

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] - SWD  
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] - Nabors Completion and Production Services CO  
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] TYPE OF APPLICATION - Check Those Which Apply for [A]  
 [A] Location - Spacing Unit - Simultaneous Dedication  
 NSL  NSP  SD  
 Check One Only for [B] or [C]  
 [B] Commingling - Storage - Measurement  
 DHC  CTB  PLC  PC  OLS  OLM  
 [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
 WFX  PMX  SWD  IPI  EOR  PPR  
 [D] Other: Specify [SWD-223]

- [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

[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.

Kyle B. CornBEST Kyle B. CornBEST Geologist 01 OCT 2014  
 Print or Type Name Signature Title Date  
Kyle.combest@nabors.com  
 e-mail Address

RECEIVED OGD  
 2014 OCT - 1 P 1:18  
 well  
 -state AB  
 SWD  
 30-025-23786  
 Pool  
 -SWD, SAN  
 Andres  
 96121

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance  Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval?  Yes \_\_\_\_\_ No
- II. OPERATOR: **Nabors Completion and Production Services, Co.**  
ADDRESS: **515 W. Greens Road, Suite 1170; Houston, TX 77067-4599**  
CONTACT PARTY: **Kyle Combest** PHONE: **325-651-2286 office; 325-655-4302 cell**
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? \_\_\_\_\_ Yes  No  
If yes, give the Division order number authorizing the project: \_\_\_\_\_
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review. **Attachment A**
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail. **Attachment A**
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.). **Items 1-5 in Attachment B**
- \*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval. **Attachment C**
- IX. Describe the proposed stimulation program, if any. **No stimulation program**
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). **Well logs attached (CBL and GR/Neutron/Acoustilog. A sample log from nearby well also attached)**
- \*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken. **Attachment D**
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water. **Geologic and engineering data examined and no evidence of open faults or hydrologic connection.**
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form. **Refer to "Proof of Notice" section**
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.  
NAME: Kyle B. Combest TITLE: Geologist / Project Mgr  
SIGNATURE: *Kyle B. Combest* DATE: 17 Sep 2014  
E-MAIL ADDRESS: kyle.combest@nabors.com
- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: \_\_\_\_\_

### III. WELL DATA

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

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

#### **Items 1-4 in Attachment E**

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. **San Andres**
- (2) The injection interval and whether it is perforated or open-hole. **Perforated**
- (3) State if the well was drilled for injection or, if not, the original purpose of the well. **Originally drilled as Queen producer**
- (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. **Attachment E**
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.  
**Queen (Penrose) at 3950'**

### XIV. PROOF OF NOTICE **Attachment F**

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

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

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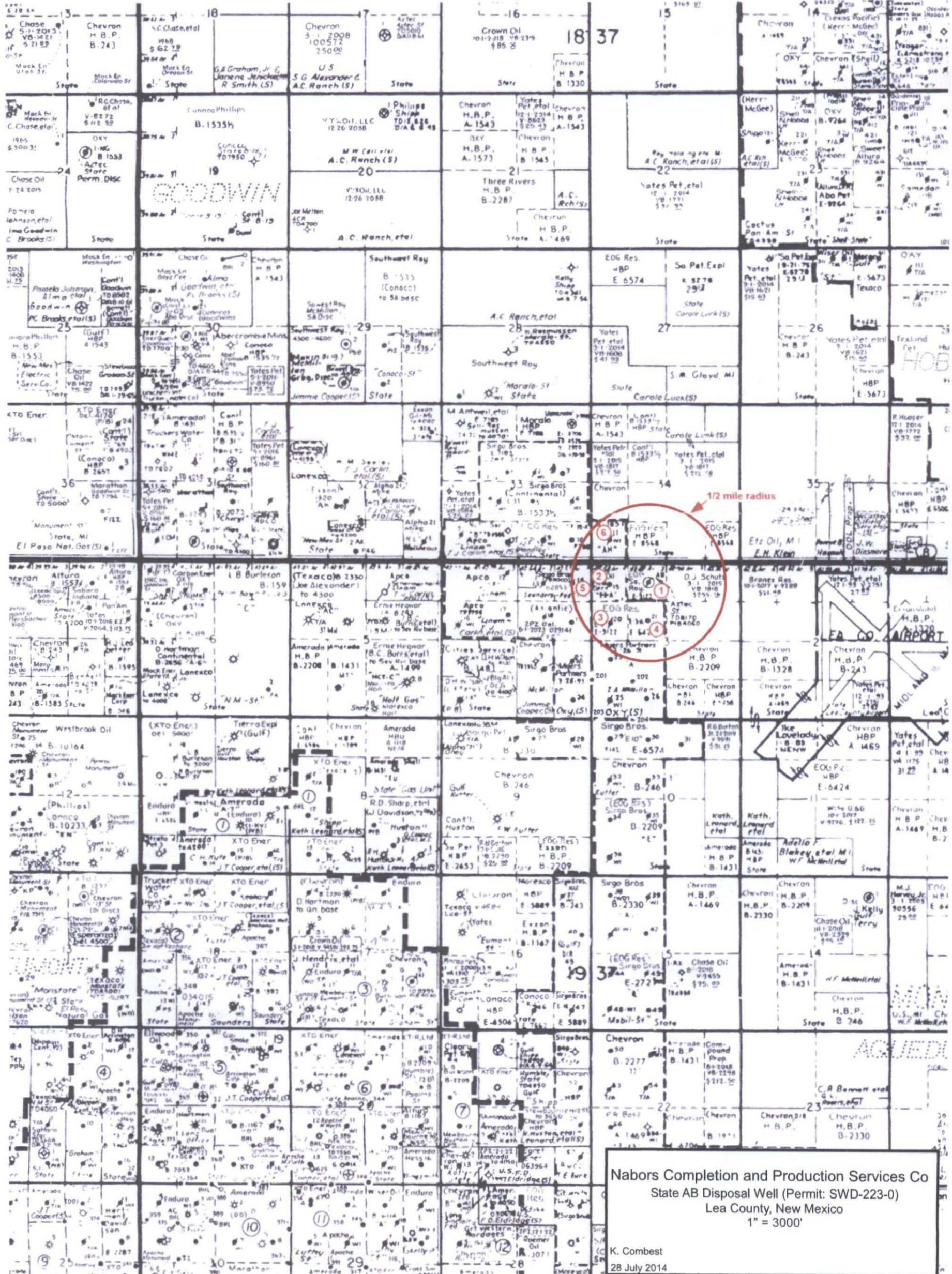
**NOTICE:** Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

## **Attachment A. Maps and Area of Review with Tabular Data**

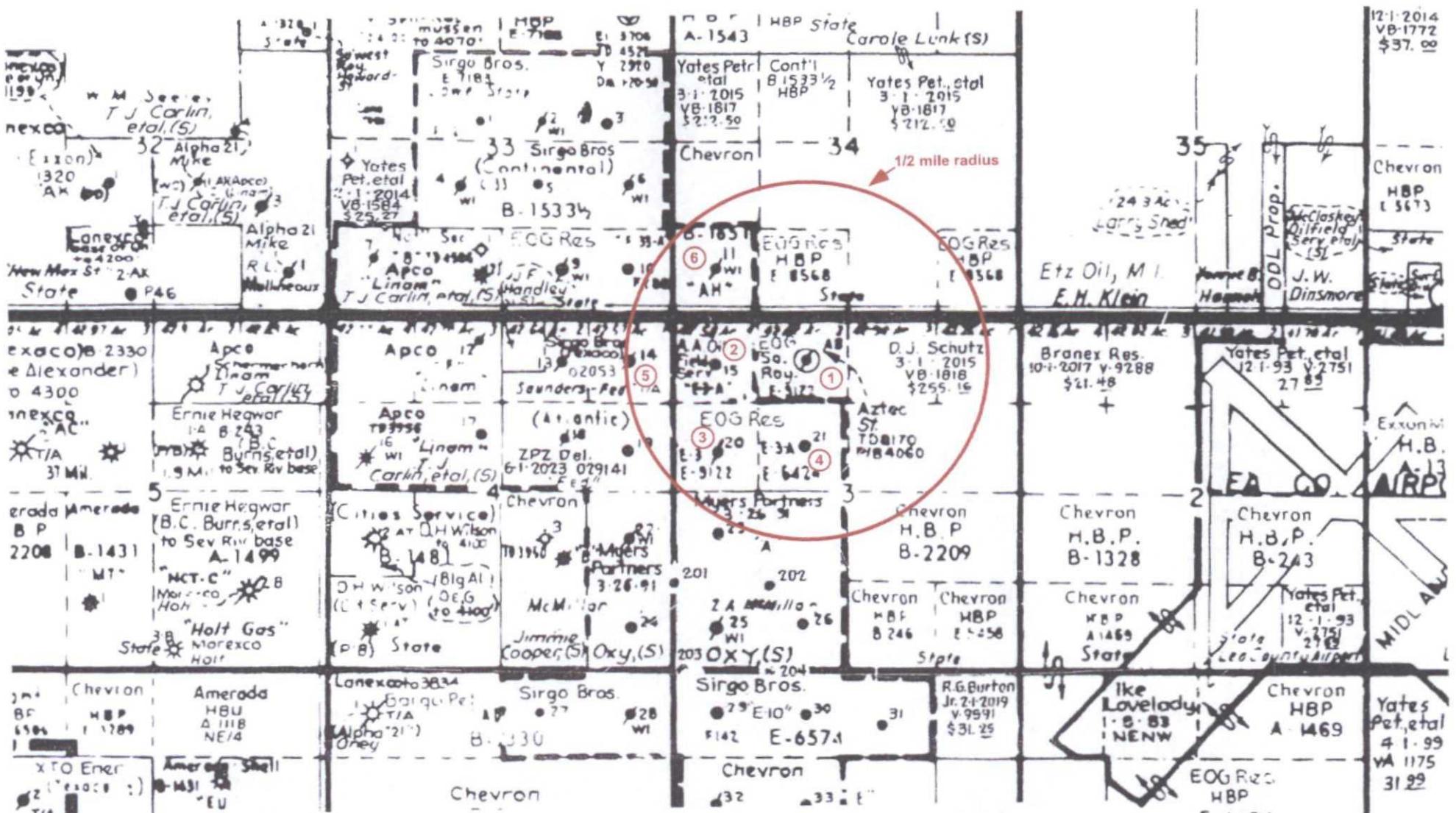
**(Data for Sections V. and VI.)**

**Note: there are NO WELLS within the ½-mi AOR  
that penetrate the proposed injection interval.**

Map ID	API	Well Name	Well#	Type	Status	Section	Township	Range	Footages	TD	T perf	B perf	Zone	Current Operator
1	30-025-23786	STATE AB SWD	#001	SWD	Active	3	19S	37E	660 FNL, 1980 FWL	8170	4897	4919	San Andres	[295925] NABORS COMPLETION & PRODUCTION SERVICES CO
2	30-025-09877	EAST EUMONT UNIT	#015	Oil	Active	3	19S	37E	702 FNL, 660 FWL	4007	3798	3970	Queen	[192463] OXY USA WTP LIMITED PARTNERSHIP
3	30-025-09878	EAST EUMONT UNIT	#020	Injection	Active	3	19S	37E	2091 FNL, 660 FWL	4004	3775	3954	Queen	[192463] OXY USA WTP LIMITED PARTNERSHIP
4	30-025-09879	EAST EUMONT UNIT	#021	Oil	Active	3	19S	37E	2062 FNL, 1980 FWL	4028	3816	3990	Queen	[192463] OXY USA WTP LIMITED PARTNERSHIP
5	30-025-05556	EAST EUMONT UNIT	#014	Injection	Active	4	19S	37E	660 FNL, 660 FEL	3955	3793	3958	Queen	[192463] OXY USA WTP LIMITED PARTNERSHIP
6	30-025-05538	EAST EUMONT UNIT	#011	Injection	Active	34	18S	37E	660 FSL, 660 FWL	4012	3797	3970	Queen	[192463] OXY USA WTP LIMITED PARTNERSHIP



Nabors Completion and Production Services Co  
 State AB Disposal Well (Permit: SWD-223-0)  
 Lea County, New Mexico  
 1" = 3000'  
 K. Combest  
 28 July 2014



