO3=)		.00	30.00	.00
BiCarbonate	(HCO3-)		342.16	61.10	5.60
Sulfate	(SO4=)		2,500.00	48.80	51.23
Chloride	(Cl-)		103,113.30	35.50	2,904.60
Total Iron	(Fe)		9.46	18.60	.51
Total Dissolved Solids			172,777.08		
Total Hardness as CaCO3			11,861.53		
Conductivity MICROMHOS/CM			161,400		

pH 6.470 Specific Gravity 60/60 F. 1.120

CaSO4 Solubility @ 80 F. 69.21MEq/L, CaSO4 scale is unlikely

CaCO3 Scale Index

70.0	.224	100.0	.574	130.0	1.204
80.0	.324	110.0	.884	140.0	1.204
90.0	.574	120.0	.884	150.0	1.574

WadeCo Specialties, LLC

MITCHELL ANALYTICAL LABORATORY

2638 Faudree
Odessa, Texas 79765-8538
561-5579

Company: ***WadeCo Specialties, LLC***

Well Number:	Windmill in UL-A, Sec 18-T18S-R28E	Sample Temp:	70
Lease:	Alamo Energy	Date Sampled:	10/12/2010
Location:	WC448	Sampled by:	Wade Havens
Date Run:	10/27/2010	Employee #:	
Lab Ref #:	10-oct-w19545	Analyzed by:	DOM

Per GC scan, sample contains no hydrocarbons.

			Mg/L	Eq. Wt.	MEq/L
		Dissolved Gases			
Hydrogen Sulfide	(H2S)		.00	16.00	.00
Carbon Dioxide	(CO2)	**NOT ANALYZED**			
Dissolved Oxygen	(O2)	**NOT ANALYZED**			
		Cations			
Calcium	(Ca++)		60.94	20.10	3.03
Magnesium	(Mg++)		15.57	12.20	1.28
Sodium	(Na+)		5.08	23.00	.22
Barium	(Ba++)	**NOT ANALYZED**			
Manganese	(Mn+)		.01	27.50	.00
		Anions			
Hydroxyl	(OH-)		.00	17.00	.00
Carbonate	(CO3=)		.00	30.00	.00
BiCarbonate	(HCO3-)		171.08	61.10	2.80
Sulfate	(SO4=)		20.00	48.80	.41
Chloride	(Cl-)		47.05	35.50	1.33
Total Iron	(Fe)		0.11	18.60	.01
Total Dissolved Solids			319.84		
Total Hardness as CaCO3			216.19		
Conductivity MICROMHOS/CM			503		

pH 8.610 Specific Gravity 60/60 F. 1.000

CaSO4 Solubility @ 80 F. 18.73MEq/L, CaSO4 scale is unlikely

CaCO3 Scale Index

70.0	.451	100.0	.801	130.0	1.311
80.0	.581	110.0	1.041	140.0	1.311
90.0	.801	120.0	1.041	150.0	1.541

Affidavit of Publication

No. 23109

State of New Mexico

County of Eddy:

Danny Scott

being duly sworn, sayes 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 July 20, 2014

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Sixth Publication

Subscribed ans sworn before me this

21st day of July 2014

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:

