

DATE IN 3/21/2017	SUSPENSE	ENGINEER MAM	LOGGED IN 2/21/2017	TYPE WFX	APP NO. PMAM 140523535
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ABOVE THIS LINE FOR DIVISION USE ONLY

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



ADMINISTRATIVE APPLICATION CHECKLIST

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

Application Acronyms:

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

WFX-962

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD
Apache Corporation (OGRID 873)
West Blinberry Drinkard Unit
65, 72, 74, & 85 30-025-06642
+ 3 wells
Eunice; BLI-TU-DR, North (22900)

Check One Only for [B] or [C]

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

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

[D] Other: Specify _____

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
[A] ☐ Working, Royalty or Overriding Royalty Interest Owners
[B] X Offset Operators, Leaseholders or Surface Owner
[C] X Application is One Which Requires Published Legal Notice
[D] X Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
[E] X For all of the above, Proof of Notification or Publication is Attached, and/or,
[F] ☐ Waivers are Attached

2017 FEB 21 A 9 20
RECEIVED CDD

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

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

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

Brian Wood

Print or Type Name

(505) 466-8120

Signature

Consultant

Title

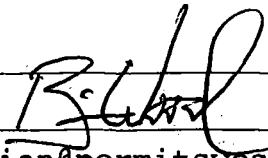
brian@permitswest.com

e-mail Address

2-11-17

Date

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: XXX Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? Yes No
- II. OPERATOR: APACHE CORPORATION
ADDRESS: 303 VETERANS AIRPARK LANE, SUITE 3000, MIDLAND, TX 79705
CONTACT PARTY: BRIAN WOOD (PERMITS WEST, INC.) PHONE: 505 466-8120
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? Yes XXX No
If yes, give the Division order number authorizing the project: R-12981 et al
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
WEST BLINEBRY DRINKARD UNIT
- VII. Attach data on the proposed operation, including: **65, 72, 74, & 85**
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: BRIAN WOOD TITLE: CONSULTANT
SIGNATURE:  DATE: FEB. 10, 2017
E-MAIL ADDRESS: brian@permitswest.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

INJECTION WELL DATA SHEET

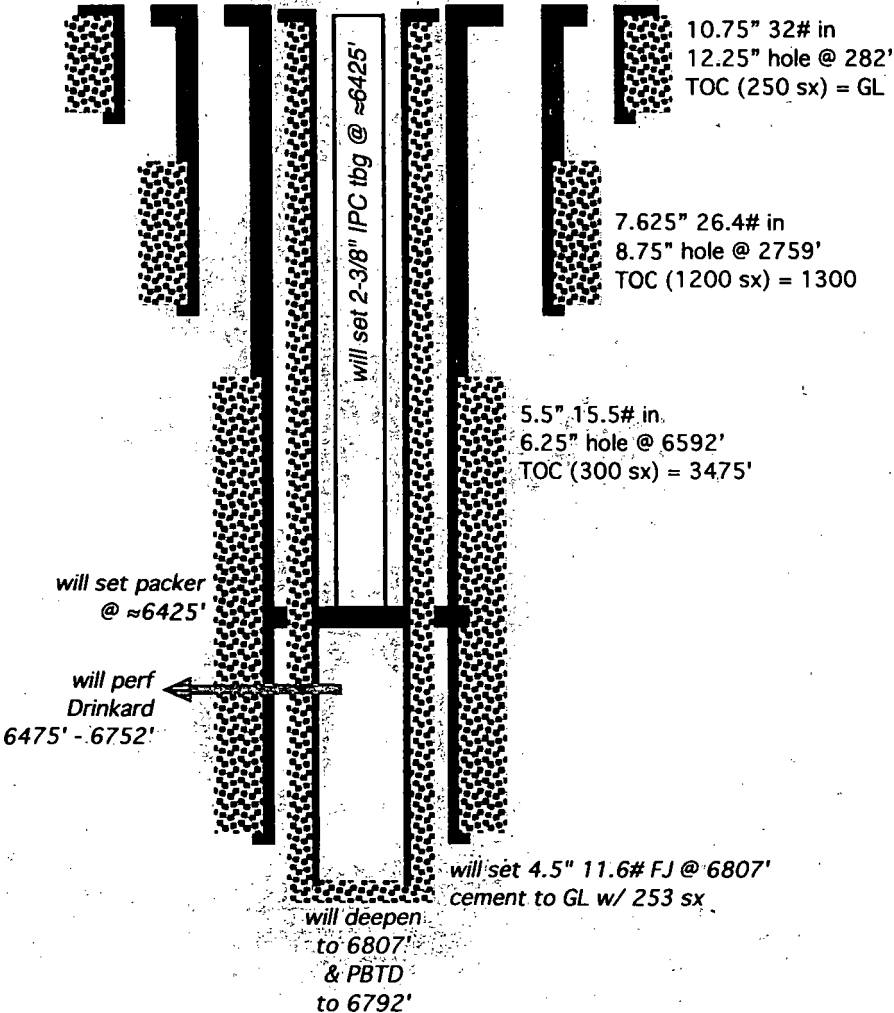
OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: WEST BLINEBRY DRINKARD UNIT 65

WELL LOCATION: 330' FNL & 1650' FEL B 17 21 S 37 E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

(not to scale)



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12.25" Casing Size: 10.75"
Cemented with: 250 sx. or _____ ft³
Top of Cement: GL Method Determined: CIRCULATE

Intermediate Casing

Hole Size: 8.75" Casing Size: 7.625"
Cemented with: 1200 sx. or _____ ft³
Top of Cement: 1300' Method Determined: est.

Production Casing

Hole Size: 6.625" Casing Size: 5.5"
Cemented with: 300 sx. or _____ ft³
Top of Cement: 3475' Method Determined: TEMP. SURV.
Total Depth: 6684'

Injection Interval

6475' feet to 6752'

(Perforated or Open Hole; indicate which)
.....

INJECTION WELL DATA SHEET

Tubing Size: 2-3/8" J-55 4.7# Lining Material: INTERNAL PLASTIC COAT

Type of Packer: LOCK SET INJECTION

Packer Setting Depth: ≈6425' (always 100' or less from highest actual perf)

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

Additional Data

1. Is this a new well drilled for injection? _____ Yes XXX No

If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: DRINKARD

3. Name of Field or Pool (if applicable): EUNICE; BLI-TU-DR, NORTH (POOL CODE 22900)

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: _____

OVER: GRAYBURG (3710'), SAN ANDRES (4210'), BLINEBRY (5631), & TUBB (6094')

UNDER: ABO (6752'), FUSSELMAN (7200')

INJECTION WELL DATA SHEET

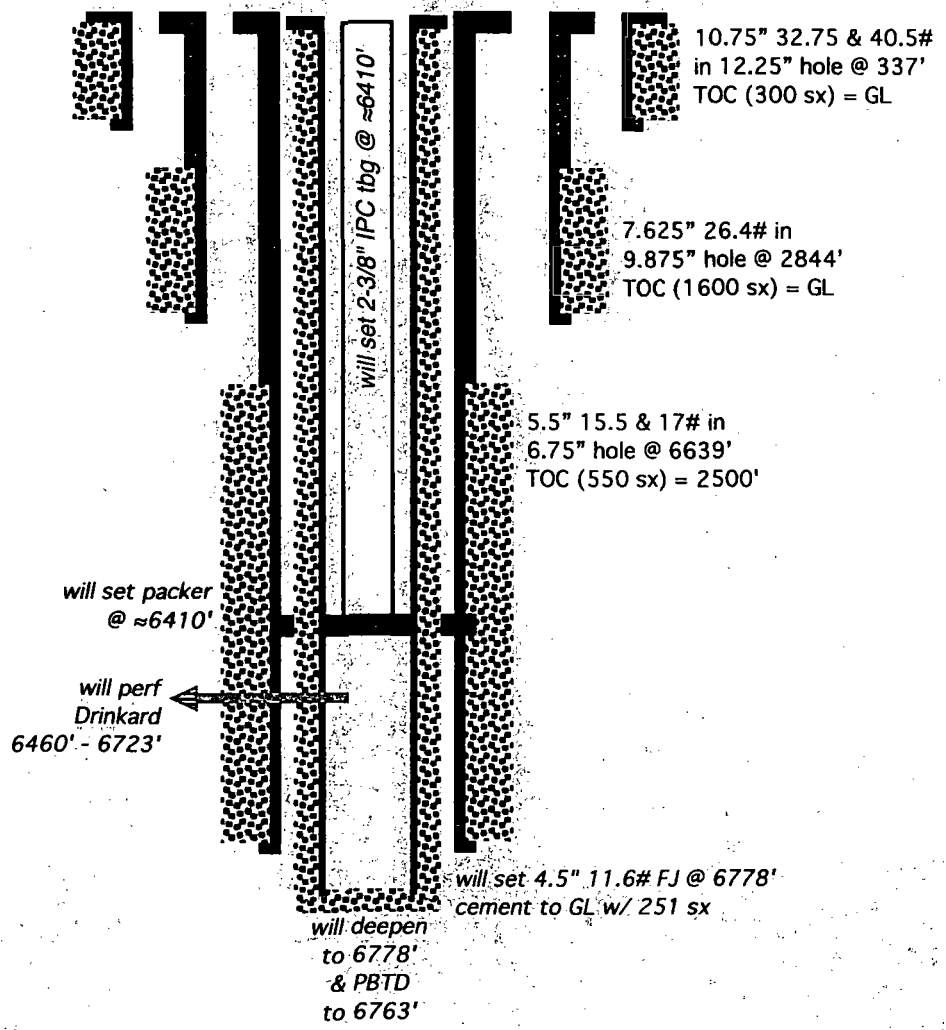
OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: WEST BLINEBRY DRINKARD UNIT 72

WELL LOCATION: 1980' FSL & 1980' FEL J 17 21 S 37 E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

(not to scale)



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 13.375" Casing Size: 10.75"
Cemented with: 300 sx. or _____ ft³
Top of Cement: GL Method Determined: CIRCULATE

Intermediate Casing

Hole Size: 9.875" Casing Size: 7.625"
Cemented with: 1600 sx. or _____ ft³
Top of Cement: GL Method Determined: CIRCULATE

Production Casing

Hole Size: 6.75" Casing Size: 5.5"
Cemented with: 550 sx. or _____ ft³
Top of Cement: 2500' Method Determined: TEMP. SURV.
Total Depth: 6639'

Injection Interval

6460' feet to 6723'

(Perforated or Open Hole; indicate which)
.....

INJECTION WELL DATA SHEET

Tubing Size: 2-3/8" J-55 4.7# Lining Material: INTERNAL PLASTIC COAT

Type of Packer: LOCK SET INJECTION

Packer Setting Depth: ≈6410' (always 100' or less from highest actual perf)

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

Additional Data

1. Is this a new well drilled for injection? _____ Yes XXX No

If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: DRINKARD

3. Name of Field or Pool (if applicable): EUNICE; BLI-TU-DR, NORTH (POOL CODE 22900)

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: _____

OVER: GRAYBURG (3710'), SAN ANDRES (3890'), BLINEBRY (5610), & TUBB (6165')

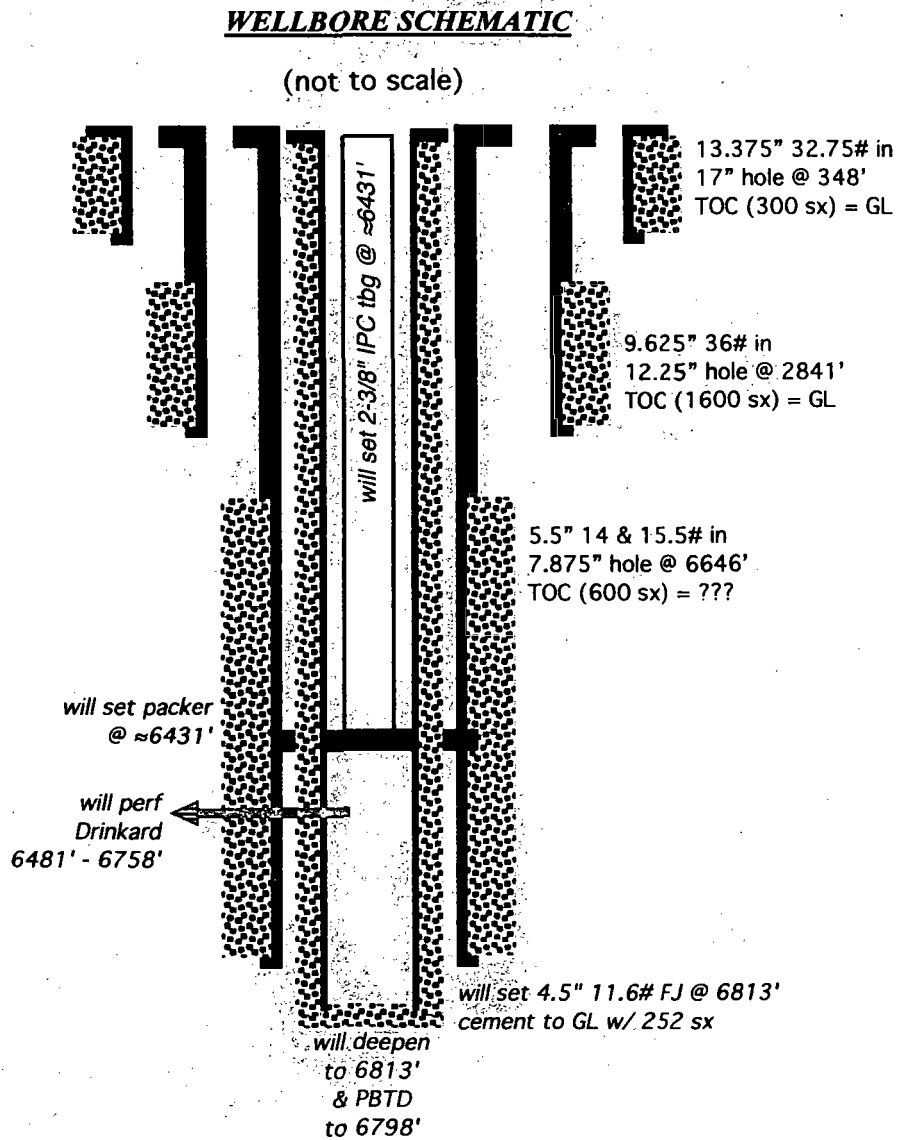
UNDER: ABO (6723'), FUSSELMAN (7200')

INJECTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: WEST BLINEBRY DRINKARD UNIT 74

WELL LOCATION: 2058' FSL & 2053' FWL K 17 21 S 37 E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE



WELL CONSTRUCTION DATA
Surface Casing

Hole Size: 17" Casing Size: 13.375"
Cemented with: 300 sx. or _____ ft³
Top of Cement: GL Method Determined: CIRCULATE

Intermediate Casing

Hole Size: 12.25" Casing Size: 9.625"
Cemented with: 1600 sx. or _____ ft³
Top of Cement: GL Method Determined: CIRCULATE

Production Casing

Hole Size: 7.875" Casing Size: 5.5"
Cemented with: 600 sx. or _____ ft³
Top of Cement: 3800' Method Determined: no report
Total Depth: 6646'

Injection Interval

6481' feet to 6758'

(Perforated or Open Hole; indicate which)
.....

INJECTION WELL DATA SHEET

Tubing Size: 2-3/8" J-55 4.7# Lining Material: INTERNAL PLASTIC COAT

Type of Packer: LOCK SET INJECTION

Packer Setting Depth: ≈6431' (always 100' or less from highest actual perf)

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

Additional Data

1. Is this a new well drilled for injection? _____ Yes XXX No

If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: DRINKARD

3. Name of Field or Pool (if applicable): EUNICE; BLI-TU-DR, NORTH (POOL CODE 22900)

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: _____

OVER: GRAYBURG (3710'), SAN ANDRES (3980'), BLINEBRY (5825), & TUBB (6170')

UNDER: ABO (6758'), FUSSELMAN (7200')

INJECTION WELL DATA SHEET

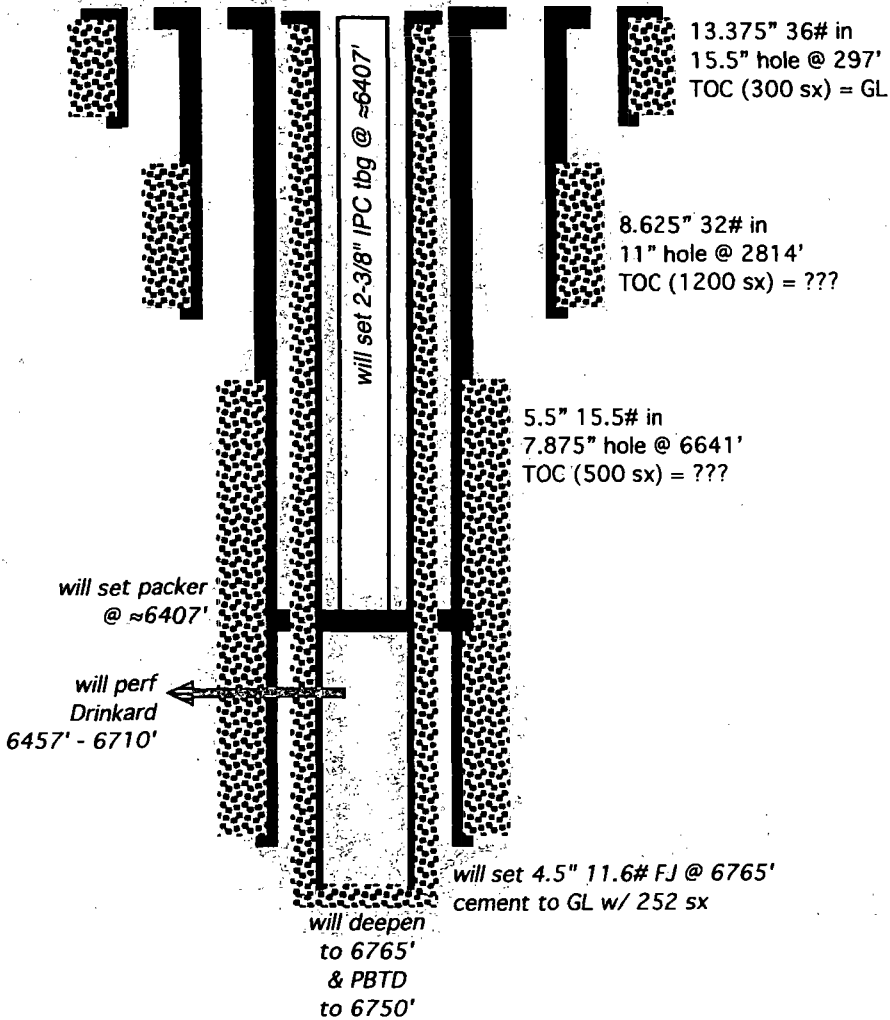
OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: WEST BLINEBRY DRINKARD UNIT 85

WELL LOCATION: 660' FSL & 660' FEL P 17 21 S 37 E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

(not to scale)



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 15.5" Casing Size: 13.375"
Cemented with: 300 sx. or _____ ft³
Top of Cement: GL Method Determined: CIRCULATE

Intermediate Casing

Hole Size: 11" Casing Size: 8.625"
Cemented with: 1200 sx. or _____ ft³
Top of Cement: no report Method Determined: no report

Production Casing

Hole Size: 7.875" Casing Size: 5.5"
Cemented with: 500 sx. or _____ ft³
Top of Cement: no report Method Determined: no report
Total Depth: 6657'

Injection Interval

6457' feet to 6710'

(Perforated or Open Hole; indicate which)
.....

INJECTION WELL DATA SHEET

Tubing Size: 2-3/8" J-55 4.7# Lining Material: INTERNAL PLASTIC COAT

Type of Packer: LOCK SET INJECTION

Packer Setting Depth: ≈6407' (always 100' or less from highest actual perf)

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

Additional Data

1. Is this a new well drilled for injection? _____ Yes XXX No

If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: DRINKARD

3. Name of Field or Pool (if applicable): EUNICE; BLI-TU-DR, NORTH (POOL CODE 22900)

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: _____

OVER: GRAYBURG (3710'), SAN ANDRES (4047'), BLINEBRY (5635'), & TUBB (6140')

UNDER: ABO (6710'), FUSSELMAN (7200')

APACHE CORPORATION**PAGE 1****WEST BLINEBRY DRINKARD UNIT 65, 72, 74, & 85
SEC. 17, T. 21 S., R. 37 E., LEA COUNTY, NM**

I. Goal is to convert 4 existing WBDU oil wells to Drinkard water injection wells. Drinkard is in the Eunice; Blinebry-Tubb-Drinkard, North Pool (aka, Eunice; BLI-TU-DR, North and pool code = 22900). Wells and zone (Drinkard) are part of the West Blinebry Drinkard Unit (Cases 14125 and 14126, both Order Number R-12981), formed in 2008 by Apache. All four wells will be deepened and liners run and cemented to surface.