Map ID	API	Well Name	Well#	Type	Status	Section	Township	Range	Footages	TD	T perf	B perf	Zone	Current Operator
1	30-025-23786	STATE AB SWD	#001	SWD	Active	3	19S	37E	660 FNL, 1980 FWL	8170	4897	4919	San Andres	[295925] NABORS COMPLETION & PRODUCTION SERVICES CO
2	30-025-09877	EAST EUMONT UNIT	#015	Oil	Active	3	19S	37E	702 FNL, 660 FWL	4007	3798	3970	Queen	[192463] OXY USA WTP LIMITED PARTNERSHIP
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6	30-025-05538	EAST EUMONT UNIT	#011	Injection	Active	3A	18S	37E	660 FSL, 660 FWL	4012	3797	3970	Queen	[192463] OXY USA WTP LIMITED PARTNERSHIP

Wise U.S.G.  
10-1-2017  
V-9276, \$122.25

Jelia F. Key et al, M.I.  
W.F. McNeill, et al  
State

EOG Rec HBP E-6424

Yates Petr. etal  
12-1-93 V-2751  
27.85

Yates Petr. etal  
12-1-93 V-2751  
27.85

Yates Petr. etal  
4-1-99 VA 1175  
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M.J. Harvey, Jr.  
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B-2330



Google earth



Map ID	API	Well Name	Well#	Type	Status	Section	Township	Range	Footages	TD	T perf	B perf	Zone	Current Operator
1	30-025-23786	STATE AB SWD	#001	SWD	Active	3	19S	37E	660 FNL, 1980 FWL	8170	4897	4919	San Andres	[295925] NABORS COMPLETION & PRODUCTION SERVICES CO
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Nabors Completion & Production Services Co  
 #1 State AB SWD  
 Lea County, NM

Aerial photograph

## **Attachment B. Disposal Formation Water**

**(Data for Section VII.)**

## Section VII. Items 1-5

1. Nabors plans to dispose an average of 3500 BWPD, a maximum of 7000 BWPD, and ultimately 12 million barrels of salt water.
2. The system is closed
3. Average injection pressure is expected to be <100 psi with a maximum of 860 psi.
4. Analysis of produced water for the San Andres and Grayburg are attached. Results show the produced water is compatible with the San Andres formation water.
5. The disposal zone is not productive within 1 mile. A chemical analysis for typical San Andres formation water is attached (data from New Mexico Tech PRRC).





### Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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Caley D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

August 26, 2014

FREEMAN YOUNG

NABOR WELL SERVICES

3300 N. A STREET BUILDING # 2 SUITE 200

MIDLAND, TX 79705

RE: WATER SAMPLES

Enclosed are the results of analyses for samples received by the laboratory on 08/18/14 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Page 1 of 4

101 East Marland, Hobbs, NM 88240  
 (575) 393-2328 FAX (575) 393-2476

Company Name: <b>Nabors</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																							
Project Manager: <b>Freeman Young</b>		P.O.#:																									
Address: <b>3224 W C Road</b>		Company:																									
City: <b>Hobbs</b> State: <b>NM</b> Zip: <b>88240</b>		Attn:																									
Phone #: <b>(575) 390-8059</b> Fax #: <b>575-392-9577</b>		Address:																									
Project #: _____ Project Owner: _____		City:																									
Project Name: _____		State: _____ Zip: _____																									
Project Location: _____		Phone #: _____																									
Sampler Name: _____		Fax #: _____																									
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS													MATRIX				PRESERV.		SAMPLING		TDS			
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACIDBASE	ICE / COOL	OTHER:	DATE	TIME													
<b>H402577</b>																											
	<b>1 San Andres</b>	<b>G</b>	<b>1</b>										<b>8/14/14</b>	<b>2:00</b>													
	<b>2 Grayburg</b>	<b>G</b>	<b>1</b>										<b>1</b>	<b>1</b>													

PLEASE NOTE: Liability and Damages: Cardinal's liability and chain of custody extends only to the sample as received. It does not extend to the results of the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or associates arising out of or related to the performance of services performed by Cardinal. Reproduction of this form shall be limited to one copy of the above stated regions for laboratory use only.

Relinquished By:	Date: <b>8/14/14</b> Time: <b>4:00</b>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____
Relinquished By: _____	Date: _____ Time: _____	Received By: _____	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY:

freeman.young@nabors.com

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2328

#511

**San Andres Formation Water Analysis  
From well located 3-mi SW of the State AB SWD**

wellname	NORTH MONUMENT G/SA UNIT
wellid	14
api	3002505574
latitude	32.66826
longitude	-103.29156
section	7
Field0	19
township_dir	S
Field1	37
range_dir	E
ftgns	330
ftgns_dir	S
ftgew	2310
ftgew_dir	W
unit	N
county	Lea
state	NM
field	EUNICE MONUMENT
formation	GBG/SA
tds_mgL	73974
chloride_mgL	43820
bicarbonate_mgL	1859
sulfate_mgL	4023

Source: New Mexico Tech - Petroleum Recovery Research Center

## **Attachment C. Injection Zone Geologic Summary**

**(Data for Section VIII.)**

## Section VIII data.

The proposed injection zone is 4300'-5700' in the existing wellbore.

This interval covers almost the entire San Andres except for the top 175' (well log attached).

The San Andres is limestone and dolomite (sample log attached).

Local production is in the Queen (Penrose) which is water flooded. ✓

The Queen (Penrose) is approximately 200' above the proposed top injection interval (see well log)

There are no freshwater zones below the proposed injection interval. ✓

Water well data shows that the Ogallala is the freshwater zone. ✓

Well depths range from 100-180' with water depths ranging from 40'-65' (see attached report in this Attachment)

Water uses include livestock, domestic, commercial, supply for oil well drilling and public works construction.

**#1 State AB SWD**

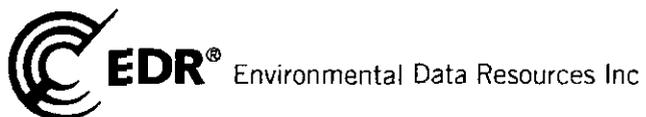
US Hwy 62

Hobbs, NM 88240

Inquiry Number: 4027653.1s

August 05, 2014

## The EDR GeoCheck® Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrmet.com](http://www.edrmet.com)

# GEOCHECK® - PHYSICAL SETTING SOURCE REPORT

## TARGET PROPERTY ADDRESS

#1 STATE AB SWD  
US HWY 62  
HOBBS, NM 88240

## TARGET PROPERTY COORDINATES

Latitude (North): 32.695 - 32° 41' 42.00"  
Longitude (West): 103.2414 - 103° 14' 29.04"  
Universal Transverse Mercator: Zone 13  
UTM X (Meters): 664858.4  
UTM Y (Meters): 3618652.2  
Elevation: 3682 ft. above sea level

## USGS TOPOGRAPHIC MAP

Target Property Map: 32103-F2 HOBBS WEST, NM  
Most Recent Revision: 1979  
  
West Map: 32103-F3 MONUMENT NORTH, NM  
Most Recent Revision: 1985

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	1.000
State Database	1.000

## **FEDERAL USGS WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

## **FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

## **STATE DATABASE WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	NM3000000019571	0 - 1/8 Mile WNW
2	NM3000000019450	0 - 1/8 Mile SSE
A3	NM3000000019379	1/8 - 1/4 Mile SW
A4	NM3000000019380	1/8 - 1/4 Mile SW
5	NM3000000019572	1/4 - 1/2 Mile West
6	NM3000000019819	1/4 - 1/2 Mile NW
B7	NM3000000019821	1/2 - 1 Mile WNW
B8	NM3000000019822	1/2 - 1 Mile WNW
B9	NM3000000019823	1/2 - 1 Mile WNW
10	NM3000000019381	1/2 - 1 Mile WSW
11	NM3000000019921	1/2 - 1 Mile WNW
12	NM3000000019574	1/2 - 1 Mile West
13	NM3000000019761	1/2 - 1 Mile WNW
14	NM3000000019988	1/2 - 1 Mile ENE
15	NM3000000019031	1/2 - 1 Mile WSW
16	NM3000000020197	1/2 - 1 Mile NNE
17	NM3000000019758	1/2 - 1 Mile East

## OTHER STATE DATABASE INFORMATION

### **STATE OIL/GAS WELL INFORMATION**

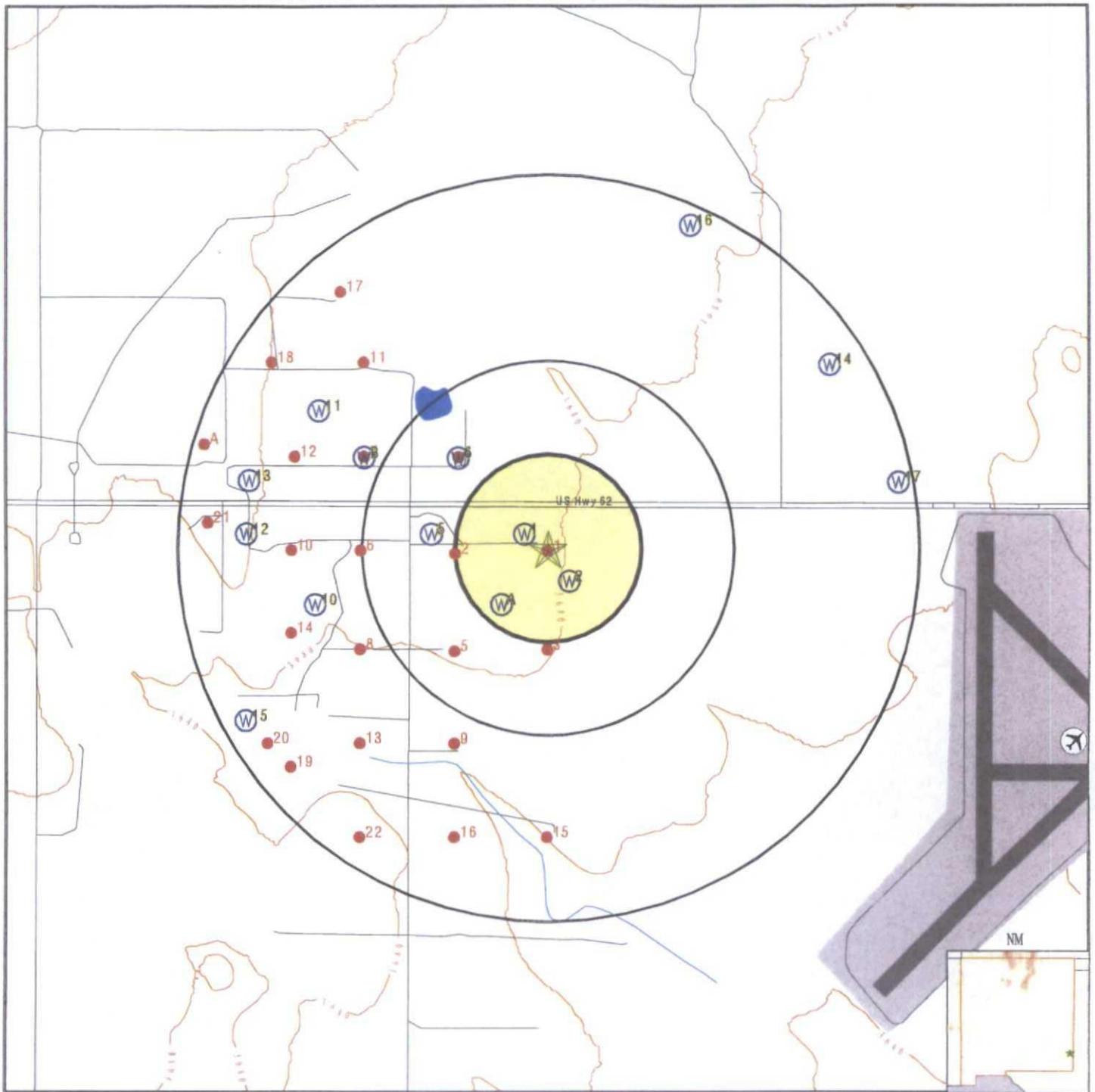
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	NMOG50000032657	0 - 1/8 Mile South
2	NMOG50000032634	1/4 - 1/2 Mile West
3	NMOG50000032364	1/4 - 1/2 Mile South

