

Initial Application Part I

Received: 01/03/2020

This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & 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

Applicant: _____ **OGRID Number:** _____
Well Name: _____ **API:** _____
Pool: _____ **Pool Code:** _____

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
 A. Location - Spacing Unit - Simultaneous Dedication
 NSL NSP_(PROJECT AREA) NSP_(PRORATION UNIT) SD
- B. Check one only for [I] or [II]
 [I] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
 [II] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.
 A. Offset operators or lease holders
 B. Royalty, overriding royalty owners, revenue owners
 C. Application requires published notice
 D. Notification and/or concurrent approval by SLO
 E. Notification and/or concurrent approval by BLM
 F. Surface owner
 G. For all of the above, proof of notification or publication is attached, and/or,
 H. No notice required

FOR OCD ONLY
<input type="checkbox"/> Notice Complete
<input type="checkbox"/> Application Content Complete

3) **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.

 Print or Type Name



 Signature

 Date

 Phone Number

 e-mail Address

BC&D Operating, Inc

P.O. Box 302 Hobbs, NM 88241
(405) 837-8147

December 28, 2019

Jal Public Library Trust 9-24-35 SWD

1,200' FNL & 1,990 FEL, Sec 9, T24S, R35E, Lea Co, NM

Contents:

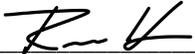
1. Administrative Application Checklist.
2. Form C-108: Application for Authority to Inject.
3. Form C-108: Questions Answered.
4. Formation Tops.
5. Proposed Wellbore Diagram of Jal Public Library Trust 9-24-35 SWD.
6. One Mile Radius Map.
7. Form C-102.
8. Point Diversion Map.
9. Water Well Samples, Water Column Information, and POD's with Well Files.
10. Water Sample Analyses for Area Wells.
11. Legal Notice that was Run as Required in the Hobbs News Sun.
12. Letter sent to Surface Owner and Leasehold Operator within One Mile of the Well Location.
13. Certified Mail Receipts.
14. Tabulation of Area wells (Possible Injection Zone Penetration).
15. Plugged Well Data and Wellbore Diagram.
16. Casing Assumptions.
17. Circulating Medium Table
18. General Drilling Plan.
19. Well Control Procedures
20. Hydrogen Sulfide Drilling Operations Plan.
21. Emergency Contact List.

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance _____ Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ No
- II. OPERATOR: BC&D Operating, Inc. (25670)
ADDRESS: P.O Box 302 Hobbs, New Mexico 88241
CONTACT PARTY: Richard Hill PHONE: (405) 837-8147
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? _____ Yes _____ No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Richard Hill TITLE: SVP Engineering
SIGNATURE:  DATE: 12/28/2019
E-MAIL ADDRESS: rhill@wellconsultant.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: _____

Side 2

III. WELL DATA

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

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

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

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

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

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

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

Side 1

INJECTION WELL DATA SHEET

OPERATOR: BC&D Operating, Inc. (25670)

WELL NAME & NUMBER: Jal Public Library Trust 9-24-35 SWD

WELL LOCATION: <u>1,200' FNL & 1,990' FEL</u>	<u>B</u>	<u>9</u>	<u>24S</u>	<u>35E</u>
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. *or* _____ ft³

Top of Cement: _____ Method Determined: _____

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. *or* _____ ft³

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. *or* _____ ft³

Top of Cement: _____ Method Determined: _____

Total Depth: _____

Injection Interval

_____ 15,500' feet to _____ 17,500 _____

(Perforated or Open Hole; indicate which)

Please see attached wellbore schematic in the following pages.

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 4-1/2" Lining Material: Duoline

Type of Packer: 4-1/2" TCPC Permanent Packer w/ High Temp Elastomer & Full Inconel

Packer Setting Depth: 15,850'

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? _____

2. Name of the Injection Formation: Dev - Fuss

3. Name of Field or Pool (if applicable): SWD; Dev - Fuss

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. No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____

Yates - Seven Rivers @ 3,589', Bone Spring at 8,050', Wolfcamp @ 11,800'

Atoka @ 13,120', Marrow @ 13,560'

BC&D Operating, Inc

P.O. Box 302 Hobbs, NM 88241

(405) 837-8147

III. Well Data

A. The following 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.

- Jal Public Library Trust 9-24-35 SWD, Sec 9, T24S, R35E, 1,200' FNL & 1,990' FEL.

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.

Casing Size	Setting Depth	Sack of Cement	Hole Size	Top of Cement	Determined
20"	1,250'	1,205	26"	Surface	Circulate
13-3/8"	5,200'	1,970	17-1/2"	Surface	Circulate
9-5/8"	12,650'	2,050	12-1/4"	Surface	Circulate
7"	12,450' - 15,900'	350	8-1/2"	12,450'	Circulate

3. A description of the tubing to be used including its size, lining material, and setting depth.

- 4-1/2" (0 – 15,800') OD, Internally Plastic-Coated tubing set 50' – 100' above open hole.

4. The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

- 4-1/2" TCPC Permanent packer w/ high temp elastomer & full Inconel.

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.

- Injection Formation Devonian-Silurian Formations
- Pool Name: SWD (Devonian-Fusselman)

2. The injection interval and whether it is perforated or open-hole.

- 15,500' – 17,500' (15,500 - 15,900 cased hole and not perforated), (15,900' - 17,500' OH)

BC&D Operating, Inc

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3. State if the well was drilled for injection or, if not, the original purpose of the well.
 - New well drilled for injection.

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.
 - N/A

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.
 - Next Higher:
 - Morrow 13,560'
 - Atoka 13,120'
 - Wolfcamp 11,800'
 - Bone Spring/Avalon 8,050'
 - Yates 3,589'.

 - Next Lower:
 - None

IV.

1. Is this an expansion of an existing project? _____ Yes No

V.

1. 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.
 - See attached map.

VI.

1. 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.
 - See attachment.

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VII. Attach data on the proposed operation, including:

1. **Proposed average and maximum daily rate and volume of fluids to be injected;**
 - Average 30,000 BWP, Max 40,000 BWP.
 - Rate will also be determined by maximum pressure. (.2 psi/ft to top of injection interval).
2. **Whether the system is open or closed;**
 - Closed System, Commercial SWD
3. **Proposed average and maximum injection pressure;**
 - Average injection pressure: 2,500 psi (surface pressure).
 - Maximum injection pressure: 3,100 psi (surface pressure).
4. **Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,**
 - The injection fluid is to be locally produced water. It is expected that the source water will predominantly be from the Bone Spring and Wolfcamp formations. Attached are produced water sample analyses that feature samples from the Delaware, Bone Spring, and Wolfcamp formations.
5. **If injection is for disposal purposes into a zone not productive of oil and 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 disposal interval is non-productive. No water samples are available from the surrounding are

VIII.

1. **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. Underground sources of drinking water within 1-mile of the proposed location.**
 - The Devonian formation is a dolomitic ramp carbonate that occurs below the Woodford shale and above the Fusselman formation. Strata found in the Devonian formation include two major groups, the Wristen Buildups and Thirtyone Deepwater Chert, with the Wristen being more abundant. The Wristen Groups is composed of mixed limestone and dolomites with mudstone to grainstone and boundstone textures. Porosity in the Wristen group is a result of both primary and secondary development. Present are moldic, vugular, karstic (including collapse breccia)

BC&D Operating, Inc

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features that allow for higher porosities and permeabilities. The Thirtyone Formation contains two end-member reservoir facies, skeletal packstones/grainstones and spiculitic chert, with most of the porosity and permeability found in the coarsely crystalline cherty dolomite. These particular characteristics allow for this formation to be a salt water disposal horizon.

- There is one well within one mile of the proposed location. Water wells in the surrounding area have an average depth of 507' and an average water depth of 300' generally producing from the Santa Rosa. The upper Rustler may also be another USDW and will be protected.
- The Santa Rosa Sandstone consists primarily of red, white, gray or greenish-gray and varies from a fine grain to coarse grain sandstone. In the vicinity of the Jal Public Library Trust 9-24-35 SWD it occurs at a depth of around 700' to 900'. In this area the Santa Rosa is of minor hydrological significance and there are no Santa Rosa water wells in the vicinity of the well in application. Consequently, the Santa Rosa quality in this area is not known. However, over southern Lea County it yields small quantities of water, with some reports of wells producing 100 gpm. Santa Rosa water in the southern part of the county usually has high sulfate content.

<u>Formation Tops</u>	<u>Depth (TVD)</u>
Rustler	1,190'
Top Salt	1,280'
Base Salt	3,700'
Top Capitan Reef	3,728'
Base Capitan Reef	5,050'
Delaware	5,220'
Bell Canyon	5,300'
Cherry Canyon	6,200'
Brushy Canyon	7,720'
Bone Spring	8,920'
Wolfcamp	11,800'
Strawn	12,622'
Atoka	13,120'
Morrow Lime	13,564'
Barnet	14,485'
Chester	15,115'
Mississippian Lime	15,226'
Woodford	15,632'
Devonian	15,882'
Fusselman	16,920'
Montoya	17,700'

BC&D Operating, Inc

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IX.

1. Describe the proposed stimulation program, if any.

- Stimulate with up to 50,000 gallons of acid.

X.

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

- There are no logs or test data on the well.
- During drilling operations.
 - 0 – 1,250' mudlogging.
 - 1,250' – 5,200' mudlogging and full suite of logs consisting of GR/CNL/CDN/CBL to identify the Capitan Reef.
 - 5,200' – 12,650' mudlogging, gamma and CBL.
 - 12,650' – 15,900' mudlogging, gamma and CBL.
 - 15,900' – 17,700' mudlogging an GR/CNL/CDN/CBL.

XI.

1. 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.

- There is one well producing within one mile of the proposed location.
- Please attached water analysis.

XII.

1. 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.

- BC&D Operating, Inc. has reviewed and examined geologic and engineering data in the area of interest for the Jal Public Library Trust 9-24-35 SWD and have found no evidence of faults or other hydrologic connections between Devonian disposal zones and underground sources of drinking water.

XIII.

1. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

- Please see "Proof of Notice" attachments.

Custer Mountain Unit #1

1,980' FSL & 1,980' FWL, Sec 9 T24S R35E

<u>Formation</u>	<u>Tops</u>
Lamar	5,320'
Delaware Sand	5,367'
Cherry Canyon	6,261'
Bonespring Shale	8,905'
Bonespring Lime	9,075'
Barnet	14,485'
Chester	15,115'
Mississippi	15,226'
Woodford	15,632'
Devonian	15,882'

Aztec State

1,650' FNL & 1,980' FEL, Sec 16 T24S R35E

<u>Formation</u>	<u>Tops</u>
Anhydrite	820'
Salt	1250'
Delaware	5245'
Wolfcamp	10,718'
Atoka	12,980'

Cinta Roja 10 #1

1,980' FNL & 1,650' FWL, Sec 10 T24S R35E

<u>Formation</u>	<u>Tops</u>
Rustler	1,190'
Tansill (Capitan)	3,728'
Cherry Canyon	6,542'
Brushy Canyon	7,743'
Bone Spring	9,048'
1st Bone Spring Sd	9,920'
Wolfcamp	11,767'
Strawn	12,622'
Atoka	13,120'
Morrow Lime	13,750'
Morrow Clastics	14,070'
Morrow "D" Marker	14,600'

Cinta Roja 17 Federal #1

1,980' FNL & 2,310' FEL, Sec 17 T24S R35E

<u>Formation</u>	<u>Tops</u>
Delaware	5,322'
Cherry Canyon	6,382'
Brushy Canyon	7,708'
Bone Spring Lime	9,306'
Wolfcamp Shale	12,150'
Strawn	13,000'
Atoka Shale	13,376'
Morrow Lime	13,870'
Morrow Clastics	14,132'
Middle Morrow	14,776'
Lower Morrow	15,287'

F 2-4
(November 1983)
(formerly 9-330)

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.
NM 42163

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Cinta Roja 17 Federal Com.

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT

Und. Cinta Roja Morrow
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 17, T24S, R35E

12. COUNTY OR PARISH
Lea
13. STATE
NM



WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other _____

2. NAME OF OPERATOR
Enron Oil & Gas Company

3. ADDRESS OF OPERATOR
P. O. Box 2267, Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface
1980' FNL & 2310' FEL
At top prod. interval reported below

At total depth (See attached Directional Survey)

14. PERMIT NO. - DATE ISSUED 9-23-87

15. DATE SPUDDED 12-6-87 16. DATE T.D. REACHED 2-6-88 17. DATE COMPL. (Ready to prod.) P&A 2-13-88 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 3369.2' GR 19. ELEV. CASINGHEAD 3369.2'

20. TOTAL DEPTH, MD & TVD 15,350' 21. PLUG, BACK T.D., MD & TVD - 22. IF MULTIPLE COMPL., HOW MANY* - 23. INTERVALS DRILLED BY ROTARY TOOLS X CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* NA 25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN CNL/LDT, BHC, DLL/MSFL, DIL, RFT 27. WAS WELL CORED No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.50#	648'	17-1/2"	265 HLW & 265 C1 C	Circulated
9-5/8"	36# & 40#	5080'	12-1/4"	1900 HLW & 475 C1 C	Circulated
7"	26#	12465'	8-1/2"	600 HLW & 350 C1 H	6065'

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

33.* PRODUCTION

DATE FIRST PRODUCTION _____ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) _____ WELL STATUS (Producing or shut-in) P&A

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS. _____ CASING PRESSURE _____ CALCULATED 24-HOUR RATE _____ OIL—BBL. _____ GAS—MCF. _____ WATER—BBL. _____ OIL GRAVITY-API (CORR.) _____

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) _____ TEST WITNESSED BY _____

35. LIST OF ATTACHMENTS
Logs, Inclination, Directional Survey

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED Betty Sildon TITLE Regulatory Analyst DATE 2/25/88

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
	0		Surface Rock & Red Bed	Delaware	5322	
	757	757	Anhy & Red Bed	Cherry Canyon	6382	
	1565	1565	Anhy & Salt	Brushy Canyon	7708	
	4305	4305	Anhy & Shale	Bone Spring Lime	9306	
	5001	5001	Anhy & Salt	Wolfcamp Shale	12150	
	5531	5531	Sand	Strawn	13000	
	7445	7445	Sand, Shale	Atoka Shale	13376	
	8168	8168	Lime, Sh, Sd	Morrow Lime	13870	
	13908	13908	Lm, Sh, Chert	Morrow Clastics	14132	
	13970	13970	Lm, Sh, Sd	Middle Morrow Shale	14776	
	14114	14114	Sh, Sd	Lower Morrow	15287	
	14220	14220	Ch, Lm			
	14484	14484	Lm, Sh, Sd			
	14541	14541	Ch, Lm, Sh			
	14630	14630	Ch, Lm, Sd, Sh			
	14679	14679	Lm, Sh			
	14712	14712	Sd, Sh, Lm			
	14778	14778	Sh, Lm, Sd			
	14859	14859	Lm, Sd, Ch, Sh			
	15188	15188	Sd, Sh, Lm			
	15188	15350	Shale			

Page 2
Cinta Foja 10 #1
C-105

No. 26 Dresser Atlas ran: Neutron-Density surface-TD, Acoustilog 5394'-TD, Dual Laterolog-Micro Laterolog 5394-TD, and Density-Neutron, BHC Acoustilog, and Dual Laterolog-Micro Laterolog 12,150-14,598'.