WBDU well	API	17-21s-37e	PBTD TD now	PBTD TD plan	proposed Drinkard perfs
65	30-025-06642	330 FNL & 1650 FEL	6660 6684	6792 6807	6475' - 6752'
72	30-025-06645	1980 FSL & 1980 FEL	6639 6639	6763 6778	6460' - 6723'
74	30-025-06647	2058 FSL & 2053 FWL	6521 6646	6798 6813	6481' - 6758'
85	30-025-06652	660 FSL & 660 FEL	6532 6657	6750 6765	6457' - 6710'

II. Operator: Apache Corporation (OGRID #873)
Operator phone number: (432) 818-1062
Operator address: 303 Veterans Airpark Lane, Suite 3000
Midland, TX 79705
Contact for Application: Brian Wood (Permits West, Inc.)
Phone: (505) 466-8120

III. A. (1) Unit Size: 2480 acres Unit Numbers: 300341 & NMNM-120042X
Unit Area (Exhibit A): T. 21 S., R. 37 E.
Section 4: Lot 15, S2SW4, & SE4
Section 8: E2, NENW, & E2SW
Sections 9 & 16: all
Section 17: E2 & E2SW4
Section 21: E2NE4

APACHE CORPORATION
WEST BLINEBRY DRINKARD UNIT 65, 72, 74, & 85
SEC. 17, T. 21 S., R. 37 E., LEA COUNTY, NM

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Well	Fee Lease	closest lease boundary	closest unit boundary
65	Weatherly	330'	990'
72	W. W. Weatherly	660'	933'
74	W. W. Weatherly	582'	582'
85	Hardy Blinebry	660'	660'

A. (2) Current casing and cement details are below and in Exhibit B.

well & hole O. D.	casing O. D.	pounds per foot	depth set	cement sacks	TOC	how TOC determined
WBDU 65						
12.25"	10.75"	32	282	250	GL	circ.
8.75"	7.625"	26.4	2759	1200	1300	est.
6.625"	5.5"	15.5	6592	300	3475	temp.
WBDU 72						
13.375"	10.75"	32.75 & 40.5	337	300	GL	circ
9.875"	7.625"	26.4	2844	1600	GL	circ
6.75"	5.5"	15.5 & 17	6639	550	2500	temp.
WBDU 74						
17"	13.375"	32.75	348	300	GL	circ
12.25"	9.625"	36	2841	1600	GL	circ
7.875"	5.5"	14 & 15.5	6646	600	3800	no report
WBDU 85						
15.5"	13.375"	36	297	300	GL	circ
11"	8.625"	32	2814	1200	no report	no report
7.875"	5.5"	15.5	6641	500	no report	no report

A. (3) Tubing will be internally plastic coated 2-3/8", J-55, 4.7#. Setting depths will be $\approx$ 50' above the highest perforation.

A. (4) A 2.375" x 4.5" nickel-plated Arrow-set packer will be set $\approx$ 50' above the highest perforation in each well.

- B. (1) Injection zone will be the Drinkard carbonates, in the Eunice; Blinebry-Tubb-Drinkard, North Pool. Estimated fracture gradient: ≈ 0.56 psi/ft.
- B. (2) Disposal intervals will be perforated.
- B. (3) All four wells were originally drilled (1947-51) as Drinkard oil wells.
- B. (4) Perforation and isolation tabulations are in Exhibit C.
- B. (5) Next higher oil or gas zone in the area of review is the Tubb, part of the Eunice; Blinebry-Tubb-Drinkard, North Pool and part of the Unit. Its estimated bottom ranges from 6456' to 6480'. Injection will occur in the Drinkard. Drinkard top ranges from 6457' to 6481'. Next lower oil or gas zone in the area of review is the Wantz; Abo Pool (62700). Abo top ranges from 6683' to 6837'. Abo will not be perforated. However, it will be penetrated to allow for better logs.

IV. This is not a horizontal or vertical expansion of an existing injection project. The case file for the unit approval (R-12981) describes the water flood. There have been over a dozen water flood expansion (WFX) approvals since then.

V. Exhibit D shows all 123 existing or proposed wells (100 oil or gas wells + 10 water injection wells + 9 P&A wells + 4 water wells) in the areas of review, regardless of depth. Exhibit E shows all 869 existing wells (686 oil or gas wells + 84 injection or disposal wells + 94 P & A wells + 6 water wells + 1 brine well) within 2-mile radii.

Exhibit F shows and tabulates all leases (only BLM, State, and fee) within a half-mile radius of each well. Exhibit G shows all lessors (only BLM, State, and fee) within a two-mile radius.

VI. One hundred twenty-six existing wells (Exhibit H) are in the areas of review. Seventy-one of the wells penetrated (67) or will penetrate (4) the Drinkard (top $\geq 6457'$). Tables abstracting the well construction details and histories of the

APACHE CORPORATION
WEST BLINEBRY DRINKARD UNIT 65, 72, 74, & 85
SEC. 17, T. 21 S., R. 37 E., LEA COUNTY, NM

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penetrators are in Exhibit I. Three of the 71 penetrators are P&A. Diagrams of the three P&A wells are in Exhibit J, sorted by API number.

- VII. 1. Average injection rate will be ≈ 2500 bwpd per well.
Maximum injection rate will be ≈ 3000 bwpd per well.
2. System will be closed. The wells will tie into the existing unit pipeline system, a branched injection system with centrifugal injection pumps.
3. Average injection pressure will be ≈ 1100 psi. Maximum injection pressure will be 1120 psi (Conclusion 24 of Order R-12981).
4. Water source will be two existing $\approx 4000'$ deep San Andres water supply wells, plus produced water from Blinebry, Tubb, and Drinkard zones. The source water and produced water are collected in separate skim tanks. The two water streams (source and produced) are commingled in a tank before being piped to the injection wells. Comparisons of nearby analyses and San Andres are below. No compatibility problems have reported from the 43,909,838 barrels that have been injected to date in the unit since 2009.

	WBDU Injection Pump Discharge	San Andres 919-S
Anion/Cation Ratio	1.0	N/A
Barium	0.1 mg/l	0.38 mg/l
Bicarbonate	671.0 mg/l	562.0 mg/l
Calcium	1,099.0 mg/l	608.0 mg/l
Carbon Dioxide	80.0 ppm	80.0 ppm
Chloride	10,086.0 mg/l	6,200.0 mg/l
Hydrogen Sulfide	90.0 ppm	408.0 ppm
Iron	0.3 mg/l	0.0 mg/l
Magnesium	439.0 mg/l	244.0 mg/l
Manganese	N/A	0.01 mg/l
pH	7.5	6.49
Potassium	115.0 mg/l	N/A
Sodium	5,799.5 mg/l	3,909.0 mg/l
Strontium	28.0 mg/l	19.0 mg/l
Sulfate	2,465.0 mg/l	1,750.0 mg/l
TDS	20,702.9 mg/l	13,273.0 mg/l

WEST BLINEBRY DRINKARD UNIT 65, 72, 74, & 85
SEC. 17, T. 21 S., R. 37 E., LEA COUNTY, NM

5. Apache has 124 active or proposed oil wells and 41 active or proposed injection wells in the Unit. It is the goal of the project to increase production.

VIII. The Unit is on the north end of a north-northwest to south-southeast trending anticline. It is part of the Penrose Skelly trend and parallels the west edge of the Central Basin Platform. Dip is 1° to 2°. The injection interval is Leonardian in age, ~267' thick, and consists of tan to dark gray shallow marine carbonates, many of which have been dolomitized. Core filling and replacement anhydrite are common in the limestone. Nodular anhydrite is common in the dolomite. Five per cent porosity cut off is used to determine pay zones. Impermeable shale and carbonates vertically confine the interval.

There are 163 injection wells active or proposed in the Eunice; Blinebry-Tubb-Drinkard, North Pool. West Blinebry Drinkard Unit shares its east border with Apache's Northeast Drinkard Unit. Three similar water floods (East Blinebry Drinkard Unit, Central Drinkard Unit, and Warren Blinebry Unit) are within a mile of the West Blinebry Drinkard Unit. Central Drinkard Unit has been water flooded since the 1960s. Depths are:

	WBDU 65	WBDU 72	WBDU 74	WBDU 85
Quaternary	0	0	0	0
Rustler	1275	1220	1199	1220
Top of Salt	1450	1325	1775	1340
Base of Salt	2530	2465	2465	2458
Yates	2640	2595	2595	2610
San Andres	4210	3890	3980	4047
Glorieta	5185	5137	5140	5110
Blinebry	5631	5610	5825	5635
Tubb	6094	6165	6170	6140
Drinkard	6475	6460	6481	6457
Current TD	6684	6639	6646	6657
Abo	6752	6723	6758	6710
Proposed PBTD	6792	6763	6798	6750
Proposed TD	6807	6778	6813	6765

State Engineer records (Exhibit K) indicate five water wells (CP 00448, 00676, 00895, 00985, & 01026) are within a mile (1610 meters) radius. Deepest of the wells is 167'. Water sands were reported from as shallow as 100'

APACHE CORPORATION
WEST BLINEBRY DRINKARD UNIT 65, 72, 74, & 85
SEC. 17, T. 21 S., R. 37 E., LEA COUNTY, NM

PAGE 6

(WBDU 72) to as deep as 240' (WBDU 65) on the oil wells' completion reports. Three water sources within a mile were sampled (Exhibit L). Two water wells in the State Engineer's database (CP 01026 (aka, Kerbo Domestic and CP 00447/00448, aka Simms)) were sampled. Two other wells not in State Engineer records were also sampled. Ogallala aquifer is ≥ 2 miles northeast.

No existing underground drinking water source is below the injection interval within a mile radius.

There will be $\geq 5200'$ of vertical separation, including $>1200'$ of salt and anhydrite, between the bottom of the only likely underground fresh water source (red beds) and the top of the injection zone. Produced water is being, or will be, injected (199 wells) or disposed (8 wells) into the Yates, Seven Rivers, Queen, Grayburg, San Andres, Blinebry, Tubb, and Drinkard in T. 21 S., R. 37 E.

IX. The wells will be stimulated with acid.

X. No logs have been filed from the 65, 74, and 85 wells. A CNL/GR/CCL log from WBDU 74 is on file with NMOCD. Apache will run GR/CBL/CCL/CNL logs from TD to GL in all 4 wells and file them with NMOCD.

XI. Five fresh water wells are within the four 1-mile radii. Two of those were sampled and analyses from those wells, plus two other wells, are in Exhibit L.

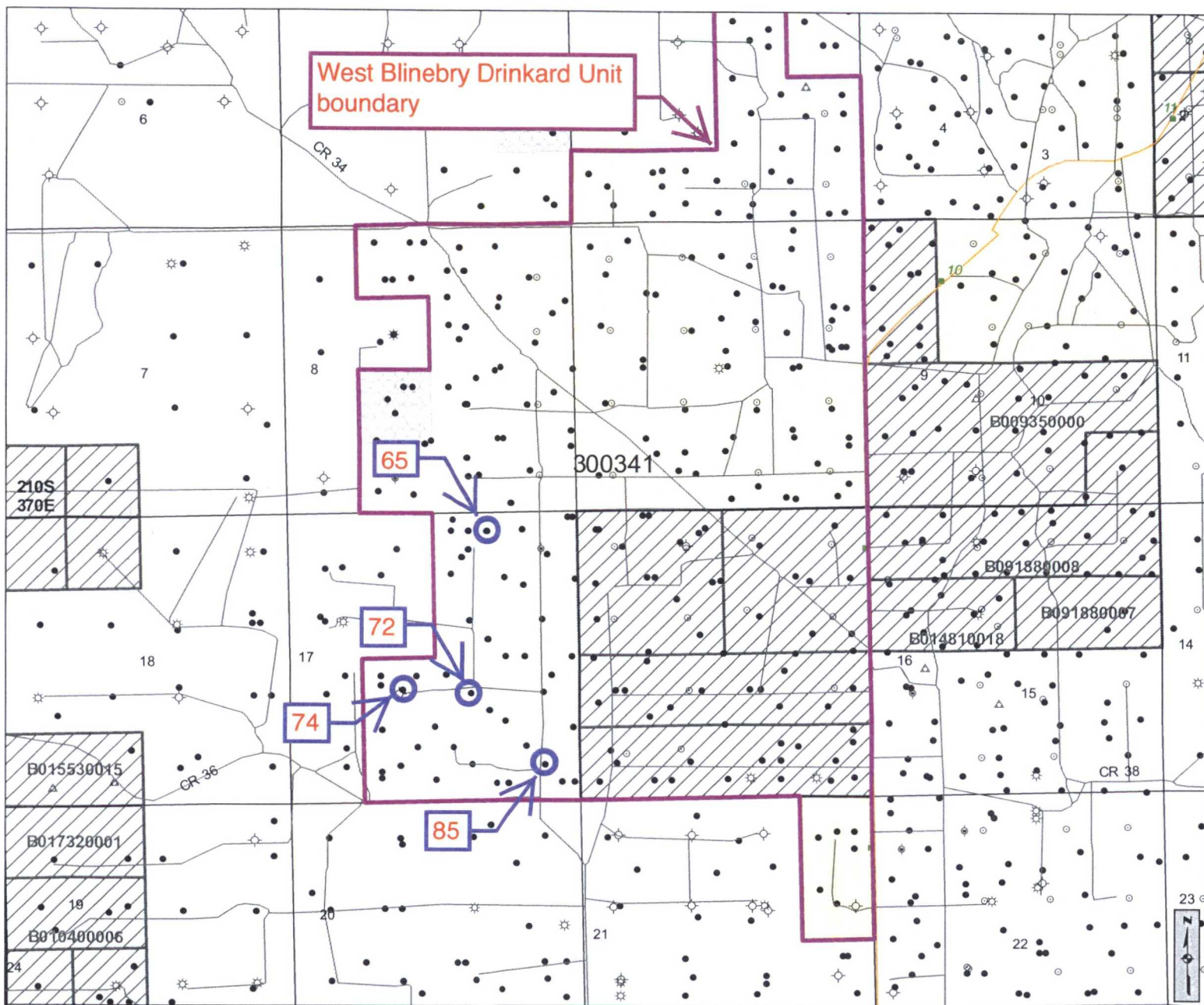
XII. Apache (Exhibit M) is not aware of any geologic or engineering data that may indicate the injection interval is in hydrologic connection with any underground sources of water. Closest Quaternary faults are >100 miles west and southwest. There are 154 active or proposed Drinkard injection wells in New Mexico. Previously approved water flood expansions (WFX-) in the unit include 854, 857, 913, 921, 922, 923-A, 923-B, 924, 948, 952, 954, 955, 958, 959, and 960.

APACHE CORPORATION

PAGE 7

**WEST BLINEBRY DRINKARD UNIT 65, 72, 74, & 85
SEC. 17, T. 21 S., R. 37 E., LEA COUNTY, NM**

XIII. A legal ad (see Exhibit N) was published January 12, 2017. Notice (this application) has been sent (Exhibit O) to the surface owner (Chevron USA Inc. for all 4 wells), offset Drinkard operators (Chevron, Stephens & Johnson, and Upland), offset other operators (Chevron Midcontinent, Lanexco, Sheridan), government lessors (BLM, NMSLO), lessees (Chevron USA, ConocoPhillips, Sheridan Holding, Stephens & Johnson, Upland), or leasehold operating rights holders (Mitchell Brown Properties, Chevron USA, ConocoPhillips, John H. Hendrix Corp., OXY USA WTP LP, Penroc Oil Corp., Sandridge E & P, Six Aches).



Cartographic Features

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

Federal Minerals Ownership

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

State Trust Lands

- Surface Estate
- Subsurface Estate
- Surface and Subsurface Estate

State Leases

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

Oil and Gas Related Features

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

NMOC Oil and Gas Wells

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

New Mexico State Land Office Oil, Gas and Minerals

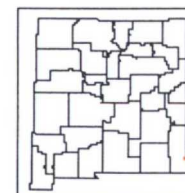
0 0.125 0.25 0.5 0.75 1 Miles
Universal Transverse Mercator Projection, Zone 13
1983 North American Datum

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

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

Created On: 1/1/2017 11:57:59 AM

EXHIBIT A



www.nmstatelands.org

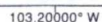


EXHIBIT A

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Artesia, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

JUN 18 2009

1220 South St. Francis Dr.

Santa Fe, NM 87505

OCT 22 2009

HOBBSOCD

HOBBSOCD

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-06645		Pool Code 22900	Pool Name Eunice; Blincbry-Tubb-Drinkard, North
Property Code 37346	Property Name West Blincbry Drinkard Unit		Well Number 072
OCRID No. 00873	Operator Name Apache Corporation (873)		Elevation 3471'

10 Surface Location

U/I. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	17	21S	37E		1980	South	1980	East	Lea

11 Bottom Hole Location If Different From Surface

U/I. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

" Dedicated Acres 40	" 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

16				17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to do all this well as this location pursuant to a contract with an owner of such a mineral or working interest or to a voluntary pooling agreement or a compulsory pooling under heretofore entered by the division Signature <u>S. Mackay</u> Date <u>06/12/2009</u> Printed Name <u>Sophie Mackay</u>
				18 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 Date of Survey Signature and Seal of Professional Surveyor Certificate Number

EXHIBIT A

1625 N. French Dr., Hobbs, NM 88240

1301 W. Grand Avenue, Artesia, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

* API Number 30-025-06647		* Pool Code 22900	* Pool Name Eunice; Blinbry-Tubb-Drinkard, North	
* Property Code 303203	* Property Name WW Weatherly		now WBDU 74	* Well Number 004
* OGRID No. 00873	* Operator Name Apache Corporation			* Elevation 3475' GR

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	17	21S	37E		2058	South	2053	West	Lea

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
---------------	---------	----------	-------	---------	---------------	------------------	---------------	----------------	--------

" Dedicated Acres	" Joint or Infill	" Consolidation Code	" Order No.
40			

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.

16			
		17 OPERATOR CERTIFICATION I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <u>Sophie Mackay</u> Date: <u>05/23/2007</u> Printed Name: <u>Sophie Mackay</u>	
2053'		18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plan 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. Date of Survey _____ Signature and Seal of Professional Surveyor: _____	EXHIBIT A Certificate Number _____

EXHIBIT A

Apache Corporation
WBDU #65 (Weatherly #1)
WELL DIAGRAM (CURRENT CONFIGURATION)



10-3/4" CSG.
 CMT T. CIRC. TO SURF.