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## STATE OIL/GAS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
4	NMOG50000032887	1/4 - 1/2 Mile NW
5	NMOG50000032355	1/4 - 1/2 Mile SW
6	NMOG50000032662	1/2 - 1 Mile West
7	NMOG50000032889	1/2 - 1 Mile WNW
8	NMOG50000032366	1/2 - 1 Mile WSW
9	NMOG50000032133	1/2 - 1 Mile SSW
10	NMOG50000032665	1/2 - 1 Mile West
11	NMOG50000033123	1/2 - 1 Mile NW
12	NMOG50000032890	1/2 - 1 Mile WNW
13	NMOG50000032135	1/2 - 1 Mile SW
14	NMOG50000032463	1/2 - 1 Mile WSW
15	NMOG50000031931	1/2 - 1 Mile South
16	NMOG50000031932	1/2 - 1 Mile SSW
17	NMOG50000033288	1/2 - 1 Mile NW
18	NMOG50000033127	1/2 - 1 Mile WNW
19	NMOG50000032096	1/2 - 1 Mile SW
20	NMOG50000032134	1/2 - 1 Mile SW
21	NMOG50000032759	1/2 - 1 Mile West
22	NMOG50000031934	1/2 - 1 Mile SSW
A23	NMOG50000032892	1/2 - 1 Mile WNW
A24	NMOG50000032968	1/2 - 1 Mile WNW

# PHYSICAL SETTING SOURCE MAP - 4027653.1s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells
- 100-year flood zone
- 500-year flood zone

SITE NAME: #1 State AB SWD  
 ADDRESS: US Hwy 62  
 Hobbs NM 88240  
 LAT/LONG: 32.695 / 103.2414

CLIENT: Combest GeoScience  
 CONTACT: Kyle Combest  
 INQUIRY #: 4027653.1s  
 DATE: August 05, 2014 11:16 am

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**1**

**WNW**  
**0 - 1/8 Mile**  
**Higher**

**NM WELLS      NM3000000019571**

Objectid:	54012		
Pod rec nb:	195011		
Pod basin:	L	Pod nbr:	11313
Pod suffix:	Not Reported		
Northing:	3618903		
Easting:	664750		
Grant :	Not Reported	County:	LE
Tws:	19S	Rng:	37E
Sec:	03	Qtr 4th:	1
Qtr 16th:	2	Qtr 64th:	1
Start date:	09/21/04	Finish dat:	09/23/04
Plug date:	09/12/94		
Depth well:	180		
Grnd wtr s:	S		
Depth water:	0		
Estimate y:	0		
Casing siz:	6		
Subdiv nam:	Not Reported	Blk:	Not Reported
Wrats s id:	0		
Legal desc:	Not Reported		
Pod name:	Not Reported		
Elevation:	0		
Aquifer:	OGALLALA		
Lat deg:	0		
Lat min:	0		
Lat sec:	0		
Lon deg:	0		
Lon min:	0		
Lon sec:	0		
Pod status:	ACT	Ditch name:	Not Reported
Utm zone:	13	Utm source:	G
Utm accur:	0	Tract nbr:	Not Reported
Map nbr:	Not Reported	Utm error:	Not Reported
Oid :	121702		
Own end da:	12/30/99	Own Iname:	COMMISSIONER OF PUBLIC LANDS
Own fname:	NEW MEXICO	Addr1:	POOL COMPANY TEXAS LTD
Addr2:	P.O. BOX 5208	City:	HOBBS
State:	NM	Zip:	88241
Use:	COMMERCIAL		
Total div:	0		
Site id:	NM3000000019571		

**2**

**SSE**  
**0 - 1/8 Mile**  
**Lower**

**NM WELLS      NM3000000019450**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid:	49233		
Pod rec nb:	118270		
Pod basin:	L	Pod nbr:	06814
Pod suffix:	(E)		
Northing:	3618703		
Easting:	664950		
Grant :	Not Reported	County:	LE
Tws:	19S	Rng:	37E
Sec:	03	Qtr 4th:	1
Qtr 16th:	2	Qtr 64th:	4
Start date:	05/27/71	Finish dat:	05/27/71
Plug date:	07/15/96		
Depth well:	100		
Grnd wtr s:	S		
Depth wate:	30		
Estimate y:	0		
Casing siz:	0		
Subdiv nam:	Not Reported	Blk:	Not Reported
Wrats s id:	0		
Legal desc:	Not Reported		
Pod name:	Not Reported		
Elevation:	0		
Aquifer:	Not Reported		
Lat deg:	0		
Lat min:	0		
Lat sec:	0		
Lon deg:	0		
Lon min:	0		
Lon sec:	0		
Pod status:	Not Reported	Ditch name:	Not Reported
Utm zone:	13	Utm source:	G
Utm accura:	0	Tract nbr:	Not Reported
Map nbr:	Not Reported	Utm error:	Not Reported
Oid :	183102		
Own end da:	12/30/99	Own Iname:	MORAN OIL PROD. & DRILLING COR
Own fname:	Not Reported	Addr1:	BOX 1919
Addr2:	Not Reported	City:	HOBBS
State:	NM	Zip:	Not Reported
Use:	72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE		
Total div:	0		
Site id:	NM3000000019450		

**A3  
SW  
1/8 - 1/4 Mile  
Higher**

**NM WELLS    NM3000000019379**

Objectid:	44267		
Pod rec nb:	166218		
Pod basin:	L	Pod nbr:	03103
Pod suffix:	Not Reported		
Northing:	3618597		
Easting:	664655		
Grant :	Not Reported	County:	LE
Tws:	19S	Rng:	37E
Sec:	03	Qtr 4th:	1
Qtr 16th:	Not Reported	Qtr 64th:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Start date:	02/05/56	Finish dat:	02/06/56
Plug date:	04/25/56		
Depth well:	110		
Grnd wtr s:	S		
Depth wate:	42		
Estimate y:	0		
Casing siz:	7		
Subdiv nam:	Not Reported	Blk:	Not Reported
Wrats s id:	0		
Legal desc:	Not Reported		
Pod name:	Not Reported		
Elevation:	0		
Aquifer:	Not Reported		
Lat deg:	0		
Lat min:	0		
Lat sec:	0		
Lon deg:	0		
Lon min:	0		
Lon sec:	0		
Pod status:	ACT	Ditch name:	Not Reported
Utm zone:	13	Utm source:	G
Utm accur:	0	Tract nbr:	Not Reported
Map nbr:	Not Reported	Utm error:	Not Reported
Oid :	210144		
Own end da:	12/30/99	Own Iname:	MAKIN DRILLING COMPANY
Own frame:	Not Reported	Addr1:	P.O. BOX 1628
Addr2:	Not Reported	City:	HOBBS
State:	NM	Zip:	Not Reported
Use:	72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE		
Total div:	3		
Site id:	NM3000000019379		

**A4  
SW  
1/8 - 1/4 Mile  
Higher**

**NM WELLS      NM3000000019380**

Objectid:	44268		
Pod rec nb:	113437		
Pod basin:	L	Pod nbr:	03103
Pod suffix:	APPRO		
Northing:	3618597		
Easting:	664655		
Grant :	Not Reported	County:	LE
Tws:	19S	Rng:	37E
Sec:	03	Qtr 4th:	1
Qtr 16th:	Not Reported	Qtr 64th:	Not Reported
Start date:	02/05/56	Finish dat:	02/06/56
Plug date:	04/25/56		
Depth well:	110		
Grnd wtr s:	S		
Depth wate:	42		
Estimate y:	0		
Casing siz:	0		
Subdiv nam:	Not Reported	Blk:	Not Reported
Wrats s id:	0		
Legal desc:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pod name:	Not Reported	Ditch name:	Not Reported
Elevation:	0	Utm source:	G
Aquifer:	Not Reported	Tract nbr:	Not Reported
Lat deg:	0	Utm error:	Not Reported
Lat min:	0	Own Iname:	MAKIN DRILLING COMPANY
Lat sec:	0	Addr1:	P.O. BOX 1628
Lon deg:	0	City:	HOBBS
Lon min:	0	Zip:	Not Reported
Lon sec:	0	Use:	72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE
Pod status:	Not Reported	Total div:	3
Utm zone:	13	Site id:	NM3000000019380
Utm accura:	0		
Map nbr:	Not Reported		
Oid :	210145		
Own end da:	12/30/99		
Own fname:	Not Reported		
Addr2:	Not Reported		
State:	NM		

**5  
West  
1/4 - 1/2 Mile  
Higher**

**NM WELLS    NM3000000019572**

Objectid:	51115		
Pod rec nb:	114244	Pod nbr:	08559
Pod basin:	L		
Pod suffix:	Not Reported		
Northing:	3618897	County:	LE
Easting:	664348	Rng:	37E
Grant :	Not Reported	Qtr 4th:	1
Tws:	19S	Qtr 64th:	1
Sec:	03	Finish dat:	10/13/81
Qtr 16th:	1		
Start date:	10/12/81		
Plug date:	06/02/06		
Depth well:	121		
Grnd wtr s:	S	Blk:	Not Reported
Depth wate:	40		
Estimate y:	0		
Casing siz:	0		
Subdiv nam:	Not Reported		
Wrats s id:	0		
Legal desc:	Not Reported		
Pod name:	Not Reported		
Elevation:	0		
Aquifer:	Not Reported		
Lat deg:	0		
Lat min:	0		
Lat sec:	0		
Lon deg:	0		
Lon min:	0		
Lon sec:	0		
Pod status:	Not Reported	Ditch name:	Not Reported

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Utm zone:	13	Utm source:	G
Utm accura:	0	Tract nbr:	Not Reported
Map nbr:	Not Reported	Utm error:	Not Reported
Oid :	278748		
Own end da:	12/30/99	Own Iname:	JAKE DIEL PAVING CO.
Own fname:	Not Reported	Addr1:	C/O ABBOTT BROTHERS DRILLING
Addr2:	P.O. BOX 637	City:	HOBBS
State:	NM	Zip:	88240
Use:	72-12-1 SANITARY IN CONJUNCTION WITH A COMMERCIAL USE		
Total div:	3		
Site id:	NM3000000019572		

**6**  
**NW**  
**1/4 - 1/2 Mile**  
**Higher**

**NM WELLS    NM3000000019819**

Objectid:	45056		
Pod rec nb:	166888		
Pod basin:	L	Pod nbr:	03516
Pod suffix:	Not Reported		
Northing:	3619226		
Easting:	664457		
Grant :	Not Reported	County:	LE
Tws:	18S	Rng:	37E
Sec:	34	Qtr 4th:	3
Qtr 16th:	3	Qtr 64th:	Not Reported
Start date:	08/21/56	Finish dat:	08/22/56
Plug date:	10/10/56		
Depth well:	106		
Grnd wtr s:	S		
Depth wate:	45		
Estimate y:	0		
Casing siz:	6		
Subdiv nam:	Not Reported	Blk:	Not Reported
Wrats s id:	0		
Legal desc:	Not Reported		
Pod name:	Not Reported		
Elevation:	0		
Aquifer:	Not Reported		
Lat deg:	0		
Lat min:	0		
Lat sec:	0		
Lon deg:	0		
Lon min:	0		
Lon sec:	0		
Pod status:	ACT	Ditch name:	Not Reported
Utm zone:	13	Utm source:	G
Utm accura:	0	Tract nbr:	Not Reported
Map nbr:	Not Reported	Utm error:	Not Reported
Oid :	187953		
Own end da:	12/30/99	Own Iname:	CACTUS DRILLING COMPANY
Own fname:	Not Reported	Addr1:	217 GREEN ACRES DR.
Addr2:	Not Reported	City:	HOBBS
State:	NM	Zip:	Not Reported
Use:	72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE		
Total div:	3		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Site id: NM3000000019819

**B7**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**NM WELLS    NM3000000019821**

Objectid:	44426		
Pod rec nb:	166501		
Pod basin:	L	Pod nbr:	03190
Pod suffix:	Not Reported		
Northing:	3619221		
Easting:	664055		
Grant :	Not Reported	County:	LE
Tws:	18S	Rng:	37E
Sec:	33	Qtr 4th:	4
Qtr 16th:	4	Qtr 64th:	Not Reported
Start date:	04/26/56	Finish dat:	04/26/56
Plug date:	06/20/56		
Depth well:	112		
Grnd wtr s:	S		
Depth wate:	43		
Estimate y:	0		
Casing siz:	7		
Subdiv nam:	Not Reported	Blk:	Not Reported
Wrats s id:	0		
Legal desc:	Not Reported		
Pod name:	Not Reported		
Elevation:	0		
Aquifer:	Not Reported		
Lat deg:	0		
Lat min:	0		
Lat sec:	0		
Lon deg:	0		
Lon min:	0		
Lon sec:	0		
Pod status:	ACT	Ditch name:	Not Reported
Utm zone:	13	Utm source:	G
Utm accura:	0	Tract nbr:	Not Reported
Map nbr:	Not Reported	Utm error:	Not Reported
Oid :	46844		
Own end da:	12/30/99	Own lname:	MAKIN DRILLING CO.
Own fname:	Not Reported	Addr1:	BOX 1628
Addr2:	Not Reported	City:	HOBBS
State:	NM	Zip:	Not Reported
Use:	72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE		
Total div:	3		
Site id:	NM3000000019821		