Schlumberger ran Gamma Ray and Spectroscopy Log (TD) 14,481-13,900' and Cement Bond Log 14,476-11,388'.

Cardinal ran Production Log, Fluid Density, Temperature Log, and Radioactive Tracer.

FORMATION TOPS

Permian

Russler	1,190	
Tansill (Capitan)	3,728	
Cherry Canyon	6,542	
Brashy Canyon	7,743	
Bone Springs	9,048	
1st Bone Springs Sd	9,920	
Wolfcamp	11,767	
Penn.		
Strawn		12,622
Atoka		13,120
Morrow Lime		13,564
Morrow Clastics		13,750
Morrow "D" Marker		14,070
Total Depth		14,600

RECEIVED
JAN 3 1980
OIL CONSERVATION DIV

CINTELA WCA WELL NO. 1

		Thickness in Feet
0-422	Redbed	422
422-852	Redbed-Anhydrite	440
862-1114	Anhydrite-Salt	252
1114-1520	Redbed-Anhydrite-Salt	406
1520-3581	Anhydrite-Salt	2061
3581-3663	Anhydrite-Salt-Trace Lime	82
3663-3800	Lime	137
3800-3893	10% Anhydrite-40% Dolomite-	
	40% Lime-10% Shale	93
3893-5624	Lime-Dolomite-Shale	1731
5624-5690	Lime-Sand	66
5690-6085	Dolomite-Sand-Lime	395
6085-6503	Dolomite-Sand-Lime-Shale	418
6503-8240	Dolomite-Sand-Lime	1737
8240-8693	Dolomite-Sand-Lime-Shale	453
8693-9078	Shale-Lime-Sand	385
9078-9793	Shale-Lime-Sand-Trace Chert	715
9793-10820	Shale-Lime-Chert	1027
10820-10914	Lime-Shale	94
10914-11060	Shale-Lime-Sand	146
11060-11136	Lime-Shale-Chert	76
11136-12834	Lime-Shale	1698
12834-12839	Lime-Shale-Chert	5
12839-12918	Lime-Shale	79
12918-12927	Shale	9
12927-13195	60% Shale-30% Lime-10% Chert	268
13195-13318	Shale-Lime	123
13318-13384	Chert-Lime-Shale	66
13384-13476	Lime-Shale	92
13476-13576	Chert-Lime-Shale	100
13576-13596	Lime-Shale	20
13596-13608	Chert-Lime	12
13608-13612	Shale-Lime	4
13612-13646	Chert-Lime-Shale	34
13646-13654	Shale-Lime	8
13654-13659	Chert-Lime-Shale	5
13659-13662	Shale	3
13662-13674	Lime-Shale-Chert	12
13674-13692	Lime-Shale-Chert-Sand	18
13692-13724	Chert-Lime-Shale	32
13724-13771	Lime-Shale	47
13771-13785	Chert-Lime-Shale	14
13785-13914	Shale-Lime	129
13914-13925	Chert-Sand-Lime-Shale	11
13925-13931	Lime-Sand-Shale	6
13931-13959	Lime-Chert-Sand	28
13959-13976	Shale-Lime	17
13976-13980	Chert-Dolomite-Lime-Shale	4
13980-13986	Shale-Dolomite-Lime	6
13986-14035	Shale-Lime	49

BC&D Operating, Inc
 Jal Public Library Trust 9-24-35 SWD
 1,200' FNL & 1,990' FEL
 Sec 9, T24S, R35E
 Lea County, NM

Surface - (Conventional)

Hole Size 26"
 Casing 20" - 94# J-55 BTC Casing
 Depth Top: Surface
 Depth Bottom: 1,250'
 Cement: 560 sxs tail, 1.35 yield, class C + additives
 645 sxs lead, 1.75 yield, class C + additives
 Cement Top: Surface - (circulated)

Intermediate #1 - (Conventional)

Hole Size 17.5"
 Casing 13-3/8" - 61# L-80HC BTC Casing
 Depth Top: Surface
 Depth Bottom: 5,220'
 Cement: 490 sxs tail, 1.33 yield, Class C 50/50 + additives
 1480 sxs lead, 1.75 yield, Class C + additives
 Cement Top: Surface - (circulated)

Intermediate #2 - (Conventional)

Hole Size 12.25"
 Casing 9-5/8" - 40# L-80HC BTC Casing
 Depth Top: Surface
 Depth Bottom: 12,650'
 Cement: Stage 1 - 520 sxs tail, 1.2 yield, Class H + additives
 Stage 1 - 620 sxs lead, 2.0 yield, Class H 50/50 + additives
 Stage 2 - 260 sxs tail, 1.33 yield, Class C + additives
 Stage 2 - 650 sxs lead, 2.5 yield, Class C 50/50 + additives
 Cement Top: Surface - (circulated)
 ECP/DV Tool: 5,500'

Intermediate #3 - (Liner)

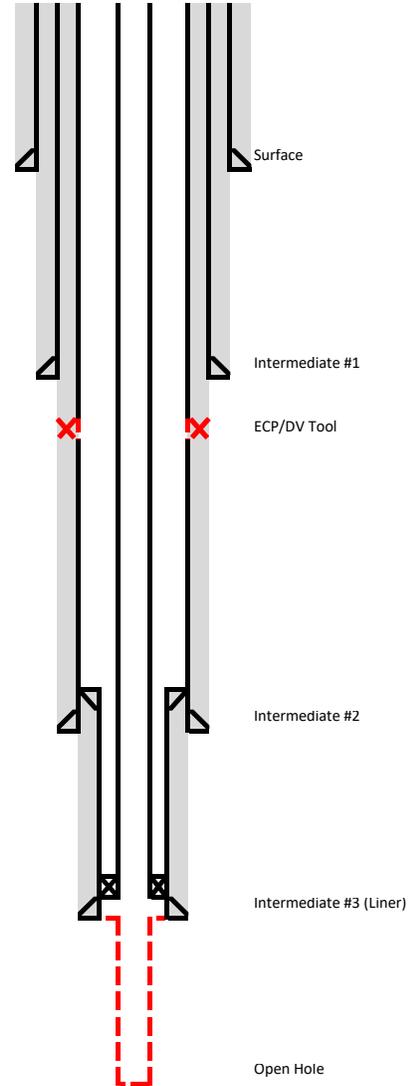
Hole Size 8.5"
 Casing 7" - 32# P-110HC BTC SpCL Casing
 Depth Top: 12,450'
 Depth Bottom: 15,900'
 Cement: 350 sxs tail, 1.33 yield, Class H 50/50 + additives
 Cement Top: 12,450' - (Volumetric)

Intermediate #4 - (Open Hole)

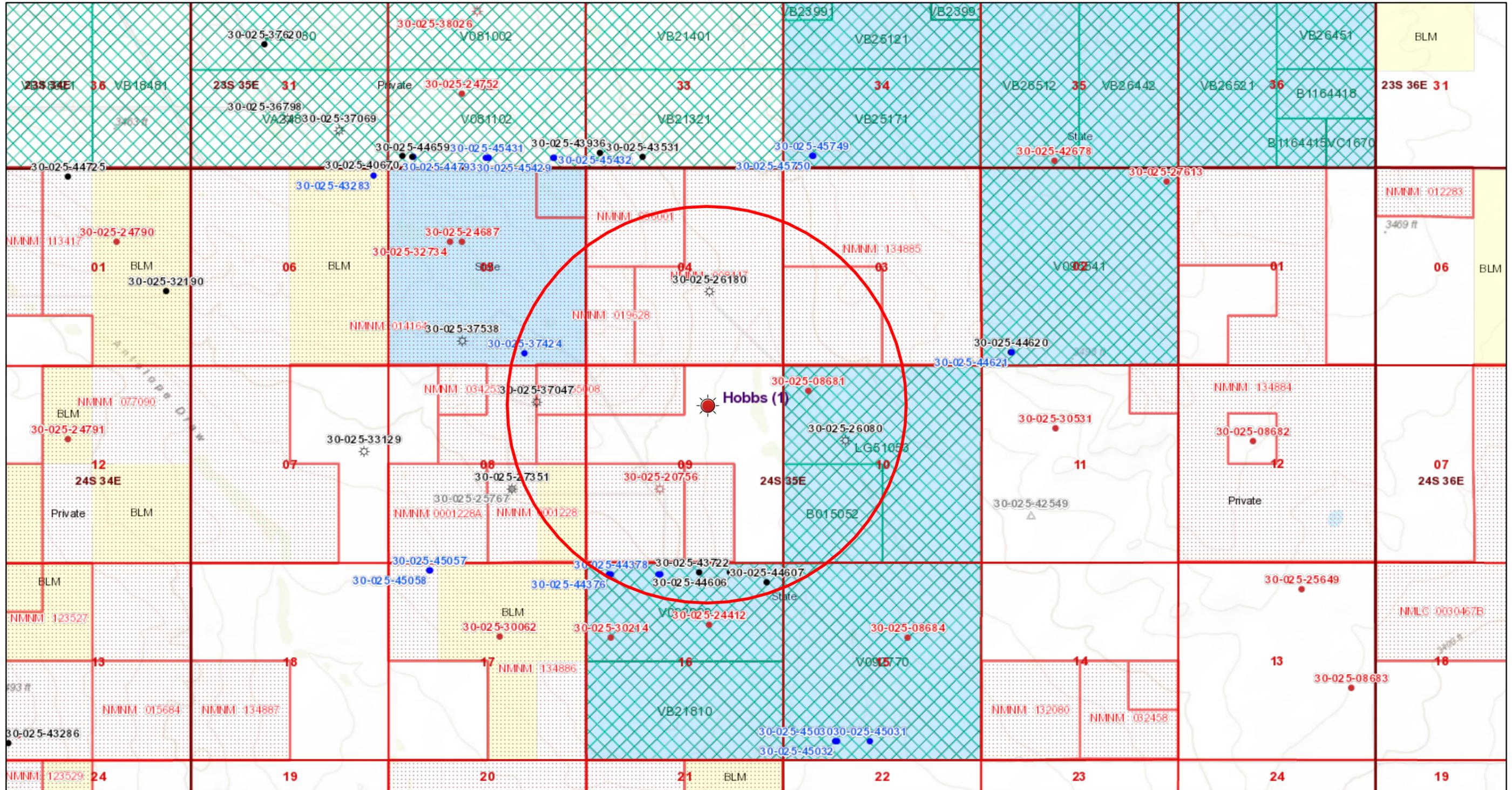
Hole Size 6"
 Casing Open Hole
 Depth Top: 15,900'
 Depth Bottom: 17,700'
 Inj Interval: 15,500' - 15,900' (Cased hole non perforated)
 15,900' - 17,500' (Open-Hole Completion)

Tubing

Tubing Depth: 15,800'
 Tubing: 4-1/2" 11.6# N-80 Duoline
 Packer Depth: 15,850'
 Packer: 4-1/2" TCPC Permanent packer w/ high temp elastomer & full

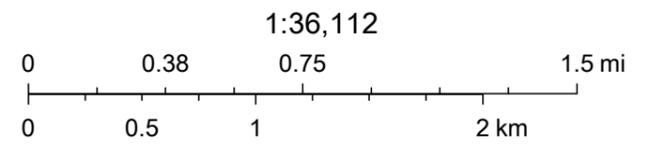


Jal Public Library Trust 9-24-35 SWD



11/30/2019, 8:29:18 AM

- Override 1
- ☀ Override 1
- Well Locations - Small Scale
 - Active
 - New
 - Plugged
 - Cancelled



U.S. BLM, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name JAL PUBLIC LIBRARY TRUST 9-24-35 SWD	
OGRID No.	Operator Name BC & D OPERATING, INC	Well Number 1
		Elevation 3376'