7-5/8" CSG.
 EST. CMT TOP @
 1300'

5-1/2" CSG.
 EST. CMT TOP @
 3475' (TS)

Blinebry Perfs:
 (Active)
 5574 - 5690
 83', 83 Shots

Tubb Perfs
 (Active)
 6100 - 6450
 104', 104 Shots

Drinkard OH:
 (Active)
 6593 - 6684

Fill @ 6638'

PSTD 6,660.0
 TD 6,684.0

WELL NAME:		WBDU #65 (Weatherly #1)		API:		30-025-06642	
LOCATION:		330' FNL & 1650' FEL. Unit C, Sec 17, T-21S, R-37E		COUNTY:		Lea Co., NM	
SPUD/TD DATE:		11/17/1951 - 12/24/1951		COMP. DATE:		1/2/1952	
PREPARED BY:		Bret Shapot		DIAGRAM DATE:		7/27/2016	
TD (ft): 6,684		KB Elev. (ft): 3500		KB to Ground (ft)		9	
PSTD (ft): 6,638		Ground Elev. (ft): 3491					
CASING/TUBING		SIZE (IN)	WEIGHT (LB/FT)	GRADE		DEPTHS (FT)	
Surface Casing		10-3/4" (Cmt. w/ 250sx, Circ.)	32.0	J-55		0	282
Int. Casing		7-5/8" (Cmt. w / 1200sx, TOC @ 1300')	26.4	J-55		0	2,759
Prod. Casing		5-1/2" (Cmt. w / 300sx, TOC @ 3475')	15.5	J-55		0	6,592
Tubing		2-3/8"	4.7	J-55		0.00	6,605
PRODUCTION TBG STRING							
ITEM	DESCRIPTION					LENGTH (FT)	Depth (FT)
1	220 JTS 2-3/8" 4.7 LB/FT J-55 TBG						
2	TAC						5561.00
3	SN						6604.00
4							
5							
6							
7							
8							
9							
10							
PRODUCTION ROD STRING							
ITEM	DESCRIPTION					LENGTH (FT)	Btm (FT)
1	99 JTS 3/4" RODS					2,475.00	
2	164 JTS 5/8" RODS					4,100.00	
3	BHP: 2" X 1-1/4" X 16' RH-BC					16.00	
4							
5							
6							
7							
8							
9							
10							
SURFACE EQUIPMENT							
PUMPING UNIT SIZE:				MOTOR HP:			
PUMPING UNIT MAKE:				MOTOR MAKE:			
PERFORATIONS							
Form.	Intervals					FT	SPF
Blinebry	5574-82, 92-98, 5601-04, 10-13, 32-34, 54-60, 71-73, 5704-06, 30-34, 38-42, 57-59, 92-96, 5808-13, 32-44, 86-90					83	1
Tubb	6288-92, 6312-24, 36-42, 57-61, 68-74, 80-85, 94-6400, 6408-12, 42-50					64	1
	6100-10, 62-68, 6240-50, 60-70					40	1
Drinkard (OH)	6592 - 6684					92	N/A

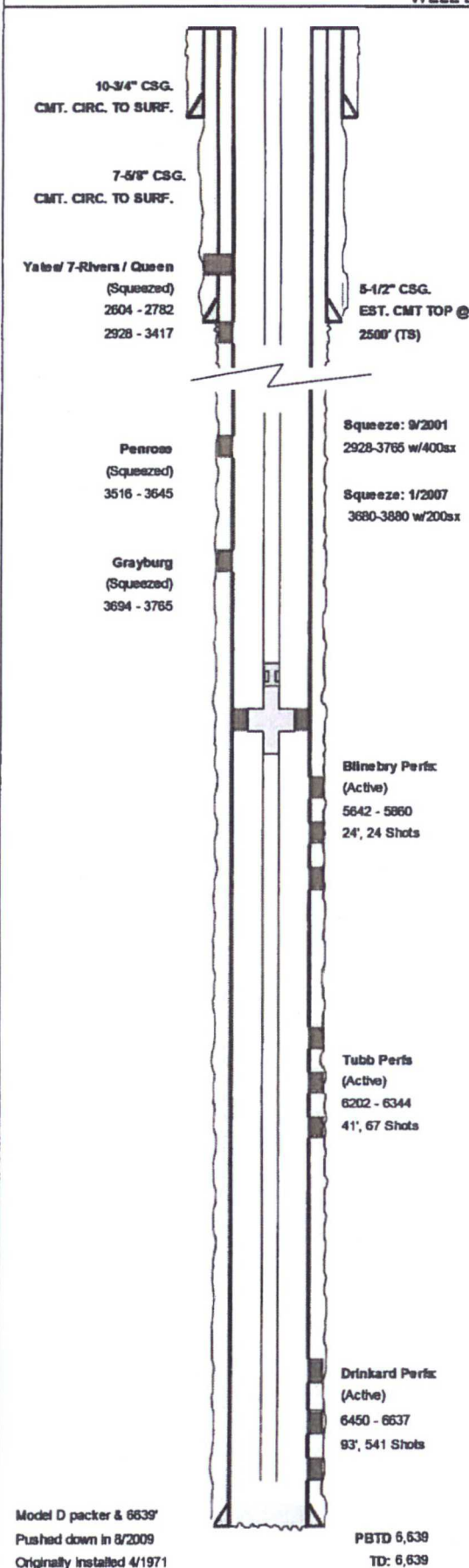
Notes:

Drinkard OH producer from 1952 - 1989. Drinkard OH frac in 1957. Tubb completed in 1989 (acid / frac). Tubb/Drinkard DHC in 1990. Added pay to Tubb 6100' - 6170' in 2001. Completed Blinebry and acidized in 2001. BTDC DHC in 2001. TFF at 6638 in January 2012.

Estimated Drinkard Top = 6455'
 Estimated Abo Top = 6775'

EXHIBIT B

Apache Corporation
WBDU #72 (W. W. Weatherly #2)
WELL DIAGRAM (CURRENT CONFIGURATION)

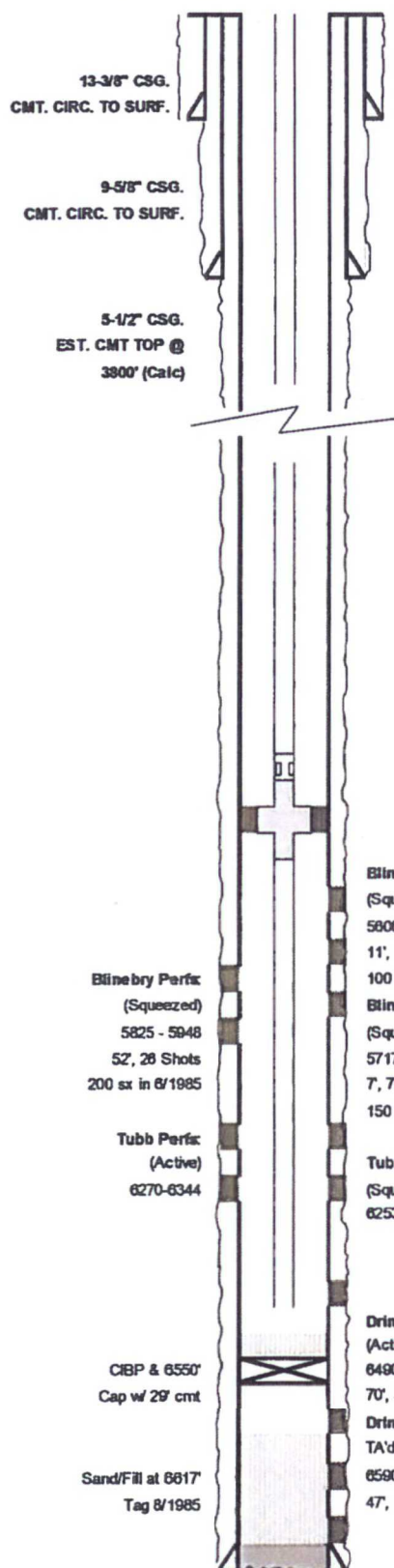


WELL NAME:		WBDU #72 (W. W. Weatherly #2)		API:		30-025-0663545		
LOCATION:		1980' FSL & 1980' FEL, C-Sec 17, T-21S, R-37E		COUNTY:		Lea Co., NM		
SPUD/TD DATE:		8/1947 - 9/1947		COMP. DATE:		9/11/1947		
PREPARED BY:		Bret Shapot		DIAGRAM DATE:		8/10/2016		
TD (ft):	6,639	KB Elev. (ft):	3479	KB to Ground (ft)				8
PBTD (ft):	6,639	Ground Elev. (ft):	3471					
CASING/TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE	DEPTHS (FT)				
Surface Casing	10-3/4" (Cmt. w/ 300sx, Circ.)	32.8	H-40	0				337
Int. Casing	7-5/8" (Cmt. w/ 1600sx, Circ)	26.4	J-55	0				2,844
Prod. Casing	5-1/2" (Cmt. w/ 550sx, TOC @ 2500')	15.5 / 17	J-55	0				6,639
Tubing	2-3/8"	4.7	J-55	0				6,558
PRODUCTION TBG STRING								
ITEM	DESCRIPTION			LENGTH (FT)		Depth (FT)		
1	209 JTS 2-3/8" 4.7 LB/FT J-55 TBG							
2	TAC					5,545		
3	SN					6,558		
4								
5								
PRODUCTION ROD STRING								
ITEM	DESCRIPTION			LENGTH (FT)		Btm (FT)		
1	74 JTS 7/8" RODS			1,850				
2	187 JTS 3/4" RODS			4,675				
3	BHP: 2" X 1-1/4" X 16' RHBC			16				
4								
5								
SURFACE EQUIPMENT								
PUMPING UNIT SIZE:		C-228-213-86		MOTOR HP:				
PUMPING UNIT MAKE:		MOTOR MAKE:						
PERFORATIONS								
Form	Intervals			FT		SPF		
Yts/7R/Q	(Squeezed) 2604-06, 10-15, 44-58, 69-72, 97-99, 2720-24, 64-68, 78-82, 2928-34, 52-56, 65-70, 3304-08, 40-43, 48-52, 65-69, 3413-17			81		2		
Penrose	(Squeezed) 3516-71, 78-3600, 3608-54			126		4		
Grayburg	(Squeezed) 3694, 96, 98, 3700, 02, 04, 20, 22, 24, 26, 28, 30, 32, 42, 44, 47, 55, 57, 69, 71, 63, 65			22		1		
Bilnebry	5842, 45, 51, 55, 79, 80, 94, 5721, 24, 25, 43, 45, 65, 69, 82, 95, 99, 5806, 20, 33, 36, 40, 57, 60			24		1		
Tubb	6252-58, 96-6300, 6324-30, 38-44			26		2		
	6202-12, 16-19			15		1		
Drinkard	6574-84, 84-6637			64		8		
	6450-60, 6500-06, 60-70			29		1		

Notes:
 Drinkard only producer 1947 - 3/1971. Acidized Drinkard 6574-6637 on 9/1947. Acidized again on 10/1947.
 Frac Drinkard 6574-6637 on 6/1957 w/15,000# sand and 20,000 gal oil
 3/1971 - Perf (3694-3765) Grayburg and acidize w/2000 gal.
 5/1971 - Acidize Drinkard 6574 - 6637 w/5000 gal 7.5 % HCl
 7/1972 - Install pumping unit and producer Grayburg only
 5/1991 - Install CIBP to abandon Grayburg. Perf (3516 - 3608) Eumont Penrose and Frac w/3000#. Only gas prod. TA on 6/1991.
 11/1991 - Set CIBP above Eumont. Perf Yates/7R/Queen (2604 - 3413) Acidize w/900 gal 15% HCl. Frac w/200,000 scf N2 and 4000# prop. Minimal production.
 9/2001 - Clean out all equipment in well except for Packer at 6550'. Squeeze Yts/7R/Q, Penrose, Grayburg w/400 sx cement.
 6/2004 - Perf Blinebry (5642-5860) and acidize w/2600 gal. Frac w/116,000# prop and CO2 foam.
 1/2007 - Squeeze 3680-3880 w/200sx.
 1/2007 - Perf Tubb (6252-6344) and acidize w/2000 gal Frac w/82,000# prop. Produce Blinebry/Tubb

EXHIBIT B

Apache Corporation
WBDU #74 (W.W. Weatherly #4)
WELL DIAGRAM (CURRENT CONFIGURATION)



WELL NAME:		WBDU #74 (W.W. Weatherly #4)		API:		30-025-06647			
LOCATION:		2058' FSL & 2053' FWL, 17, T-21S, R-37E		COUNTY:		Lea Co., NM			
SPUD/TD DATE:		9/5/1948 - 10/15/1948		COMP. DATE:		10/25/1948			
PREPARED BY:		Bret Shapol		DIAGRAM DATE:		8/10/2016			
TD (ft):		6,646		KB Elev. (ft):		3486			
				KB to Ground (ft)		11			
PBTD (ft):		6,521		Ground Elev. (ft):		3475			
CASING/TUBING		SIZE (IN)		WEIGHT (LB/FT)		GRADE		DEPTHS (FT)	
Surface Casing		13-3/8" (Cmt. w/ 300sx., Circ.)		65.0		H-40		0 348	
Int. Casing		9-5/8" (Cmt. w/ 1600sx, Circ)		36.0		H-40		0 2,841	
Prod. Casing		5-1/2" (Cmt. w/ 600sx, TOC @ 3800')		14 / 15.5		H-40 / J-55		0 6,646	
Tubing		2-7/8"		6.5		J-55		0 6,405	
PRODUCTION TBG STRING									
ITEM		DESCRIPTION					LENGTH (FT)		Depth (FT)
1		204 JTS 2-7/8" 6.5 LB/FT J-55 TBG							
2		TAC							6130
3		SN							6405
4									
5									
PRODUCTION ROD STRING									
ITEM		DESCRIPTION					LENGTH (FT)		Blm (FT)
1		62 JTS 1" RODS					1,550		
2		86 JTS 7/8" RODS					2,150		
3		105 JTS 3/4" RODS					2,625		
4		BHP: 2" X 1-1/2" X 24' RHBC					24		
5									
SURFACE EQUIPMENT									
PUMPING UNIT SIZE:				C-228-256-100		MOTOR HP:			
PUMPING UNIT MAKE:						MOTOR MAKE:			
PERFORATIONS									
Form.		Intervals					FT		SPF
Blinebry		(Squeezed) 5825-55, 5922-48					52		1/2
		(Squeezed) 5606, 25, 27, 44, 48, 52, 60, 68, 75, 94, 5707					11		1
		(Squeezed) 5717, 38, 40, 57, 71, 90, 5813					7		1
Tubb		(Squeezed) 6253, 55, 70, 72, 76, 88, 6304, 07, 16, 18, 44					11		1
		6270-76, 6314-20, 6338-44					21		2
Drinkard		6590-6626, 6630-36, 42-44					47		4
		6490 - 6560					70		1/2

Notes:

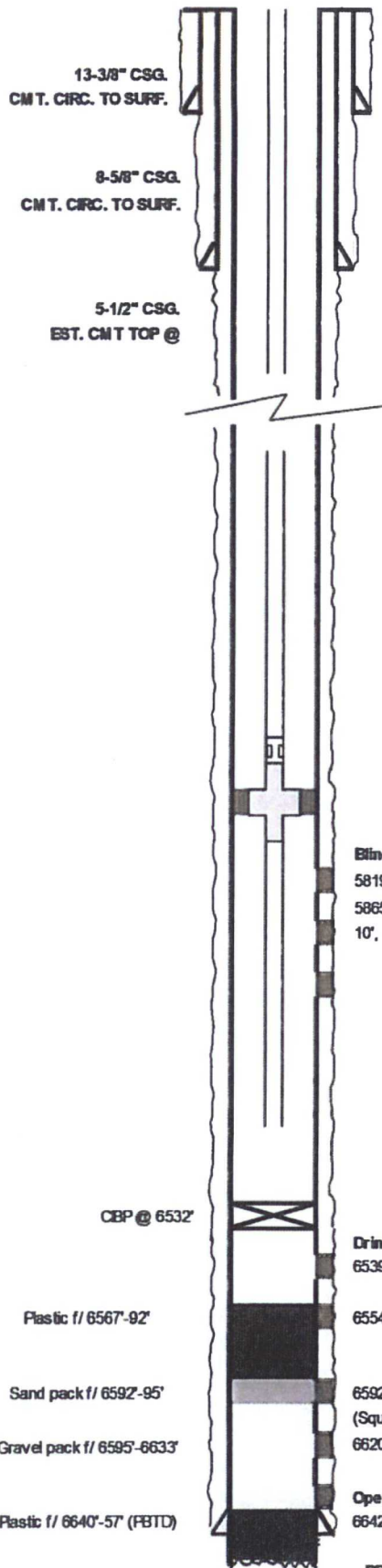
10/1948 - Perf and acidize Drinkard (6590-6643). 1/1950 - Install pumping unit. 11/1956 - Frac Drinkard w/40,000# sand. 7/1968 - Set CIBP to TA Drinkard, perf Blinebry 5825-5498 w/37,500#. 6/1985 - Squeeze Blinebry and Reactivate Drinkard. Perf Drinkard (6490-6560) and frac w/44,250#. 6/2006 - Set RBP & 6445 to TA Drinkard. Perf Blinebry (5606-5813) and Tubb (6253-6344). Frac B/T w/151,000#. Squeeze Blinebry 5606-5707 w/100 sx. 5/2007 - Set CIBP at 6550' w/29' of cement. Squeeze Blinebry 5717-5813. Communicated behind pipe into Tubb (6253-6344). Perf and acidize new Tubb (6270-6344).

Estimated Drinkard Top = 6476
 Estimated Abo Top = 6760

EXHIBIT B

PBTD 6,521.0
 TD: 6,646.0

Apache Corporation
WBDU #85 (Hardy Blinebry Unit #1)
WELL DIAGRAM (CURRENT CONFIGURATION)



WELL NAME:		WBDU #85 (Hardy Blinebry Unit #1)		API:		30-025-06652	
LOCATION:		660' FSL & 660' FEL, Sec 17, T-21S, R-37E		COUNTY:		Lea Co., NM	
SPUD/TD DATE:		4/24/1947 - 6/21/1947		COMP. DATE:		6/27/1947	
PREPARED BY:		Kris Hasselbach		DIAGRAM DATE:		12/15/2016	
TD (ft): 6,657		KB Elev. (ft): 3478		KB to Ground (ft)		11	
PBTD (ft): 6,532		Ground Elev. (ft): 3467					
CASING/TUBING		SIZE (IN)	WEIGHT (LB/FT)	GRADE		DEPTHS (FT)	
Surface Casing		13-3/8" (Cmt. w/ 300sx, Circ.)	36.0	?		0	297
Int. Casing		8-5/8" (Cmt. w/ 1200sx, TOC?)	32.0	H-40		0	2,814
Prod. Casing		5-1/2" (Cmt. w/ 500sx, TOC @)	15.5	J-55		0	6,641
Tubing		2-3/8"	4.7	J-55		0	5,909
PRODUCTION TBG STRING							
ITEM	DESCRIPTION				LENGTH (FT)	Depth (FT)	
1	192 JTS 2-3/8" 4.7 LB/FT J-55 TBG						
2	TAC					5713	
3	SN					5909	
4							
5							
PRODUCTION ROD STRING							
ITEM	DESCRIPTION				LENGTH (FT)	Btm (FT)	
1	62 JTS 7/8" RODS				1,550		
2	171 JTS 3/4" RODS				4,275		
3	BHP: 2" X 1-1/2" X 16" RHBC				16		
4							
5							
SURFACE EQUIPMENT							
PUMPING UNIT SIZE:				Bethlehem 160	MOTOR HP:		
PUMPING UNIT MAKE:					MOTOR MAKE:		
PERFORATIONS							
Form.	Intervals				FT	SPF	
Blinebry	5819, 23, 32, 37, 46, 51, 55, 65, 77, 81'				10	1	
Drinkard	6539'-41', 54-80'				28	5/4	
	6620'-37', 6592'-6620				45	8	
	(Squeezed) 6615'-20'				5	8	

Blinebry Perfs:
5819', 23, 32, 37, 46, 51, 55
5865', 77, 81
10', 10 shots

Drinkard Perfs
6539'-41'

6554'-80'

6592'-6615'

(Squeezed) 6615'-20'

6620'-37'

Open Hole

6642'-57'

PBTD 6,532.0
TD: 6,657.0

Notes:

6/7/1947- Perf Drinkard 6615'-20', test prod, squeezed w/ 50 SX cmt.
6/11/1947- Perf Drinkard 6620'-37'. Acidize w/ 1000 gals 15% HCl
6/17/1947- Perf Drinkard 6539'-41', 6554'-80'. Acidize each interval w/ 1000 gals 15% (2000 gals)
6/21/1947- Drill OH from 6642'-57'
6/27/1947- Plug back OH to 6640' w/ Dowell Plastic
10/4/1947- Comminciation btwn perfs @ 6554'-80' & 6592'-6637'. Set gravel pack f/ 6595'-6633', sand pack f/ 6592'-95', plastic plug f/ 6567'-92'
10/11/1947- Acidize Drinkard f/ 6539'-67' w/ 500 gals 15% Hcl
12/10/1947- Acidize Drinkard f/ 6539'-67' w/ 2000 gals 15% HCl
6/1/1958- Acidize Drinkard f/ 6539'-57' w/ 2000 gals 15% HCl
2/2/1966- Perf Blinebry 5819', 23, 32, 37, 46, 51, 55, 65, 77, 81' 1 SPF. Acidize w/ 874 gals 15% HCl, Frac Blinebry w/ 30000 gals oil + 30000# 20/40 sd, 24 BPM @ 5300 psi
3/14/1989- Acidize Blinebry w/ 3000 gals 15% HCl, 3 BPM, 2800 psi

Estimated Drinkard Top: 6457'
Estimated Abo Top: 6752'