LEGAL NOTICE

Alamo Permian Resources, LLC is applying to expand its West Artesia Grayburg Unit ("WAGU") waterflood project by expanding the currently approved injection intervals to encompass the geological equivalent of the entire vertical extent of the waterflood in the Loco Hills Sandstone layer in the Queen formation and the Grayburg formation as measured and recorded on the gamma ray-neutron log for the WAGU Well No. 9 from 2020 feet to 2322 feet per Ordering Paragraph 4 of Order R-3357-C, in the following existing injection wells: (1) WAGU Well No. 1 (API No. 30-015-02645) located 990 feet from the North line and 2310 feet from the West line of Section 8, Township 18 South, Range 28 East; (2) WAGU Well No. 4 (API No. 30-015-02648) located 2310 feet from the North line and 990 feet from the West line in Section 8, Township 18 South, Range 28 East; (3) WAGU Well No. 6 (API No. 30-015-10328) located 2310 feet from the North line and 1980 feet from the East line of Section 8, Township 18 South, Range 28 East; (4) WAGU Well No. 12 (API No. 30-015-02649) located 1650 feet from the South line and 990 feet from the West line of Section 8, Township 18 South, Range 28 East; (5) WAGU Well No. 13 (API No. 30-015-02636) located 2310 feet from the South line and 330 feet from the East line of Section 7, Township 18 South, Range 28 East; and (6) WAGU Well No. 18 (API No. 30-015-01899) located 330 feet from the North line and 990 feet from the West line in Section 17, Township 18 South, Range 28 East, N.M.P.M., Eddy County, New Mexico. Alamo is currently permitted to inject at a maximum surface pressure of 423 pounds per square inch for each well identified above. Interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505 within 15 days of the date of this publication. If you have any questions about this application, please contact Tyler Woodruff, 820 Gessner, Suite 1650, Houston, TX 77024, (713) 224-2500, twoodruff@alamoresources.com.

Published in the Artesia Daily Press, Artesia, N.M., July 20 2014 Legal No. 23109.

HOLLAND&HART LLP

Adam G. Rankin
Associate
Phone (505) 954-7294
Fax (505) 983-6043
AGRankin@hollandhart.com

July 22, 2014

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED

TO AFFECTED PARTIES

Re: Application of Alamo Permian Resources, LLC for Administrative Approval of a Waterflood Expansion in the West Artesia Grayburg Waterflood Unit Area, Eddy County, New Mexico.

Dear Ladies and Gentlemen:

This letter is to advise you that Alamo Permian Resources, LLC ("Alamo") is filing the enclosed administrative application with the New Mexico Oil Conservation Division seeking authorization to expand its West Artesia Grayburg Unit ("WAGU") waterflood project by expanding the currently approved injection intervals to encompass the geological equivalent of the entire vertical extent of the waterflood in the Loco Hills Sandstone layer in the Queen formation and the Grayburg formation as measured and recorded on the gamma ray-neutron log for the WAGU Well No. 9 from 2020 feet to 2322 feet per Ordering Paragraph 4 of Order R-3357-C, in the following existing injection wells: (1) WAGU Well No. 1 (API No. 30-015-02645) located 990 feet from the North line and 2310 feet from the West line of Section 8, Township 18 South, Range 28 East; (2) WAGU Well No. 4 (API No. 30-015-02648) located 2310 feet from the North line and 990 feet from the West line in Section 8, Township 18 South, Range 28 East; (3) WAGU Well No. 6 (API No. 30-015-10328) located 2310 feet from the North line and 1980 feet from the East line of Section 8, Township 18 South, Range 28 East; (4) WAGU Well No. 12 (API No. 30-015-02649) located 1650 feet from the South line and 990 feet from the West line of Section 8, Township 18 South, Range 28 East; (5) WAGU Well No. 13 (API No. 30-015-02636) located 2310 feet from the South line and 330 feet from the East line of Section 7, Township 18 South, Range 28 East; and (6) WAGU Well No. 18 (API No. 30-015-01899) located 330 feet from the North line and 990 feet from the West line in Section 17, Township 18 South, Range 28 East, N.M.P.M., Eddy County, New Mexico.

The vertical extent of the approved waterflood project within the WAGU is the productive interval of the Loco Hills sandstone layer of the Queen formation and the Grayburg formation and is defined by the WAGU Well No. 9 unit type log as the interval from 2020 feet to 2322 feet, as measured and recorded on that well's gamma ray-neutron log. See Order R-3357-C, Ordering ¶ 4. For each of the wells identified above, Alamo seeks authorization to inject in each well identified above across the geologic equivalent of the entire vertical extent of the approved waterflood project, as defined in the WAGU No. 9 well. As dictated in Ordering Paragraph 12 of Order R-3357-C, Alamo is currently permitted to inject at a maximum surface pressure of 423 pounds per square inch for each well identified above.

Objections to this application or requests for hearing must be filed with the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505 within fifteen (15) days of the date of this letter. If no objection is received, the Division may approve the application administratively.