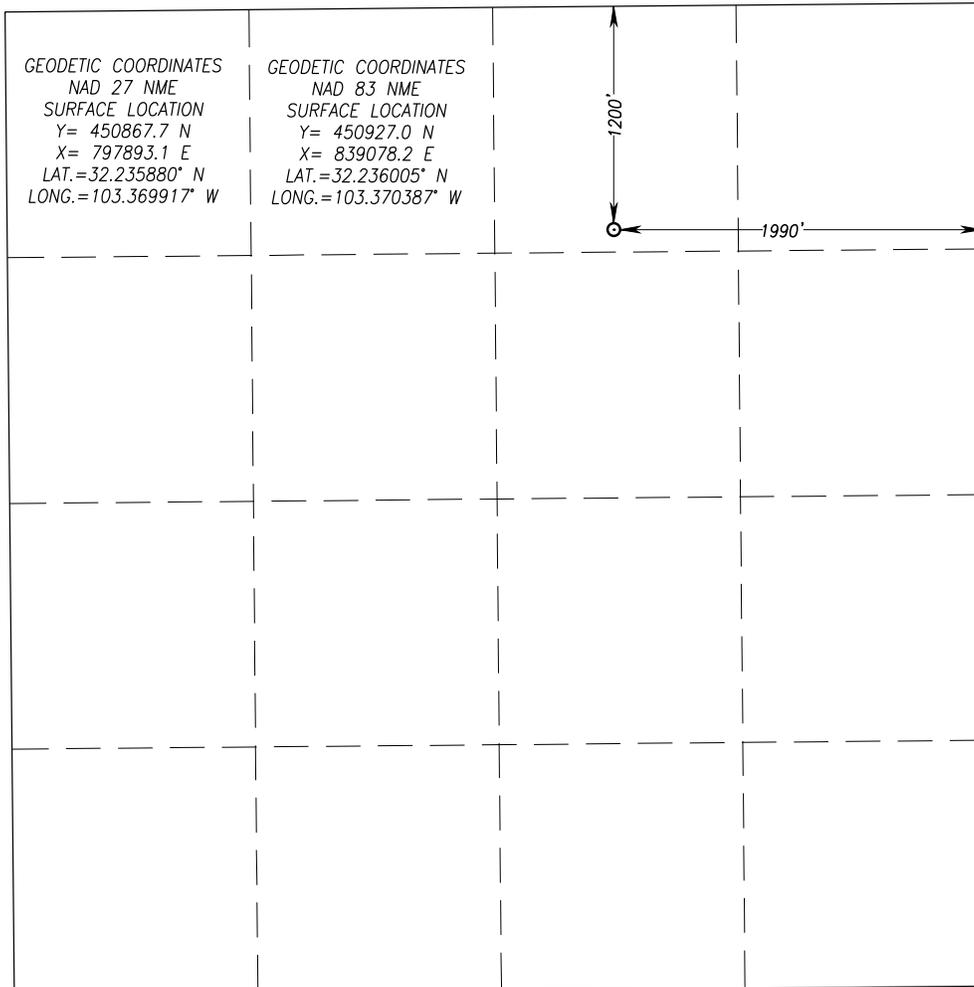
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	9	24-S	35-E		1200	NORTH	1990	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres		Joint or Infill		Consolidation Code		Order No.			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

12/28/2019

Signature Date

Richard Hill
Printed Name

rhill@wellconsultant.com
E-mail Address

SURVEYOR CERTIFICATION

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

NOVEMBER 1, 2019

Date of Survey **3239**
Signature **Ronald J. Eidson**
Seal of Professional Surveyor

12/26/2019

Certificate Number **Gary G. Eidson 12641**
Ronald J. Eidson 3239

LSL JWSC W.O.: 19.11.1238

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

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name	
JAL PUBLIC LIBRARY TRUST 9-24-35 SWD	Well Number	
1	Elevation	
OGRID No.	Operator Name	
BC & D OPERATING, INC	3376'	

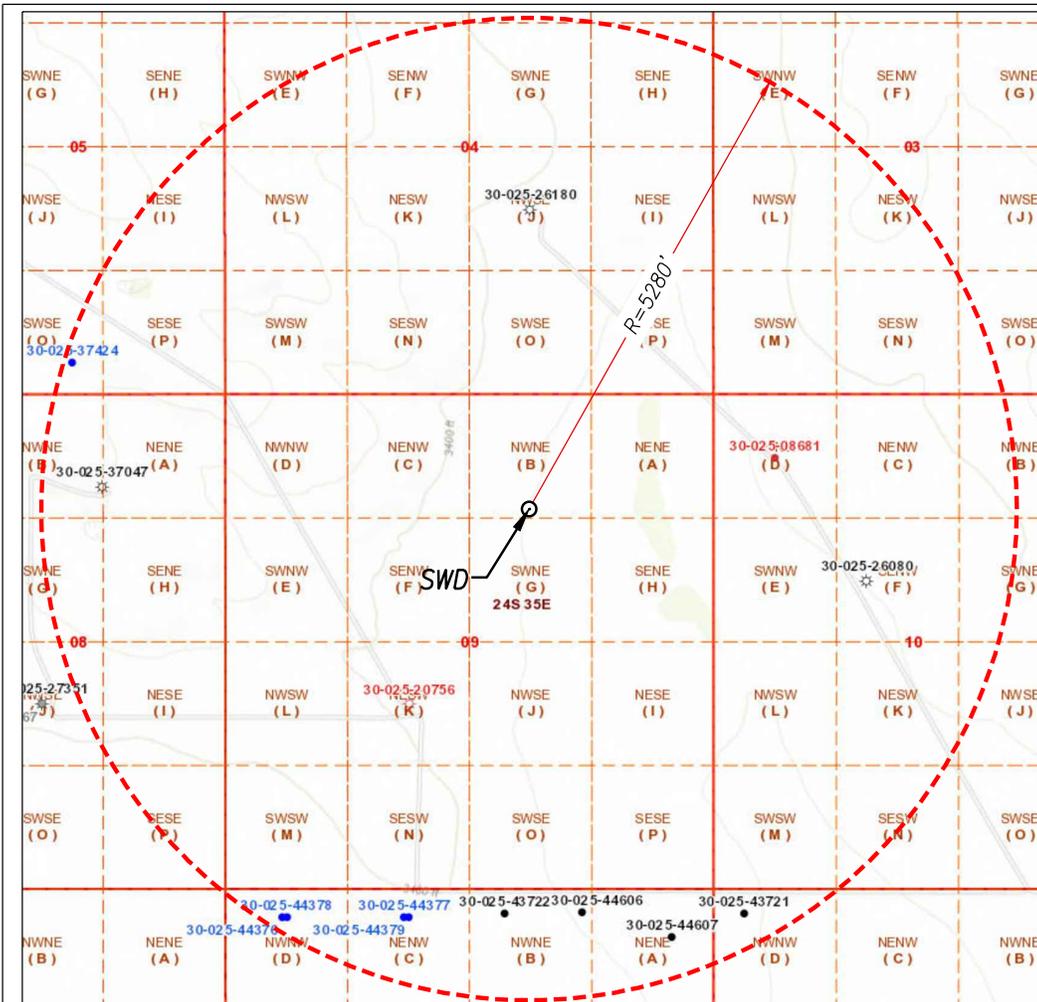
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	9	24-S	35-E		1200	NORTH	1990	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres		Joint or Infill	Consolidation Code		Order No.				

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



LEGEND
○ DENOTES PROPOSED WELL

SURVEYOR CERTIFICATION

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

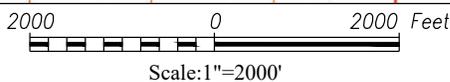
NOVEMBER 11, 2019

Date of Survey: 3239
Signature & Seal of Professional Surveyor:

Ronald J. Eidson 12/26/2019

Certificate Number Gary G. Eidson 12641
Ronald J. Eidson 3239

LSL JWSC W.O.: 19.11.1238



VICINITY MAP



SCALE: 1" = 2 MILES

NOTE:

1) SEE "TOPOGRAPHICAL AND ACCESS ROAD MAP" FOR ACCESS ROAD LOCATION.

SEC. 9 TWP. 24-S RGE. 35-E

SURVEY _____ N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 1200' FNL & 1990' FEL

ELEVATION 3376'

OPERATOR BC & D OPERATING, INC

LEASE JAL PUBLIC LIBRARY TRUST 9-24-35 SWD

I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 5239, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

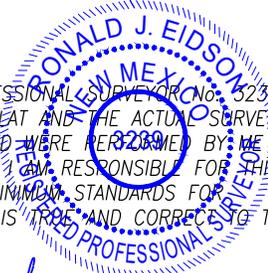
RONALD J. EIDSON Ronald J. Eidson

DATE: 12/26/2019

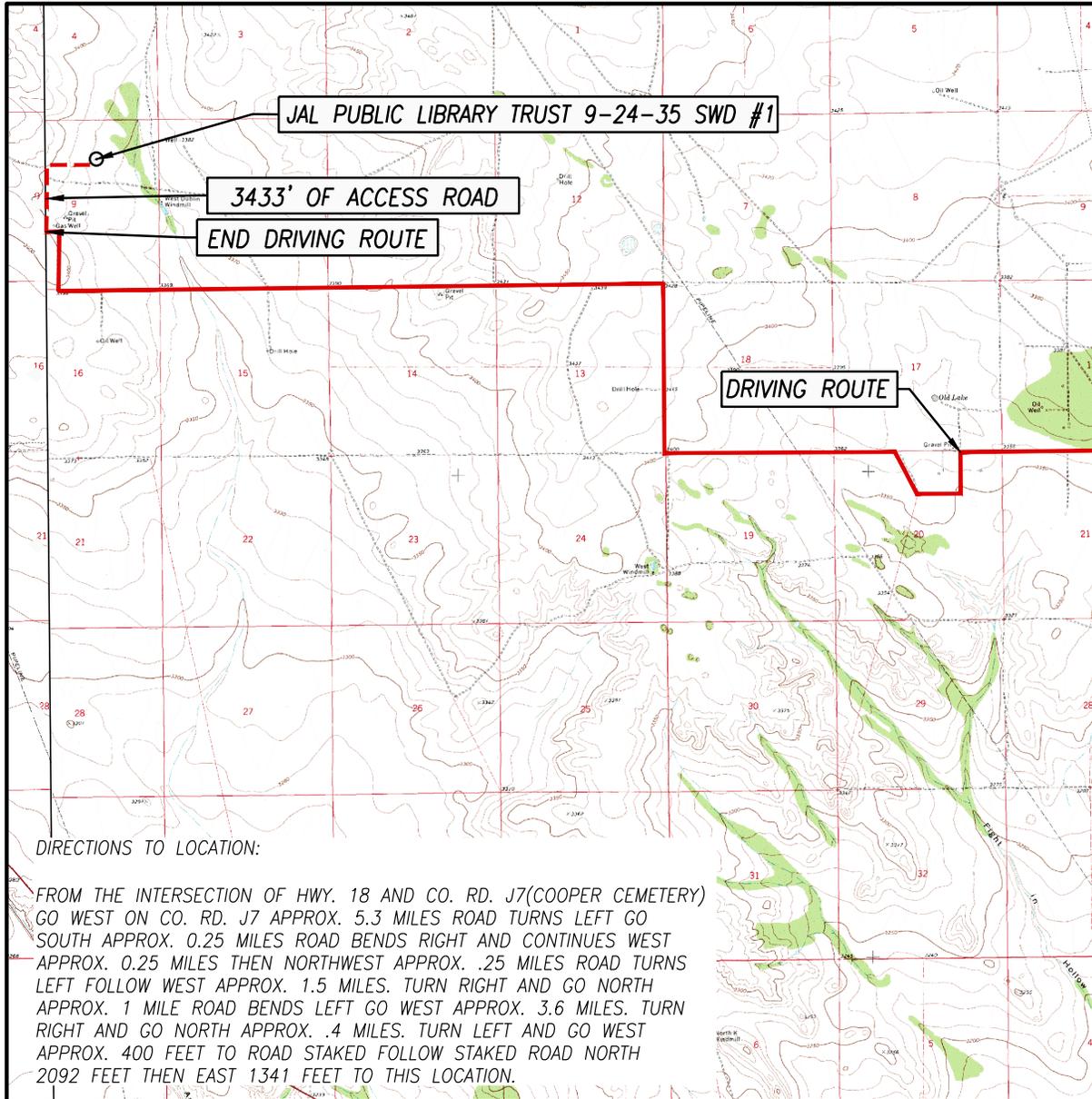
PROVIDING SURVEYING SERVICES SINCE 1946

JOHN WEST SURVEYING COMPANY

412 N. DAL PASO HOBBS, N.M. 88240
 (575) 393-3117 www.jwsc.biz
 TBPLS# 10021000



TOPOGRAPHIC AND ACCESS ROAD MAP



DIRECTIONS TO LOCATION:

FROM THE INTERSECTION OF HWY. 18 AND CO. RD. J7(COOPER CEMETERY) GO WEST ON CO. RD. J7 APPROX. 5.3 MILES ROAD TURNS LEFT GO SOUTH APPROX. 0.25 MILES ROAD BENDS RIGHT AND CONTINUES WEST APPROX. 0.25 MILES THEN NORTHWEST APPROX. .25 MILES ROAD TURNS LEFT FOLLOW WEST APPROX. 1.5 MILES. TURN RIGHT AND GO NORTH APPROX. 1 MILE ROAD BENDS LEFT GO WEST APPROX. 3.6 MILES. TURN RIGHT AND GO NORTH APPROX. .4 MILES. TURN LEFT AND GO WEST APPROX. 400 FEET TO ROAD STAKED FOLLOW STAKED ROAD NORTH 2092 FEET THEN EAST 1341 FEET TO THIS LOCATION.

CONTOUR INTERVAL: CUSTER MOUNTAIN, N.M. - 10'
 SCALE: 1" = 5280'

SEC. 9 TWP. 24-S RGE. 35-E
 SURVEY _____ N.M.P.M.
 COUNTY LEA STATE NEW MEXICO
 DESCRIPTION 1200' FNL & 1990' FEL
 ELEVATION 3376'
 OPERATOR BC & D OPERATING, INC
 LEASE JAL PUBLIC LIBRARY TRUST 9-24-35 SWD
 U.S.G.S. TOPOGRAPHIC MAP
 CUSTER MOUNTAIN, N.M.