**B8**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**NM WELLS    NM3000000019822**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid:	44427		
Pod rec nb:	116879		
Pod basin:	L	Pod nbr:	03190
Pod suffix:	APPRO		
Northing:	3619221		
Easting:	664055		
Grant :	Not Reported	County:	LE
Tws:	18S	Rng:	37E
Sec:	33	Qtr 4th:	4
Qtr 16th:	4	Qtr 64th:	Not Reported
Start date:	04/26/56	Finish dat:	04/26/56
Plug date:	06/20/56		
Depth well:	112		
Grnd wtr s:	S		
Depth wate:	43		
Estimate y:	0		
Casing siz:	0		
Subdiv nam:	Not Reported	Blk:	Not Reported
Wrats s id:	0		
Legal desc:	Not Reported		
Pod name:	Not Reported		
Elevation:	0		
Aquifer:	Not Reported		
Lat deg:	0		
Lat min:	0		
Lat sec:	0		
Lon deg:	0		
Lon min:	0		
Lon sec:	0		
Pod status:	Not Reported	Ditch name:	Not Reported
Utm zone:	13	Utm source:	G
Utm accura:	0	Tract nbr:	Not Reported
Map nbr:	Not Reported	Utm error:	Not Reported
Oid :	46845		
Own end da:	12/30/99	Own Iname:	MAKIN DRILLING CO.
Own fname:	Not Reported	Addr1:	BOX 1628
Addr2:	Not Reported	City:	HOBBS
State:	NM	Zip:	Not Reported
Use:	72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE		
Total div:	3		
Site id:	NM3000000019822		

**B9  
WNW  
1/2 - 1 Mile  
Higher**

**NM WELLS    NM3000000019823**

Objectid:	49456		
Pod rec nb:	119700		
Pod basin:	L	Pod nbr:	07025
Pod suffix:	EXP		
Northing:	3619221		
Easting:	664055		
Grant :	Not Reported	County:	LE
Tws:	18S	Rng:	37E
Sec:	33	Qtr 4th:	4
Qtr 16th:	4	Qtr 64th:	Not Reported

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Start date:	11/20/72	Finish dat:	11/21/72
Plug date:	08/24/94		
Depth well:	0		
Grnd wtr s:	Not Reported		
Depth wate:	0		
Estimate y:	0		
Casing siz:	0		
Subdiv nam:	Not Reported	Blk:	Not Reported
Wrats s id:	0		
Legal desc:	Not Reported		
Pod name:	Not Reported		
Elevation:	0		
Aquifer:	Not Reported		
Lat deg:	0		
Lat min:	0		
Lat sec:	0		
Lon deg:	0		
Lon min:	0		
Lon sec:	0		
Pod status:	Not Reported	Ditch name:	Not Reported
Utm zone:	13	Utm source:	G
Utm accura:	0	Tract nbr:	Not Reported
Map nbr:	Not Reported	Utm error:	Not Reported
Oid :	119694		
Own end da:	12/30/99	Own Iname:	NEW MEXICO STATE HIGHWAY DEPT.
Own frame:	Not Reported	Addr1:	P.O. BOX 1149
Addr2:	Not Reported	City:	SANTA FE
State:	NM	Zip:	87501
Use:	2-12-1 CONSTRUCTION OF PUBLIC WORKS		
Total div:	0		
Site id:	NM3000000019823		

**10**  
**WSW**  
**1/2 - 1 Mile**  
**Higher**

**NM WELLS    NM3000000019381**

Objectid:	49689		
Pod rec nb:	112563		
Pod basin:	L	Pod nbr:	07256
Pod suffix:	Not Reported		
Northing:	3618584		
Easting:	663852		
Grant :	Not Reported	County:	LE
Tws:	19S	Rng:	37E
Sec:	04	Qtr 4th:	2
Qtr 16th:	Not Reported	Qtr 64th:	Not Reported
Start date:	08/04/74	Finish dat:	08/09/74
Plug date:	06/02/06		
Depth well:	137		
Grnd wtr s:	S		
Depth wate:	65		
Estimate y:	0		
Casing siz:	0		
Subdiv nam:	Not Reported	Blk:	Not Reported
Wrats s id:	0		
Legal desc:	7 MILES OUT ON CARLSBAD HIGHWAY FROM HOBBS.		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pod name:	Not Reported	Ditch name:	Not Reported
Elevation:	0	Utm source:	G
Aquifer:	Not Reported	Tract nbr:	Not Reported
Lat deg:	0	Utm error:	Not Reported
Lat min:	0	Own Iname:	COX
Lat sec:	0	Addr1:	P.O. BOX 1118
Lon deg:	0	City:	HOBBS
Lon min:	0	Zip:	88240
Lon sec:	0		
Pod status:	Not Reported		
Utm zone:	13		
Utm accura:	0		
Map nbr:	Not Reported		
Oid :	17921		
Own end da:	12/30/99		
Own fname:	E.W.		
Addr2:	Not Reported		
State:	NM		
Use:	72-12-1 DOMESTIC ONE HOUSEHOLD		
Total div:	3		
Site id:	NM3000000019381		

**11**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**NM WELLS      NM3000000019921**

Objectid:	49688	Pod nbr:	07255
Pod rec nb:	116342		
Pod basin:	L		
Pod suffix:	EXP 1		
Northing:	3619416		
Easting:	663854		
Grant :	Not Reported	County:	LE
Tws:	18S	Rng:	37E
Sec:	33	Qtr 4th:	4
Qtr 16th:	Not Reported	Qtr 64th:	Not Reported
Start date:	09/24/85	Finish dat:	09/24/85
Plug date:	06/02/06		
Depth well:	0		
Grnd wtr s:	Not Reported		
Depth wate:	0		
Estimate y:	0		
Casing siz:	0		
Subdiv nam:	Not Reported	Blk:	Not Reported
Wrats s id:	0		
Legal desc:	7 MILES OUT ON CARLSBAD HIGHWAY FROM HOBBS.		
Pod name:	Not Reported		
Elevation:	0		
Aquifer:	Not Reported		
Lat deg:	0		
Lat min:	0		
Lat sec:	0		
Lon deg:	0		
Lon min:	0		
Lon sec:	0		
Pod status:	Not Reported	Ditch name:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Utm zone:	13	Utm source:	G
Utm accura:	0	Tract nbr:	Not Reported
Map nbr:	Not Reported	Utm error:	Not Reported
Oid :	134208		
Own end da:	12/30/99	Own Iname:	COX
Own fname:	E.W.	Addr1:	P.O. BOX 1118
Addr2:	Not Reported	City:	HOBBS
State:	NM	Zip:	88240
Use:	72-12-1 LIVESTOCK WATERING		
Total div:	3		
Site id:	NM3000000019921		

12

West  
1/2 - 1 Mile  
Higher

NM WELLS      NM3000000019574

Objectid:	48635		
Pod rec nb:	111241		
Pod basin:	L	Pod nbr:	06216
Pod suffix:	Not Reported		
Northing:	3618885		
Easting:	663544		
Grant :	Not Reported	County:	LE
Tws:	19S	Rng:	37E
Sec:	04	Qtr 4th:	2
Qtr 16th:	1	Qtr 64th:	1
Start date:	12/18/67	Finish dat:	12/22/67
Plug date:	11/27/67		
Depth well:	166		
Grnd wtr s:	S		
Depth wate:	46		
Estimate y:	0		
Casing siz:	0		
Subdiv nam:	Not Reported	Blk:	Not Reported
Wrats s id:	0		
Legal desc:	ONE HALF MILE EAST INTERSECTION CARLSBAD HIGHWAY & MONUMENT ROAD.		
Pod name:	Not Reported		
Elevation:	0		
Aquifer:	Not Reported		
Lat deg:	0		
Lat min:	0		
Lat sec:	0		
Lon deg:	0		
Lon min:	0		
Lon sec:	0		
Pod status:	Not Reported	Ditch name:	Not Reported
Utm zone:	13	Utm source:	G
Utm accura:	0	Tract nbr:	Not Reported
Map nbr:	Not Reported	Utm error:	Not Reported
Oid :	284764		
Own end da:	12/30/99	Own Iname:	COX
Own fname:	E. W.	Addr1:	602 E. CORBETT
Addr2:	Not Reported	City:	HOBBS
State:	NM	Zip:	Not Reported
Use:	72-12-1 DOMESTIC ONE HOUSEHOLD		
Total div:	3		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Site id: NM3000000019574

**13**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**NM WELLS NM3000000019761**

Objectid:	49687		
Pod rec nb:	117434		
Pod basin:	L	Pod nbr:	07255
Pod suffix:	2		
Northing:	3619114		
Easting:	663552		
Grant :	Not Reported	County:	LE
Tws:	18S	Rng:	37E
Sec:	33	Qtr 4th:	4
Qtr 16th:	3	Qtr 64th:	3
Start date:	09/24/85	Finish dat:	09/24/85
Plug date:	06/02/06		
Depth well:	150		
Grnd wtr s:	S		
Depth wate:	65		
Estimate y:	0		
Casing siz:	0		
Subdiv nam:	Not Reported	Blk:	Not Reported
Wrats s id:	0		
Legal desc:	Not Reported		
Pod name:	Not Reported		
Elevation:	0		
Aquifer:	Not Reported		
Lat deg:	0		
Lat min:	0		
Lat sec:	0		
Lon deg:	0		
Lon min:	0		
Lon sec:	0		
Pod status:	Not Reported	Ditch name:	Not Reported
Utm zone:	13	Utm source:	G
Utm accura:	0	Tract nbr:	Not Reported
Map nbr:	Not Reported	Utm error:	Not Reported
Oid :	134207		
Own end da:	12/30/99	Own lname:	COX
Own fname:	E.W.	Addr1:	P.O. BOX 1118
Addr2:	Not Reported	City:	HOBBS
State:	NM	Zip:	88240
Use:	72-12-1 LIVESTOCK WATERING		
Total div:	3		
Site id:	NM3000000019761		

**14**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**NM WELLS NM3000000019988**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Objectid:	50600	Pod nbr:	08097
Pod rec nb:	114752		
Pod basin:	L		
Pod suffix:	EXP		
Northing:	3619651		
Easting:	666060		
Grant :	Not Reported	County:	LE
Tws:	18S	Rng:	37E
Sec:	35	Qtr 4th:	3
Qtr 16th:	1	Qtr 64th:	Not Reported
Start date:	06/24/79	Finish dat:	06/27/79
Plug date:	06/02/06		
Depth well:	0		
Grnd wtr s:	Not Reported		
Depth wate:	0		
Estimate y:	0		
Casing siz:	0		
Subdiv nam:	Not Reported	Blk:	Not Reported
Wrats s id:	0		
Legal desc:	Not Reported		
Pod name:	Not Reported		
Elevation:	0		
Aquifer:	Not Reported		
Lat deg:	0		
Lat min:	0		
Lat sec:	0		
Lon deg:	0		
Lon min:	0		
Lon sec:	0		
Pod status:	Not Reported	Ditch name:	Not Reported
Utm zone:	13	Utm source:	G
Utm accura:	0	Tract nbr:	Not Reported
Map nbr:	Not Reported	Utm error:	Not Reported
Oid :	119605		
Own end da:	12/30/99	Own Iname:	KLEIN
Own fname:	HERRY S.	Addr1:	P.O. BOX 1503
Addr2:	Not Reported	City:	HOBBS
State:	NM	Zip:	88240
Use:	72-12-1 DOMESTIC ONE HOUSEHOLD		
Total div:	0		
Site id:	NM3000000019988		

15  
WSW  
1/2 - 1 Mile  
Lower

NM WELLS    NM3000000019031

Objectid:	47179	Pod nbr:	04917
Pod rec nb:	112146		
Pod basin:	L		
Pod suffix:	Not Reported		
Northing:	3618080		
Easting:	663556		
Grant :	Not Reported	County:	LE
Tws:	19S	Rng:	37E
Sec:	04	Qtr 4th:	4
Qtr 16th:	1	Qtr 64th:	1