If you have questions concerning this application, you may contact the following:

Tyler Woodruff
820 Gessner, Suite 1650
Houston, TX 77024
(713) 224-2500
twoodruff@alamoresources.com.

Sincerely,

Adam G. Rankin
Attorney for Alamo Permian Resources, LLC

AGR
Enclosures

NMOCD-Form C-108 – Section VIII: Proof Of Notice
West Artesia Grayburg Unit Area

Exhibit "A"

West Artesia Grayburg Waterflood Expansion Notification List:

Injection well location Surface Owners:

State Of New Mexico
New Mexico State Land Office
310 Old Santa Fe Trail
Santa Fe, NM 87504

COG Operating, LLC
550 W. Texas, Suite 100
Midland, TX 79701

Leasehold Operator within one-half mile:

Cameron Oil & Gas Inc.
P.O. Box 1456
Roswell, NM 88202-1456

EOG Resources, Inc
P.O. Box 2267
Midland, TX 79702

Walter Solt, LLC
P.O. Box 70
Loco Hills, New Mexico 88255

DCP Midstream, LP
370 17th Street, Suite 2500
Denver, CO 80202

Morexco, Inc.
P.O. Box 51208
Midland, TX 79710

Ray Westall
P.O. Box 4
Loco Hills, NM 88255

Chase Oil Corporation
P.O. Box 1767

Artesia, New Mexico 88211

Kersey & Company
P.O. Box 1248
Fredericksburg, TX 78624

Kerr-McGee O/G Onshore, LP
P.O. Box 1330
Houston, TX 77251

Sandlott Energy (Jackie Brewer DBA)
P.O. Box 711
Lovington, NM 88260

M&M Oil, LLC
1902 West Hermosa Dr.
Artesia, NM 88210

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

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

Eastland Oil Co.
P.O. Box 3488
Midland, TX 79702

Harlow Enterprises, LLC
#26 Chalk Bluff Rd.
Artesia, NM 88210

Smith & Marrs, Inc.
P.O. Box 863
Kermit, TX 79745

C O Fulton
P.O. Box 1176
Artesia, NM 88210

Yates Petroleum Corporation
105 4th St.
Artesia, NM 88210

C-108 Review Checklist: Received ________ Add. Request: ________ Reply Date: ________ Suspended: ________ [*Ver 13*]

PERMIT TYPE: (WFX) PMX / SWD Number: ________ Permit Date: ________ Legacy Permits/Orders: ________

Well No. 1 Well Name(s): WAG 4

API : 30-0 15 - 02645 Spud Date: ________ New or (Old:) ________ (*UIC Class II Primacy 03/07/1982*)

Footages 990 FNL & 2310 FWL Lot ____ or Unit C Sec 8 Tsp 18 S Rge 28E County Eddy

General Location: ________ Pool: ________ Pool No.: ________

BLM 100K Map: ________ Operator: Alamo Permian Resources, LLC OGRID: 274841 Contact: Adam Rankin, Atty

COMPLIANCE RULE 5.9: Total Wells: 80 Inactive: ____ Fincl Assur: ____ Compl. Order? ____ **IS 5.9 OK?** Y **Date:** 8-01-04

WELL FILE REVIEWED ◯ Current Status: ________

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**	10"/8 5/8"	451	**Stage Tool**		
Planned __ or Existing __ **Interm/Prod**					
Planned __ or Existing __ **Interm/Prod**	8X"/5 1/2"	2295			1894/CALC
Planned __ or Existing __ **Prod/Liner**	2 3/8				
Planned __ or Existing __ **Liner**					
Planned __ or Existing __ **OH / (PERF)**	1982	2264	Inj Length 66	**Completion/Operation Details:**	

Injection Stratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.			
Confining Unit: Litho. Struc. Por.			
Proposed Inj Interval TOP:	1982	Queen-Grayburg	
Proposed Inj Interval BOTTOM:	2284		
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Drilled TD 2257 PBTD 2277

NEW TD ________ NEW PBTD ________

NEW Open Hole ◯ or NEW Perfs (✓)