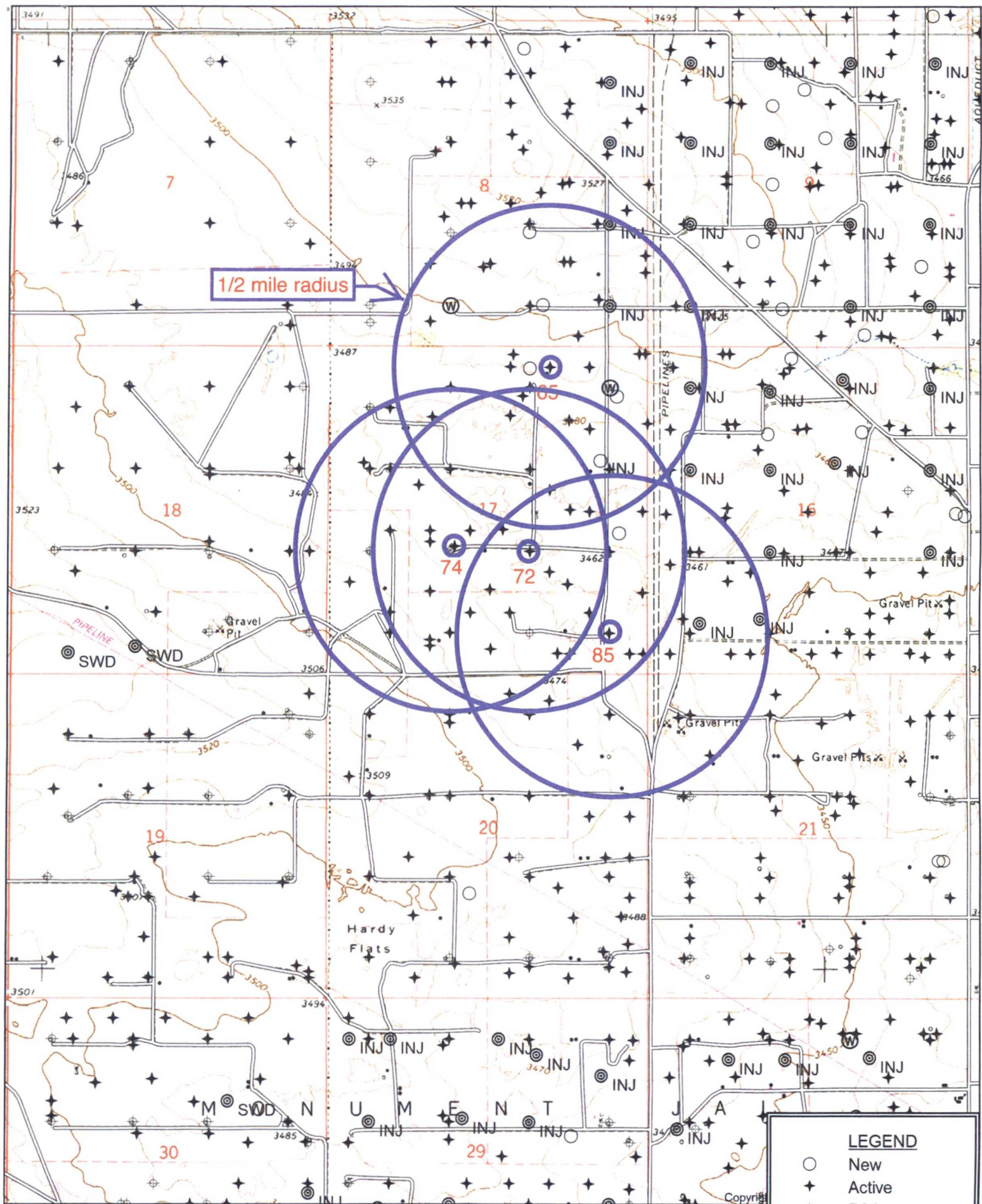
EXHIBIT B

PERFORATION AND ISOLATION TABULATION

well	current perfs	current status	zone	planned perfs	planned disposal zone
65	5574' - 5890'	active	Blinebry	6475' - 6775'	Drinkard
	6100' - 6450'	active	Tubb		
	6593' - 6684'	active	Drinkard		
72	2604' - 2782'	squeezed 400 sx	Yates, Seven Rivers, & Queen	6544' - 6703'	Drinkard
	2928' - 3417'				
	3516' - 3645'		Penrose		
	3694' - 3765'	squeezed 200 sx	Grayburg		
	5642' - 5860'	active	Blinebry		
	6202' - 6344'	active	Tubb		
	6450' - 6637'	active	Drinkard		
74	5606' - 5707'	squeezed 100 sx	Blinebry	6560' - 6738'	Drinkard
	5717' - 5813'	squeezed 150 sx			
	5825' - 5948'	squeezed 200 sx			
	6253' - 6344'	squeezed	Tubb		
	6270' - 6344'	active			
	6490' - 6560'	partially active	Drinkard		
	6521' - 6550'	CIBP + 29' cmt			
	6590' - 6644'	TA			
	6617'	sand fill			

PERFORATION AND ISOLATION TABULATION

well	current perfs	current status	zone	planned perfs	planned disposal zone
85	5819' - 5881'	active	Blinebry		
	6532'	CIBP	Drinkard	6538' - 6690'	Drinkard
	6539' - 6541'	TA			
	6554' - 6580'	partially TA (plastic 6567' - 6592')			
	6592' - 6615'	sand pack 6592' - 6595', gravel pack 6595' - 6633', squeezed 50 sx 6615' - 6620'			
	6620' - 6637'	gravel pack 6595' - 6633'			
	6642' - 6657'	open hole w/ plastic 6640' - 6657'			



1/2 mile radius

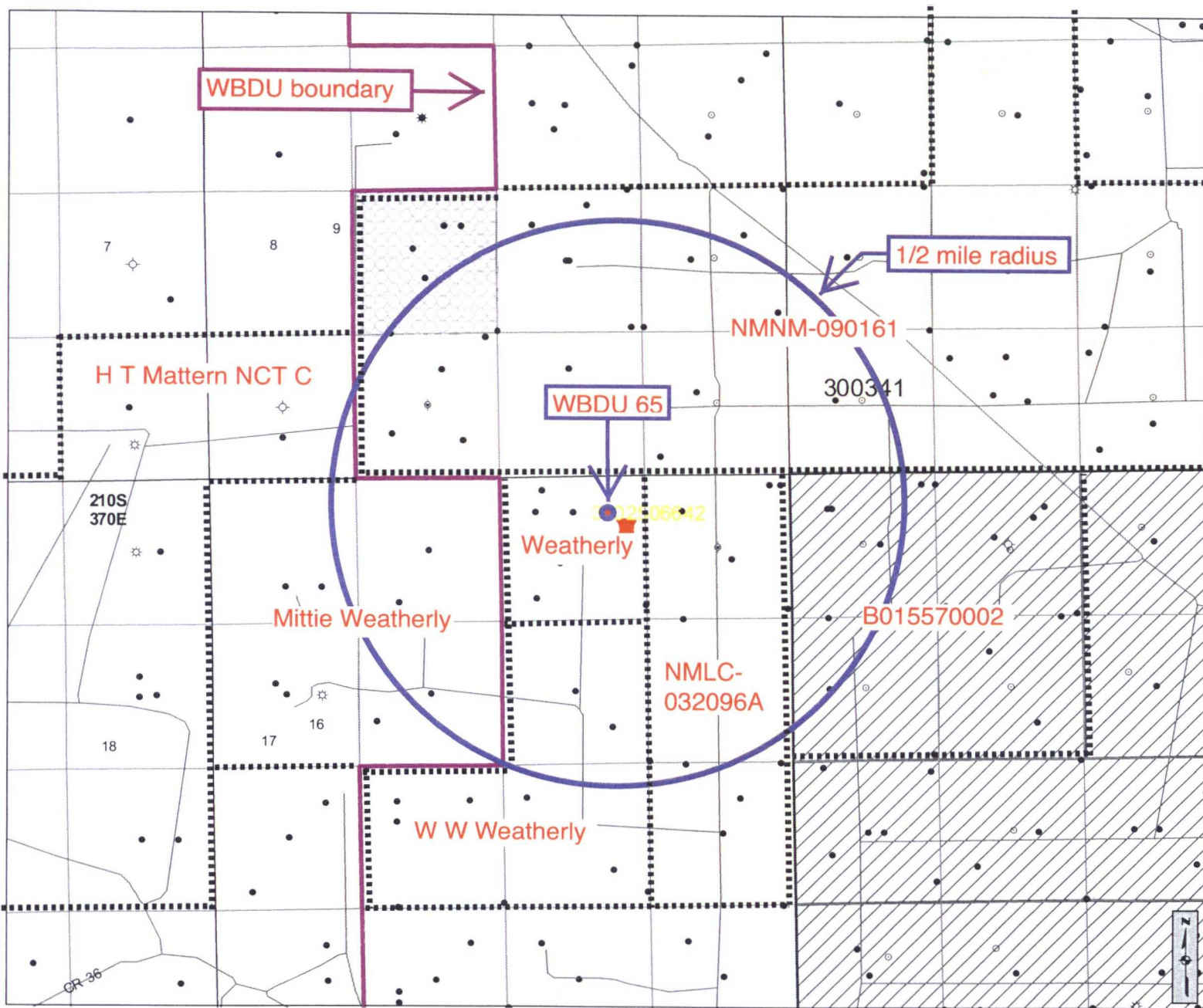


Quad: EUNICE
Scale: 1 inch = 2,000 ft.

EXHIBIT D

LEGEND

- New
- ✦ Active
- ⊕ P&A
- ⊙ INJ
- ⊙ SWD
- ⊙ W Water



Cartographic Features

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

Federal Minerals Ownership

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

State Trust Lands

- Surface Estate
- Subsurface Estate
- Surface and Subsurface Estate

State Leases

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

Oil and Gas Related Features

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

NMOC Oil and Gas Wells

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

New Mexico State Land Office Oil, Gas and Minerals

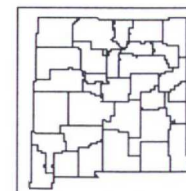
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Miles
Universal Transverse Mercator Projection, Zone 13
1983 North American Datum

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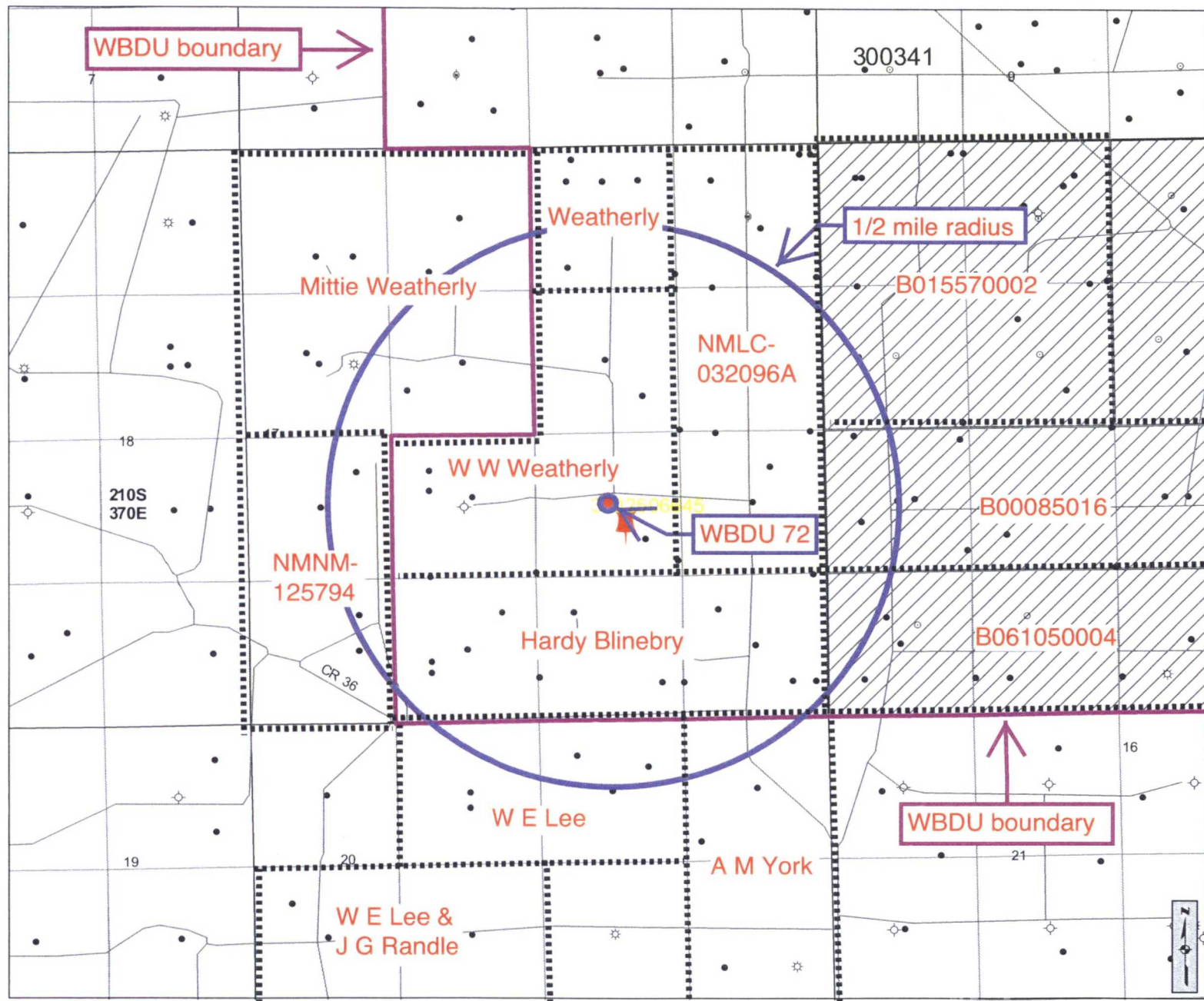
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EXHIBIT F



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Cartographic Features

- County Boundaries
- County Seats
- City, Town or Village
- SLO District Offices
- SLO District Boundary
- Hwy Mileposts
- Interstate
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NMOC D Oil and Gas Wells

- CO₂
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- Miscellaneous
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New Mexico State Land Office Oil, Gas and Minerals

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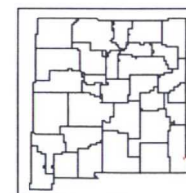
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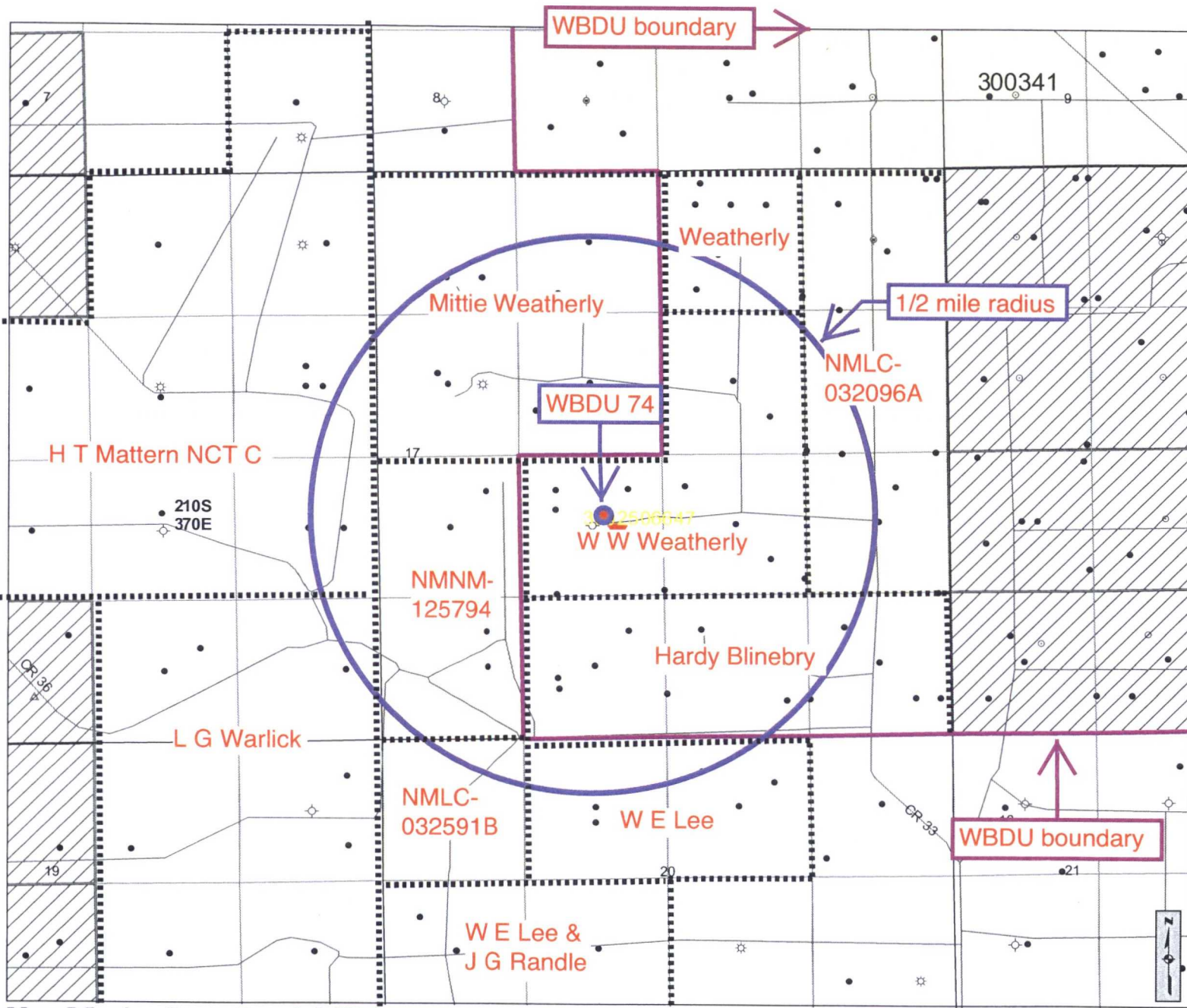
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Cartographic Features

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NMOCD Oil and Gas Wells

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New Mexico State Land Office Oil, Gas and Minerals

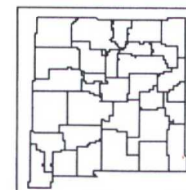
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Miles
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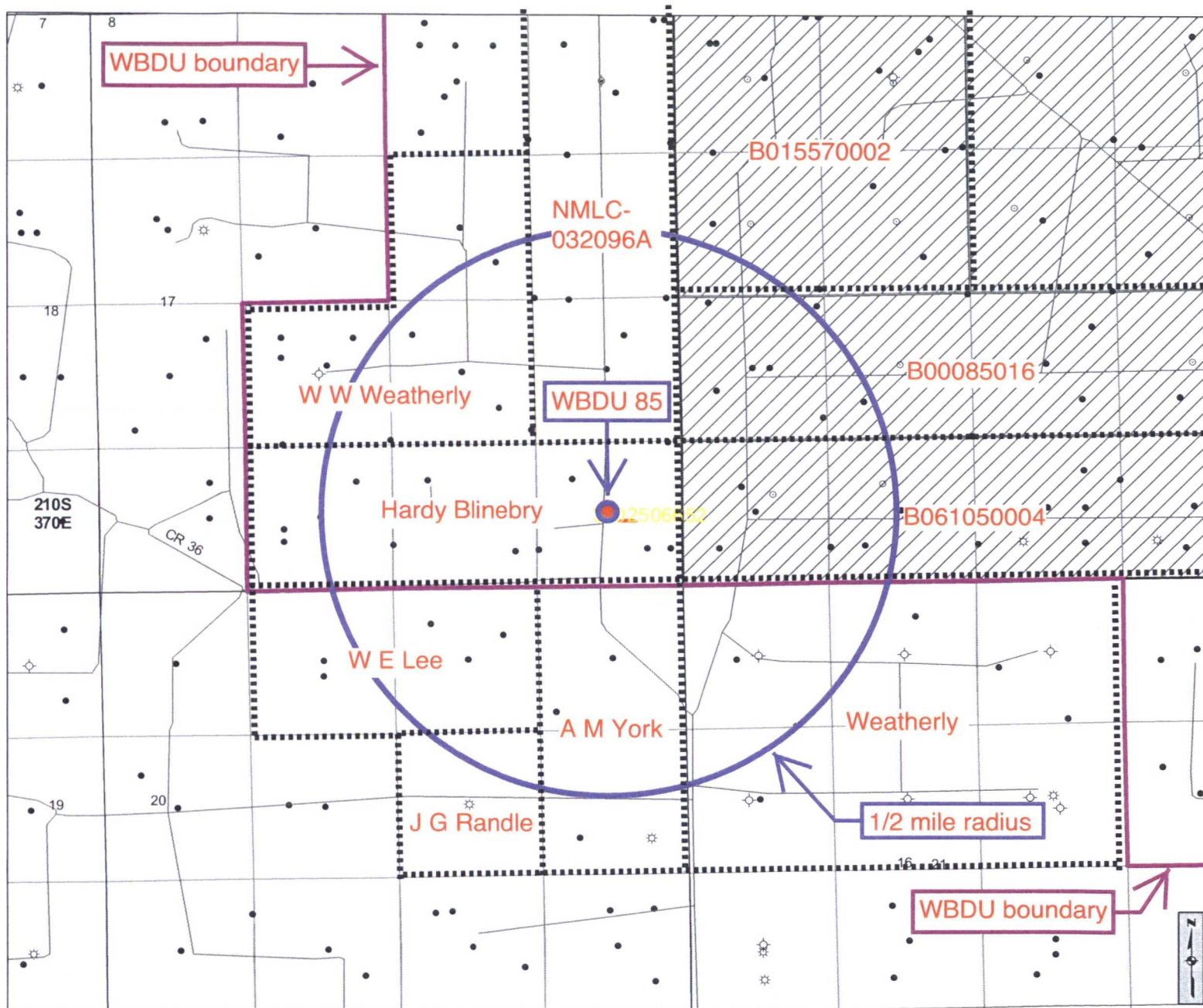
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Cartographic Features