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Start date:	06/11/62	Finish dat:	06/13/62
Plug date:	10/16/62		
Depth well:	120		
Grnd wtr s:	S		
Depth wate:	50		
Estimate y:	0		
Casing siz:	0		
Subdiv nam:	Not Reported	Blk:	Not Reported
Wrats s id:	0		
Legal desc:	APPROX. ONE MILE S.E JUNCTION OF HOBBS CARLSBAD AND MONUMENT HIGHWAY.		
Pod name:	Not Reported		
Elevation:	0		
Aquifer:	Not Reported		
Lat deg:	0		
Lat min:	0		
Lat sec:	0		
Lon deg:	0		
Lon min:	0		
Lon sec:	0		
Pod status:	Not Reported	Ditch name:	Not Reported
Utm zone:	13	Utm source:	G
Utm accur:	0	Tract nbr:	Not Reported
Map nbr:	Not Reported	Utm error:	Not Reported
Oid :	251075		
Own end da:	12/30/99	Own Iname:	COX
Own frame:	E.W.	Addr1:	602 E. CORBETT ST.
Addr2:	Not Reported	City:	HOBBS
State:	NM	Zip:	Not Reported
Use:	72-12-1 DOMESTIC ONE HOUSEHOLD		
Total div:	3		
Site id:	NM3000000019031		

**16**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**NM WELLS    NM3000000020197**

Objectid:	53136		
Pod rec nb:	116851		
Pod basin:	L	Pod nbr:	10376
Pod suffix:	Not Reported		
Northing:	3620244		
Easting:	665449		
Grant :	Not Reported	County:	LE
Tws:	18S	Rng:	37E
Sec:	34	Qtr 4th:	2
Qtr 16th:	Not Reported	Qtr 64th:	Not Reported
Start date:	01/10/94	Finish dat:	01/16/94
Plug date:	12/31/91		
Depth well:	0		
Grnd wtr s:	Not Reported		
Depth wate:	0		
Estimate y:	0		
Casing siz:	0		
Subdiv nam:	Not Reported	Blk:	Not Reported
Wrats s id:	0		
Legal desc:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pod name:	Not Reported	Ditch name:	Not Reported
Elevation:	0	Utm source:	G
Aquifer:	Not Reported	Tract nbr:	Not Reported
Lat deg:	0	Utm error:	Not Reported
Lat min:	0	Own lname:	LUCK HOLLIS A
Lat sec:	0	Addr1:	7300 CARLSBAD HWY
Lon deg:	0	City:	HOBBS
Lon min:	0	Zip:	88240
Lon sec:	0	Use:	72-12-1 DOMESTIC ONE HOUSEHOLD
Pod status:	Not Reported	Total div:	3
Utm zone:	13	Site id:	NM3000000020197
Utm accur:	0		
Map nbr:	Not Reported		
Oid :	41096		
Own end da:	12/30/99		
Own fname:	Not Reported		
Addr2:	Not Reported		
State:	NM		

17  
East  
1/2 - 1 Mile  
Lower

NM WELLS    NM3000000019758

Objectid:	51405	Pod nbr:	08846
Pod rec nb:	111471	County:	LE
Pod basin:	L	Rng:	37E
Pod suffix:	Not Reported	Qtr 4th:	3
Northing:	3619153	Qtr 64th:	3
Easting:	666368	Finish dat:	07/12/82
Grant :	Not Reported	Blk:	Not Reported
Tws:	18S		
Sec:	35		
Qtr 16th:	4		
Start date:	07/12/82		
Plug date:	03/01/96		
Depth well:	140		
Grnd wtr s:	S		
Depth wate:	65		
Estimate y:	0		
Casing siz:	0		
Subdiv nam:	Not Reported		
Wrats s id:	0		
Legal desc:	Not Reported		
Pod name:	Not Reported		
Elevation:	0		
Aquifer:	Not Reported		
Lat deg:	0		
Lat min:	0		
Lat sec:	0		
Lon deg:	0		
Lon min:	0		
Lon sec:	0		
Pod status:	Not Reported	Ditch name:	Not Reported

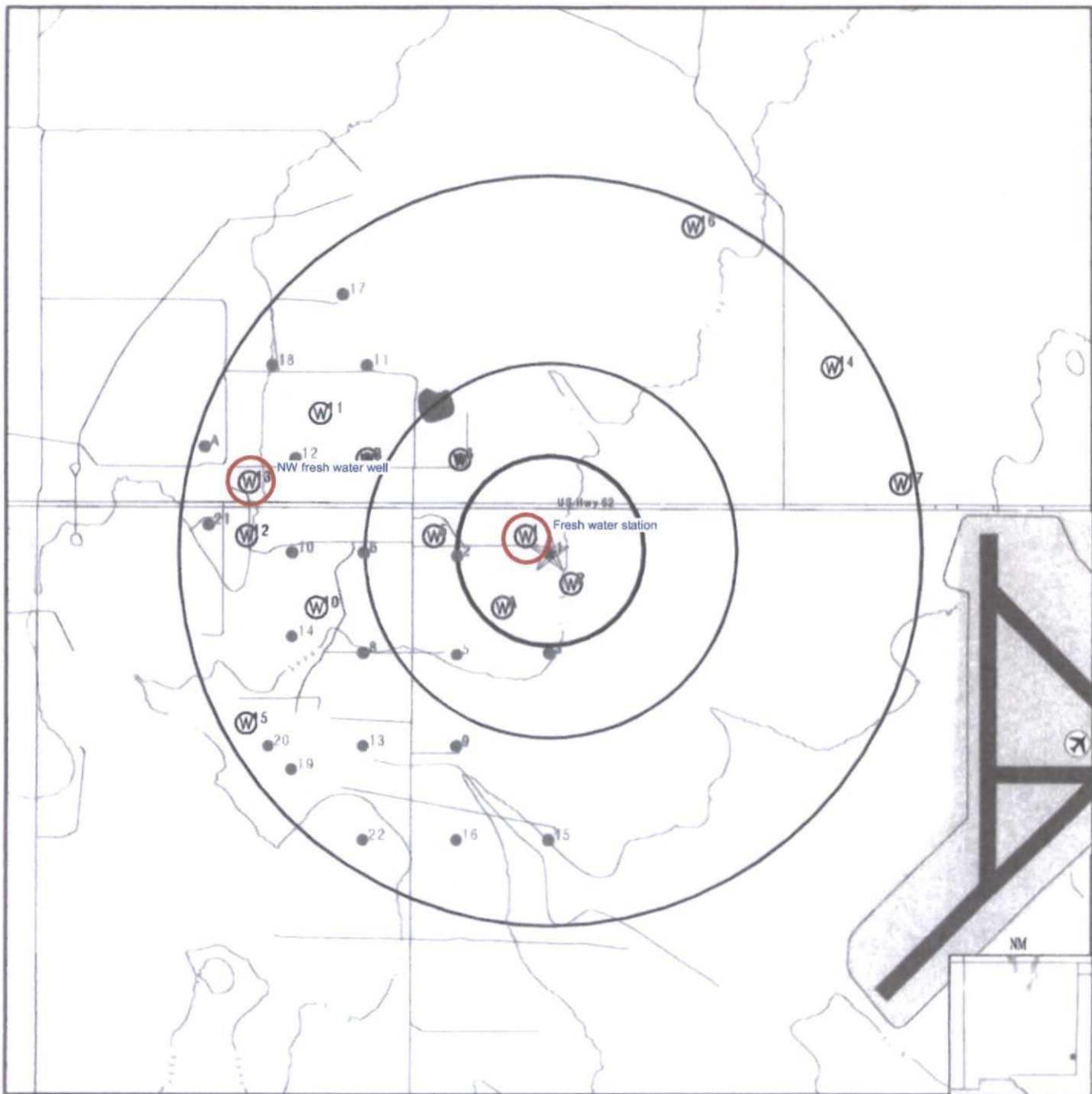
## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Utm zone:	13	Utm source:	G
Utm accuracy:	0	Tract nbr:	Not Reported
Map nbr:	Not Reported	Utm error:	Not Reported
Oid :	210199		
Own end da:	12/30/99	Own Iname:	SHED
Own fname:	LARRY	Addr1:	P.O. BOX 2248
Addr2:	Not Reported	City:	HOBBS
State:	NM	Zip:	88240
Use:	72-12-1 DOMESTIC ONE HOUSEHOLD		
Total div:	3		
Site id:	NM3000000019758		

## **Attachment D. Freshwater wells (2) – Chemical Analyses**

**(Data for Section XI.)**

# Water sample locations



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells
- 100-year flood zone
- 500-year flood zone

SITE NAME: #1 State AB SWD  
 ADDRESS: US Hwy 62  
 Hobbs NM 88240  
 LAT/LONG: 32.695 / 103.2414

CLIENT: Combest GeoScience  
 CONTACT: Kyle Combest  
 INQUIRY #: 4027653.1s  
 DATE: August 05, 2014 11:16 am



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

August 12, 2014

KYLE COMBEST

NABOR WELL SERVICES

3300 N. A STREET BUILDING # 2 SUITE 200

MIDLAND, TX 79705

RE: WATER SAMPLES

Enclosed are the results of analyses for samples received by the laboratory on 08/06/14 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

NABOR WELL SERVICES  
KYLE COMBEST  
3300 N. A STREET BUILDING # 2 SUITE 200  
MIDLAND TX, 79705  
Fax To: (432) 683-3697

Received:	08/06/2014	Sampling Date:	08/06/2014
Reported:	08/12/2014	Sampling Type:	Water
Project Name:	WATER SAMPLES	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	WATER STATION		

**Sample ID: FRESH WATER STATION (H402418-01)**

TDS 160.1	mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	284	5.00	08/11/2014	ND	494	93.7	527	0.948	

**Sample ID: NW FRESH WATER WELL (H402418-02)**

TDS 160.1	mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	554	5.00	08/11/2014	ND	494	93.7	527	0.948	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

### Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



## **Attachment E. Well Data**

**(Data for Section III.)**

DRAWING  
NOT TO  
SCALE

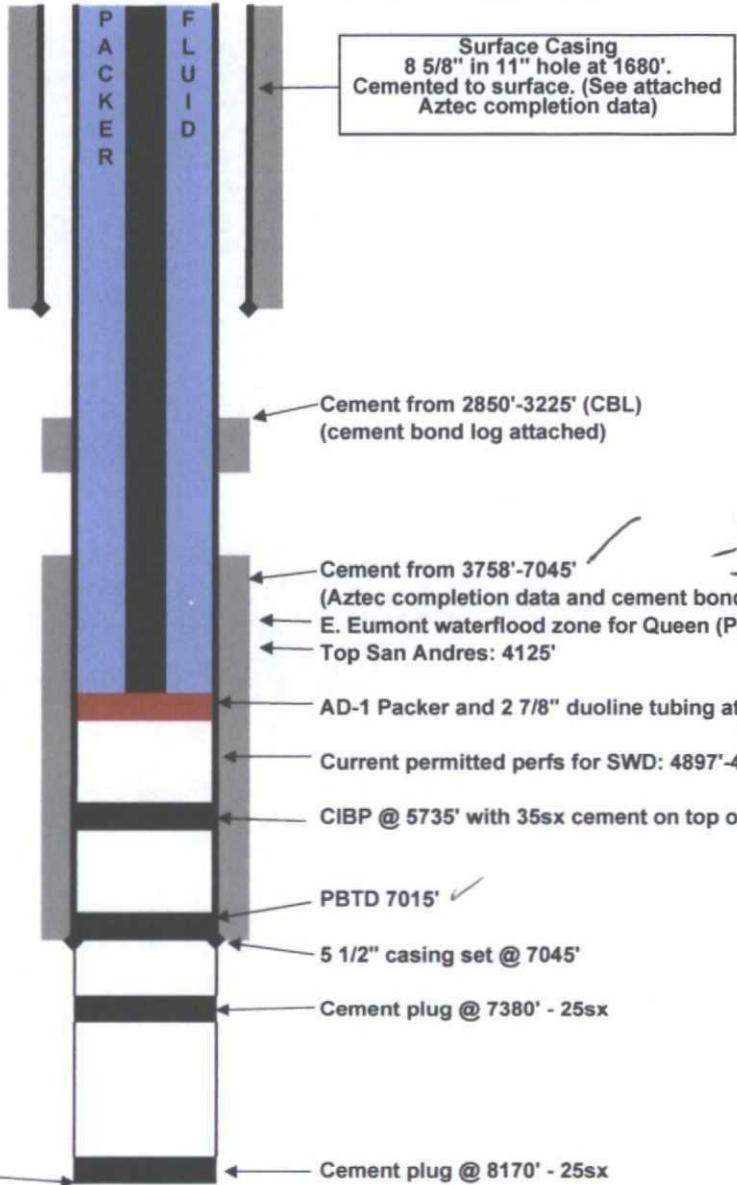
Nabors Completion and Production Services, Co.  
 #1 State AB SWD (API 30-025-23786)  
 660' FNL X 1980' FWL  
 Section 3 T-19-S R-37-E  
 Lea County, NM  
 Spud 28 May 1971 for Aztec Oil and Gas  
 Well diagram