Tubing Size 2 3/8 in. Inter Coated? Y

Proposed Packer Depth 1816 ft

Min. Packer Depth 1882 (100-ft limit)

Proposed Max. Surface Press. 423 psi

Admin. Inj. Press. 396 (0.2 psi per ft)

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 160 **HYDRO AFFIRM STATEMENT By Qualified Person** ◯

NMOSE Basin: Roswell / Capitan Domestic **CAPITAN REEF:** thru ◯ adj ◯ NA (✓) **No. Wells within 1-Mile Radius?** ____ FW Analysis ◯

Disposal Fluid: Formation Source(s) ________ Analysis? ____ On Lease ◯ Operator Only ◯ or Commercial ◯

Disposal Int: Inject Rate (Avg/Max BWPD): 600/1000 Protectable Waters? ____ Source: ____ System: Closed (◯) or Open ◯

HC Potential: Producing Interval? X Formerly Producing? ____ Method: Logs/DST/P&A/Other ________ 2-Mile Radius Pool Map ◯

AOR Wells: 1/2-M Radius Map? 71 Well List? 71 Total No. Wells Penetrating Interval: 71 Horizontals? 0

Penetrating Wells: No. Active Wells 71 Num Repairs? ____ on which well(s)? ________ Diagrams? ____

Penetrating Wells: No. P&A Wel' 14 Num Repairs? ____ on which well(s)? ________ Diagrams? ____

NOTICE: Newspaper Date 7-20-14 Mineral Owner ________ Surface Owner NMSLO/COG N. Date 7-2014

RULE 26.7(A): Identified Tracts? ____ Affected Persons: Cameron Oil & Gas, BCD Midstream, Ray Westall, Chase Oil N. Date 7-22-14

Permit Conditions: Issues: ________

Add Permit Cond: ________

C-108 Review Checklist: Received _____ Add. Request: _____ Reply Date: _____ Suspended: _____ [Ver 13]

PERMIT TYPE: WFX / PMX / SWD Number: _____ Permit Date: _____ Legacy Permits/Orders: _____

Well No. 4 Well Name(s): WAGU #4

API : 30-0 15-02648 Spud Date: 7/24/1958 New or (Old): _____ (***UIC Class II Primacy 03/07/1982***)

Footages 2310 FNL & 990 FWL Lot ___ or Unit E Sec 8 Tsp 18S Rge 28E County Eddy

General Location: Artesia Pool: Queen-Grayburg Pool No.: 3230

BLM 100K Map: _____ Operator: Alamo Permian Resources OGRID: 274841 Contact: Adam Rankin

COMPLIANCE RULE 5.9: Total Wells: _____ Inactive: _____ Fincl Assur: _____ Compl. Order? _____ **IS 5.9 OK?** Y **Date:** 8/1/14

WELL FILE REVIEWED ◯ Current Status: _____

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**	10 1/8 5/8	441'	Stage Tool		
Planned __or Existing __ **Interm/Prod**					
Planned __or Existing __ **Interm/Prod**	8 5/8 / 7"	2285			1752 / CALC
Planned __or Existing __ **Prod/Liner**					
Planned __or Existing __ **Liner**					
Planned __or Existing __ **OH / PERF**			Inj Length		

Injection Stratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.			
Confining Unit: Litho. Struc. Por.			
Proposed Inj Interval TOP:	1966	Queen-Grayburg	
Proposed Inj Interval BOTTOM:	1974		
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:

Drilled TD _____ PBTD _____

NEW TD _____ NEW PBTD _____

NEW Open Hole ◯ or NEW Perfs ◯

Tubing Size _____ in. Inter Coated? _____

Proposed Packer Depth _____ ft

Min. Packer Depth _____ (100-ft limit)

Proposed Max. Surface Press. 423 psi

Admin. Inj. Press. 313 (0.2 psi per ft)

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 160 **HYDRO AFFIRM STATEMENT By Qualified Person** ◯

NMOSE Basin: Capitan (205 wells) Domestic **CAPITAN REEF:** thru ◯ adj ◯ NA ✓ **No. Wells within 1-Mile Radius?** _____ FW Analysis ◯