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New Mexico State Land Office Oil, Gas and Minerals

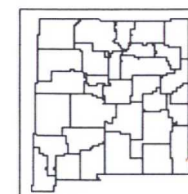
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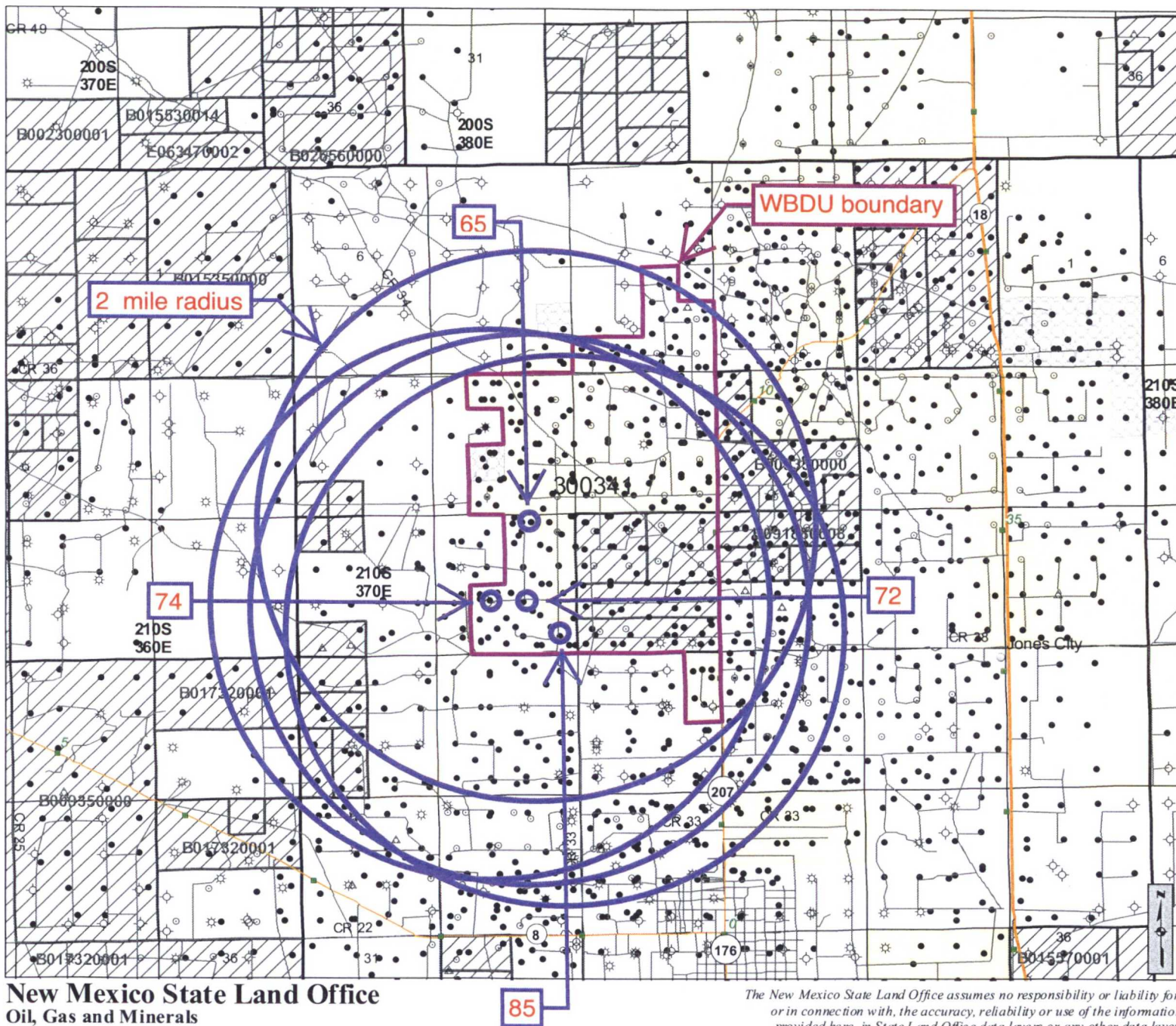
EXHIBIT F



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Aliquot Parts in 65 Area of Review (of T21S, R37E)	Lessor	Lease	Lessee(s) of Record	Drinkard operator
SE4 & E2SW4 Sec. 8	BLM	NMNM-090161	Apache & Chevron	Apache
SWSW Sec. 8	fee	H T Mattern NCT C	Chevron	Chevron formerly, none now
W2SW4 Sec. 9	BLM	NMNM-090161	Apache & Chevron	Apache
W2NW4 Sec. 16	NMSLO	B015570002	Apache	Apache
E2NE4 & NESE Sec. 17	BLM	NMLC-032096A	Apache & Chevron	Apache
NWNE Sec. 17	fee	Weatherly	Apache	Apache
SWNE & NWSE Sec. 17	fee	W W Weatherly	Apache	Apache
NENW Sec. 17	fee	Mittie Weatherly	Chevron	Gulf formerly, none now
NWNW Sec. 17	fee	Mittie Weatherly	Chevron	none
SWNW Sec. 17	fee	Mittie Weatherly	Chevron	Chevron
SENE Sec. 17	fee	Mittie Weatherly	Chevron	Chevron formerly, none now
Aliquot Parts in 72 Area of Review (of T21S, R37E)	Lessor	Lease	Lessee(s) of Record	Drinkard operator
SWNW Sec. 16	NMSLO	B015570002	Apache	Apache
NWSW Sec. 16	NMSLO	B000850016	Apache	Apache
SWSW Sec. 16	NMSLO	B061050004	Apache	Apache
E2NE4 & NESE Sec. 17	BLM	NMLC-032096A	Apache & Chevron	Apache
NWNE Sec. 17	fee	Weatherly	Apache	Apache
NENW Sec. 17	fee	Mittie Weatherly	Chevron	Gulf formerly, none now
SWNW Sec. 17	fee	Mittie Weatherly	Chevron	Chevron
SENE Sec. 17	fee	Mittie Weatherly	Chevron	Chevron formerly, none now
SWNE, NWSE, & NESW Sec. 17	fee	W W Weatherly	Apache	Apache
NWSW Sec. 17	BLM	NMNM-125794	Apache, Chevron, ConocoPhillips	Peery formerly, none now
SWSW Sec. 17	BLM	NMNM-125794	Apache, Chevron, ConocoPhillips	Upland
NENE Sec. 20	fee	A M York	Chevron	Chevron
NWNE & NENW Sec. 20	fee	W E Lee	Upland	Upland

Aliquot Parts in 74 Area of Review (of T21S, R37E)	Lessor	Lease	Lessee(s) of Record	Drinkard operator
NWNE Sec. 17	fee	Weatherly	Apache	Apache
NENW Sec. 17	fee	Mittie Weatherly	Chevron	Gulf formerly, none now
NWNW Sec. 17	fee	Mittie Weatherly	Chevron	none
SWNW Sec. 17	fee	Mittie Weatherly	Chevron	Chevron
SENE Sec. 17	fee	Mittie Weatherly	Chevron	Chevron formerly, none now
SWNE, NWSE, & NESW Sec. 17	fee	W W Weatherly	Apache	Apache
SWNE & NESE Sec. 17	BLM	NMLC-032096A	Apache & Chevron	Apache
S2SE4 & SESW Sec. 17	fee	Hardy Blinbry	Apache	Apache
NWSW Sec. 17	BLM	NMNM-125794	Apache, Chevron, ConocoPhillips	Peery formerly, none now
SWSW Sec. 17	BLM	NMNM-125794	Apache, Chevron, ConocoPhillips	Upland
SENE Sec. 18	fee	H T Mattern NCT C	Chevron	Chevron
NESE Sec. 18	fee	H T Mattern NCT C	Chevron	Chevron formerly, none now
SESE Sec. 18	fee	L G Warlick	Chevron	Chevron formerly, none now
NWNE & NENW Sec. 20	fee	W E Lee	Upland	Upland
NWNW Sec. 20	BLM	NMLC-032591B	Sheridan	Sun formerly, none now
Aliquot Parts in 85 Area of Review (of T21S, R37E)	Lessor	Lease	Lessee(s) of Record	Drinkard operator
SWNW Sec. 16	NMSLO	B015570002	Apache	Apache
N2SW4 Sec. 16	NMSLO	B000850016	Apache	Apache
S2SW4 Sec. 16	NMSLO	B061050004	Apache	Apache
E2NE4 Sec. 20	fee	A M York	Chevron	Chevron
NWNE & NENW Sec. 20	fee	W E Lee	Upland	Upland
SWNE Sec. 20	fee	J G Randle	Chevron	Petro-Lewis formerly, none now
N2NW4 Sec. 21	fee	Weatherly	Stephens & Johnson	Stephens & Johnson
SWNW Sec. 21	fee	Weatherly	Stephens & Johnson	Stephens & Johnson formerly, none now



Cartographic Features

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State Leases

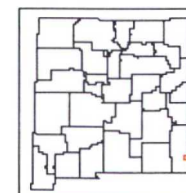
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New Mexico State Land Office Oil, Gas and Minerals

0 0.25 0.5 1 1.5 2 Miles

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EXHIBIT G

API	OPERATOR	WELL	TYPE	UNIT-SECTION	TVD	Zone	FEET FROM WBDU 65
3002523717	Apache	W W Weatherly 005	O	B-17	3875	Penrose Skelly; Grayburg	467
3002537379	Apache	Lockhart A 17 010	O	A-17	4360	Penrose Skelly; Grayburg	615
3002540429	Apache	WBDU 144H	O	B-17	6673	Eunice; Bli-Tu-Dr, N	666
3002540274	Apache	WBDU 124	O	P-8	7300	Eunice; Bli-Tu-Dr, N	677
3002539733	Apache	WBDU 109	O	B-17	7200	Eunice; Bli-Tu-Dr, N	701
3002538377	Apache	W W Weatherly 012	O	B-17	4150	Penrose Skelly; Grayburg	713
3002539987	Apache	WBDU 125	O	B-17	6951	Eunice; Bli-Tu-Dr, N	877
3002539278	Apache	WBDU 117	O	B-17	7000	Eunice; Bli-Tu-Dr, N	1036
3002506435	Apache	Hawk Fed B 1 012	O	O-8	6722	Penrose Skelly; Grayburg	1045
3002506639	Apache	WBDU 067	W	A-17	6770	Eunice; Bli-Tu-Dr, N	1049
3002542493	Apache	WBDU 185	I	O-8	Plan: 7200	Eunice; Bli-Tu-Dr, N	1065
3002542495	Apache	WBDU 130	I	A-17	Plan: 7200	Eunice; Bli-Tu-Dr, N	1149
3002536101	Apache	Lockhart A 17 006	O	H-17	4150	Penrose Skelly; Grayburg	1202
3002535795	Apache	Hawk Fed B 1 018	O	P-8	4200	Penrose Skelly; Grayburg	1358
3002506433	Apache	WBDU 040	I	P-8	6758	Eunice; Bli-Tu-Dr, N	1392
3002538205	Apache	WBDU 070	O	A-17	6925	Eunice; Bli-Tu-Dr, N	1449
3002543229	Apache	WBDU 145	I	H-17	Plan: 6850	Eunice; Bli-Tu-Dr, N	1573
3002536661	Apache	Lockhart A 17 009	O	A-17	4350	Penrose Skelly; Grayburg	1592
3002506649	Chevron	Mittie Weatherly 003	O	C-17	6651	Penrose Skelly; Grayburg	1659
3002506646	Apache	WBDU 073	O	G-17	6677	Eunice; Bli-Tu-Dr, N	1682

3002537020	Apache	WBDU 046	O	J-8	7383	Eunice; Bli-Tu-Dr, N	1710
3002536158	Apache	Hawk Fed B 1 032	O	I-8	4200	Penrose Skelly; Grayburg	1728
3002538206	Apache	WBDU 071	O	A-17	6905	Eunice; Bli-Tu-Dr, N	1804
3002526601	Apache	WBDU 043	WSW	N-8	6825	San Andres	1906
3002506638	Apache	WBDU 066	P&A	H-17	6645	Eunice; Bli-Tu-Dr, N	1929
3002537741	Apache	WBDU 047	O	K-8	6950	Eunice; Bli-Tu-Dr, N	1958
3002537997	Apache	Hawk Fed B 1 051	O	N-8	4405	Penrose Skelly; Grayburg	1975
3002536658	Apache	W W Weatherly 007	O	G-17	4234	Penrose Skelly; Grayburg	1980
3002541375	Apache	State C Tract 12 001H	P&A	D-16	795'	fish	1980
3002541454	Apache	State C Tract 12 COM 001Y	O	D-16	6872	Eunice; Bli-Tu-Dr, N	1991
3002537188	Chevron	Mittie Weatherly 008	O	C-17	4326	Penrose Skelly; Grayburg	2080
3002540276	Apache	WBDU 135	O	N-8	7125	Eunice; Bli-Tu-Dr, N	2119
3002536532	Apache	Hawk Fed B 1 039	O	P-8	4350	Penrose Skelly; Grayburg	2194
3002536115	Apache	State C Tract 12 012	O	E-16	4125	Penrose Skelly; Grayburg	2229
3002538411	Apache	WBDU 068	O	H-17	6905	Eunice; Bli-Tu-Dr, N	2293
3002535796	Apache	Hawk Fed B 1 019	O	M-9	4200	Penrose Skelly; Grayburg	2306
3002506635	Chevron	Mittie Weatherly 001	O	F-17	6635	Penrose Skelly; Grayburg	2314
3002522859	Conoco	Hawk B 1 014	P&A	J-8	6836	Eunice; Bli-Tu-Dr, N	2335
3002535878	Apache	Hawk Fed B 1 022	O	J-8	4215	Penrose Skelly; Grayburg	2338
3002506629	Apache	WBDU 061	I	D-16	6690	Eunice; Bli-Tu-Dr, N	2345
3002537742	Apache	WBDU 048	O	I-8	6950	Eunice; Bli-Tu-Dr, N	2392

3002536159	Apache	Lockhart A 17 007	O	I-17	4100	Penrose Skelly; Grayburg	2417
3002535877	Apache	Hawk Fed B 1 021	O	I-8	4212	Penrose Skelly; Grayburg	2439
3002535515	Apache	State C Tract 12 008	O	D-16	4450	Penrose Skelly; Grayburg	2495
3002506434	Apache	WBDU 041	I	I-8	6775	Eunice; Bli-Tu-Dr, N	2513
3002506441	Apache	WBDU 039	I	M-9	6770	Eunice; Bli-Tu-Dr, N	2521
3002535709	Apache	State C Tract 12 011	O	E-16	4200	Penrose Skelly; Grayburg	2588
3002540273	Apache	WBDU 108	O	K-8	7265	Eunice; Bli-Tu-Dr, N	2596
3002535807	Apache	Hawk Fed B 1 029	P&A	K-8	4200	Penrose Skelly; Grayburg	2708

API	OPERATOR	WELL	UNIT-SECTION	TVD	TYPE	ZONE	FEET FROM WBDU 72
3002536659	Apache	W W Weatherly 008	J-17	4215	O	Penrose Skelly; Grayburg	468
3002539709	Apache	WBDU 118	J-17	7200	O	Eunice; Bli-Tu-Dr, N	603
3002539172	Apache	WBDU 123	J-17	7200	O	Eunice; Bli-Tu-Dr, N	801
3002539279	Apache	WBDU 119	K-17	6900	O	Eunice; Bli-Tu-Dr, N	924
3002538411	Apache	WBDU 068	H-17	6905	O	Eunice; Bli-Tu-Dr, N	949
3002524178	Apache	W W Weatherly 006	K-17	3840	O	Penrose Skelly; Grayburg	1019
3002523795	Apache	Percy Hardy 004	O-17	3850	O	Penrose Skelly; Grayburg	1043
3002536658	Apache	W W Weatherly 007	G-17	4234	O	Penrose Skelly; Grayburg	1046
3002536159	Apache	Lockhart A 17 007	I-17	4100	O	Penrose Skelly; Grayburg	1187
3002506647	Apache	WBDU 074	K-17	6646	O	Eunice; Bli-Tu-Dr, N	1224
3002506644	Sun Oil	W W Weatherly 001	K-17	3815	P&A	Penrose Skelly	1295
3002506653	Apache	WBDU 086	O-17	6650	P&A	Eunice; Bli-Tu-Dr, N	1320
3002506646	Apache	WBDU 073	G-17	6677	O	Eunice; Bli-Tu-Dr, N	1323
3002506637	Apache	Lockhart A 17 002	I-17	6630	O	Penrose Skelly; Grayburg	1327
3002523858	Apache	Hardy 002	N-17	3887	O	Penrose Skelly; Grayburg	1379
3002523831	Apache	Percy Hardy 005	P-17	3849	O	Penrose Skelly; Grayburg	1405
3002542496	Apache	WBDU 221	I-17	Plan: 7200	O	Eunice; Bli-Tu-Dr, N	1494
3002538376	Apache	W W Weatherly 010	K-17	4167	O	Penrose Skelly; Grayburg	1685
3002539710	Apache	WBDU 120	O-17	7219	O	Eunice; Bli-Tu-Dr, N	1706
3002539988	Apache	WBDU 136	K-17	6950	O	Eunice; Bli-Tu-Dr, N	1711
3002536477	Apache	Percy Hardy 009	O-17	4350	O	Penrose Skelly; Grayburg	1715

3002539986	Apache	WBDU 121	P-17	6970	O	Eunice; Bli-Tu-Dr, N	1768
3002539171	Apache	WBDU 122	K-17	6962	O	Eunice; Bli-Tu-Dr, N	1801
3002506643	Apache	WBDU 087	N-17	6659	O	Eunice; Bli-Tu-Dr, N	1847
3002543229	Apache	WBDU 145	H-17	Plan: 6850	I	Eunice; Bli-Tu-Dr, N	1849
3002506635	Chevron	Mittie Weatherly 001	F-17	6635	O	Penrose Skelly; Grayburg	1853
3002506638	Apache	WBDU 066	H-17	6645	P&A	Eunice; Bli-Tu-Dr, N	1871
3002506652	Apache	WBDU 085	P-17	6657	O	Eunice; Bli-Tu-Dr, N	1874
3002538204	Apache	WBDU 069	I-17	6829	O	Eunice; Bli-Tu-Dr, N	1951
3002539958	Apache	WBDU 126	P-17	6920	O	Eunice; Bli-Tu-Dr, N	1962
3002539038	Chevron	Mittie Weatherly 009	F-17	4321	O	Penrose Skelly; Grayburg	2148
3002539989	Apache	WBDU 139	N-17	6970	O	Eunice; Bli-Tu-Dr, N	2206
3002536101	Apache	Lockhart A 17 006	H-17	4150	O	Penrose Skelly; Grayburg	2207
3002539987	Apache	WBDU 125	B-17	6951	O	Eunice; Bli-Tu-Dr, N	2226
3002539278	Apache	WBDU 117	B-17	7000	O	Eunice; Bli-Tu-Dr, N	2245
3002538686	Apache	Hardy 004	N-17	4525	O	Penrose Skelly; Grayburg	2273
3002537864	Apache	State DA 014	L-16	4375	O	Penrose Skelly; Grayburg	2303
3002506640	Upland	Lockhart 001	L-17	6690	O	Bliebry (Oil) & Tubb (Oil)	2314
3002536617	Apache	State DA 009	L-16	4350	O	Penrose Skelly; Grayburg	2333
3002527199	Upland	W E Lee 007	B-20	4200	O	Penrose Skelly; Grayburg	2333
3002536056	Apache	Percy Hardy 010	P-17	4350	O	Penrose Skelly; Grayburg	2342
3002511520	Upland	W E Lee 002	B-20	6658	O	Tubb (Oil)	2444
3002539280	Apache	WBDU 129	P-17	7120	O	Eunice; Bli-Tu-Dr, N	2484

3002527123	Upland	A M Lockhart 003	M-17	4202	O	Penrose Skelly; Grayburg	2492
3002540429	Apache	WBDU 144H	B-17	6673	O	Eunice; Bli-Tu-Dr, N	2534
3002506636	Conoco	Lockhart A 17 001	L-17	3816	P&A	Penrose Skelly; Grayburg	2621
3002506641	Upland	Lockhart 002	M-17	6690	O	Bliebry (Oil) & Drinkard (Oil)	2640
3002509920	Upland	W E Lee 005	B-20	5985	O	Bliebry (Oil)	2640
3002523717	Apache	W W Weatherly 005	B-17	3875	O	Penrose Skelly; Grayburg	2643
3002506648	Chevron	Mittie Weatherly 002	E-17	6650	G	Eunice; San Andres, N (Gas)	2647
3002506615	Apache	WBDU 075	L-16	6650	I	Eunice; Bli-Tu-Dr, N	2653