I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 3239, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

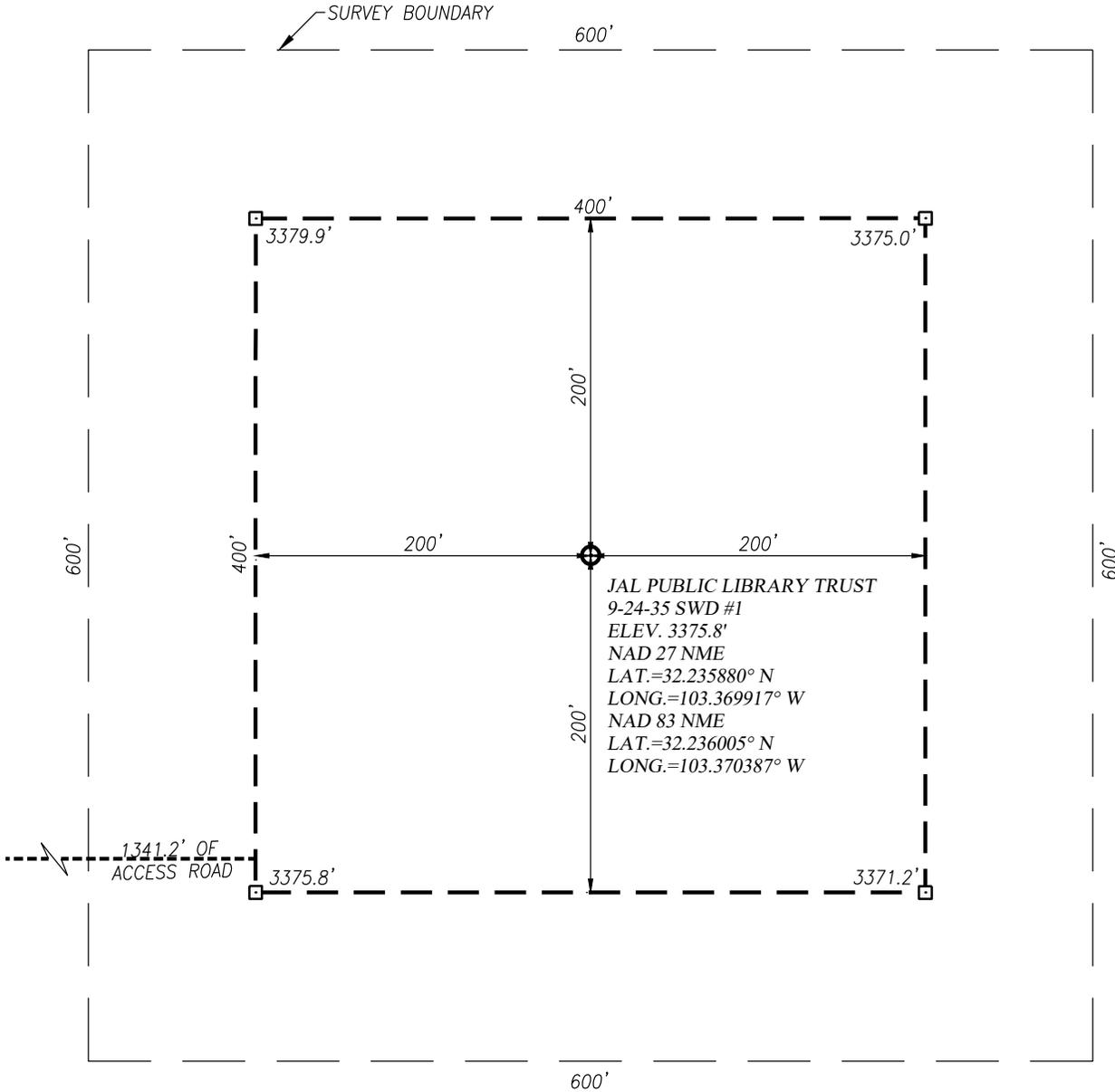
RONALD J. EIDSON *Ronald J. Eidson*
 DATE: 12/26/2019



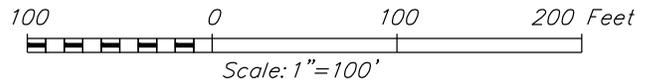
PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO HOBBS, N.M. 88240
 (575) 393-3117 www.jwsc.biz
 TBPLS# 10021000



WELL SITE PLAN



NOTE:
1) SEE "TOPOGRAPHICAL AND ACCESS ROAD MAP" FOR ACCESS ROAD LOCATION.



I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 5239, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



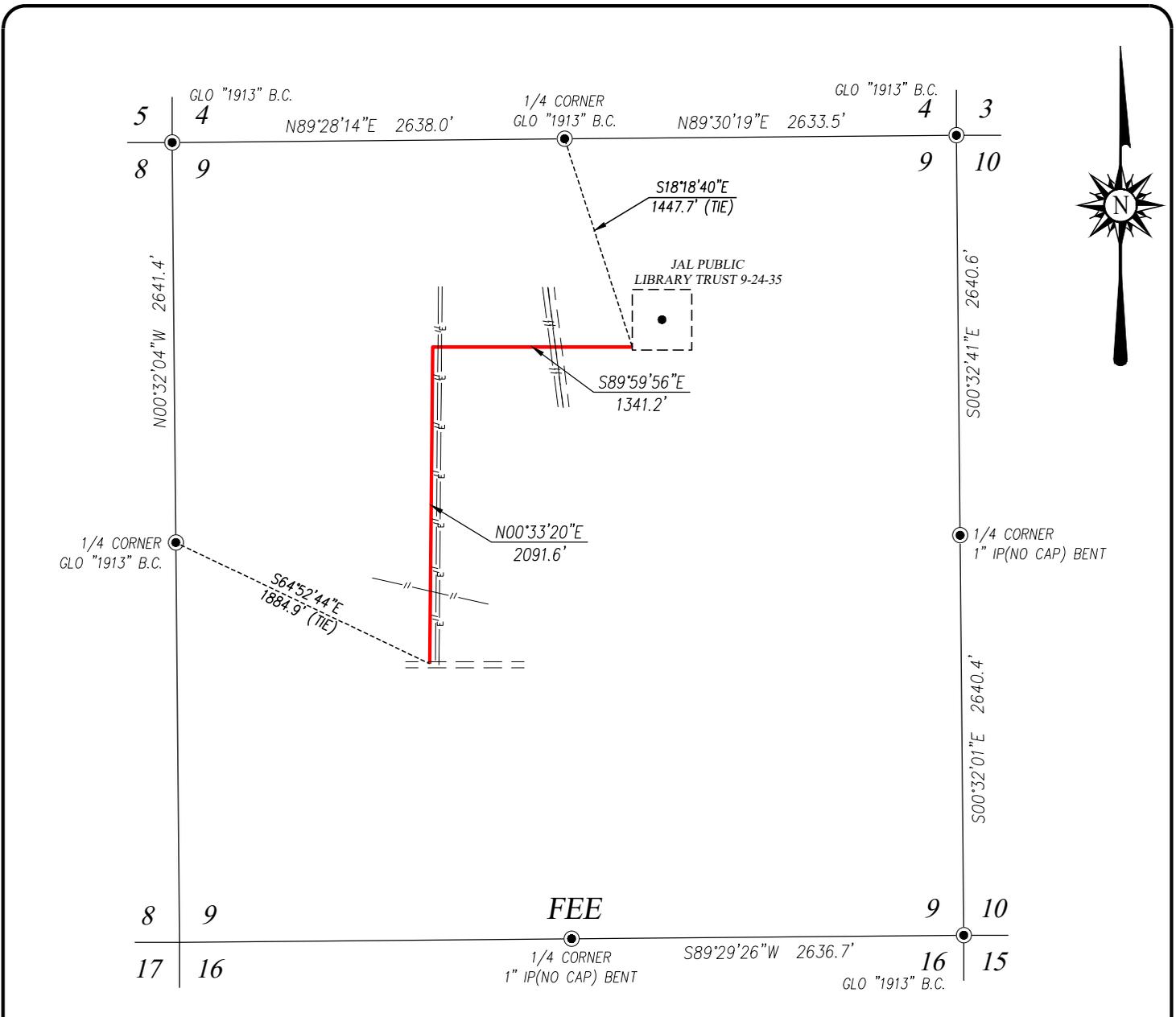
RONALD J. EIDSON *Ronald J. Eidson*
DATE: 12/26/2019

BC & D OPERATING, INC

JAL PUBLIC LIBRARY TRUST 9-24-35 SWD #1 WELL LOCATED 1200 FEET FROM THE NORTH LINE AND 1990 FEET FROM THE EAST LINE OF SECTION 9, TOWNSHIP 24 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

PROVIDING SURVEYING SERVICES SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO HOBBS, N.M. 88240
(575) 393-3117 www.jwsc.biz
TBPLS# 10021000

Survey Date: 11/11/19	CAD Date: 12/24/19	Drawn By: LSL
W.O. No.: 19111238	Rev: .	Rel. W.O.:
		Sheet 1 of 1



DESCRIPTION

SURVEY FOR ACCESS ROAD CROSSING SECTION 9, TOWNSHIP 24 SOUTH, RANGE 35 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE SOUTHWEST QUARTER, WHICH LIES S64°52'44\"/>

TOTAL LENGTH EQUALS 3432.8 FEET OR 208.05 RODS.

NOTE

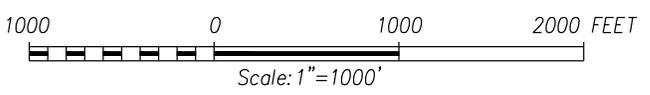
BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM, \"NEW MEXICO EAST ZONE\" NORTH AMERICAN DATUM 1989. DISTANCES ARE SURFACE VALUES.

I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 3239, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH THIS IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT THIS IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

RONALD J. EIDSON *Ronald J. Eidson*
 DATE: 12/27/2019

LEGEND

- - DENOTES FOUND CORNER AS NOTED
- (red line) - DENOTES CENTERLINE SURVEY



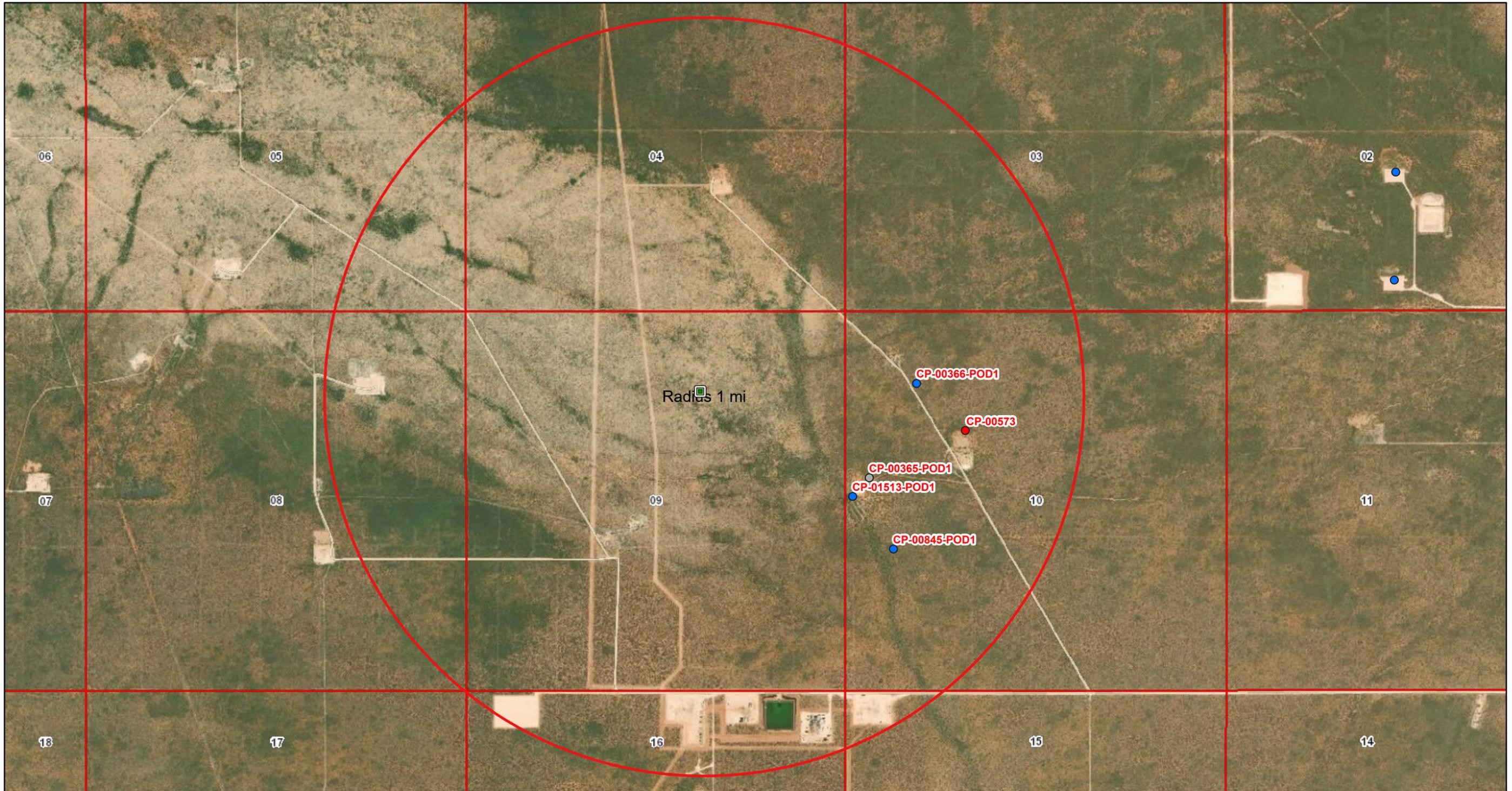
BC & D OPERATING, INC

SURVEY FOR AN ACCESS ROAD
 CROSSING SECTION 9,
 TOWNSHIP 24 SOUTH, RANGE 35 EAST, N.M.P.M.
 LEA COUNTY, NEW MEXICO

PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO HOBBS, N.M. 88240
 (575) 393-3117 www.jwsc.biz
 TBPLS# 10021000

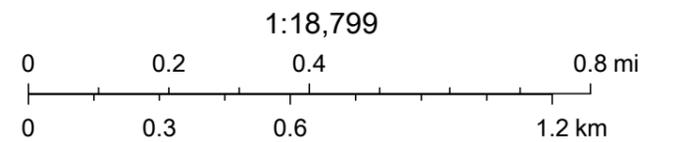
Survey Date: 11/11/19	CAD Date: 12/27/19	Drawn By: LSL
W.O. No.: 19111238	Rev. :	Rel. W.O.:
		Sheet 1 of 1

OSE PUBLIC PRINT



11/22/2019, 9:17:10 AM

- | | | |
|-----------------------|---------|-------------------|
| Override 1 | Active | PLSSFirstDivision |
| Override 1 | Plugged | PLSSTownship |
| OSE District Boundary | | BLM Land Grant |



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

December 17, 2019

DONNIE HILL JR.