Groundwater bottom depth:

Ogallala	250'
Santa Rosa	1310'

Tops:

Rustler	1650'
Yates	2870'
7 Rivers	3150'
Queen	3695'
San Andres	4125'
Glorietta	5758'
Tubb	6868'
Abo	7470'



Proposed Injection Interval:  
4300'-5700'

PROPOSED MAXIMUM  
INJECTION PRESSURE  
860 PSI (0.2 X 4300 = 860)

INJECTION WELL DATA SHEET

OPERATOR: NABORS COMPLETION & PRODUCTION SERVICES, CO

WELL NAME & NUMBER: #1 STATE AB SWD (API: 30.025-23786)

WELL LOCATION: 660' FNL & 1980' FWL      C      3      T-19-S      R-37-E  
FOOTAGE LOCATION      UNIT LETTER      SECTION      TOWNSHIP      RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

SEE ATTACHED WELLBORE DIAGRAM

Hole Size: 11"      Casing Size: 8 5/8"

Cemented with: 475 sx.      or \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: SURFACE      Method Determined: CIRCULATED

NOTE: CURRENT PERFS 4897-4919 (SAN ANDRES)

PROPOSE 4300-5700 (SAN ANDRES)

Intermediate Casing

Hole Size: 7 7/8"      Casing Size: 5 1/2"

Cemented with: 925 sx.      or \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: \* 2850 f  
3758      Method Determined: CBL

\* SEE WELLBORE DIAGRAM

Production Casing

Hole Size: \_\_\_\_\_      Casing Size: \_\_\_\_\_

Cemented with: \_\_\_\_\_ sx.      or \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: \_\_\_\_\_      Method Determined: \_\_\_\_\_

Total Depth: \_\_\_\_\_

Injection Interval

\_\_\_\_\_ feet to \_\_\_\_\_

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 7/8" Lining Material: DUO-LINE FIBERGLASS

Type of Packer: AD-1

Packer Setting Depth: 4517'

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes  No

If no, for what purpose was the well originally drilled? DRILLED IN 1971 FOR  
AZTEC OIL AS QUEEN (PENROSE) PRODUCER.

2. Name of the Injection Formation: SAN ANDRES

3. Name of Field or Pool (if applicable): NA

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. YATES PERFS 3022-3142

SQUEEZED W/ 300 SX; QUEEN PERFS 3928-3962 SQUEEZED W/ 150 SX

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: QUEEN (PENROSE) ± 3950

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## **Attachment F. Proof of Notice**

**(Section XIV. Proof of publication and notified parties)**

# Affidavit of Publication

State of New Mexico,  
County of Lea.

I, DANIEL RUSSELL  
PUBLISHER

of the Hobbs News-Sun, a  
newspaper published at Hobbs, New  
Mexico, do solemnly swear that the  
clipping attached hereto was  
published in the regular and entire  
issue of said newspaper, and not a  
supplement thereof for a period

of 1 issue(s).

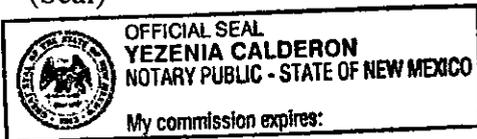
Beginning with the issue dated  
September 12, 2014  
and ending with the issue dated  
September 12, 2014

  
PUBLISHER

Sworn and subscribed to before me  
this 12th day of  
September, 2014

  
Notary Public

My commission expires  
February 28, 2016  
(Seal)

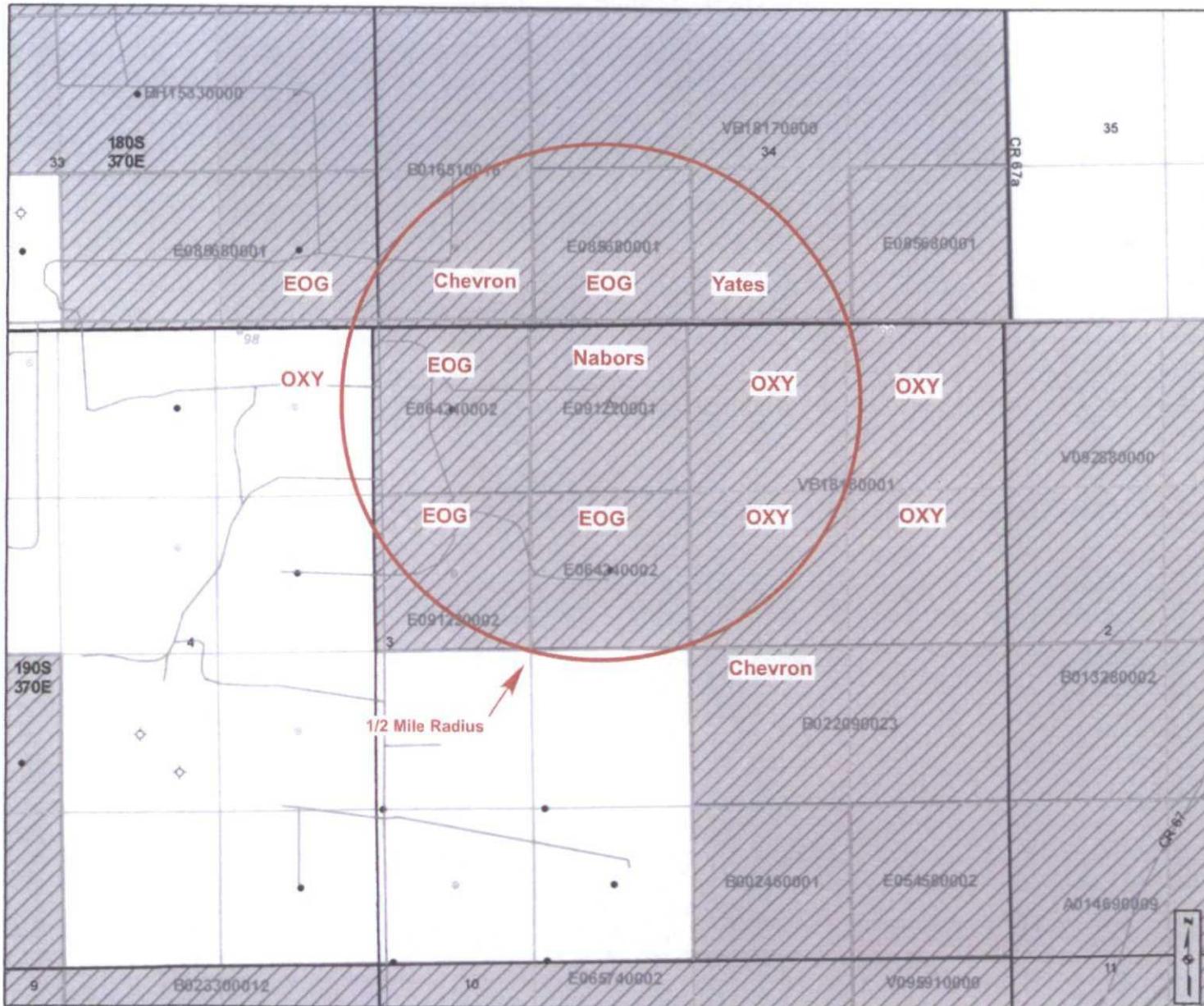


This newspaper is duly qualified to  
publish legal notices or  
advertisements within the meaning of  
Section 3, Chapter 167, Laws of  
1937 and payment of fees for said  
publication has been made.

**LEGAL**  
Legal Notice  
September 12, 2014  
Notice is hereby given of the  
application by Nabors  
Completion and Production  
Services, Co. (NCPS), 515  
W. Greens Road, Suite  
1170, Houston, TX  
77067-4599 to the Oil  
Conservation Division and  
the Commissioner of Public  
Lands, State of New Mexico  
for a permit modification to  
increase the disposal  
interval in the San Andres  
formation. The surface is  
owned by the State of New  
Mexico.  
The NCPS #1 State AB, API  
30-025-23786, is located  
680' FNL and 1980' FWL  
Section 3, T19S, R37E, Lea  
County, New Mexico.  
The proposed injection  
interval is 4900' to 5700' in  
the San Andres formation.  
Maximum injection pressure  
is 860 psi and the maximum  
injection rate is 7000  
BWPD.  
Interested parties should file  
objections or requests for  
hearing with the Oil  
Conservation Division, 1220  
South St. Francis Drive  
Santa Fe, NM 87505 within  
fifteen days.  
Inquiries regarding this  
application should be  
directed to NCPS, P.O. Box  
51670, Midland, TX 79710,  
phone 432-683-5000. Attn:  
Kyle Combest  
#29376

67112064 00143825  
KYLE COMBEST  
NABORS COMPLETION & PRODUCTION SERVICES  
CO.  
515 W. GREENS RD, Ste. 1170  
HOUSTON, TX 77067

# Mineral Leasehold Operators



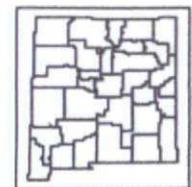
- Cartographic Features**
- County Boundaries
  - County Seats
  - City, Town or Village
  - SLO District Offices
  - SLO District Boundary
  - Hwy Mileposts
  - Interstate
  - NM Hwy
  - Local Road
  - Continental Divide
- Federal Minerals Ownership**
- All Minerals
  - Coal Only
  - Oil and Gas Only
  - Oil, Gas and Coal Only
  - Other Minerals
- State Trust Lands**
- Surface Estate
  - Subsurface Estate
  - Surface and Subsurface Estate
- State Leases**
- Oil and Gas Leases
  - Agricultural Leases
  - Commercial Leases
  - Minerals Leases
  - Not Available for Oil and Gas Leasing
  - Oil and Gas Leasing Influenced by Restriction
- Oil and Gas Related Features**
- Oil and Gas Unit Boundary
  - Participating Areas in Units
  - Geologic Regions
  - Volcanic Vents
  - NMOCD Order R-111-P
  - Potash Enclave Outline
- NMOCD Oil and Gas Wells**
- CO<sub>2</sub>
  - Injection
  - Oil
  - Water
  - Gas
  - Miscellaneous
  - Salt Water Disposal
  - DA or PA

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

0 0.05 0.1 0.2 0.3 0.4  
Miles  
Universal Transverse Mercator Projection, Zone 13  
1983 North American Datum

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

Land Office Geographic Information Center  
logcc@sls.state.nm.us



www.nmstatelands.org

**Notified Parties**  
**of proposed modification to #1 State AB SWD disposal permit (SWD-223)**  
**Section 3, T-19-S, R-37-E**  
**Lea County, New Mexico**

As an employee for Nabors Completion and Production Services Company I certify that a copy of Form C-108 with cover letter was sent by certified mail to each of the parties listed below.



Kyle B. Combest  
P.G. #574 (Texas)

---

Surface owner:

New Mexico State Land Office  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501

Leasehold Operators within 1/2-mile radius of proposed SWD:

Chevron USA  
2401 Avenue O  
Eunice, NM 88231

EOG Resources  
5509 Champions Dr.  
Midland, TX 79706

OXY USA  
6 Desta Drive  
Suite 6000  
Midland, TX 79710

Yates Petroleum Corp.  
105 S. 4<sup>th</sup> Street  
Artesia, NM 88210

New Mexico OCD District Office:

New Mexico OCD – District 1  
1625 N. French Drive  
Hobbs, NM 88240



Nabors Completion & Production Services Co.  
1214 Gas Plant Road (76904)  
P.O. Box 60890  
San Angelo, Texas 76906

Phone: 325.651.2200  
Fax: 325.651.2240  
[www.nabors.com](http://www.nabors.com)

17 September 2014

Subject: Amend Injection Interval  
Commercial Saltwater Injection Well Permit #SWD 092  
Lea County, New Mexico

Dear Recipient:

The attached Form C-108 is being filed with the New Mexico Oil Conservation Division in Santa Fe to amend the injection interval in the subject permit. The attached form is being sent to you as part of the application process. If you have any questions regarding the application please contact me. Thank you.

Sincerely,

A handwritten signature in black ink that reads "Kyle B. Combest".