API	OPERATOR	WELL	TYPE	UNIT-SECTION	TVD	ZONE	FEET FROM WBDU 74
3002506644	Sun Oil	W W Weatherly 001	P&A	K-17	3815	Penrose Skelly ; Grayburg	107
3002524178	Apache	W W Weatherly 006	O	K-17	3840	Penrose Skelly; Grayburg	360
3002538376	Apache	W W Weatherly 010	O	K-17	4167	Penrose Skelly; Grayburg	463
3002539988	Apache	WBDU 136	O	K-17	6950	Eunice; Bli-Tu-Dr, N	524
3002539709	Apache	WBDU 118	O	J-17	7200	Eunice; Bli-Tu-Dr, N	790
3002539171	Apache	WBDU 122	O	K-17	6962	Eunice; Bli-Tu-Dr, N	855
3002539279	Apache	WBDU 119	O	K-17	6900	Eunice; Bli-Tu-Dr, N	861
3002506640	Upland Prod	Lockhart 001	O	L-17	6690	Blinbry (Oil & Tubb (Oil))	1098
3002523858	Apache	Hardy 002	O	N-17	3887	Penrose Skelly; Grayburg	1100
3002539038	Chevron	Mittie Weatherly 009	O	F-17	4321	Penrose Skelly; Grayburg	1189
3002506645	Apache	WBDU 072	O	J-17	6637	Eunice; Bli-Tu-Dr, N	1224
3002506635	Chevron	Mittie Weatherly 001	O	F-17	6635	Penrose Skelly; Grayburg	1247
3002523795	Apache	Percy Hardy 004	O	O-17	3850	Penrose Skelly; Grayburg	1392
3002506643	Apache	WBDU 087	O	N-17	6659	Eunice; Bli-Tu-Dr, N	1400
3002506636	Conoco	Lockhart A 17 001	P&A	L-17	3816	Penrose Skelly; Grayburg	1402
3002527123	Upland Prod	A M Lockhart 003	O	M-17	4202	Penrose Skelly; Grayburg	1509
3002539989	Apache	WBDU 139	O	N-17	6970	Eunice; Bli-Tu-Dr, N	1570
3002536659	Apache	W W Weatherly 008	O	J-17	4215	Penrose Skelly; Grayburg	1607
3002506648	Chevron	Mittie Weatherly 002	G	E-17	6650	Eunice; San Andres, N (Gas)	1642
3002538686	Apache	Hardy 004	O	N-17	4525	Penrose Skelly; Grayburg	1666
3002539710	Apache	WBDU 120	O	O-17	7219	Eunice; Bli-Tu-Dr, N	1740
3002506646	Apache	WBDU 073	O	G-17	6677	Eunice; Bli-Tu-Dr, N	1741
3002506641	Upland Prod	Lockhart 002	O	M-17	6690	Blinbry (Oil)	1757

3002536658	Apache	W W Weatherly 007	O	G-17	4234	Penrose Skelly; Grayburg	1800
3002536160	Apache	Lockhart A 17 008	O	L-17	4000	Penrose Skelly; Grayburg	1824
3002506653	Apache	WBDU 086	P&A	O-17	6650	Eunice; Bli-Tu-Dr, N	1859
3002506650	Chevron	Mittie Weatherly 004	P&A	E-17	3945	Penrose Skelly; Grayburg	1876
3002539172	Apache	WBDU 123	O	J-17	7200	Eunice; Bli-Tu-Dr, N	1927
3002538411	Apache	WBDU 068	O	H-17	6905	Eunice; Bli-Tu-Dr, N	1962
3002528395	Chevron	Mittie Weatherly 006	O	E-17	6800	Drinkard	2018
3002537188	Chevron	Mittie Weatherly 008	O	C-17	4326	Penrose Skelly; Grayburg	2117
3002536159	Apache	Lockhart A 17 007	O	I-17	4100	Penrose Skelly; Grayburg	2287
3002539278	Apache	WBDU 117	O	B-17	7000	Eunice; Bli-Tu-Dr, N	2294
3002525025	Chevron	H T Mattern NCT C 005	O	I-18	7001	Wantz; Abo	2396
3002536477	Apache	Percy Hardy 009	O	O-17	4350	Penrose Skelly; Grayburg	2416
3002523831	Apache	Percy Hardy 005	O	P-17	3849	Penrose Skelly; Grayburg	2463
3002535745	Chevron	Mittie Weatherly 007	O	D-17	3600	Penrose Skelly; Grayburg	2480
3002539986	Apache	WBDU 121	O	P-17	6970	Eunice; Bli-Tu-Dr, N	2549
3002506637	Apache	Lockhart A 17 002	O	I-17	6630	Penrose Skelly; Grayburg	2549
3002527199	Upland Prod	W E LEE 007	O	B-20	4200	Penrose Skelly; Grayburg	2551
3002506649	Chevron	Mittie Weatherly 003	O	C-17	6651	Penrose Skelly; Grayburg	2566
3002506651	Chevron	Mittie Weatherly 005	P&A	D-17	3824	Penrose Skelly; Grayburg	2640
3002540429	Apache	WBDU 144H	O	B-17	6673	Eunice; Bli-Tu-Dr, N	2666

API	OPERATOR	UNIT-SECTION	TVD	WELL	TYPE	ZONE	FEET FROM WBDU 85
3002523831	Apache	P-17	3849	Percy Hardy 005	O	Penrose Skelly; Grayburg	469
3002536056	Apache	P-17	4350	Percy Hardy 010	O	Penrose Skelly; Grayburg	469
3002539280	Apache	P-17	7120	WBDU 129	O	Eunice; Bli-Tu-Dr, N	624
3002539986	Apache	P-17	6970	WBDU 121	O	Eunice; Bli-Tu-Dr, N	741
3002539958	Apache	P-17	6920	WBDU 126	O	Eunice; Bli-Tu-Dr, N	841
3002536477	Apache	O-17	4350	Percy Hardy 009	O	Penrose Skelly; Grayburg	924
3002537364	Apache	M-16	4402	State Land 15 007	O	Penrose Skelly; Grayburg	1029
3002539172	Apache	J-17	7200	WBDU 123	O	Eunice; Bli-Tu-Dr, N	1077
3002539606	Apache	M-16	4404	State Land 15 019	O	Penrose Skelly; Grayburg	1212
3002506637	Apache	I-17	6630	Lockhart A 17 002	O	Penrose Skelly; Grayburg	1320
3002509924	Chevron	A-20	6637	A M York 002	O	Blinebry (Oil)	1320
3002506653	Apache	O-17	6650	WBDU 086	P&A	Eunice; Bli-Tu-Dr, N	1327
3002506630	Apache	M-16	6700	State Land 15 001	O	Penrose Skelly; Grayburg	1327
3002536659	Apache	J-17	4215	W W Weatherly 008	O	Penrose Skelly; Grayburg	1405
3002541543	Apache	M-16	6955	WBDU 152	I	Eunice; Bli-Tu-Dr, N	1478
3002511520	Upland Prod	B-20	6658	W E Lee 002	O	Tubb (Oil)	1481
3002537864	Apache	L-16	4375	State DA 014	O	Penrose Skelly; Grayburg	1487
3002542496	Apache	I-17	Plan: 7200	WBDU 221	O	Eunice; Bli-Tu-Dr, N	1657
3002523795	Apache	O-17	3850	Percy Hardy 004	O	Penrose Skelly; Grayburg	1692
3002538799	Stephens & Johnson	D-21	4244	Weatherly 012	O	Penrose Skelly; Grayburg	1754
3002509920	Upland Prod	B-20	5985	W E Lee 005	O	Blinebry (Oil)	1869

3002506615	Apache	L-16	6650	WBDU 075	I	Eunice; Bli-Tu-Dr, N	1869
3002506720	Stephens & Johnson	D-21	6629	Weatherly 002	O	Blincbry (Oil)	1874
3002506645	Apache	J-17	6637	WBDU 072	O	Eunice; Bli-Tu-Dr, N	1874
3002537945	Chevron	A-20	4326	A M York 003	O	Penrose Skelly; Grayburg	1877
3002527199	Upland Prod	B-20	4200	W E Lee 007	O	Penrose Skelly; Grayburg	1929
3002534245	Apache	L-16	4000	State DA 006	O	Penrose Skelly; Grayburg	1979
3002536159	Apache	I-17	4100	Lockhart A 17 007	O	Penrose Skelly; Grayburg	1999
3002537537	Apache	N-16	7290	WBDU 094	O	Eunice; Bli-Tu-Dr, N	2008
3002539710	Apache	O-17	7219	WBDU 120	O	Eunice; Bli-Tu-Dr, N	2012
3002538204	Apache	I-17	6829	WBDU 069	O	Eunice; Bli-Tu-Dr, N	2046
3002538414	Apache	L-16	6850	WBDU 083	O	Eunice; Bli-Tu-Dr, N	2112
3002536617	Apache	L-16	4350	State DA 009	O	Penrose Skelly; Grayburg	2130
3002538411	Apache	H-17	6905	WBDU 068	O	Eunice; Bli-Tu-Dr, N	2137
3002539279	Apache	K-17	6900	WBDU 119	O	Eunice; Bli-Tu-Dr, N	2150
3002523858	Apache	N-17	3887	Hardy 002	O	Penrose Skelly; Grayburg	2314
3002537365	Apache	N-18	4435	State Land 15 008	O	Penrose Skelly; Grayburg	2326
3002539709	Apache	J-17	7200	WBDU 118	O	Eunice; Bli-Tu-Dr, N	2472
3002541549	Apache	N-16	6952	WBDU 154	I	Eunice; Bli-Tu-Dr, N	2476
3002536658	Apache	G-17	4234	W W Weatherly 007	O	Penrose Skelly; Grayburg	2520
3002536787	Apache	K-16	4350	State DA 011	O	Penrose Skelly; Grayburg	2521
3002538800	Stephens & Johnson	D-21	6750	Weatherly 011	O	Eunice; Bli-Tu-Dr, N	2550
3002506643	Apache	N-17	6659	WBDU 087	O	Eunice; Bli-Tu-Dr, N	2621

3002506638	Apache	H-17	6645	WBDU 066	P&A	Eunice; Bli-Tu-Dr, N	2643
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Drinkard penetrators sorted by distance from WBDU 65

WELL	SPUD	TD	Pool	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
WBDU 144H	4/4/12	6673	Eunice; Bli-Tu-Dr, N	O	17.5	13.375	1235	1230 sx	GL	Circ 160 sx
30-025-40429					11	8.625	5741	1350 sx	GL	Circ 42 BBLS
B-17-21S-37E					7.875	5.5	10657	515 sx	GL	circ
WBDU 124	10/24/11	7300	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1352	710 sx	GL	Circ 102 sx
30-025-40274					7.875	5.5	7300	1225 sx	278	CBL
P-8-21S-37E										
WBDU 109	4/25/10	7200	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1270	725 sx	GL	Circ
3002539733					7.875	5.5	7200	1175 sx	GL	Circ
B-17-21S-37E										
WBDU 125	1/22/11	6951	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1317	665 sx	GL	Circ 222 sx
30-025-39987					7.875	5.5	6951	1300 sx	GL	Circ 137 sx
B-17-21S-37E										

Drinkard penetrators sorted by distance from WBDU 65

WBDU 117	1/2/11	7000	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1298	670 sx	GL	Circ 80 sx
30-025-39278					7.875	5.5	7000	985 sx	300	CBL
B-17-21S-37E										
Hawk Fed B 1 012	4/4/52	6722	Penrose Skelly; Grayburg	O	17	13.375	238	260 sx	GL	Circ
30-025-06435					12.25	9.625	2856	1360 sx	GL	Circ
O-8-21S-37E					8.75	7	6659	625 sx	2836	Temp Survey
WBDU 067	12/31/49	6770	Eunice; Bli-Tu-Dr, N	W	16	13.375	228	250 sx	GL	Circ
30-025-06639					12.5	9.625	2819	900 sx	675	Temp Survey
A-17-21S-37E					8.75	7	6767	650 sx	2830	CBL
WBDU 185	Plan	7200	Eunice; Bli-Tu-Dr, N	I	11	8.625	1375	440 sx	GL	N/A
30-025-42493					7.875	5.5	7200	975 sx	GL	N/A
O-8-21S-37E										

Drinkard penetrators sorted by distance from WBDU 65

WBDU 130	Plan	7200	Eunice; Bli-Tu-Dr, N	I	11	8.625	1375	440 sx	GL	N/A
30-025-42495					7.875	5.5	7200	975 sx	GL	N/A
A-17-21S-37E										
WBDU 040	11/12/49	6758	Eunice; Bli-Tu-Dr, N	I	17	13.375	229	250 sx	GL	Circ
30-025-06433					12.25	9.625	2818	1100 sx	1375	Temp Survey
P-8-21S-37E					8.75	7	6753	625 sx	2321	Temp Survey
WBDU 070	3/6/07	6925	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1302	575 sx	GL	Circ
30-025-38205					7.875	5.5	6925	1100 sx	245	CBL
A-17-21S-37E										
WBDU 145	Plan	6850	Eunice; Bli-Tu-Dr, N	I	11	8.625	1350	450 sx	GL	N/A
30-025-43229					7.875	5.5	6850	900 sx	GL	N/A
H-17-21S-37E										

Drinkard penetrators sorted by distance from WBDU 65

Mittie Weatherly 003	10/13/52	6651	Penrose Skelly; Grayburg	O	17.5	13.375	314	325 sx	GL	Circ
30-025-06649					11	8.625	2812	1500 sx	GL	Circ
C-17-21S-37E					7.875	5.5	6650	350 sx	3200	CBL
WBDU 073	5/19/87	6677	Eunice; Bli-Tu-Dr, N	O	13.75	10.75	363	300 sx	GL	No report
30-025-06646					9.625	7.625	2873	2000 sx	GL	No report
G-17-21S-37E					6.75	5.5	6655	550 sx	2500	Temp Survey
WBDU 046	6/10/05	7383	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1420	650 sx	GL	Circ 87 sx
30-025-37020					7.875	5.5	7383	1300 sx	160	CBL
J-8-21S-37E										
WBDU 071	3/17/07	6905	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1300	575 sx	GL	Circ
30-025-38206					7.875	5.5	6905	1150 sx	240	CBL
A-17-21S-37E										

Drinkard penetrators sorted by distance from WBDU 65

WBDU 043	5/15/80	6825	San Andres	WSW	12.25	9.625	1350	485 sx	GL	Circ 200 sx
30-025-26601					8.75	7	6825	1750 sx	GL	Circ 200 sx
N-8-21S-37E										
WBDU 066	7/7/47	6645	Eunice; Bli-Tu-Dr, N	O	17.5	13.375	222	200 sx	GL	Circ
30-025-06638					12	9.625	2529	500 sx	1513	Temp Survey
H-17-21S-37E					8.75	7	6629	500 sx	3582	CBL
					6.125	OH	6645	N/A	N/A	N/A
WBDU 047	7/8/06	6950	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1318	550 sx	GL	Circ 122 sx
30-025-37741					7.875	5.5	6950	1150 sx	170	CBL
K-8-21S-37E										
State C Tract 12 Com 001Y	10/20/13	6872	Eunice; Bli-Tu-Dr, N	O	17.5	13.375	1324	1095 sx	GL	Circ 90 sx
30-025-41454					11	8.625	6083	1350 sx	480	Temp Survey
D-16-21S-37E					7.875	5.5	11219	1595 sx	35	CBL

Drinkard penetrators sorted by distance from WBDU 65

WBDU 135	11/11/11	7125	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1317	710 sx	GL	Circ 163 sx
30-025-40276					7.875	5.5	7125	960 sx	GL	Circ 3 bbbls
N-8-21S-37E										
WBDU 068	7/14/07	6905	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1295	650 sx	GL	Circulated
30-025-38411					7.875	5.5	6905	1350 sx	2660	CBL
H-17-21S-37E										
Mittie Weatherly 001	6/6/48	6635	Penrose Skelly; Grayburg	O	17.25	13.625	263	300 sx	GL	Circ
30-025-06635					11	8.625	2791	1000 sx	1740	Temp Survey
F-17-21S-37E					7.325	5.5	3670	100 sx	3390	CBL
Hawk B 1 014	11/25/68	6836	Eunice; Bli-Tu-Dr, N	P&A	12.25	8.625	1322	650 sx	GL	Circ
30-025-22859					7.875	5.5	6836	625 sx	2900	nso report
J-8-21S-37E										

Drinkard penetrators sorted by distance from WBDU 65

WBDU 061	6/6/49	6690	Eunice; Bli-Tu-Dr, N	I	17	13.325	328	300 sx	GL	Circ
30-025-06629					12	9.625	2898	1500 sx	675	Temp Survey
D-16-21S-37E					8.75	5.5	6629	1200 sx	2700	Temp Survey
WBDU 048	7/23/06	6950	Wantz; Abo	O	12.25	8.625	1330	612 sx	GL	Circ
30-025-37742					7.875	5.5	6950	1100 sx	195	CBL
I-8-21S-37E										
WBDU 041	2/9/50	6775	Eunice; Bli-Tu-Dr, N	I	16.25	13.375	213	250 sx	GL	Circ
30-025-06434					12.25	9.625	2684	1750 sx	1300	Temp Survey
I-8-21S-37E					10.75	7	6774	822 sx	2804	Temp Survey
WBDU 039	2/14/49	6770	Eunice; Bli-Tu-Dr, N	I	15	13.375	200	250 sx	GL	Circ
30-025-06441					12.25	9.625	2824	500 sx	1210	Temp Survey
M-9-21S-37E					8.75	7	6769	750 sx	3011	Temp Survey

Drinkard penetrators sorted by distance from WBDU 65

WBDU 108	10/16/11	7265	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1330	730 sx	GL	Circ 231 sx
30-025-40273					7.875	5.5	7265	1200 sx	210	Circ 114 sx
K-8-21S-37E										

Drinkard penetrators sorted by distance from WBDU 72

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
WBDU 118	5/4/10	7200	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1215	650 sx	GL	Circ
30-025-39709					7.875	5.5	7208	1400 sx	GL	Circ
J-17-21S-37E										
WBDU 123	5/21/10	7200	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1248	650 sx	GL	Circ
30-025-39172					7.875	5.5	7200	1150 sx	GL	Circ
J-17-21S-37E										
WBDU 119	9/22/09	6900	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1265	650 sx	GL	Circ
30-025-39279					7.875	5.5	6900	1350 sx	4150	CBL
K-17-21S-37E										
WBDU 068	7/14/07	6905	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1295	650 sx	GL	Circ
30-025-38411					7.875	5.5	6905	1350 sx	2660	CBL
H-17-21S-37E										

Drinkard penetrators sorted by distance from WBDU 72

WBDU 074	9/5/48	6646	Eunice; Bli-Tu-Dr, N	O	17	13.325	348	300 sx	GL	Circ
30-025-06647					12.25	9.625	2841	1600 sx	GL	Circ
K-17-21S-37E					8.75	5.5	6646	600sx	3800	Calc
WBDU 086	3/17/48	6650	Eunice; Bli-Tu-Dr, N	P&A	17.25	13.375	280	325 sx	GL	No report
30-025-06653					11	8.625	2776	1200 sx	No report	No report
O-17-21S-37E					7.875	5.5	6650	500 sx	No report	No report
WBDU 073	5/19/87	6677	Eunice; Bli-Tu-Dr, N	O	13.75	10.75	363	300 sx	GL	No report
30-025-06646					9.625	7.625	2873	2000 sx	GL	No report
G-17-21S-37E					6.75	5.5	6655	550 sx	2500	Temp Survey
Lockhart A 17 002	3/26/47	6630	Penrose Skelly; Grayburg	O	17.5	13.375	195	200 sx	GL	Circ
30-025-06637					12.24	9.625	2538	450 sx	1364	Temp Survey
I-17-21S-37E					7.875	5.5	6629	500 sx	3510	Temp Survey
WBDU 221	Plan	7200	Eunice; Bli-Tu-Dr, N	O	11	8.625	1350	530 sx	GL	N/A
30-025-42496					7.875	5.5	7200	1000 sx	GL	N/A
I-17-21S-37E										