BC & D OPERATING

P. O. BOX 302

HOBBS, NM 88241

RE: CP 01513 POD 1

Enclosed are the results of analyses for samples received by the laboratory on 12/09/19 11:32.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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/qa/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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:

BC & D OPERATING P. O. BOX 302 HOBBS NM, 88241	Project: CP 01513 POD 1 Project Number: NOT GIVEN Project Manager: DONNIE HILL JR. Fax To: (575) 942-2005	Reported: 17-Dec-19 09:33
--	--	------------------------------

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CP 01513 POD 1	H904102-01	Water	08-Dec-19 16:00	09-Dec-19 11:32

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 or 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 damage 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

Analytical Results For:

BC & D OPERATING P. O. BOX 302 HOBBS NM, 88241	Project: CP 01513 POD 1 Project Number: NOT GIVEN Project Manager: DONNIE HILL JR. Fax To: (575) 942-2005	Reported: 17-Dec-19 09:33
--	--	------------------------------

**CP 01513 POD 1
H904102-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories

Inorganic Compounds

Alkalinity, Bicarbonate	249		5.00	mg/L	1	9112607	AC	10-Dec-19	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	9112607	AC	10-Dec-19	310.1	
Chloride*	76.0		4.00	mg/L	1	9120305	AC	11-Dec-19	4500-Cl-B	
Conductivity	807		1.00	uS/cm	1	9121003	AC	10-Dec-19	120.1	
pH*	6.92		0.100	pH Units	1	9121003	AC	10-Dec-19	9045	
Sulfate*	71.1		25.0	mg/L	2.5	9121201	AC	12-Dec-19	375.4	
TDS*	477		5.00	mg/L	1	9120506	AC	13-Dec-19	160.1	
Alkalinity, Total*	204		4.00	mg/L	1	9112607	AC	10-Dec-19	310.1	

Green Analytical Laboratories

Total Recoverable Metals by ICP (E200.7)

Calcium*	78.1		1.00	mg/L	10	B912102	AES	13-Dec-19	EPA200.7	
Magnesium*	30.8		1.00	mg/L	10	B912102	AES	13-Dec-19	EPA200.7	
Potassium*	2.94	0.677	10.0	mg/L	10	B912102	AES	13-Dec-19	EPA200.7	J
Sodium*	32.5		10.0	mg/L	10	B912102	AES	13-Dec-19	EPA200.7	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BC & D OPERATING
P. O. BOX 302
HOBBS NM, 88241

Project: CP 01513 POD 1
Project Number: NOT GIVEN
Project Manager: DONNIE HILL JR.
Fax To: (575) 942-2005

Reported:
17-Dec-19 09:33

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 9112607 - General Prep - Wet Chem**Blank (9112607-BLK1)**

Prepared & Analyzed: 02-Dec-19

Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

LCS (9112607-BS1)

Prepared & Analyzed: 02-Dec-19

Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	318	12.5	mg/L				80-120			
Alkalinity, Total	260	10.0	mg/L	250		104	80-120			

LCS Dup (9112607-BSD1)

Prepared & Analyzed: 02-Dec-19

Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	318	12.5	mg/L				80-120	0.00	20	
Alkalinity, Total	260	10.0	mg/L	250		104	80-120	0.00	20	

Batch 9120305 - General Prep - Wet Chem**Blank (9120305-BLK1)**

Prepared & Analyzed: 03-Dec-19

Chloride	ND	4.00	mg/L							
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LCS (9120305-BS1)

Prepared & Analyzed: 03-Dec-19

Chloride	104	4.00	mg/L	100		104	80-120			
----------	-----	------	------	-----	--	-----	--------	--	--	--

LCS Dup (9120305-BSD1)

Prepared & Analyzed: 03-Dec-19

Chloride	104	4.00	mg/L	100		104	80-120	0.00	20	
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Batch 9120506 - Filtration**Blank (9120506-BLK1)**

Prepared: 05-Dec-19 Analyzed: 09-Dec-19

TDS	ND	5.00	mg/L							
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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BC & D OPERATING
P. O. BOX 302
HOBBS NM, 88241

Project: CP 01513 POD 1
Project Number: NOT GIVEN
Project Manager: DONNIE HILL JR.
Fax To: (575) 942-2005

Reported:
17-Dec-19 09:33

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 9120506 - Filtration**LCS (9120506-BS1)**

Prepared: 05-Dec-19 Analyzed: 09-Dec-19

TDS	540		mg/L	527		102	80-120			
-----	-----	--	------	-----	--	-----	--------	--	--	--

Duplicate (9120506-DUP1)

Source: H904051-01

Prepared: 05-Dec-19 Analyzed: 09-Dec-19

TDS	2440	5.00	mg/L		2370			2.96	20	
-----	------	------	------	--	------	--	--	------	----	--

Batch 9121003 - General Prep - Wet Chem**LCS (9121003-BS1)**

Prepared & Analyzed: 10-Dec-19

Conductivity	105000		uS/cm	100000		105	80-120			
--------------	--------	--	-------	--------	--	-----	--------	--	--	--

pH	7.11		pH Units	7.00		102	90-110			
----	------	--	----------	------	--	-----	--------	--	--	--

Duplicate (9121003-DUP1)

Source: H904102-01

Prepared & Analyzed: 10-Dec-19

pH	6.92	0.100	pH Units		6.92			0.00	20	
----	------	-------	----------	--	------	--	--	------	----	--

Conductivity	811	1.00	uS/cm		807			0.494	20	
--------------	-----	------	-------	--	-----	--	--	-------	----	--

Batch 9121201 - General Prep - Wet Chem**Blank (9121201-BLK1)**

Prepared & Analyzed: 12-Dec-19

Sulfate	ND	10.0	mg/L							
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LCS (9121201-BS1)

Prepared & Analyzed: 12-Dec-19

Sulfate	21.3	10.0	mg/L	20.0		106	80-120			
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LCS Dup (9121201-BSD1)

Prepared & Analyzed: 12-Dec-19

Sulfate	18.9	10.0	mg/L	20.0		94.4	80-120	11.9	20	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BC & D OPERATING P. O. BOX 302 HOBBS NM, 88241	Project: CP 01513 POD 1 Project Number: NOT GIVEN Project Manager: DONNIE HILL JR. Fax To: (575) 942-2005	Reported: 17-Dec-19 09:33
--	--	------------------------------

Total Recoverable Metals by ICP (E200.7) - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	-----------	------------	-----------	-------

Batch B912102 - Total Rec. 200.7/200.8/200.2

Blank (B912102-BLK1) Prepared: 12-Dec-19 Analyzed: 13-Dec-19

Potassium	ND	1.00	mg/L						
Sodium	ND	1.00	mg/L						
Magnesium	ND	0.100	mg/L						
Calcium	ND	0.100	mg/L						

LCS (B912102-BS1) Prepared: 12-Dec-19 Analyzed: 13-Dec-19

Calcium	4.06	0.100	mg/L	4.00		102	85-115		
Magnesium	20.5	0.100	mg/L	20.0		103	85-115		
Sodium	3.05	1.00	mg/L	3.24		94.0	85-115		
Potassium	8.08	1.00	mg/L	8.00		101	85-115		

LCS Dup (B912102-BS1) Prepared: 12-Dec-19 Analyzed: 13-Dec-19

Sodium	2.97	1.00	mg/L	3.24		91.7	85-115	2.55	20
Potassium	7.85	1.00	mg/L	8.00		98.1	85-115	2.90	20
Calcium	3.91	0.100	mg/L	4.00		97.7	85-115	3.85	20
Magnesium	19.9	0.100	mg/L	20.0		99.6	85-115	2.98	20

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Notes and Definitions

- J Estimated concentration. Analyte concentration between MDL and RL.
- 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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Celey D. Keene, Lab Director/Quality Manager



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

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 00366 POD1	CP	LE		4	1	1	10	24S	35E	654447	3567834*	1250		
CP 00573	CP	LE		1	4	1	10	24S	35E	654657	3567638*	405	300	105
CP 00845 POD1	CP	LE			1	3	10	24S	35E	654360	3567130*	190		
CP 01513 POD1	CP	LE		3	3	1	10	24S	35E	654184	3567350	186		

Average Depth to Water: **300 feet**

Minimum Depth: **300 feet**

Maximum Depth: **300 feet**

Record Count: 4

Basin/County Search:

Basin: Capitan

County: Lea

PLSS Search:

Section(s): 3, 4, 5, 8, 9, 10, 15, 16, 17 **Township:** 24S **Range:** 35E

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
		Q64	Q16	Q4	Sec	Tw	Rng	X	Y
	CP 00366 POD1	4	1	1	10	24S	35E	654447	3567834*
Driller License:		Driller Company:							
Driller Name: GULF OIL CORP.									
Drill Start Date:		Drill Finish Date:			10/26/1961		Plug Date:		
Log File Date:		PCW Rcv Date:			Source:				
Pump Type:		Pipe Discharge Size:			Estimated Yield: 50 GPM				
Casing Size: 13.63		Depth Well:			1250 feet		Depth Water:		

*UTM location was derived from PLSS - see Help

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11/20/19 2:18 PM

POINT OF DIVERSION SUMMARY

676 Leo

Revised June 1972

STATE ENGINEER OFFICE
WELL RECORD

SANTA FE

Section 1. GENERAL INFORMATION

Cinta Rojo State # 1

(A) Owner of well Getty Oil Co. Owner's Well No. _____
Street or Post Office Address P.O. Box 730
City and State Hobbs, New Mexico 88240

Well was drilled under Permit No. CP-573 and is located in the:
a. ^{SW} ~~SW~~ ^{SE} ~~SE~~ ^{NW} ~~NW~~ ^{NE} ~~NE~~ of Section 10 Township 24S Range 35E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Abbott Bros. License No. WD-46
Address P.O. Box 637, Hobbs, New Mexico 88240

Drilling Began 9/28/78 Completed 10/12/78 Type tools Cable Size of hole 8 1/2 in.
Elevation of land surface or _____ at well is _____ ft. Total depth of well 405 ft.
Completed well is shallow artesian. Depth to water upon completion of well 300 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
300	405	105	Sand	20

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
5 1/2		Welded	0	406	406	None	355	405

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

STATE ENGINEER OFFICE
SANTA FE, N.M. 87501
SEP 11 PM 11

FOR USE OF STATE ENGINEER ONLY

Date Received October 19, 1978
Quad FWL FSL _____
File No. CP-573 Use OWD Location No. 24.35.10.14311
Dry Hole - Not used

Revised June 1972

ORIGINAL DOCUMENT IS OF POOR QUALITY FOR LEGIBLE MICROFILM

STATE ENGINEER OFFICE WELL RECORD

474600
S.F.

Section 1. GENERAL INFORMATION

(A) Owner of well GETTY OIL COMPANY Owner's Well No. _____
Street or Post Office Address P.O. Box 730
City and State Hobbs, New Mexico 88240

Well was drilled under Permit No. CP-573 and is located in the:

a. 1/4 SW 1/4 SE 1/4 NW 1/4 of Section 10 Township 24 S Range 35 E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Lea County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor _____ License No. _____
Address _____

Drilling Began _____ Completed _____ Type tools _____ Size of hole _____ in.
Elevation of land surface or _____ at well is _____ ft. Total depth of well _____ ft.
Completed well is shallow artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placing
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor GETTY OIL COMPANY
Address P.O. Box 730, Hobbs, N.M. 88240
Plugging Method Redi-Mix *
Date Well Plugged 11/1/78
Plugging approved by: [Signature]
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1	Surface	TD	54
2		(406')	
3			
4	*Filled casing with 2 yds of redi-mix concrete		

STATE ENGINEER OFFICE
SANTA FE, N.M. 87501
SEP 11 11 17 AM '80

FOR USE OF STATE ENGINEER ONLY

Date Received August 29, 1980

Quad _____ FWL _____ FSL _____

File No. CP-573 Use OWD Location No. 24.35.10.14311



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00573	1	4	1	10	24S	35E	654657	3567638*

Driller License: 46	Driller Company: ABBOTT BROTHERS COMPANY	
Driller Name: ABBOTT, MURRELL		
Drill Start Date: 09/28/1978	Drill Finish Date: 10/12/1978	Plug Date: 11/01/1978
Log File Date: 10/19/1978	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 20 GPM
Casing Size: 5.50	Depth Well: 405 feet	Depth Water: 300 feet

Water Bearing Stratifications:	Top	Bottom	Description
	300	405	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	355	405

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)					(NAD83 UTM in meters)		
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00845 POD1	1	3	10	24S	35E		654360	3567130*
Driller License: 122		Driller Company: UNKNOWN							
Driller Name: WAGNER DRILLING									
Drill Start Date:		Drill Finish Date: 01/01/1962			Plug Date:				
Log File Date:		PCW Rcv Date:			Source: Shallow				
Pump Type:		Pipe Discharge Size:			Estimated Yield:				
Casing Size: 6.00		Depth Well: 190 feet			Depth Water:				