Disposal Fluid: Formation Source(s) _____ Analysis? _____ On Lease ◯ Operator Only ◯ or Commercial ◯

Disposal Int: Inject Rate (Avg/Max BWPD): 600 / 1000 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? 71 Well List? _____ Total No. Wells Penetrating Interval: 71 Horizontals? Ø

Penetrating Wells: No. Active Wells 71 Num Repairs? ___ on which well(s)? _____ Diagrams? _____

Penetrating Wells: No. P&A Well 14 Num Repairs? ___ on which well(s)? _____ Diagrams? _____

NOTICE: Newspaper Date 7-20-14 Mineral Owner NM SLO (183 acres) Surface Owner NM SLO/COG N. Date 7-20-14

RULE 26.7(A): Identified Tracts? _____ Affected Persons: Cameron Oil & Gas, DCP Midstream, Raywestall, Chits E O, I N. Date 7-22-14

Permit Conditions: **Issues:** _____

Add Permit Cond: _____

C-108 Review Checklist: Received ________ Add. Request: ________ Reply Date: ________ Suspended: ________ *[Ver 13]*

PERMIT TYPE: WFX / (PMX) / SWD Number: ________ Permit Date: ________ Legacy Permits/Orders: ________

Well No. 13 Well Name(s): WAGY

API : 30-0 15-02636 Spud Date: 4/21/1955 New or (Old) ________ (*UIC Class II Primacy 03/07/1982*)

Footages 2310FSL, 330FEL Lot ____ or Unit I Sec 7 Tsp 18S Rge 28E County Eddy

General Location: ________ Pool: Artesia Queen-Grayburg Pool No.: 3230

BLM 100K Map: ________ Operator: Alamo Permian Resources OGRID: 274841 Contact: Adam Rankin

COMPLIANCE RULE 5.9: Total Wells: ________ Inactive: ________ Fincl Assur: ________ Compl. Order? ________ **IS 5.9 OK?** ____ **Date:** ________

WELL FILE REVIEWED ◯ Current Status: ________

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	10 1/4 / 8 5/8	457	**Stage Tool**	50 LS	103/CALC
Planned__or Existing __ Interm/Prod					
Planned__or Existing __Interm/Prod	7 1/4 / 5 1/2"	2251		100	1714/CALC
Planned__or Existing __ Prod/Liner					
Planned__or Existing __ Liner					
Planned__or Existing __ OH / (PERF)			Inj Length 276		

Injection Stratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.			
Confining Unit: Litho. Struc. Por.			
Proposed Inj Interval TOP:	1932		
Proposed Inj Interval BOTTOM:	2208		
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:

Drilled TD 2252 PBTD 2250

NEW TD ________ NEW PBTD ________

NEW Open Hole ◯ or NEW Perfs ⊖

Tubing Size 2 3/8 in. Inter Coated? Y

Proposed Packer Depth 1875 ft

Min. Packer Depth 1832 (100-ft limit)

Proposed Max. Surface Press. 423 psi

Admin. Inj. Press. 386 (0.2 psi per ft)

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 160 **HYDRO AFFIRM STATEMENT By Qualified Person** ◯

NMOSE Basin: Roswell Capitan **CAPITAN REEF:** thru◯ adj◯ NA◯ **No. Wells within 1-Mile Radius?** ______ FW Analysis◯

Disposal Fluid: Formation Source(s) Domestic ________ Analysis? ______ On Lease ◯ Operator Only ◯ or Commercial ◯

Disposal Int: Inject Rate (Avg/Max BWPD): 600/1000 Protectable Waters? ______ Source: ______ System: Closed◯ or Open◯

HC Potential: Producing Interval? X Formerly Producing? ______ Method: Logs/DST/P&A/Other ______ 2-Mile Radius Pool Map ◯

AOR Wells: 1/2-M Radius Map? 71 Well List? ______ Total No. Wells Penetrating Interval: 71 Horizontals? Ø

Penetrating Wells: No. Active Wells 71 Num Repairs? ____ on which well(s)? ________ Diagrams? ______