Drinkard penetrators sorted by distance from WBDU 72

WBDU 120	4/19/10	7219	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1292	650 sx	GL	Circ
30-025-39710					7.875	5.5	7219	1150 sx	GL	Circ
O-17-21S-37E										
WBDU 136	1/22/11	6950	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1270	655 sx	GL	Circ 110 sx
30-025-39988					7.875	5.5	6950	1440 sx	GL	Circ 77 sx
K-17-21S-37E										
WBDU 121	1/1/11	6970	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1300	665 sx	GL	Circ 95 sx
30-025-39986					7.875	5.5	6970	1370 sx	125	CBL
P-17-21S-37E										
WBDU 122	12/4/10	6962	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1477	665 sx	GL	Circ 187 sx
30-025-39171					7.875	5.5	6962	2100 sx	GL	Circ 78 sx
K-17-21S-37E										
WBDU 087	11/23/49	6659	Eunice; Bli-Tu-Dr, N	O	17	13.325	194	300 sx	GL	No report
30-025-06643					11.75	8.625	2848	1500 sx	No report	No report
N-17-21S-37E					7.875	5.5	6599	300 sx	No report	No report

Drinkard penetrators sorted by distance from WBDU 72

WBDU 145	Plan	6850	Eunice; Bli-Tu-Dr, N	I	11	8.625	1350	450 sx	GL	N/A
30-025-43229					7.875	5.5	6850	900 sx	GL	N/A
H-17-21S-37E										
Mittie Weatherly 001	6/6/48	6635	Penrose Skelly; Grayburg	O	17.25	13.625	263	300 sx	GL	Circ
30-025-06635					11	8.625	2791	1000 sx	1740	Temp Survey
F-17-21S-37E					7.325	5.5	3670	350 sx	3390	CBL
WBDU 066	7/7/47	6645	Eunice; Bli-Tu-Dr, N	P&A	17.5	13.375	222	200 sx	GL	Circ
30-025-06638					12	9.625	2529	500 sx	1513	Temp Survey
H-17-21S-37E					8.75	7	6629	500 sx	3740	CBL
WBDU 085	4/24/47	6657	Eunice; Bli-Tu-Dr, N	O	15.5	13.375	297	300 sx	GL	circ
30-025-06652					11	8.625	2814	1200 sx	GL	circ
P-17-21S-37E					7.875	5.5	6641	500 sx	No report	No report
WBDU 069	2/22/07	6829	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1303	600 sx	GL	Circ
30-025-38204					7.875	5.5	6875	1075 sx	440	CBL
I-17-21S-37E										

Drinkard penetrators sorted by distance from WBDU 72

WBDU 126	1/11/11	6920	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1283	665 sx	GL	circ 222 sx
30-025-39958					7.875	5.5	6920	1340 sx	GL	circ 130 sx
P-17-21S-37E										
WBDU 139	2/18/11	6970	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1295	690 sx	GL	Circ 256 sx
30-025-39989					7.875	5.5	6970	1240 sx	184	CBL
N-17-21S-37E										
WBDU 125	1/22/11	6951	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1317	665 sx	GL	Circ 222 sx
30-025-39987					7.875	5.5	6951	1300 sx	GL	Circ 137 sx
B-17-21S-37E										
WBDU 117	1/2/11	7000	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1298	670 sx	GL	circ 80 sx
30-025-39278					7.875	5.5	7000	985 sx	300	CBL
B-17-21S-37E										
Lockhart 001	5/23/51	6690	Blinebry (Oil)	O	No report	10.75	309	150 sx	GL	circ
30-025-06640					No report	7.625	2800	1375 sx	GL	circ
L-17-21S-37E					No report	5.5	6600	309 sx	No report	No report

Drinkard penetrators sorted by distance from WBDU 72

W E Lee 002	12/29/47	6658	Tubb (Oil)	O	16	12.5	190	250 sx	No report	No report
30-025-11520					11	8.625	2634	850 sx	No report	No report
B-20-21S-37E					7.75	5.5	6577	625 sx	No report	No report
WBDU 129	4/28/10	7120	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1286	650 sx	GL	Circ to surface
30-025-39280					7.875	5.5	7120	1150 sx	GL	Circ to surface
P-17-21S-37E										
WBDU 144H	4/4/12	6673	Eunice; Bli-Tu-Dr, North	O	17.5	13.375	1235	1230 sx	GL	Circ 160 sx
30-025-40429					11	8.625	10418	910 sx	GL	Circ 42 BBLS
B-17-21S-37E					7.875	5.5	10657	515 sx	GL	Circ
Lockhart 002	11/1/51	6690	Blaine (Oil)	O	15.5	10.75	304	150 sx	GL	Circ
30-025-06641					9.875	7.625	2788	1150 sx	GL	Circ
M-17-21S-37E					6.75	5.5	6600	200 sx	3450	Temp Survey
Mittie Weatherly 002	1/11/52	6650	Eunice; San Andres, N (Gas)	G	17	13.325	289	300 sx	GL	Circ
30-025-06648					11	8.625	2790	2000 sx	GL	Circ
E-17-21S-37E					7.875	5.5	6650	350 sx	4058	Temp Survey

Drinkard penetrators sorted by distance from WBDU 72

WBDU 075	3/24/47	6760	Eunice; Bli-Tu-Dr, N	I	17.25	13.375	216	200 sx	GL	Circ
30-025-06615					11	8.625	2812	1200 sx	1300	Temp Survey
L-16-21S-37E					7.375	5.5	6686	400 sx	3525	Temp Survey
					no report	4.5	6760	210 sx	330	CBL

Drinkard penetrators sorted by distance from WBDU 74

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
WBDU 136	1/22/11	6950	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1270	655 sx	GL	Circ 110 sx
30-025-39988					7.875	5.5	6950	1440 sx	GL	Circ 77 sx
K-17-21S-37E										
WBDU 118	5/4/10	7200	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1215	650 sx	GL	Circ
30-025-39709					7.875	5.5	7208	1400 sx	GL	Circ
J-17-21S-37E										
WBDU 122	12/4/10	6962	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1477	665 sx	GL	Circ 187 sx
30-025-39171					7.875	5.5	6962	2100 sx	GL	Circ 78 sx
K-17-21S-37E										
WBDU 119	9/22/09	6900	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1265	650 sx	GL	Circ
30-025-39279					7.875	5.5	6900	1350 sx	4150	CBL
K-17-21S-37E										

Drinkard penetrators sorted by distance from WBDU 74

Lockhart 001	5/23/51	6690	Blinebry (Oil)	O	No report	10.75	309	150 sx	GL	Circ
30-025-06640					No report	7.625	2800	1375 sx	GL	Circ
L-17-21S-37E					No report	5.5	6600	309 sx	No report	No report
WBDU 072	7/25/47	6637	Eunice; Bli-Tu-Dr, N	O	13.375	10.75	337	300 sx	GL	Circ
30-025-06645					9.875	7.625	2844	1600 sx	GL	Circ
J-17-21S-37E					6.75	5.5	6639	550 sx	2500	Temp Survey
Mittie Weatherly 001	6/6/48	6635	Penrose Skelly; Grayburg	O	17.25	13.625	263	300 sx	GL	Circ
30-025-06635					11	8.625	2791	1000 sx	1740	Temp Survey
F-17-21S-37E					7.325	5.5	3670	100 sx	3390	CBL
WBDU 087	11/23/49	6659	Eunice; Bli-Tu-Dr, N	O	17	13.375	194	300 sx	GL	No report
30-025-06643					11.75	8.625	2848	1500 sx	No report	No report
N-17-21S-37E					7.875	5.5	6599	300 sx	No report	No report

Drinkard penetrators sorted by distance from WBDU 74

WBDU 139	2/18/11	6970	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1295	690 sx	GL	Circ 256 sx
30-025-39989					7.875	5.5	6976	1240 sx	184	CBL
N-17-21S-37E										
Mittie Weatherly 002	1/11/52	6650	Eunice; San Andres, N (Gas)	G	17	13.375	289	300 sx	GL	Circ
30-025-06648					11	8.625	2790	2000 sx	GL	Circ
E-17-21S-37E					7.875	5.5	6650	350 sx	4058	Temp Survey
WBDU 120	4/19/10	7219	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1292	650 sx	GL	Circ
30-025-39710					7.875	5.5	7219	1150 sx	GL	Circ
O-17-21S-37E										
WBDU 073	5/19/87	6677	Eunice; Bli-Tu-Dr, N	O	13.75	10.75	363	300 sx	GL	No report
30-025-06646					9.625	7.625	2873	2000 sx	GL	No report
G-17-21S-37E					6.75	5.5	6655	550 sx	2500	Temp Survey

Drinkard penetrators sorted by distance from WBDU 74

Lockhart 002	11/1/51	6690	Blinebry (Oil)	O	15.5	10.75	304	150 sx	GL	Circ
30-025-06641					9.875	7.625	2788	1150 sx	GL	Circ
M-17-21S-37E					6.75	5.5	6600	200 sx	3450	Temp Survey
WBDU 086	3/17/48	6650	Eunice; Bli-Tu-Dr, N	P&A	17.25	13.375	280	325 sx	GL	No report
30-025-06653					11	8.625	2776	1200 sx	Unknown	Recorded as unknown
O-17-21S-37E					7.875	5.5	6650	500 sx	Unknown	Recorded as unknown
WBDU 123	5/21/10	7200	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1248	650 sx	GL	Circ
30-025-39172					7.875	5.5	7200	1150 sx	GL	Circ
J-17-21S-37E										
WBDU 068	7/14/07	6905	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1295	650 sx	GL	Circ
30-025-38411					7.875	5.5	6905	1350 sx	2660	CBL
H-17-21S-37E										

Drinkard penetrators sorted by distance from WBDU 74

Mittie Weatherly 006	7/14/07	6800	Drinkard	O	12.25	8.625	410	325 sx	GL	Circ 89 sx
30-025-28395					7.875	5.5	4000	700 sx	GL	Circ 108 sx
E-17-21S-37E										
WBDU 117	1/2/11	7000	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1298	670 sx	GL	Circ 80 sx
30-025-39278					7.875	5.5	7000	985 sx	300	CBL
B-17-21S-37E										
H T Mattern NCT C 005	1/2/11	7001	Wantz; Abo	O	12.25	9.625	1307	650 sx	GL	Circ
30-025-25025					8.75	7	6800	725 sx	2274	No report
I-18-21S-37E										
WBDU 121	1/1/11	6970	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1300	665 sx	GL	Circ 95 sx
30-025-39986					7.875	5.5	6970	1370 sx	125	CBL
P-17-21S-37E										

Drinkard penetrators sorted by distance from WBDU 74

Lockhart A 17 002	1/1/11	6630	Penrose Skelly; Grayburg	O	17.5	13.375	195	200 sx	GL	Circ
30-025-06637					12.25	9.625	2538	450 sx	1364	Temp Survey
I-17-21S-37E					7.875	5.5	6629	500 sx	3510	Temp Survey
Mittie Weatherly 003	1/23/81	6651	Penrose Skelly; Grayburg	O	17.5	13.375	314	325 sx	GL	Circ
30-025-06649					11	8.625	2812	1500 sx	GL	Circ
C-17-21S-37E					7.875	5.5	6650	350 sx	3200	CBL
WBDU 144H	4/14/12	6673	Eunice; Bli-Tu-Dr, N	O	17.5	13.375	1235	1230 sx	GL	Circ 160 sx
30-025-40429					11	8.625	10418	910 sx	GL	Circ 42 bbl
B-17-21S-37E					7.875	5.5	10657	515 sx	GL	Circ

Drinkard penetrators sorted by distance from WBDU 85

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
WBDU 129	4/28/10	7120	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1286	650 sx	GL	Circ to surface
30-025-39280					7.875	5.5	7120	1150 sx	GL	Circ to surface
P-17-21S-37E										
WBDU 121	1/1/11	6970	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1300	665 sx	GL	Circ 95 sx
30-025-39986					7.875	5.5	6970	1370 sx	125	CBL
P-17-21S-37E										
WBDU 126	1/11/11	6920	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1283	665 sx	GL	Circ 222 sx
30-025-39958					7.875	5.5	6920	1340 sx	GL	Circ 130 sx
P-17-21S-37E										
WBDU 123	5/21/10	7200	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1248	650 sx	GL	Circ
30-025-39172					7.875	5.5	7200	1150 sx	GL	Circ
J-17-21S-37E										

Drinkard penetrators sorted by distance from WBDU 85

Lockhart A 17 002	3/26/47	6630	Penrose Skelly; Grayburg	O	17.5	13.375	195	200 sx	GL	Circ
30-025-06637					12.24	9.625	2538	450 sx	1364	Temp Survey
I-17-21S-37E					7.875	5.5	6629	500 sx	3510	Temp Survey
A M York 002	5/16/47	6637	Blinebry (Oil)	O	17.5	13.375	306	300 sx	GL	Circ
30-025-09924					12.25	9.625	2795	1000 sx	592	Temp Survey
A-20-21S-37E					8.75	7	6636	500 sx	3172	Temp Survey
WBDU 086	3/17/48	6650	Blinebry (Oil)	P&A	17.25	13.375	280	325 sx	GL	No report
30-025-06653					11	8.625	2776	1200 sx	No report	No report
O-17-21S-37E					7.875	5.5	6650	500 sx	No report	No report
State Land 15 001	1/17/47	6700	Penrose Skelly; Grayburg	O	17	13.375	334	300 sx	No report	No report
30-025-06630					12	9.625	2849	2100 sx	No report	No report
M-16-21S-37E					8.75	7	6699	500 sx	4850	Temp Survey

Drinkard penetrators sorted by distance from WBDU 85

WBDU 152	10/25/14	6955	Eunice; Bli-Tu-Dr, N	I	11	8.625	1247	575 sx	GL	Circ 166 sx
30-025-41543					7.875	5.5	6955	1380 sx	GL	Circ 193 sx
M-16-21S-37E										
W E Lee 002	12/29/47	6658	Tubb (Oil)	O	16	12.5	190	250 sx	No report	No report
30-025-11520					11	8.625	2634	850 sx	No report	No report
B-20-21S-37E					7.75	5.5	6577	625 sx	No report	No report
WBDU 221	Plan	7200	Eunice; Bli-Tu-Dr, N	O	11	8.625	1350	530 sx	GL	N/A
30-025-42496					7.875	5.5	7200	1000 sx	GL	N/A
I-17-21S-37E										
WBDU 075	3/24/47	6760	Eunice; Bli-Tu-Dr, N	O	17.25	13.375	216	200 sx	GL	Circ
30-025-06615					11	8.625	2812	1200 sx	1300	Temp Survey
L-16-21S-37E					7.375	5.5	6686	400 sx	3525	Temp Survey
					No Report	4.5	6760	210 sx	330	CBL

Drinkard penetrators sorted by distance from WBDU 85

Weatherly 002	5/9/47	6629	Blinebry (Oil)	O	17	12.5	290	250 sx	GL	No report
30-025-06720					11	8.625	2890	1200 sx	No report	No report
D-21-21S-37E					7.875	5.5	6629	500 sx	No report	No report
WBDU 072	7/25/47	6637	Eunice; Bli-Tu-Dr, N	O	13.375	10.75	337	300 sx	GL	No report
30-025-06645					9.875	7.625	2844	1600 sx	GL	No report
J-17-21S-37E					6.75	5.5	6639	550 sx	2500	Temp Survey
WBDU 094	5/25/06	7290	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1207	500 sx	GL	Circ 29 sx
30-025-37537					7.875	5.5	7290	1050 sx	280	CBL
N-16-21S-37E										
WBDU 120	4/19/10	7219	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1292	650 sx	GL	Circ to surface
30-025-39710					7.875	5.5	7219	1150 sx	GL	Circ to surface
O-17-21S-37E										

Drinkard penetrators sorted by distance from WBDU 85

WBDU 069	2/22/07	6829	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1303	600 sx	GL	Circ
30-025-38204					7.875	5.5	6875	1075 sx	440	CBL
I-17-21S-37E										
WBDU 083	6/23/07	6850	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1273	575 sx	GL	Circ
30-025-38414					7.875	5.5	6850	1300 sx	186	CBL
L-16-21S-37E										
WBDU 068	7/14/07	6905	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1295	650 sx	GL	Circulated
30-025-38411					7.875	5.5	6905	1350 sx	2660	CBL
H-17-21S-37E										
WBDU 119	9/22/09	6900	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1265	650 sx	GL	Circ to surface
30-025-39279					7.875	5.5	6900	1350 sx	4150	CBL
K-17-21S-37E										

Drinkard penetrators sorted by distance from WBDU 85

WBDU 118	5/4/10	7200	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1215	650 sx	GL	Circ
30-025-39709					7.875	5.5	7208	1400 sx	GL	Circ
J-17-21S-37E										
WBDU 154	11/6/14	6952	Eunice; Bli-Tu-Dr, N	I	11	8.625	1276	575 sx	GL	Circ 182 sx
30-025-41549					7.875	5.5	6955	1060 sx	GL	Circ 250 sx
N-16-21S-37E										
Weatherly 011	9/5/08	6750	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1237	550 sx	GL	Circ
30-025-38800					7.875	5.5	6750	1400 sx	No report	No report
D-21-21S-37E										
WBDU 087	11/23/49	6659	Eunice; Bli-Tu-Dr, N	O	17	13.325	194	300 sx	GL	No report
30-025-06643					11.75	8.625	2848	1500 sx	No report	No report
N-17-21S-37E					7.875	5.5	6599	300 sx	No report	No report
					7.875	OH	6659	N/A	N/A	N/A

Drinkard penetrators sorted by distance from WBDU 85

WBDU 066	7/7/47	6645	Eunice; Bli-Tu-Dr, N	P&A	17.5	13.375	222	200 sx	GL	Circ
30-025-06638					12	9.625	2529	500 sx	1513	Temp Survey
H-17-21S-37E					8.75	7	6629	500 sx	3740	CBL
State Land 15 002	3/17/47	6700	Penrose Skelly; Grayburg	O	17	13.375	334	300 sx	No report	No report
30-025-06631					11	8.625	2864	1600 sx	No report	No report
N-16-21S-37E					7.75	5.5	6699	500 sx	4670	Calc
WBDU 080	1/19/07	6875	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1227	575 sx	GL	Circ
30-025-38220					7.875	5.5	6875	1425 sx	225	CBL
L-16-21S-37E										



WELL BORE INFO.