Kyle B. Combest  
Geologist

**NABORS COMPLETION & PRODUCTION SERVICES CO.**  
*West Texas District*  
Direct 325.651-2286 | Cell 325.655.4302  
[kyle.combest@nabors.com](mailto:kyle.combest@nabors.com) | [www.nabors.com](http://www.nabors.com)

English Customer Service USPS Mobile



Quick Tools

Ship a Package

Send Mail

USPS Tracking™

Tracking Number: 7011350000332777497

Updated Delivery Day: Wednesday, September 24, 2014

Product & Tracking Information

Postal Product: Priority Mail 2-Day™ Features: Certified Mail™

DATE & TIME	STATUS OF ITEM	LOCATION
September 24, 2014, 8:18 am	Delivered	SANTA FE, NM 87504
Your item was delivered at 8:18 am on September 24, 2014 in SANTA FE, NM 87504.		
September 24, 2014, 8:18 am	Arrived at Unit	SANTA FE, NM 87594
September 19, 2014, 6:19 pm	Departed USPS Facility	ALBUQUERQUE, NM 87121
September 19, 2014, 5:35 pm	Arrived at USPS Facility	ALBUQUERQUE, NM 87121
September 18, 2014, 7:30 pm	Arrived at USPS Origin Facility	ABILENE, TX 79601
September 18, 2014, 5:59 pm	Departed Post Office	SAN ANGELO, TX 76902
September 18, 2014, 9:15 am	Acceptance	SAN ANGELO, TX 76902

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Tracking (or receipt) number

Track It

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Restricted Delivery Fee (Endorsement Required)	\$0.00	
<b>Total Postage &amp; Fees</b>	<b>\$ 9.30</b>	09/18/2014

Sent To: *New Mexico State Land*

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

PS Form 3800, August 2006 See Reverse for Instructions

7011350000332777497

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English Customer Service USPS Mobile



Quick Tools

Ship a Package

Send Mail

# USPS Tracking™

Tracking Number: 70113500000332777503

On Time  
Expected Delivery Day: Saturday, September 20, 2014

## Product & Tracking Information

Postal Product: Priority Mail 2-Day™  
Features: Certified Mail™

DATE & TIME	STATUS OF ITEM	LOCATION
September 22, 2014, 12:48 pm	Delivered	EUNICE, NM 88231
Your item was delivered at 12:48 pm on September 22, 2014 in EUNICE, NM 88231.		
September 20, 2014, 6:55 am	Available for Pickup	EUNICE, NM 88231
September 20, 2014, 6:29 am	Arrived at Unit	EUNICE, NM 88231
September 19, 2014, 9:41 pm	Departed USPS Facility	LUBBOCK, TX 79402
September 19, 2014, 5:53 am	Arrived at USPS Origin Facility	LUBBOCK, TX 79402
September 19, 2014, 12:01 am	Departed USPS Facility	ABILENE, TX 79601
September 18, 2014, 7:30 pm	Arrived at USPS Origin Facility	ABILENE, TX 79601
September 18, 2014, 5:59 pm	Departed Post Office	SAN ANGELO, TX 76902
September 18, 2014, 9:16 am	Acceptance	SAN ANGELO, TX 76902

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Tracking (or receipt) number

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Certified Fee	\$7.30	11
Return Receipt Fee (Endorsement Required)	\$0.00	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
<b>Total Postage &amp; Fees</b>	<b>\$ 99.05</b>	09/13/2014

Sent To *Chevron USA*

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

City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

## Available Actions

- Text Updates
- Email Updates
- Return Receipt After Mailing

English Customer Service USPS Mobile



Quick Tools

Ship a Package

Send Mail

# USPS Tracking™

Tracking Number: 70140510000203897463

Updated Delivery Day: Friday, September 19, 2014

## Product & Tracking Information

Postal Product: Priority Mail 2-Day™  
 Features: Certified Mail™

DATE & TIME	STATUS OF ITEM	LOCATION
September 22, 2014, 7:21 am	Delivered	MIDLAND, TX 79701
Your item was delivered at 7:21 am on September 22, 2014 in MIDLAND, TX 79701.		
September 19, 2014, 8:45 am	Out for Delivery	MIDLAND, TX 79701
September 19, 2014, 8:35 am	Sorting Complete	MIDLAND, TX 79701
September 19, 2014, 6:10 am	Arrived at Unit	MIDLAND, TX 79701
September 19, 2014, 5:50 am	Departed USPS Facility	MIDLAND, TX 79711
September 19, 2014, 4:11 am	Arrived at USPS Origin Facility	MIDLAND, TX 79711
September 18, 2014, 8:10 pm	Arrived at USPS Origin Facility	ABILENE, TX 79601
September 18, 2014, 5:59 pm	Departed Post Office	SAN ANGELO, TX 76902
September 18, 2014, 9:18 am	Acceptance	SAN ANGELO, TX 76902

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Postage	\$ 5.75	0902
Certified Fee	\$3.30	11
Return Receipt Fee (Endorsement Required)	\$0.00	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
<b>Total Postage &amp; Fees</b>	<b>\$ 9.05</b>	09/18/2014

Sent To **EOG Resources**  
 Street, Apt. No.; or PO Box No.  
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

## Available Actions

- Text Updates
- Email Updates
- Return Receipt After Mailing

English Customer Service USPS Mobile



Quick Tools

Ship a Package

Send Mail

USPS Tracking™

Tracking Number: 70140510000203897494

Updated Delivery Day: Friday, September 19, 2014

Product & Tracking Information

Postal Product: Priority Mail 2-Day™ Features: Certified Mail™

DATE & TIME	STATUS OF ITEM	LOCATION
September 24, 2014, 10:20 am	Delivered	MIDLAND, TX 79705
Your item was delivered at 10:20 am on September 24, 2014 in MIDLAND, TX 79705.		
September 20, 2014, 10:33 am	Available for Pickup	MIDLAND, TX 79710
September 19, 2014, 9:56 am	Out for Delivery	MIDLAND, TX 79705
September 19, 2014, 9:46 am	Sorting Complete	MIDLAND, TX 79705
September 19, 2014, 6:46 am	Arrived at Unit	MIDLAND, TX 79705
September 19, 2014, 5:50 am	Departed USPS Facility	MIDLAND, TX 79711
September 19, 2014, 4:10 am	Arrived at USPS Origin Facility	MIDLAND, TX 79711
September 19, 2014, 12:01 am	Departed USPS Facility	ABILENE, TX 79601
September 18, 2014, 8:10 pm	Arrived at USPS Origin Facility	ABILENE, TX 79601
September 18, 2014, 5:59 pm	Departed Post Office	SAN ANGELO, TX 76902
September 18, 2014, 9:21 am	Acceptance	SAN ANGELO, TX 76902

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Postage	\$ 45.75	0902
Certified Fee	\$2.30	11
Return Receipt Fee (Endorsement Required)	\$0.00	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
<b>Total Postage &amp; Fees</b>	<b>\$ 49.05</b>	<b>09/18/2014</b>

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 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

Available Actions

- Text Updates
- Email Updates
- Return Receipt After Mailing

English Customer Service USPS Mobile



Quick Tools

Ship a Package

Send Mail

USPS Tracking™

Tracking Number: 70140510000203897487

On Time  
Expected Delivery Day: Saturday, September 20, 2014

Product & Tracking Information

Postal Product: Priority Mail 2-Day™  
Features: Certified Mail™

DATE & TIME	STATUS OF ITEM	LOCATION
September 22, 2014, 4:47 pm	Delivered	ARTESIA, NM 88210
Your item was delivered at 4:47 pm on September 22, 2014 in ARTESIA, NM 88210.		
September 20, 2014, 8:43 am	Out for Delivery	ARTESIA, NM 88210
September 20, 2014, 8:33 am	Sorting Complete	ARTESIA, NM 88210
September 20, 2014, 8:02 am	Arrived at Unit	ARTESIA, NM 88210
September 19, 2014, 9:41 pm	Departed USPS Facility	LUBBOCK, TX 79402
September 19, 2014, 5:53 am	Arrived at USPS Origin Facility	LUBBOCK, TX 79402
September 18, 2014, 7:30 pm	Arrived at USPS Origin Facility	ABILENE, TX 79601
September 18, 2014, 5:59 pm	Departed Post Office	SAN ANGELO, TX 76902
September 18, 2014, 9:20 am	Acceptance	SAN ANGELO, TX 76902

Track Another Package

Tracking (or receipt) number

\_\_\_\_\_

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Postage	\$ 55.75	0902
Certified Fee	\$3.30	11
Return Receipt Fee (Endorsement Required)	\$0.00	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
<b>Total Postage &amp; Fees</b>	<b>\$ 59.05</b>	09/18/2014

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Available Actions

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- Return Receipt After Mailing

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English Customer Service USPS Mobile



Quick Tools

Ship a Package

Send Mail

# USPS Tracking™

Tracking Number: 70140510000203897470

On Time  
Expected Delivery Day: Saturday, September 20, 2014

## Product & Tracking Information

Postal Product: Priority Mail 2-Day™  
Features: Certified Mail™

DATE & TIME	STATUS OF ITEM	LOCATION
September 22, 2014, 9:25 am	Delivered	HOBBS, NM 88240
Your item was delivered at 9:25 am on September 22, 2014 in HOBBS, NM 88240.		
September 20, 2014, 7:23 am	Out for Delivery	HOBBS, NM 88240
September 20, 2014, 7:13 am	Sorting Complete	HOBBS, NM 88240
September 20, 2014, 5:53 am	Arrived at Unit	HOBBS, NM 88240
September 19, 2014, 9:41 pm	Departed USPS Facility	LUBBOCK, TX 79402
September 19, 2014, 5:54 am	Arrived at USPS Origin Facility	LUBBOCK, TX 79402
September 18, 2014, 7:30 pm	Arrived at USPS Origin Facility	ABILENE, TX 79601
September 18, 2014, 5:59 pm	Departed Post Office	SAN ANGELO, TX 76902
September 18, 2014, 9:19 am	Acceptance	SAN ANGELO, TX 76902

## Track Another Package

Tracking (or receipt) number

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Postage	\$ 65.75	0902
Certified Fee	\$ 3.30	11
Return Receipt Fee (Endorsement Required)	\$ 0.00	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
<b>Total Postage &amp; Fees</b>	<b>\$ 69.05</b>	09/18/2014

Sent To **NM OGD**

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Nabors Completion & Production Services Co.  
1214 Gas Plant Road (76904)  
P.O. Box 60890  
San Angelo, Texas 76906

Phone: 325.651.2200  
Fax: 325.651.2240  
[www.nabors.com](http://www.nabors.com)

26 September 2014

New Mexico Oil Conservation Division  
1220 South Saint Francis Drive  
Santa Fe, New Mexico 87505  
Attn: Mr. Phillip Goetz

Subject:  
Application for a permit modification to increase injection interval  
Nabors State AB #1 SWD (Permit SWD 092)

Dear Mr. Goetz:

Please find attached an application for a permit modification to the subject SWD. We are requesting an expansion of the disposal interval within the San Andres formation. The application also shows a lowering of maximum permit pressure to match the proposed disposal interval.

Please call if you need any additional information. Thank you.

Respectfully,

Kyle B Combest, Geologist

**NABORS COMPLETION & PRODUCTION SERVICES CO.**  
*West Texas District*  
Direct 325.651-2286 | Cell 325.655.4302  
[kyle.combest@nabors.com](mailto:kyle.combest@nabors.com) | [www.nabors.com](http://www.nabors.com)

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2014 OCT -1 P 1:19



Nabors Completion & Production Services Co.  
1214 Gas Plant Road (76904)  
P.O. Box 60890  
San Angelo, Texas 76906

Phone: 325.651.2200  
Fax: 325.651.2240  
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Dear Mr. Goetz:

Please find attached an application for a permit modification to the subject SWD. We are requesting an expansion of the disposal interval within the San Andres formation. The application also shows a lowering of maximum permit pressure to match the proposed disposal interval.

Please call if you need any additional information. Thank you.

Respectfully,

A handwritten signature in black ink that reads "Kyle B. Combest".