Penetrating Wells: No. P&A Wells 14 Num Repairs? ____ on which well(s)? ________ Diagrams? ______

NOTICE: Newspaper Date 7-20-14 Mineral Owner BLM/NMSLO Surface Owner NMSLO/COG N. Date 7-20-14

RULE 26.7(A): Identified Tracts? ______ Affected Persons: Cameron Oil & Gas, DCP Midstream, WAY/Westway, Mack Energy) N. Date 7-22-14

Permit Conditions: **Issues:** ________

Add Permit Cond: ________

C-108 Review Checklist: Received _____ Add. Request: _____ Reply Date: _____ Suspended: _____ [Ver 13]

PERMIT TYPE: WFX / PMX / SWD Number: _____ Permit Date: _____ Legacy Permits/Orders: _____

Well No. 18 Well Name(s): WAG 4

API : 30-0 15-01899 Spud Date: 3-26-1960 New or (Old): ? (**UIC Class II Primacy 03/07/1982**)

Footages 330 FNL & 990 FWL Lot ___ or Unit D Sec 17 Tsp 18S Rge 28E County _____

General Location: _____ Pool: _____ Pool No.: _____

BLM 100K Map: _____ Operator: Alamo Permian Resources, LLC OGRID: 274841 Contact: Adam Rankin

COMPLIANCE RULE 5.9: Total Wells: _____ Inactive: _____ Fincl Assur: _____ Compl. Order? _____ **IS 5.9 OK?** Y **Date:** 8/01-14

WELL FILE REVIEWED ◯ Current Status: _____

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)	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
Planned __or Existing __ **Surface**	10 4/4 8 5/8"	506		501 S	152 / CALC
Planned __or Existing __ **Interm/Prod**					
Planned __or Existing __ **Interm/Prod**					
Planned __or Existing __ **Prod/Liner**	7 5/5 1/2"	2317			
Planned __or Existing __ **Liner**					
Planned __or Existing __ **OH / PERF**			Inj Length		

Injection Stratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.			
Confining Unit: Litho. Struc. Por.			
Proposed Inj Interval TOP:			
Proposed Inj Interval BOTTOM:			
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:

Drilled TD 2415 PBTD 2317

NEW TD _____ NEW PBTD _____

NEW Open Hole ◯ or NEW Perfs ◯

Tubing Size 2 3/8 in. Inter Coated? Y

Proposed Packer Depth 1918 ft

Min. Packer Depth 1919 (100-ft limit)

Proposed Max. Surface Press. ~~402~~ 423 psi

Admin. Inj. Press. 402 (0.2 psi per ft)

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: _____ **CAPITAN REEF:** thru ◯ adj ◯ NA ◯ **No. Wells within 1-Mile Radius?** _____ FW Analysis ◯

Disposal Fluid: Formation Source(s) _____ Analysis? _____ On Lease ◯ Operator Only ◯ or Commercial ◯

Disposal Int: Inject Rate (Avg/Max BWPD): _____ 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: _____ Horizontals? _____

Penetrating Wells: No. Active Wells ____ Num Repairs? ____ on which well(s)? _____ Diagrams? _____

Penetrating Wells: No. P&A Wells ____ Num Repairs? ____ on which well(s)? _____ Diagrams? _____

NOTICE: Newspaper Date _____ Mineral Owner _____ Surface Owner _____ N. Date _____

RULE 26.7(A): Identified Tracts? _____ Affected Persons: _____ N. Date _____

Permit Conditions: **Issues:** _____

Add Permit Cond: _____

C-108 Review Checklist: Received ________ Add. Request: ________ Reply Date: ________ Suspended: ________ [Ver 13]

PERMIT TYPE: (WFX) / PMX / SWD Number: ________ Permit Date: ________ Legacy Permits/Orders: ________

Well No. 6 Well Name(s): WAGU #6

API : 30-0 15 - 10328 Spud Date: 6/24/1964 New or (Old) ____ (*UIC Class II Primacy 03/07/1982*)

Footages 2310 FNL & 1980 FEL Lot ____ or Unit G Sec 8 Tsp 18S Rge 28E County Eddy