*UTM location was derived from PLSS - see Help

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11/20/19 2:07 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)				(NAD83 UTM in meters)			
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 01513 POD1	3	3	1	10	24S	35E	654184	3567350

Driller License: 1607	Driller Company: DURAN DRILLING	
Driller Name: DURNA, LUIS A. (TONY)		
Drill Start Date: 06/29/2015	Drill Finish Date: 06/30/2015	Plug Date:
Log File Date: 07/13/2015	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 1 GPM
Casing Size: 6.00	Depth Well: 186 feet	Depth Water:

Water Bearing Stratifications:	Top	Bottom	Description
	178	181	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	165	185

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11/22/19 8:47 AM

POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) 1			OSE FILE NUMBER(S) CP-1513				
	WELL OWNER NAME(S) JAL PUBLIC LIBRARY FUND / JONH WILBANKS			PHONE (OPTIONAL) 575-395-2464				
	WELL OWNER MAILING ADDRESS P.O. BOX 178			CITY JAL	STATE NM	ZIP 88252		
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 13	SECONDS 56	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LATITUDE 103			* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW 1/4, SW 1/4, NW 1/4, SECTION 10, TOWNSHIP 24S, RANGE 35E								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD-1607	NAME OF LICENSED DRILLER LUIS A. (TONY) DURAN			NAME OF WELL DRILLING COMPANY DURAN DRILLING			
	DRILLING STARTED 6-29-15	DRILLING ENDED 6-30-15	DEPTH OF COMPLETED WELL (FT) 186	BORE HOLE DEPTH (FT) 185	DEPTH WATER FIRST ENCOUNTERED (FT) 178			
	COMPLETED WELL IS: <input type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input checked="" type="radio"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT)			
	DRILLING FLUID: <input type="radio"/> AIR <input type="radio"/> MUD				ADDITIVES - SPECIFY: DRILLING MUD			
	DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	165	8 3/4	PVC	PVC PERF	6	1/4	-
	165	185	8 3/4	PVC PERF	PVC	6	1/4	.035
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	20	8 3/4	12 BGS 80 LBS CEMENT		MIXER		
	20	185	8 3/4	4 YARDS, 3/8 GRAVEL PACK				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER CP-1513	POD NUMBER 1	TRN NUMBER 569371
LOCATION 24S.10.35E.1.3.3	PAGE 1 OF 2	

Dom -

DEPTH (feet bgl)	THICKNESS (feet)		COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO			
0	1	1	TOPSOIL	<input type="radio"/> Y <input checked="" type="radio"/> N	
1	20	19	CALICHE	<input type="radio"/> Y <input checked="" type="radio"/> N	
20	51	31	SAND	<input type="radio"/> Y <input checked="" type="radio"/> N	
51	54	3	ROCK	<input type="radio"/> Y <input checked="" type="radio"/> N	
54	58	4	SAND	<input type="radio"/> Y <input checked="" type="radio"/> N	
58	158	100	ROCK	<input type="radio"/> Y <input checked="" type="radio"/> N	
158	160	2	CLAY	<input type="radio"/> Y <input checked="" type="radio"/> N	
160	174	14	SAND / GRAVEL	<input type="radio"/> Y <input checked="" type="radio"/> N	
174	178	4	CLAY	<input type="radio"/> Y <input checked="" type="radio"/> N	
178	181	3	SAND / GRAVEL	<input checked="" type="radio"/> Y <input type="radio"/> N	1
181	183	2	BLUE CLAY	<input type="radio"/> Y <input checked="" type="radio"/> N	
183	185	2	RED CLAY	<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
				<input type="radio"/> Y <input type="radio"/> N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="radio"/> PUMP				TOTAL ESTIMATED WELL YIELD (gpm): 1	
<input type="radio"/> AIR LIFT <input checked="" type="radio"/> BAILER <input type="radio"/> OTHER - SPECIFY:					

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: LUIS A. DURAN	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	6-30-15 DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	CP-1513	POD NUMBER	(TRN NUMBER	569371
LOCATION	24S.10.35E.1.3.3				Dum-

Water Sample Analysis

Pool	Location			Chlorides
	Section	Township	Range	
North Justis Montoya	2	25S	37E	45440
North Justis McKee	2	25S	37E	58220
North Justis Fusselman	2	25S	37E	68533
North Justis Ellenburger	2	25S	37E	34151
Fowler Blinbry	22	24S	37E	116085
Skaggs Grayburg	18	20S	38E	84845
Warren McKee	18	20S	38E	85910
Warren Abo	19	20S	39E	91600
DK Drinkard	30	20S	39E	106855
Littman San Andres	8	21S	38E	38695
East Hobbs grayburg	29	18S	39E	6461
Halfway Yates	16	20S	32E	14768
Arkansas Junction San Andres	12	18S	36E	7171
Pearl Queen	28	19S	35E	114310
Midway Abo	17	17S	37E	36494
Lovinton Abo	31	16S	37E	22933
Lovington San Andres	3	16S	37E	4899
Lovington Paddock	31	16S	37E	93720
Mesa Queen	17	16S	32E	172530
Kemnitz Wolfcamp	27	16S	34E	49345
Hume Queen	9	16S	34E	124960
Anderson Ranch Wolfcamp	2	16S	32E	11040
Anderson Ranch Devonian	11	16S	32E	25702
Anderson Ranch Unit	11	16S	32E	23788
Caudill Devonian	9	15S	36E	20874
Townsend Wolfcamp	6	16S	38E	38695
Dean Perno Penn	5	16S	37E	44730
Dean Devonian	35	15S	36E	19525
South Denton Wolfcamp	26	15S	37E	54315
South Denton Devonian	36	15S	37E	34080
Medicine Rock Devonian	15	15S	38E	39760
Little Lucky Lake Devonian	29	15S	30E	23288
Wantz Abo	26	21S	37E	132770
Crosby Devonian	18	25S	37E	58220
Scarborough Yates Seven Rivers	7	26S	37E	3443(Reef)
Teague Simpson	34	23S	37E	114665
Teague Ellenburger	34	23S	37E	120345
Rhodes Yates 7 Rivers	27	26S	37E	144485
House SA	11	20S	38E	93365
House Drinkard	12	20S	38E	49700
South Leonard Queen	24	26S	37E	115375
Elliot Abo	2	21S	38E	55380
Scharb Bone Springs	5	19S	35E	30601
EK Queen	13	18S	34E	41890
East EK Queen	22	18S	34E	170630
Maljamar Grayburg SA	22	17S	32E	46079
Maljamar Paddock	27	17S	32E	115375
Maljamar Devonian	22	17S	32E	25418

Advertising Invoice

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RICHARD HILL
 BC&D OPERATING
 PO BOX 302
 HOBBS , NM 88241

Cust#: 67115820
 Ad #: 00236120
 Phone: (405)837-8147
 Date: 11/14/2019
 Salesperson: Ad Taker: Kayla

Sort Line: LEGAL NOTICE NOVEMBER 17, 201

Class: 672

Description	Start	Stop	Ins.	Cost/Day	Amount
AFF2 Affidavits (Legals)					6.25
BOLD bold					1.00
07 07 Daily News-Sun	11/17/2019	11/17/2019	1	43.56	43.56

Ad Text:

LEGAL NOTICE
 NOVEMBER 17, 2019

BC&D Operating, INC, P.O. BOX 302 Hobbs, NM 88241, is filing a form C-108 (Application for Authorization to inject) with the Oil Conservation Division seeking administrative approval to utilize the Jal Public Library Trust 9-24-35 SWD as a Commercial Salt Water Disposal well.

The Jal Public Library Trust 9-24-35 SWD is located at 1,200' FNL & 1,990 FEL, Sec. 9, T24S, R35E, Lea County New Mexico. The well will dispose of water produced from oil and gas wells into the

Payment Reference:

Total:	50.81
Tax:	3.46
Net:	54.27
Prepaid:	0.00
Total Due	54.27

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

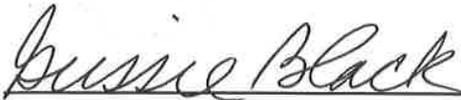
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
November 17, 2019
and ending with the issue dated
November 17, 2019.

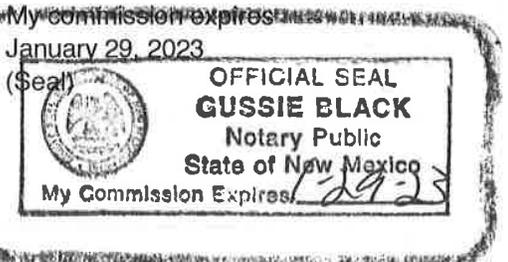


Publisher

Sworn and subscribed to before me this
17th day of November 2019.



Business Manager



LEGAL **LEGAL**

LEGAL NOTICE
NOVEMBER 17, 2019

BC&D Operating, INC, P.O. BOX 302 Hobbs, NM 88241, is filing a form C-108 (Application for Authorization to inject) with the Oil Conservation Division seeking administrative approval to utilize the Jal Public Library Trust 9-24-35 SWD as a Commercial Salt Water Disposal well.

The Jal Public Library Trust 9-24-35 SWD is located at 1,200' FNL & 1,990 FEL, Sec. 9, T24S, R35E, Lea County New Mexico. The well will dispose of water produced from oil and gas wells into the Devonian-Silurian Formations from 15,500' - 17,500' at a maximum rate of 40,000 barrel of water per day with a maximum pressure of 3,100 psi.

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.

Additional information can be obtained by contacting BC&D Operating, Inc at (405) 837-8147.
#34867

67115835

00236120

RICHARD HILL
BC&D OPERATING
PO BOX 302
HOBBS , NM 88241

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

BC&D Operating, Inc

P.O. Box 302 Hobbs, NM 88241
(405) 837-8147

November 14, 2019

BC&D Operating, INC, P.O. BOX 302 Hobbs, NM 88241, is filing a form C-108 (Application for Authorization to inject) with the Oil Conservation Division seeking administrative approval to utilize the Jal Public Library Trust 9-24-35 SWD as a Commercial Salt Water Disposal well.

The Jal Public Library Trust 9-24-35 SWD is located at 1,200' FNL & 1,990 FEL, Sec. 9, T24S, R35E, Lea County New Mexico. The well will dispose of water produced from oil and gas wells into the Devonian-Silurian Formations from 15,500' – 17,500' at a maximum rate of 40,000 barrel of water per day with a maximum pressure of 3,100 psi.

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.

Additional information can be obtained by contacting BC&D Operating, Inc at (405) 837-8147.

BC&D Operating, Inc

P.O. Box 302 Hobbs, NM 88241
(405) 837-8147

November 29, 2019

Surface Owner / Offset Operators

Re: Notification of Application for Authorization to Inject into the Jal Public Library Trust 9-24-35 SWD.

Ladies and Gentlemen:

BC&D Operating, Inc is seeking administrative approval to utilize the Jal Public Library Trust 9-24-35 SWD (new drill) as a Salt Water Disposal well. As required by the New Mexico Oil Conservation Division Rules, we are notifying you of the following proposed salt water disposal well. This letter is a notice only and no action is required unless you have questions or objections.

<u>Well:</u>	Jal Public Library Trust 9-24-35 SWD
<u>Proposed Disposal Zone:</u>	Devonian Formation (15,500' – 17,500')
<u>Location:</u>	1,200' FNL & 1,990 FEL, Sec. 9, T24S, R35E, Lea Co., NM
<u>Applicants Name:</u>	BC&D Operating, Inc
<u>Applicants Address:</u>	P.O. Box 302, Hobbs, NM 88241

This application for water disposal well will be filed with the New Mexico Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Conservation Division address is 1220 South St. Francis Dr., Santa Fe NM 87505 and their phone number is (505) 476-3460.

Please call Richard Hill with BC&D Operating, Inc if you have any questions at (405) 837-8147.