Kyle B Combest, Geologist

**NABORS COMPLETION & PRODUCTION SERVICES CO.**  
*West Texas District*  
Direct 325.651-2286 | Cell 325.655.4302  
[kyle.combest@nabors.com](mailto:kyle.combest@nabors.com) | [www.nabors.com](http://www.nabors.com)

2014 OCT - 1 P 1:19  
RECEIVED OGD



**C-108 Review Checklist:** Received 10/21/14 Add. Request: — Reply Date: — Suspended: — [Ver 15]

**ORDER TYPE:** WFX / PMX / SWD Number: 223-A Permit Date: 11/20/14 Legacy Permits/Orders: SWD-223

+ Packer Exception 06/04/2014

Well No. 1 Well Name(s): State AB SWD

API: 30-025-23786 Spud Date: 05/25/71 New or Old: Old (UIC Class II Primacy 03/07/1982)

Footages 660 FNL / 1980 FWL Lot — or Unit C Sec 3 Tsp 19S Rge 37E County Lea

General Location: West of Lea County Airport / Hobbs Pool: SWD; San Andres Pool No.: —

BLM 100K Map: Hobbs Operator: Nabors Completion and Production Services, Co. OGRID: 295925 Contact: Kyle Combest 11/20/14

COMPLIANCE RULE 5.9: Total Wells: 2 Inactive: 0 Fincl Assur: Yes Compl. Order? No. IS 5.9 OK? Yes Date: 11/18/14

WELL FILE REVIEWED  Current Status: Packer at 4517 - 380' above top perf at 4897, current perms: 4897' to 4919' (22)

WELL DIAGRAMS: NEW: Proposed  or RE-ENTER: Before Conv.  After Conv.  Logs in Imaging: CBL/GR-N/Acoustic

Planned Rehab Work to Well: Expansion of perforated interval in San Andres

Well Construction Details		Sizes (in)	Setting	Cement	Cement Top and
		Borehole / Pipe	Depths (ft)	Sx or Cl	Determination Method
Planned <input type="checkbox"/> or Existing <input checked="" type="checkbox"/>	Surface	11 / 8 5/8	0 to 1680'	475	Cir. to surface
Planned <input type="checkbox"/> or Existing <input checked="" type="checkbox"/>	Interm/Prod	7 7/8 / 5 1/2	0 to 7045'	925	3758' CBL
Planned <input type="checkbox"/> or Existing <input type="checkbox"/>	Interm/Prod	Open hole	7045 to 8170'	CIBP at bottom of 5 1/2 casing	
Planned <input type="checkbox"/> or Existing <input type="checkbox"/>	Prod/Liner	—	—	—	—
Planned <input type="checkbox"/> or Existing <input type="checkbox"/>	Liner	—	—	—	—
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/>	OH/PERF	5 1/2	4300 to 5700'	Inj Length 1400	<b>Completion/Operation Details:</b> Drilled TD <u>8170</u> PBSD <u>5735'</u> NEW TD <u>NA</u> NEW PBSD <u>NA</u> CIBP NEW Open Hole <input type="checkbox"/> or NEW Perfs <input checked="" type="checkbox"/> Tubing Size <u>2 7/8</u> in. Inter Coated? <u>Yes</u> Proposed Packer Depth <u>4200</u> ft Min. Packer Depth <u>4200</u> (100-ft limit) Proposed Max. Surface Press. <u>860</u> psi Admin. Inj. Press. <u>860</u> (0.2 psi per ft)
<b>Injection Lithostratigraphic Units:</b>		Depths (ft)	Injection or Confining Units	Tops	
Adjacent Unit: Litho. Struc. Por.			7-Rivers	3150	
Confining Unit: (Litho) Struc. (Por)		±125	Queen	3695	
Proposed Inj Interval TOP:		4300	San Andres	4125	
Proposed Inj Interval BOTTOM:		5700	fm		
Confining Unit: (Litho) Struc. (Por)		±58	Glorieta	5758	
Adjacent Unit: Litho. Struc. Por.			Tubb		

**AOR: Hydrologic and Geologic Information**

POTASH: R-111-P  Noticed? NA BLM Sec Ord NA WIPPA  Noticed? NA SALT/SALADO T: — B: — CLIFF HOUSE NA

FRESH WATER: Aquifer Ogallala / Rustler / Chute Max Depth 2200 / 1650 HYDRO AFFIRM STATEMENT By Qualified Person

NMOSE Basin: Lea CAPITAN REEF:  No. Wells within 1-Mile Radius? 12 FW Analysis

Disposal Fluid: Formation Source(s) San Andres & Grayburg Analysis? Yes On Lease  Operator Only  or Commercial

Disposal Int: Inject Rate (Avg/Max BWPD): 3500/7000 Protectable Waters? No Source: Previous injection System: Closed  or Open

HC Potential: Producing Interval? No Formerly Producing? No Method: Logs/DST/P&A/Other P&A adjacent 2-Mile Radius Pool Map

AOR Wells: 1/2-M-Radius Map? Yes Well List? Yes Total No. Wells Penetrating Interval: 0 Horizontals? None

Penetrating Wells: No. Active Wells 0 Num Repairs? — on which well(s)? — Diagrams? NA

Penetrating Wells: No. P&A Wells 0 Num Repairs? — on which well(s)? — Diagrams? NA

NOTICE: Newspaper Date 09/12/2014 Mineral Owner NMSLO Surface Owner NMSLO N. Date 09/17/14

RULE 26.7(A): Identified Tracts? Yes Affected Persons: Yates / oxy / EOG / Chevron USA N. Date 09/17/14

Order Conditions: Issues: Injection length

Add Order Cond: Injection survey within one year



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

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

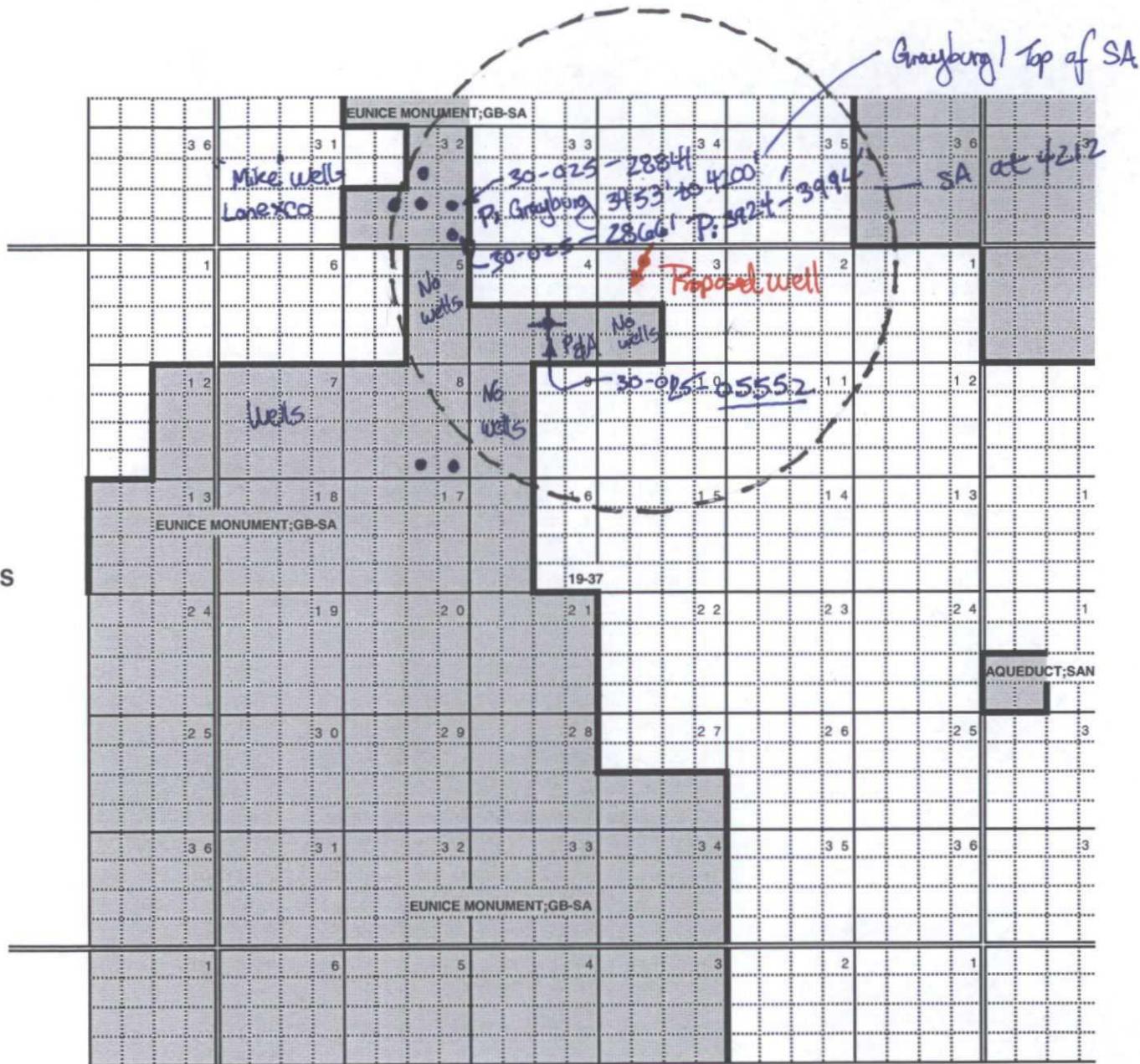
(acre ft per annum)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	6416.4	Sec	Tws	Rng	X	Y	Distance	
L 06814	L	EXP		0 MORAN OIL PROD & DILLING CORP	LE	L 06814		TD 100' / DTW TD	Shallow	4	2	1	03	19S	37E	664950 3618703*	105
<del>L 13109</del>	<del>L</del>	<del>POL</del>		<del>0 ENTECH CONSULTING CORP</del>	<del>LE</del>	<del>L 13109</del>	<del>POD2</del>	Soil boring		3	2	1	03	19S	37E	664792 3618809	171
L 11313	L	OFM		50 NM COMMISSIONER OF PUBLIC LAND	LE	L 11313		TD 110' / 42' DTW	Shallow	1	2	1	03	19S	37E	664837 3618851	200
L 03103	L	PRO		0 MAKIN DRILLING COMPANY	LE	L 03103		TD 105' / 42' DTW	Shallow		1	03	19S	37E	664655 3618597*	210	
<del>L 13109</del>	<del>L</del>	<del>POL</del>		<del>0 ENTECH CONSULTING CORP</del>	<del>LE</del>	<del>L 13109</del>	<del>POD1</del>	Monitoring well / Soil boring		4	2	1	03	19S	37E	665052 3618818	256
L 08559	L	SAN		3 JAKE DIEL PAVING CO.	LE	L 08559		TD 122' / 40' DTW	Shallow	1	1	1	03	19S	37E	664348 3618897*	565
<del>L 03616</del>	<del>L</del>	<del>PRO</del>		<del>0 CACTUS DRILLING COMPANY</del>	<del>LE</del>	<del>L 03616</del>		Expired	Shallow	3	3	34	18S	37E	664457 3619226*	700	
L 03190	L	PRO		0 MAKIN DRILLING CO.	LE	L 03190		TD 105' / 43' DTW	Shallow	4	4	33	18S	37E	664055 3619221*	984	
<del>L 07025</del>	<del>L</del>	<del>PUB</del>		<del>0 NM STATE HIGHWAY DEPARTMENT</del>	<del>LE</del>	<del>L 07025</del>		Expired		4	4	33	18S	37E	664055 3619221*	984	
L 07256	L	DOL		3 E W COX	LE	L 07256		TD 137' / 65' DTW	Shallow		2	04	19S	37E	663852 3618584*	1008	
L 12029	L	DOM		7 MURTY EUBANKS	LE	L 12029	POD1		Shallow	3	3	3	02	17S	37E	665881 3618292	1084
L 06216	L	DOL		3 E W COX	LE	L 06216			Shallow	1	1	2	04	19S	37E	663544 3618885*	1334
L 04466	L	IRR		240 JIMMIE B. COOPER	LE	L 04466	POD1	14" well TD 145' / 20' DTW	Shallow	1	4	04	19S	37E	663657 3617981*	1375	
L 07255	L	STK		3 E W COX	LE	L 07255		TD 175' / 65' DTW	Shallow	3	3	4	33	18S	37E	663552 3619114*	1385
L 04917	L	DOL		3 E W COX	LE	L 04917		TD	Shallow	1	1	4	04	19S	37E	663556 3618080*	1422
L 03234	L	PRO		0 MAKIN DRILLING COMPANY	LE	L 03234			Shallow	1	1	10	19S	37E	664473 3617188*	1513	
<del>L 08097</del>	<del>L</del>	<del>DOM</del>		<del>3 HARRY S KLEIN</del>	<del>LE</del>	<del>L 08097</del>		Expired		1	3	35	18S	37E	666060 3619651*	1562	

\*UTM location was derived from PLSS - see Help

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Nabors State AB #1  
[expansion of injection interval]