General Location: ________ Pool: Artesia Pool No.: 3230

BLM 100K Map: ________ Operator: Alamo Permian Queen-Grayburg Resources, LLC OGRID: 274841 Contact: Adam Rankin

COMPLIANCE RULE 5.9: Total Wells: ____ Inactive: ____ Fincl Assur: ____ Compl. Order? ____ **IS 5.9 OK?** ____ **Date:** ____

WELL FILE REVIEWED ◯ Current Status: ________

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**	11"/8 5/8	426	**Stage Tool**	50	231 / CALC
Planned __ or Existing __ **Interm/Prod**					
Planned __ or Existing __ **Interm/Prod**	7"/5½"	2293		100	1757
Planned __ or Existing __ **Prod/Liner**					
Planned __ or Existing __ **Liner**					
Planned __ or Existing __ **OH / (PERF)**			Inj Length 205	**Completion/Operation Details:**	

Injection Stratigraphic Units:	**Depths (ft)**	**Injection or Confining Units**	**Tops**
Adjacent Unit: Litho. Struc. Por.			
Confining Unit: Litho. Struc. Por.			
Proposed Inj Interval TOP:	2012		
Proposed Inj Interval BOTTOM:	2277		
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:

Drilled TD 2295 PBTD 2293

NEW TD ________ NEW PBTD ________

NEW Open Hole ◯ or NEW Perfs ◯

Tubing Size 2 3/8 in. Inter Coated? Y

Proposed Packer Depth 1953 ft

Min. Packer Depth 1912 (100-ft limit)

Proposed Max. Surface Press. 423 psi

Admin. Inj. Press. 402 (0.2 psi per ft)

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 160 **HYDRO AFFIRM STATEMENT By Qualified Person** ◯

NMOSE Basin: Roswell / Capitan / Domestic **CAPITAN REEF:** thru ◯ adj ◯ NA ◯ **No. Wells within 1-Mile Radius?** ____ FW Analysis ◯

Disposal Fluid: Formation Source(s) ________ Analysis? ____ On Lease ◯ Operator Only ◯ or Commercial ◯

Disposal Int: Inject Rate (Avg/Max BWPD): 600/1000 Protectable Waters? ____ Source: ____ System: Closed (◯) or Open ◯

HC Potential: Producing Interval? X 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: ____ Horizontals? ____

Penetrating Wells: No. Active Wells 71 Num Repairs? ____ on which well(s)? ________ Diagrams? ____

Penetrating Wells: No. P&A Wells 14 Num Repairs? ____ on which well(s)? ________ Diagrams? ____

NOTICE: Newspaper Date 7-20-14 Mineral Owner NMSLO/BLM Surface Owner NMSLO/COA N. Date 7-20-14

RULE 26.7(A): Identified Tracts? ____ Affected Persons: ________ N. Date ____

Permit Conditions: Issues: ________

Add Permit Cond: ________

C-108 Review Checklist: Received ________ Add. Request: ________ Reply Date: ________ Suspended: ________ [Ver 13]

PERMIT TYPE: WFX / PMX / SWD Number: ________ Permit Date: ________ Legacy Permits/Orders: ________

Well No. 12 Well Name(s): WAGU

API : 30-0 15-02649 Spud Date: 9/7/1957 New or (Old) ____ (*UIC Class II Primacy 03/07/1982*)

Footages 1650FSL & 950FWL Lot ____ or Unit L Sec 8 Tsp 18S Rge 28E County Eddy

General Location: ________ Pool: Artesia Queen-Grayburg Pool No.: 3230

BLM 100K Map: ________ Operator: Alamo Permian Resources, LLC OGRID: 274841 Contact: Adam Rankin

COMPLIANCE RULE 5.9: Total Wells: ____ Inactive: ____ Fincl Assur: ____ Compl. Order? ____ **IS 5.9 OK?** ____ **Date:** ____