Sincerely,

Richard Hill

BC&D Operating, Inc

P.O. Box 302 Hobbs, NM 88241
(405) 837-8147

U.S. – BLM

620 E. Green St.
Carlsbad, NM 88220

NM State Land Office

310 Old Santa Fe Trail
Santa Fe, NM 87501

Jal Public Library Fund

P.O. Box 178
Jal NM 88252-0178

Rubert F. Madera

P.O. Box 2795
Ruidoso NM 88355

Chevron Midcontinent, L.P

6301 Deauville Blvd.
Midland, Tx 79706

BTA Oil Producers, LLC

104 S. Pecos St
Midland, Tx 79701

Magnum Hunter Production

600 N Marienfeld Street
Midland, Tx 79701

McKay Petroleum Corp

P.O. Box 2014
Roswell, NM 88202

Blackbeard Operating

200 N. Loraine, Suite 300
Midland, Tx 79701

COG Operating, LLC

One Concho Center
600 W Illinois Ave
Midland, Tx 79701

BC&D Operating, Inc

P.O. Box 302 Hobbs, NM 88241
(405) 837-8147

Devon Energy Production Co LP

333 West Sheridan Avenue
Oklahoma City, OK 73102

Diamondback Energy

500 W Texas Ave #1200
Midland, Tx 79701

Robert E. Landreth

110 W. Louisiana
Midland, Tx 79701

Franklin Mountain Energy

2401 E 2nd Ave, Suite 300
Denver, Co 80206

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Jal Public Library Fund
P.O. Box 178
Jal, NM 88252-0178

Jal Public Library
TRUST 9-24-35 SWD

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620 E. Green St.
Carlsbad, NM 88220

Jal Public
Library TRUST
9-24-35 SWD

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Rubert F. Madera
P.O. Box 2795
Ruidoso, NM 88355

Jal Public
Library TRUST
9-24-35 SWD

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NMSLO
310 Old Santa Fe Trail
Santa Fe, NM 87501

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9-24-35 SWD

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Diamondback Energy
500 W. Texas Ave #1200
Midland, Tx 79701

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Library TRUST
9-24-35 SWD

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BTA Oil Producers, LLC
104 S. Pecos St.
Midland, Tx 79701

Jal Public
Library TRUST
9-24-35 SWD

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COG Operating, LLC
 One Concho Center
 600 W Illinois Ave
 Midland, Tx 79701

Jal Public
 Library TRUST
 9-24-35 SWD

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Devon Energy Production Co
 333 West Sheridan Avenue
 Oklahoma City, OK 73102

Jal Public
 Library TRUST
 9-24-35 SWD

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Franklin Mountain Energy
 2401 E 2nd Ave, Suite 300
 Denver, Co 80206

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Chevron Midcontinent, L.P.
 6301 Deauville Blvd.
 Midland, Tx 79706

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 9-24-35 SWD

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Black Beard Operating
 200 N. Loraine, Suite 300
 Midland, Tx 79701

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Magnum Hunter Production
 600 N. Marienfeld St.
 Midland, Tx 79701

Jal Public
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McKay Petroleum Corp
 P.O. 2014
 Roswell, NM 88202

JAL Public
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9-24-35 SWD

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Robert E. Landreth
 110 W. Louisiana
 Midland, Tx 79701

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Library TRUST
9-24-35 SWD

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API	Well Name	Well Number	Operator	County	Target Formation	TD (MD)	TD (TVD)	Well Status	Spud Date	Drill Type	Section	Township	Range
30025207560000	Custer Mountain Unit	1	Chesapeake Energy	Lea	Morrow	16590	16590	P&A	8/29/1963	V	9	24S	35E
30002526080000	Cinta Rojo	10	Concho Resources	Lea	Morrow	14600	14600	Active	11/4/1978	V	10	24S	35E
30025273510000	Cinta Rojo	8	Chevron	Lea	Morrow	14552	14552	Active	5/6/1981	V	8	24S	35E
30025370470000	Cinta Rojo	8	Chevron	Lea	Morrow	14400	14400	Active	1/24/2005	V	8	24S	35E
30025375380000	Cinta Rojo	3	Occidental Petro	Lea	Morrow	14404	14404	Active	11/27/2005	V	5	24S	35E
30025261800000	Cinta Rojo	4	Franklin Mountain Energy	Lea	Morrow	14340	14340	Active	2/24/1979	V	4	24S	35E
30025300620000	Cinta Rojo 17 Fed Com	1	Enron Oil & Gas	Lea	Morrow	15350	15350	P&A	12/6/1987	V	17	24S	35E

Custer Mountain Federal Unit 1
 1,980' FSL & 1,980' FWL
 Sec 9, T24S, R35E
 Lea County, NM

Surface - (Conventional)

Hole Size
 Casing 20" - 94# H-40 Casing
 Depth Top: Surface
 Depth Bottom: 390
 Cement: 580 sxs

Cement Top: Surface - (circulated)

Perfed at 440', squeezed
 290 sxs to surface

Surface

Intermediate #1 - (Conventional)

Hole Size
 Casing 13-3/8" - 61# N-80 Casing
 Depth Top: Surface
 Depth Bottom: 5,240'
 Cement: 4,709 sxs

Cement Top: Surface - (circulated)

Perfed at 1,100', Squeezed
 120 sxs, TOC 912'
 Perfed at 3,500', squeezed
 60 sxs, TOC 3,327'.

Intermediate #1

Intermediate #2 - (Conventional)

Hole Size
 Casing 9-5/8" - 47# P-110 Casing
 Depth Top: Surface
 Depth Bottom: 12,456'
 Cement:

Cement Top:

50 sxs cement plug 8,634' -
 8,985'.
 Perfed at 8,935', unable to
 squeeze
 50 sxs cement plug 10,386' -
 10,680'.
 Perfed at 10,680', unable to
 squeeze
 30 sxs cement plug 11,417' -
 11,625'. Top tagged.

Intermediate #2

Intermediate #3 - (Liner)

Hole Size
 Casing 7"
 Depth Top: 12,118'
 Depth Bottom: 15,360'
 Cement:
 Cement Top: 12,118'

Perfed at 11,575', unable to
 squeeze
 Cast Iron Bridge plug at 14,128'.
 80 sxs cement plug 13,460' -
 14,128'.

Intermediate #3 (Liner)

Intermediate #4 - (Open Hole)

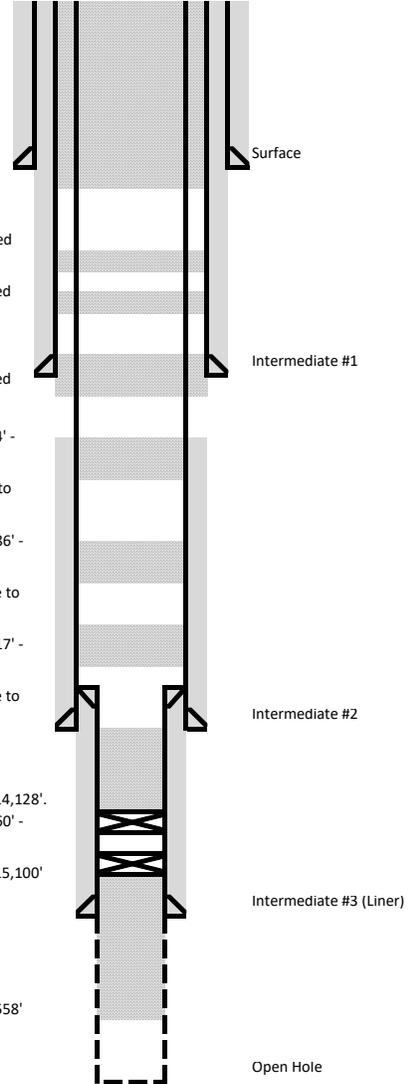
Hole Size
 Casing Open Hole
 Depth Top:
 Depth Bottom: 16,590'

Cast Iron Bridge plug at 15,100'
 with 2 sxs cement.

DST with no fluid entry

50 sxs plug 15,295' - 15,558'

Open Hole



Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP
(Other instruction
verse side)

TE*
re-

Form approved.
Budget Bureau No. 42-R1424.

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" for such proposals.)

HOBBS OFFICE O. G. C.

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Midwest Oil Corporation	8. FARM OR LEASE NAME Custer Mountain Unit
3. ADDRESS OF OPERATOR 1500 Wilco Bldg., Midland, Texas	9. WELL NO. 1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1980' FSL & 1980' FSL of Sec. 9, T-24-S, R-35-E, Lea County, New Mexico	10. FIELD AND POOL, OR WILDCAT Wildcat
14. PERMIT NO.	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 9, T-24-S, R-35-E
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3389 DF	12. COUNTY OR PARISH Lea County
	13. STATE New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO :		SUBSEQUENT REPORT OF :	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OIL ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Plug Back to 15,000	<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

3-1-64 Spotted 50 sack cement plug from 15,295 to 15,558. Set Baker east Iron Bridge Plug at 15,100; spotted 2 sack of cement on top of plug. This well was Drill Stem Tested over the interval 15,360' to 16,590'. There was no fluid entry into the borehole from any zone within this interval.

18. I hereby certify that the foregoing is true and correct

SIGNED *[Signature]* TITLE **District Clerk** DATE **4-22-64**

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

HOBBS OCD

OCD - Hobbs FORM APPROVED OMB NO 1004-0135 Expires July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

JUL 11 2011

SUBMIT IN TRIPLICATE - Other instructions on reverse RECEIVED

5. Lease Serial No. NMNM01228A
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No.
8. Well Name and No. CUSTER MOUNTAIN 01
9. API Well No. 30-025-20756-00-S1
10. Field and Pool, or Exploratory CINTA ROJO
11. County or Parish, and State LEA COUNTY, NM

1. Type of Well Oil Well Gas Well Other
2. Name of Operator CHESAPEAKE OPERATING INC Contact: LYNDEE SONGER E-Mail: lyndee.songer@chk.com
3a. Address OKLAHOMA CITY, OK 73154-0496
3b. Phone No (include area code) Ph: 405.935.2411
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 9 T24S R35E NESW 1980FSL 1980FWL

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

Table with 2 main columns: TYPE OF SUBMISSION and TYPE OF ACTION. Includes checkboxes for Notice of Intent, Subsequent Report, Final Abandonment Notice, Acidize, Deepen, Production (Start/Resume), Water Shut-Off, etc.

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BLA Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)
5/20/2011 SET 5 1/2 CIBP @ 14,128'. RECLAMATION DUE 12-13-11
5/23/2011 TBG @ 14,128' CIRC HOLE W/MLF.
5/24/2011 TBG @ 14,218' AS PER MARLIN DEATON COMBINE PLUGS 14,128'-13,460'. SPOT 80 SXS CLASS H CMT DISPLACE TOC TO 13,416'.
5/25/2011 PERF @ 11,575' PKR @ 9,115 UNABLE TO SQUEEZE.
5/31/2011 TBG @ 11,625' SPOT 30 SXS CMT H DISP TOC TO 11,358' TAG @ 11,417'.
6/1/2011 PERF @ 10,680' PKR @ 8,725' UNABLE TO SQUEEZE. TBG @ 10,680' SPOT 30 SXS CMT H DISP TOC

Accepted as to plugging of the well bore. Liability under bond is retained until surface restoration is completed.

14. I hereby certify that the foregoing is true and correct
Electronic Submission #110881 verified by the BLM Well Information System For CHESAPEAKE OPERATING INC, sent to the Hobbs Committed to AFMSS for processing by DEBORAH MCKINNEY on 06/20/2011 (11KMS0016SE)
Name (Printed/Typed) LYNDEE SONGER Title REGULATORY COMPLIANCE ANALYST
Signature (Electronic Submission) Date 06/20/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED JAMES A AMOS Title SUPERVISOR EPS Date 07/06/2011
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

** BLM REVISED **

JUL 11 2011

Additional data for EC transaction #110881 that would not fit on the form

32. Additional remarks, continued

TO 10,463' TAG @ 10,546'.

6/2/2011 TBG @ 10,564' SPOT 20 SXS CMT H DISP TOC TO 10,386'. PERF @ 8,935' PKR @ 7,859' UNABLE TO SQUEEZE PRESSURE HOLDING 600#. TBG @ 8,985' SPOT 35 SXS CMT H DISP TOC TO 8,675' TAG @ 8,802'.

6/3/2011 TBG @ 8,802' SPOT 20 SXS H CMT DISP TOC 8,634'. PERF @ 5,370' PKR @ 4,960' SQUEEZE 60 SXS CMT DISP TOC TO 5,190' TAG @ 5,154'.

6/7/2011 PERF @ 3,500' PKR @ 3,124' SQUEEZE 60 SXS CMT DISP TOC TO 3,330' TAG @ 3,327'.

6/8/2011 PERF @ 1,100' SQUEEZE 120 SXS DISP TOC TO 960' TAG @ 912'.

6/9/2011 PERF @ 440' PKR 30' CIRC 290 SXS CMT TO SURF 5 1/2 X 9 5/8 & 9 5/8 X 13 7/8 ANNULUS.

6/16/2011 BASIC CUT OFF WELLHEAD AND INSTALLED DRY HOLE MARKER. FINAL REPORT.

BIDS ARE BEING CONDUCTED TO BEGIN REMEDIATING SITE.

(CHK PN 890689)

BC&D Operating, Inc

Well: Jal Public Library Trust 9-24-35 SWD

Casing Assumptions

Section	Hole Size	Csg Size	Drift	From (MD)	To (MD)	From (TVD)	To (TVD)	Tapered String	Weight (lbs)	Grade	Conn.	Collapse	Burst	Body Tension	Joint Tension	Dry/Buoyant	Mud Weight (ppg)
Surface	26.000	20	18.937	0	1250	0	1250	No	94	J-55	BTC	520	2110	1480	1402	Dry	8.4
Intermediate #1	17.500	13.375	12.359	0	5200	0	5200	No	61	HCL-80	BTC	2060	4500	1399.00	1399	Dry	9.7
Intermediate #2	12.250	9.625	8.679	0	12650	0	12650	No	40	HCL-80	BTC	3870	5750	916.00	947	Dry	9.2
Intermediate #3	8.500	7	6	12450	15900	12450	15900	No	32	P110HC	SpCL BTC	11890	12450	1025.00	1053	Dry	12.5

Safety Factors

Section	Csg Size	Weight (lbs)	Grade	Collapse	Burst	Body Tension	Joint Tension
Surface	20	94	J-55	1.919	7.786	12.596	11.932
Intermediate #1	13.375	61	HCL-80	1.393	3.043	4.410	4.410
Intermediate #2	9.625	40	HCL-80	1.184	1.759	1.810	1.872
Intermediate #3	7	32	P110HC	1.739	1.821	2.015	2.070

Clearance

Hole Size	Conn.	Tube OD	Drift	Conn. OD	Tube Clearance	Conn. Clearance
26.000	BTC	20.000	18.937	21.000	3.000	2.500
17.500	BTC	13.375	12.359	14.375	2.063	1.563
12.250	BTC	9.625	8.679	10.625	1.313	0.813
8.500	SpCL BTC	7.000	6.000	7.375	0.750	0.563

Criteria

Collapse	1.125
Burst	1.125
Body Tension	2
Joint Tension	2

Engineering Notes:

Please see the the special clearance BTC conn. Being used with 7" casing. It has a coupling OD of 7.375" and will yield a 0.563" clearance inside of open hole. All collapse values assume vacated pipe with a gas gradient of .22 psi/ft. Body and joint tension values assume vacated pipe with no buoyancy factors.