WELL FILE REVIEWED ◯ Current Status: ________

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	441		Stage Tool	430	228/CALC
Planned__or Existing __ Interm/Prod					
Planned__or Existing __Interm/Prod	7"/5½"	2273		100	1735/CALC
Planned__or Existing __ Prod/Liner					
Planned__or Existing __ Liner					
Planned__or Existing __ OH / (PERF)			Inj Length		

Injection Stratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.			
Confining Unit: Litho. Struc. Por.			
Proposed Inj Interval TOP:	1966		
Proposed Inj Interval BOTTOM:	2253		
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:

Drilled TD 2273 PBTD 2273
NEW TD ________ NEW PBTD ________
NEW Open Hole ◯ or NEW Perfs ⊗
Tubing Size 2 3/8 in. Inter Coated? Y
Proposed Packer Depth ________ ft
Min. Packer Depth ________ (100-ft limit)
Proposed Max. Surface Press. 423 psi
Admin. Inj. Press. 393 (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P ◯ *Noticed?* ____ **BLM Sec Ord** ◯ **WIPP** ◯ *Noticed?* ____ **SALT/SALADO** T: ____ B: ____ **CLIFF HOUSE** ____

FRESH WATER: Aquifer Roswell Capitan Domestic Max Depth 160 **HYDRO AFFIRM STATEMENT By Qualified Person** ◯

NMOSE Basin: ________ **CAPITAN REEF:** thru◯ adj◯ NA◯ **No. Wells within 1-Mile Radius?** ____ FW Analysis◯

Disposal Fluid: Formation Source(s) ________ Analysis? ____ On Lease ◯ Operator Only ◯ or Commercial ◯

Disposal Int: Inject Rate (Avg/Max BWPD): 600/1000 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? 71 Well List? ____ Total No. Wells Penetrating Interval: ____ Horizontals? ____

Penetrating Wells: No. Active Wells 71 Num Repairs? ____ on which well(s)? ________ Diagrams? ____

Penetrating Wells: No. P&A Wells 14 Num Repairs? ____ on which well(s)? ________ Diagrams? ____

NOTICE: Newspaper Date 7-2014 Mineral Owner NMSLO/BLM Surface Owner NMSLO/COE N. Date 7-2014

RULE 26.7(A): Identified Tracts? ____ Affected Persons: Cameron Oil and Gas, DCP Midstream, RAY Westall N. Date 7-22-14

Permit Conditions: Issues: ________

Add Permit Cond: ________

HOLLAND&HART LLP

Adam G. Rankin
Associate
Phone 505-954-7294
Fax 505-983-6043
agrankin@hollandhart.com

July 22, 2014

VIA HAND DELIVERY

Jami Bailey, Chair
Oil Conservation Commission
New Mexico Department of Energy
Minerals and Natural Resources
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Application of Alamo Permian Resources, LLC for Administrative Approval of a Waterflood Expansion in the West Artesia Grayburg Waterflood Unit Area, Eddy County, New Mexico.

Dear Ms. Bailey:

Enclosed, please find the original above-referenced application on behalf of Alamo Permian Resources, LLC. Your attention to this matter is greatly appreciated.

Sincerely,

Adam G. Rankin
ATTORNEY FOR
ALAMO PERMIAN RESOURCES, LLC

McMillan, Michael, EMNRD

From: Tyler Woodruff <twoodruff@alamoresources.com>
Sent: Thursday, August 07, 2014 5:48 AM
To: McMillan, Michael, EMNRD
Cc: Gabrielle Gerholt; 'Adam Rankin'
Subject: Alamo Permian Resources Water flood Expansion West Artesia WAGU #1 API 30-015-02645

Mr. McMillan,

You submitted a question to Alamo on July 29th and it has been more than a week and we have not replied back to you. I sincerely apologize for such a delay in responding to your request.

We have been actively reviewing the well files and believe that the top of the packer is at 1816' and the top of the perfs is at 1982'. This was an oversight on our part. We are currently looking into rig availability and working on a procedure to lower the packer in order to be in compliance with Hearing Order R-3357-C. Regarding your question about the top of the cement, we are looking for a bond log to verify the depth of the top of cement.

Again, I am sorry that we did not respond more promptly.

Tyler