BC&D Operating, Inc

Well: Jal Public Library Trust 9-24-35 SWD

Circulating Medium Table

Section	Hole Size	Top Depth	Bottom Depth	Mud Type	Min Mud Weight (ppg)	Max Mud Weight (ppg)	Gel Strength (lbs/100 sqft)	PH	Viscosity	Salinity (ppm)	Filtration	Additional Characteristics
Surface	26.000	0	1250	Fresh Water	8.4	8.4	-	7.5-8.5	28-36	-	N/C	
Intermediate #1	17.500	1250	5300	Brine Water	9.7	10	-	10-10.5	28-36	-	N/C	Lost Circulation Control
Intermediate #2	12.250	5300	12650	Cut Brine	9	9.3	-	10-10.5	28-36	-	N/C	Lost Circulation Control
Intermediate #3	8.500	12650	15900	Oil Based Mud	11.3	11.3			55-65		N/C	70/30%
Production	6.000	15900	17700	Cut Brine	9	9	-	9	28-36	-	-	

BC&D Operating, Inc

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Jal Public Library Trust 9-24-35 SWD Drilling plan

Surface Hole

- Drill 26" hole to 1,250' and R&C 20" 94# J-55 BTC casing. A lead and a tail slurry will be pumped with top of cement at surface (150% excess on lead and 50% excess on tail). Directional surveys will be taken for directional control. The mud will be a freshwater system with a weight of 8.4 ppg. A 5M BOPE system will be installed and tested before drilling out the 20" casing shoe. Casing shoe depth will be 25' into the rustler and determined by mud logger.

Intermediate 1

- Drill 17-1/2" hole to 5,220' and R&C 13-3/8" 61# HCL-10 BTC casing. A lead and a tail slurry will be pumped with top of cement at surface (150% excess on lead and 100% excess on tail). Directional surveys will be taken for directional control. The mud will be a cut brine system with weight of 8.4 – 8.9 ppg using loss circulation control. Any broken connection will be tested for well control. Casing shoe depth will be 100' past the base of the Capitan Reef and determined by mud logger. Full suite of logs consisting on GR/CNL/CDN will be ran to identify Capitan Reef. A cement bond log will be ran after casing is cemented in place. All information gathered on the Capitan Reef will be shared with NMOCD for future study and analysis.

Intermediate 2

- Drill 12-1/4" hole to 12,650' and R&C 9-5/8" 40# HCL-80 BTC casing. A Two stage cement job will be performed with the DV tool at 5,500'. A lead and a tail cement will be pumped on both stages. Stage 2 cement will be circulated to surface (150% excess on lead and 100% excess on tail). Directional surveys will be taken for directional control. The mud will be a cut brine system with a weight of 9.4 – 10 ppg using loss circulation control. A 10M BOPE system will be installed and tested before drilling out the shoe. Casing set depth will be identified with mud logger and Gamma. The casing will be set 150' into the Strawn. Cement bond log will be ran after casing is cemented in place.

Intermediate 3

- Drill 8-1/2" hole to 15,900' and R&C 7" 32# HCP-110 BTC drilling liner. One slurry of cement will be pumped with the top of cement covering the liner top (50% excess). Directional surveys will be taken for directional control. The mud will be a 70/30 oil base mud system with a weight of 12 – 12.5 ppg. Any broken connections will be tested for well control. Casing set depth will be identified with mud logger and Gamma. The casing shoe will be 50' past the base of the Woodford shale. Cement bond log will be ran after casing is cemented in place.

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Open Hole

- Drill 6" hole to 17,700' and will be left open hole for the injection interval. Directional surveys will be taken for directional control. The mud will be a cut brine system with a weight of 9–9.8 ppg using loss circulation control. TD will be defined by mud logger 100' into the Montoya. Full suite of logs will be ran. The Montoya will be plugged back with the cement top no less than a 100' above its top.

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Jal Public Library Trust 9-24-35 SWD Well Control Plan

BOP Equipment

- A BOP consisting of 3 rams with 2 pipe rams, 1 blind ram and one annular preventer. The BOP will be utilized below surface casing to TD. Also present will be an accumulator that meets the requirements of Onshore Order #2 for the pressure rating on the BOP stack. A rotating head will also be installed as needed. BOP will be inspected and operated as recommended in Onshore Order #2. A Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position.

Testing Procedure 10M System

- Pressure tests will be conducted before drilling out from under all casing strings. BOP will be inspected and operated as required by Onshore Order #2. Kelly cock sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position. A third-party company will test the BOP's. After setting the surface casing, and before drilling the surface casing shoe, a minimum of 5M BOPE system will be installed. It will be tested to 250 psi low and 5000 psi high. Annular will be tested to 250 psi low and 3500 psi high. After setting intermediate 1 casing, a minimum 5M BOPE system will be installed and tested to 250 psi low and 5000 psi high. Annular will be tested to 250 psi low and 3500 psi high. After setting Intermediate #2, a 10M system will be installed and tested to 250 psi low and 8500 psi high with the annular being tested to 250 psi low and 3500 psi high. The 13-3/8" 10M flange on the wellhead will also be tested to 10,000 psi at this time.

Variance Request

- BC&D Operating requests a variance to have the option of running a speed head for the setting of intermediate 1 and 2 strings. If running speed head with landing mandrel for the 13-3/8" and 9-5/8" casing, then a minimum 5M BOPE system will be installed after surface casing is set. BOP test pressures will be 250 psi low and 5000 psi high. Annular will be tested to 250 psi low and 3500 psi high before drilling below the surface shoe. After 9-5/8" casing is set in the speed head the BOP will then be lifted to install another casing head section for the production casing. BC&D Operating will nipple up the casing head and BOP and a minimum 10M BOPE system will be installed. Pressure tests will be made to 250 psi low and 8500 psi high. BC&D Operating requests a variance to have a 5M Annular on top of a 10M BOP and will be tested to 250 psi low and 3500 psi high. A diagram of the speed head and BOP is attached. BC&D Operating requests

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a variance to drill this well using a co-flex line between the BOP and Choke manifold. Certification for the proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. If the specific hose is not available, then one of equal or higher rating will be used.

A. Component and Preventer Compatibility Table

The table below, which cover the drilling and casing of the 10M MASP portion of the well, outlines the tubulars and the compatible preventers in use. This table, combined with the mud program, documents and that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

8-1/2" Production hole section, 10M requirement

	OD	Preventer	RWP
Drill Pipe	5"	Fixer lower 5" Upper 4.5 - 7" VBR	10M
HWDP	5"	Fixed Lower 5" Upper 4.5 - 7" VBR	10M
Jars	5"	Fixed Lower 5" Upper 4.5 - 7" VBR	10M
Drill Collars and MWD tools	6.25" - 6.75"	Upper 4.5 - 7" VBR	10M
Mud Motor	6.75"	Upper 4.5 - 7" VBR	10M
Production Casing	7"	Upper 4.5 - 7" VBR	10M
All	0 - 13-5/8"	Annular	5M
Open hole	-	Blind Rams	10M

6" Production hole section, 10M requirement.

Component	OD	Preventer	RWP
Drill Pipe	4"	Upper 3.5" - 5.5" VBR Lower 3.5 - 5.5" VBR	10M
HWDP	4"	Upper 3.5" - 5.5" VBR Lower 3.5 - 5.5" VBR	10M
Jars	4"	Upper 3.5" - 5.5" VBR Lower 3.5 - 5.5" VBR	10M
Drill Collars and MWD tools	4" - 5"	Upper 4.5 - 5.5" VBR	10M
Mud Motor	4.75" - 5"	Upper 4.5 - 5.5" VBR	10M
Production Casing	NA	Upper 4.5 - 5.5" VBR	10M
All	1" - 13-5/8"	Annular	5M
Open hole	-	Blind Rams	10M

VBR = Variable Bore Ram. Compatible range listed in chart.

HWDP = Heavy Weight Drill Pipe

MWD = Measurement While Drilling

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B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), the pressure at which control is swapped from the annular to another compatible ram is variable, but the operator will document in the submission of their well control plan what their operating pressure limit is for the 5M annular preventer. The operator may choose an operating pressure less than or equal to RWP, but in no case will it exceed the Rated Working Pressure (RWP) of the annular preventer.

General Procedure While Drilling

- Sound alarm (alert crew).
- Space out drill string.
- Shut down pumps (stop pumps and rotary).
- Shut-in well (uppermost applicable BOP, typically annular preventer first. The hydraulic Control Remote (HCR) valve and choke will already be in the closed position).

- Confirm shut-in.
- Notify tool pusher/onsite supervisor.
- Read and record the following:
 - SIDPP and SICP
 - Pit gain
 - Time
- Regroup and identify forward plan.
- If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram.

General Procedure While Tripping

- Sound alarm (alert crew).
- Stab full opening safety valve and close.
- Space out drill string.
- Shut-in (uppermost applicable BOP, typically annular preventer first. The HCR and choke will already be in the closed position).
- Confirm shut-in.
- Notify tool pusher/onsite supervisor.
- Read and record the following.
 - SIDPP and SICP
 - Pit gain
 - Time

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- Regroup and identify forward plan.
- If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram.

General Procedure While Running Casing

- Sound alarm (alert crew).
- Stab crossover and full opening safety valve and close.
- Space out string.
- Shut-in (uppermost applicable BOP, typically annular preventer first. The HCR and choke will already be in the closed position).
- Confirm shut-in.
- Notify tool pusher/onsite supervisor.
- Read and record the following.
 - SIDPP and SICP
 - Pit Gain
 - Time
 - Regroup and identify forward plan.
 - If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to compatible pipe ram.

General Procedure with No Pipe in Hole (Open Hole)

- Sound alarm (alert crew).
- Shut-in with blind rams or BSR. (The HCR and choke will already be in the closed position).
- Confirm shut-in
- Notify tool pusher/company representative.
- Read and record the following.
 - SICP
 - Pit gain
 - Time
- Regroup and identify forward plan.

General Procedures While Pulling BHA thru Stack

- PRIOR to pulling last joint of drill pipe thru the stack.
 - Perform flow check, if flowing:
 - Sound alarm (alert crew).
 - Stab full opening safety valve and close.
 - Space out drill string with tool joint just beneath the upper pipe ram.

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- Shut-in using upper pipe ram. (The HCR and choke will already be in the closed position.)
- Confirm shut-in.
- Notify tool pusher/onsite supervisor.
- Read and record the following.
 - SIDPP and SICP
 - Pit gain
 - Time
 - Regroup and identify forward plan.
- With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - Sound alarm (alert crew).
 - Stab crossover and full opening safety valve and close.
 - Space out drill string with upset just beneath the compatible pipe ram.
 - Shut-in using compatible pipe ram. (The HCR and choke will already be in the closed position.)
 - Confirm shut-in.
 - Notify tool pusher/onsite supervisor.
- With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
 - Sound alarm (alert crew).
 - If possible to pick up high enough, pull string clear of the stack and follow “Open Hole” scenario.
 - If impossible to pick up high enough to pull the string clear of the stack.
 - Stab crossover, make up one joint/stand of drill pipe, and full opening safety valve and close.
 - Space out drill string with tool joint just beneath the upper pipe ram.
 - Shut-in using upper pipe ram. (The HCR and choke will already be in the closed position).
 - Confirm shut-in.
 - Notify tool pusher/company representative.
 - Read and record the following:
 - SIDPP and SICP
 - Pit gain
 - Time
 - Regroup and identify forward plan.

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Hydrogen Sulfide Drilling Operations Plan

1. Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this will:

- The hazards and characteristics of hydrogen sulfide (H₂S).
- The proper use and maintenance of personal protective equipment and life support systems.
- The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500') and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. H₂S Safety Equipment and systems

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500' above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S. If H₂S greater than 100 ppm is encountered in the gas stream, we will shut in the install H₂S equipment.

- Well Control Equipment:
 - Flare Line.
 - Choke manifold with remotely operated choke.
 - Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
 - Auxiliary equipment to include: annular preventer, mud-gas, separator, rotating head.

BC&D Operating, Inc

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- Protective equipment for essential personnel:
 - Mark II Surviveair 30 minute units located in the dog house and at briefing areas.
- H2S detection and monitoring equipment:
 - 2 portable H2S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.
- Visual warning systems:
 - Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate.
- Mud program:
 - The mud program has been designed to minimize the volume of H2S circulated to the surface.

BC&D Operating, Inc has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal.

BC&D Operating

Contact Information

In at this time the supervising person determines the release of H2S cannot be contained to the site location and the general public is in harm's way he will take the necessary steps to protect the workers and the public.

Key Personnel	Title	Office	Mobile
Donnie Hill	Owner/President		575-390-7626
Richard Hill	Drilling	405-837-8147	405-837-8147

Lea County	Contact
Ambulance	911
Nor Lea General Hospital (Hobbs)	575-397-0560
State Police (Hobbs)	575-392-5580
City Police (Hobbs)	575-397-9625
Sheriff's Office (Lovington)	575-396-3611
Fire Marshall (Lovington)	575-391-2983
Volunteer Fire Dept. (Jal)	575-395-2221
Emergency Management (Lovington)	575-391-2983
New Mexico Oil Conservation Division (Hobbs)	575-393-6161
BLM (Hobbs)	575-393-3612
Hobbs Animal Clinic	575-392-5563
Dal Paso Animal Hospital (Hobbs)	575-397-2286
Mountain States Equine (Hobbs)	575-392-7488
Carlsbad	
BLM	575-234-5972
Santa Fe	
New Mexico Emergency Response Commission	505-476-9600
New Mexico Emergency Response Commission (24 hrs)	505-827-9126
New Mexico State Emergency Operations Center	505-476-9635
National	
National Emergency Response Center (Washington, D.C.)	800-424-8802
Medical	
Flight for Life - 4000 24th Lubbock, Tx	806-743-9911
Aerocare - R3, Box 49F; Lubbock, Tx	806-747-8923
Med Flight Air Amb - 2301 Yale Blvd SD, D3; Albuquerque, NM	505-842-4433
SB Air Med Service - 2505 Clark Carr Loop SE; Albuquerque, NM	505-842-4949
Other	
Boots & Coots IWC	800-256-9688
Cudd Pressure Control	432-699-0139
NM Dept. of Transportation (Roswell)	575-637-7200