LEASE NAME WBDU
WELL # 66
API # 30-025-06638
COUNTY Lea, NM
H-17-21s-37e

spud: 7-7-47
P&A: 8-30-16

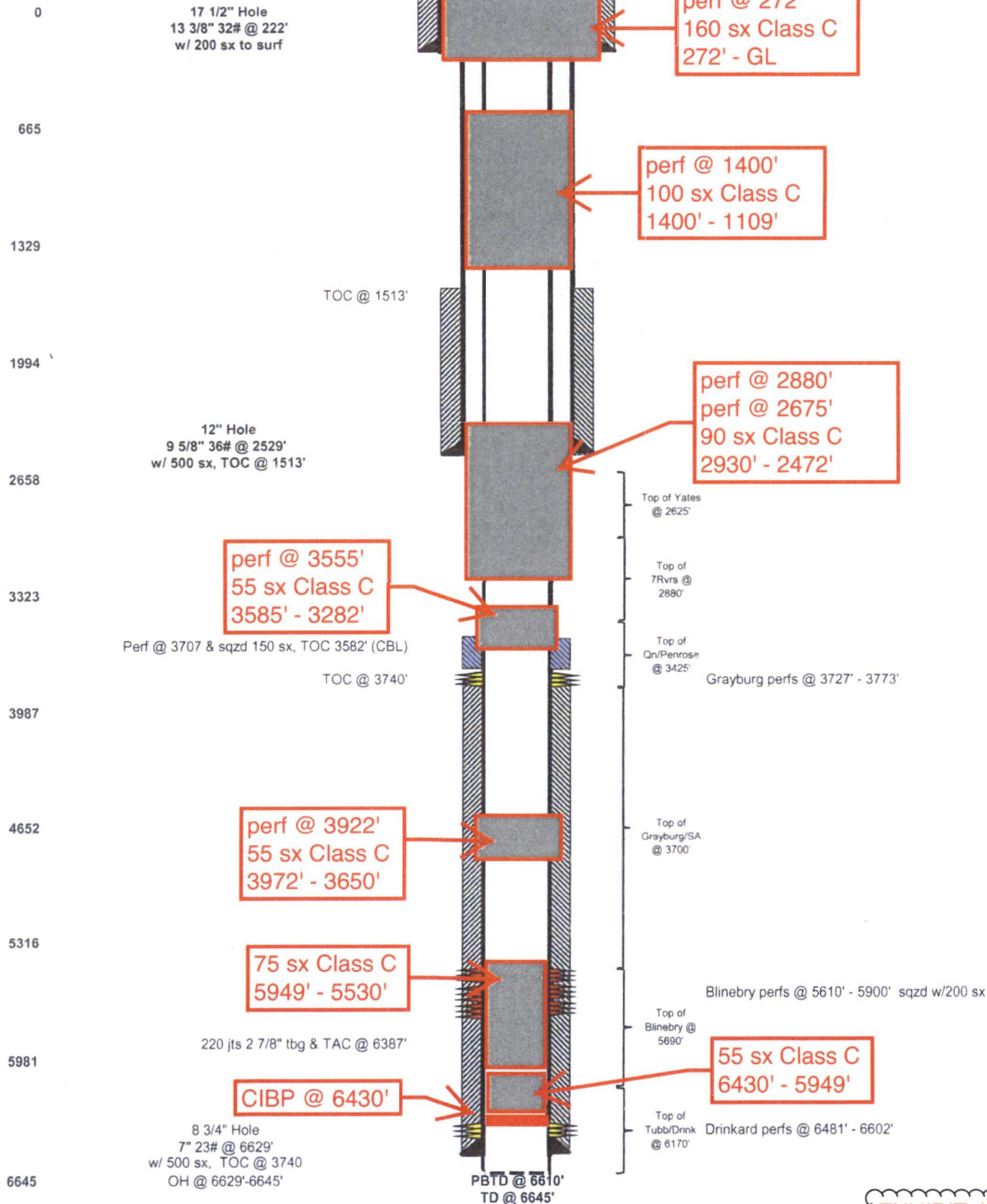


EXHIBIT J



WELL BORE INFO.

spud: 12-3-57

P&A: 7-13-11

LEASE NAME

WBDU

WELL #

#86

API #

30-025-06653

COUNTY

Lea

O-17-21s-37e

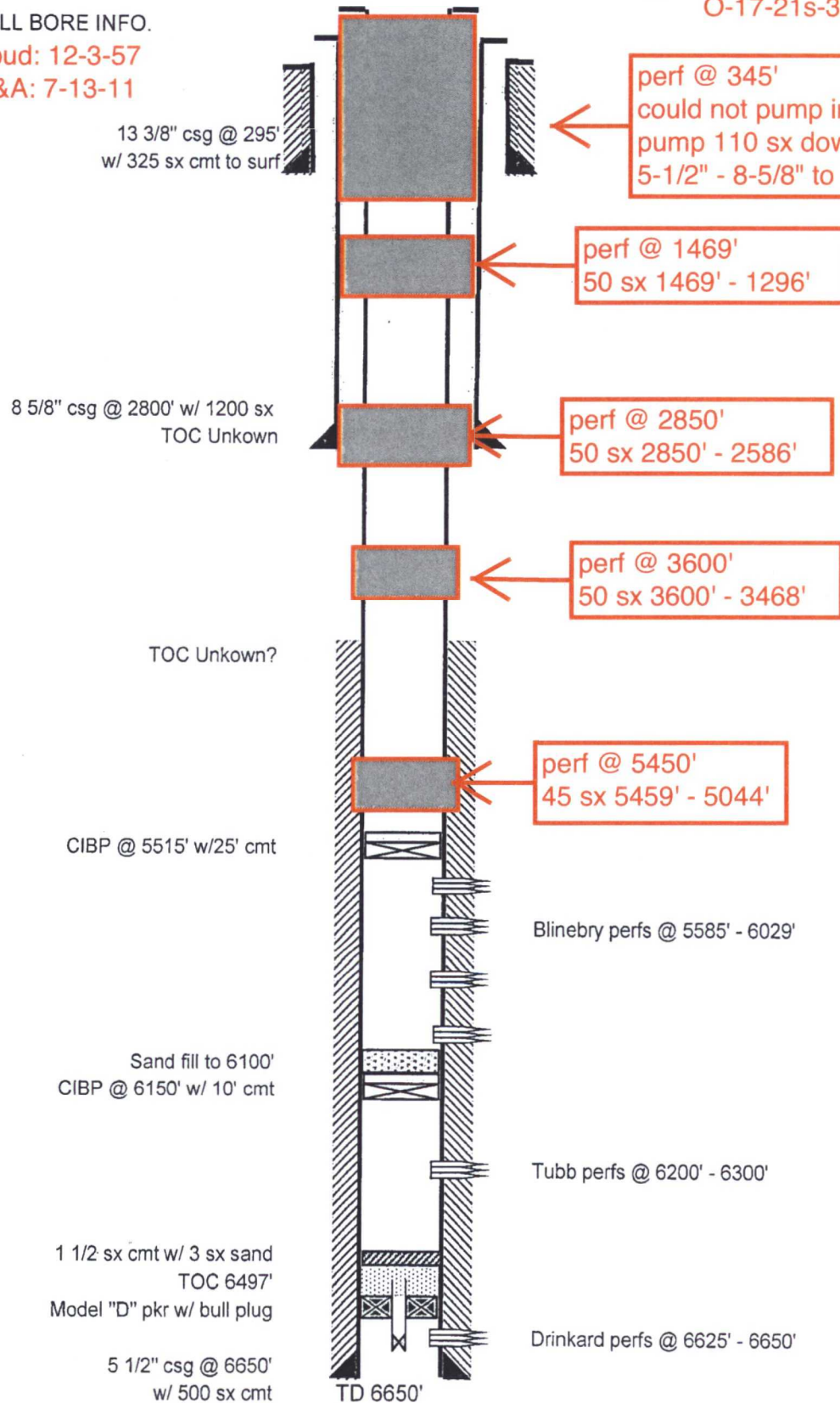
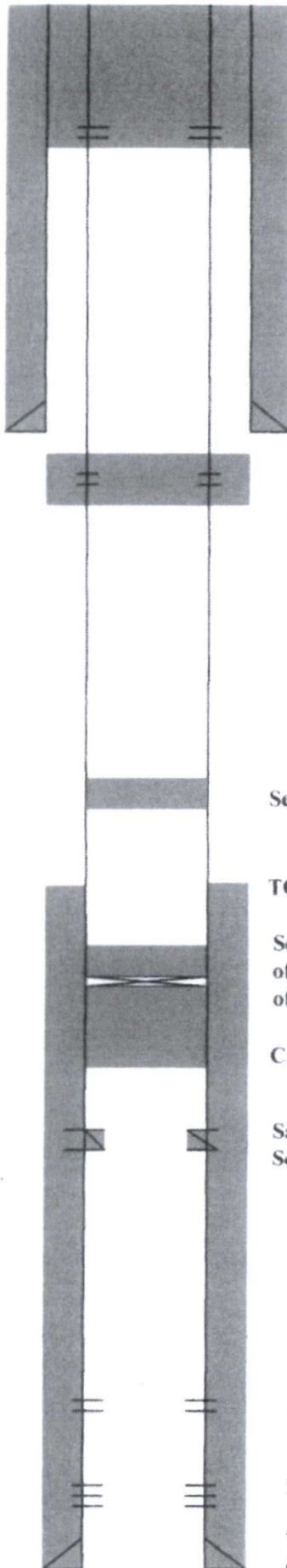


EXHIBIT J

Conoco, Inc.
Hawk B-1 No. 14
API No. 30-025-22859
1980' FSL & 1980' FEL, Unit J
Section 8, T-21S, R-37E
Type Well: Producer

Date Drilled: 11/68
Date PA'd: 10/97



Perforate 5 1/2" csg. @ 350'.
Squeeze cmt. to surface w/175 sx.

12 1/4" Hole; 8 5/8" csg. set @ 1,322'
Cemented w/650 sx.
Cement circulated to surface

Perforate 5 1/2" csg. @ 1,372'. Set 25 sx.
cmt. plug @ 1,372'

Set 25 sx. cmt. plug @ 2,567'

TOC @ 2,900' (Well File)

Set cement retainer @ 3,400'. Pump 67 Bbls
of Class C cmt. through retainer. Sting out
of retainer & set 6 sx. cmt. on tool.

Casing collapsed @ 3,553'

San Andres Perforations: 4,151'-4,196'
Squeezed w/100 Sx. cmt.

Blinbry Perforations: 5,666'-5,876'

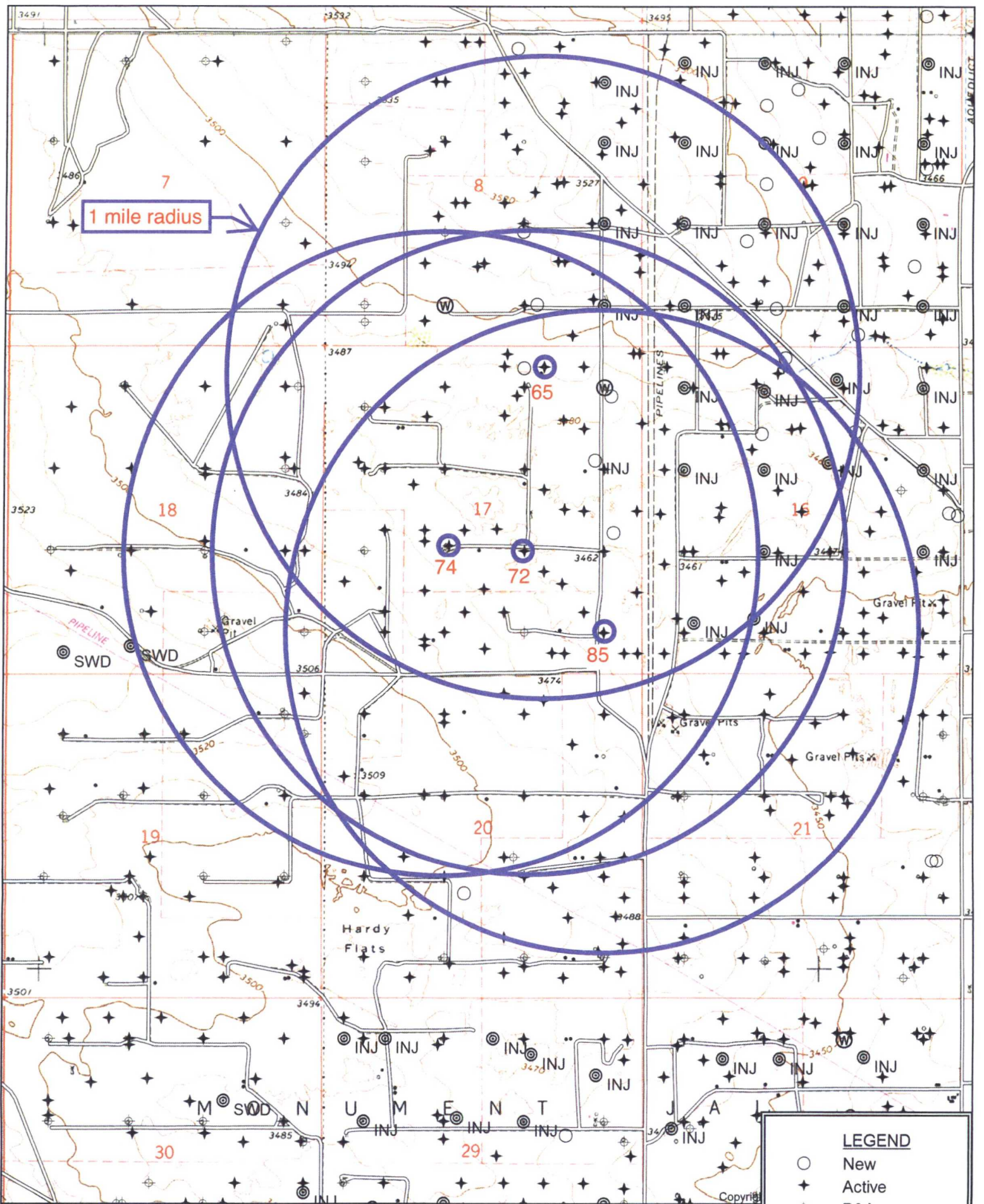
Drinkard Perforations: 6,660'-6,700'

7 7/8" Hole; 5 1/2" csg. set @ 6,836'
Cemented w/625 Sx. TOC @ 2,900' by Well File

T.D. 6,836'

EXHIBIT J

Apache Corporation
Form C-108: 8 Wells-WBDU
PA Schematic-Hawk B-1 No. 14



Quad: EUNICE
Scale: 1 inch = 2,000 ft.

EXHIBIT K



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	Q Q Q									Water				
POD Number	Code	Sub-basin	County	64	16	4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Column	
CP 01026 POD1	1610 meters = 1 mile	LE		1	1	3	17	21S	37E	669809	3594958		1253	167	95	72
CP 00447 POD1		CP	LE	2	4	4	18	21S	37E	669647	3594451*		1708	95		
CP 00448 POD1		CP	LE	2	4	4	18	21S	37E	669647	3594451*		1708	100		
CP 00676		LE		4	4	18	21S	37E	669548	3594352*		1848	140	106	34	
CP 00554		LE		2	2	16	21S	37E	672744	3595610*		1912	80	70	10	
CP 00895		LE		1	1	20	21S	37E	669957	3593956*		1934	163			
CP 00986 POD1		LE		4	3	4	06	21S	37E	669110	3597437		2460	154		
CP 01245 POD1		LE		1	4	3	18	21S	37E	668677	3594410		2502	220		
CP 00985 POD1		LE		4	4	2	19	21S	37E	669595	3593453		2548	160		
CP 00552		LE		2	4	04	21S	37E	672700	3598022*		2994	90	75	15	
CP 00553		LE		2	4	04	21S	37E	672700	3598022*		2994	90	75	15	
CP 01141 POD2		LE		3	4	3	15	21S	37E	673541	3594250		3062	40		
CP 01141 POD3		LE		3	4	3	15	21S	37E	673541	3594250		3062	40		
CP 01141 POD4		LE		3	4	3	15	21S	37E	673541	3594250		3062	45		
CP 01575 POD1		CP	LE	1	2	1	22	21S	37E	673543	3594200		3087	40	35	5
CP 00877		LE					06	21S	37E	668920	3598153*		3125	150	73	77
CP 01575 POD2		CP	LE	2	2	1	22	21S	37E	673610	3594192		3150	35	35	0
CC 01999 POD1		CU		3	3	2	29	03N	36E	670385	3592502		3210	415	372	43
CP 00446 POD1		CP	LE	1	4	4	13	21S	36E	667871	3594424*		3217	185	148	37
CP 00446 POD2		CP	LE	1	4	4	13	21S	36E	667871	3594424*		3217	200	151	49

Average Depth to Water: 112 feet

Minimum Depth: 35 feet

Maximum Depth: 372 feet

Record Count: 20

UTM NAD83 Radius Search (in meters): from WBDU 65

Easting (X): 670833

Northing (Y): 3595681

Radius: 3220

*UTM location was derived from PLSS - see Help

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

12/29/16 4:16 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

EXHIBIT K



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	Code	Sub-basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Distance	Depth	Well	Depth	Water	Column
CP 01026 POD1			LE	1	1	3	17	21S	37E	669809	3594958	957	167			95	.72
CP 00895			LE		1	1	20	21S	37E	669957	3593956*	1138	163				
CP 00447 POD1		CP	LE	2	4	4	18	21S	37E	669647	3594451*	1148	95				
CP 00448 POD1		CP	LE	2	4	4	18	21S	37E	669647	3594451*	1148	100				
CP 00676	1610 meters		LE		4	4	18	21S	37E	669548	3594352*	1272	140			106	34
..... = 1 mile																	
CP 00985 POD1			LE	4	4	2	19	21S	37E	669595	3593453	1753	160				
CP 01245 POD1			LE	1	4	3	18	21S	37E	668677	3594410	2103	220				
CP 00554			LE		2	2	16	21S	37E	672744	3595610*	2163	80			70	10
CC 01999 POD1			CU	3	3	2	29	03N	36E	670385	3592502	2300	415			372	43
CP 01141 POD2			LE	3	4	3	15	21S	37E	673541	3594250	2840	40				
CP 01141 POD3			LE	3	4	3	15	21S	37E	673541	3594250	2840	40				
CP 01141 POD4			LE	3	4	3	15	21S	37E	673541	3594250	2840	45				
CP 01575 POD1		CP	LE	1	2	1	22	21S	37E	673543	3594200	2851	40			35	5
CP 00446 POD1		CP	LE	1	4	4	13	21S	36E	667871	3594424*	2899	185			148	37
CP 00446 POD2		CP	LE	1	4	4	13	21S	36E	667871	3594424*	2899	200			151	49
CP 01575 POD2		CP	LE	2	2	1	22	21S	37E	673610	3594192	2919	35			35	0
CP 00986 POD1			LE	4	3	4	06	21S	37E	669110	3597437	3127	154				

Average Depth to Water: 126 feet

Minimum Depth: 35 feet

Maximum Depth: 372 feet

Record Count: 17

UTM NAD83 Radius Search (in meters): from WBDU 72

Easting (X): 670749

Northing (Y): 3594774

Radius: 3220

*UTM location was derived from PLSS - see Help

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

12/29/16 4:17 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

EXHIBIT K



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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 01026 POD1		LE		1	1	3	17	21S	37E	669809	3594958	584	167	95	72
CP 00447 POD1		CP	LE	2	4	4	18	21S	37E	669647	3594451*	798	95		
CP 00448 POD1		CP	LE	2	4	4	18	21S	37E	669647	3594451*	798	100		
CP 00676		LE		4	4	18	21S	37E	669548	3594352*		931	140	106	34
CP 00895		LE		1	1	20	21S	37E	669957	3593956*		932	163		
CP 00985 POD1	1610 meters = 1 mile	LE		4	4	2	19	21S	37E	669595	3593453	1546	160		
CP 01245-POD1		LE		1	4	3	18	21S	37E	668677	3594410	1734	220		
CC 01999 POD1		CU		3	3	2	29	03N	36E	670385	3592502	2289	415	372	43
CP 00554		LE		2	2	16	21S	37E	672744	3595610*		2511	80	70	10
CP 00446 POD1		CP	LE	1	4	4	13	21S	36E	667871	3594424*	2524	185	148	37
CP 00446 POD2		CP	LE	1	4	4	13	21S	36E	667871	3594424*	2524	200	151	49
CP 00986 POD1		LE		4	3	4	06	21S	37E	669110	3597437	2929	154		
CP 01141 POD2		LE		3	4	3	15	21S	37E	673541	3594250	3217	40		
CP 01141 POD3		LE		3	4	3	15	21S	37E	673541	3594250	3217	40		
CP 01141 POD4		LE		3	4	3	15	21S	37E	673541	3594250	3217	45		

Average Depth to Water: 157 feet

Minimum Depth: 70 feet

Maximum Depth: 372 feet

Record Count: 15

UTM NAD83 Radius Search (in meters): from WBDU 74

Easting (X): 670369

Northing (Y): 3594792

Radius: 3220

*UTM location was derived from PLSS - see Help

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12/29/16 4:18 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

EXHIBIT K



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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00895			LE	1	1	20	21S	37E	669957	3593956*		1272	163		
CP 01026 POD1			LE	1	1	3	17	21S	37E	669809	3594958	1468	167	95	72
CP 00447 POD1		CP	LE	2	4	4	18	21S	37E	669647	3594451*	1512	95		
CP 00448 POD1		CP	LE	2	4	4	18	21S	37E	669647	3594451*	1512	100		
CP 00676			LE		4	4	18	21S	37E	669548	3594352*	1610	140	106	34
..... 1610 meters = 1 mile															
CP 00985 POD1			LE	4	4	2	19	21S	37E	669595	3593453	1815	160		
CP 00554			LE		2	2	16	21S	37E	672744	3595610*	2008	80	70	10
CC 01999 POD1			CU	3	3	2	29	03N	36E	670385	3592502	2027	415	372	43
CP 01141 POD2			LE	3	4	3	15	21S	37E	673541	3594250	2386	40		
CP 01141 POD3			LE	3	4	3	15	21S	37E	673541	3594250	2386	40		
CP 01141 POD4			LE	3	4	3	15	21S	37E	673541	3594250	2386	45		
CP 01575 POD1		CP	LE	1	2	1	22	21S	37E	673543	3594200	2391	40	35	5
CP 01575 POD2		CP	LE	2	2	1	22	21S	37E	673610	3594192	2458	35	35	0
CP 01245 POD1			LE	1	4	3	18	21S	37E	668677	3594410	2481	220		
CP 00711			LE	4	2	2	28	21S	37E	672900	3592291*	2717	100	65	35
CP 00513 POD1		CP	LE	3	1	3	28	21S	37E	671508	3591467*	2930	5000	4374	626
CP 00242 POD1		CP	LE	3	4	2	28	21S	37E	672708	3591889*	2931			
CP 00294 POD1		CP	LE	1	3	1	27	21S	37E	673110	3592096*	3002			
CP 00322			LE		3	28	21S	37E	671818	3591366*		3082	138	73	65
CP 00736			LE		3	1	27	21S	37E	673211	3591997*	3143	120	76	44

Average Depth to Water: 530 feet

Minimum Depth: 35 feet

Maximum Depth: 4374 feet

Record Count: 20

UTM NAD83 Radius Search (in meters): from WBDU 85

Easting (X): 671158

Northing (Y): 3594377

Radius: 3220

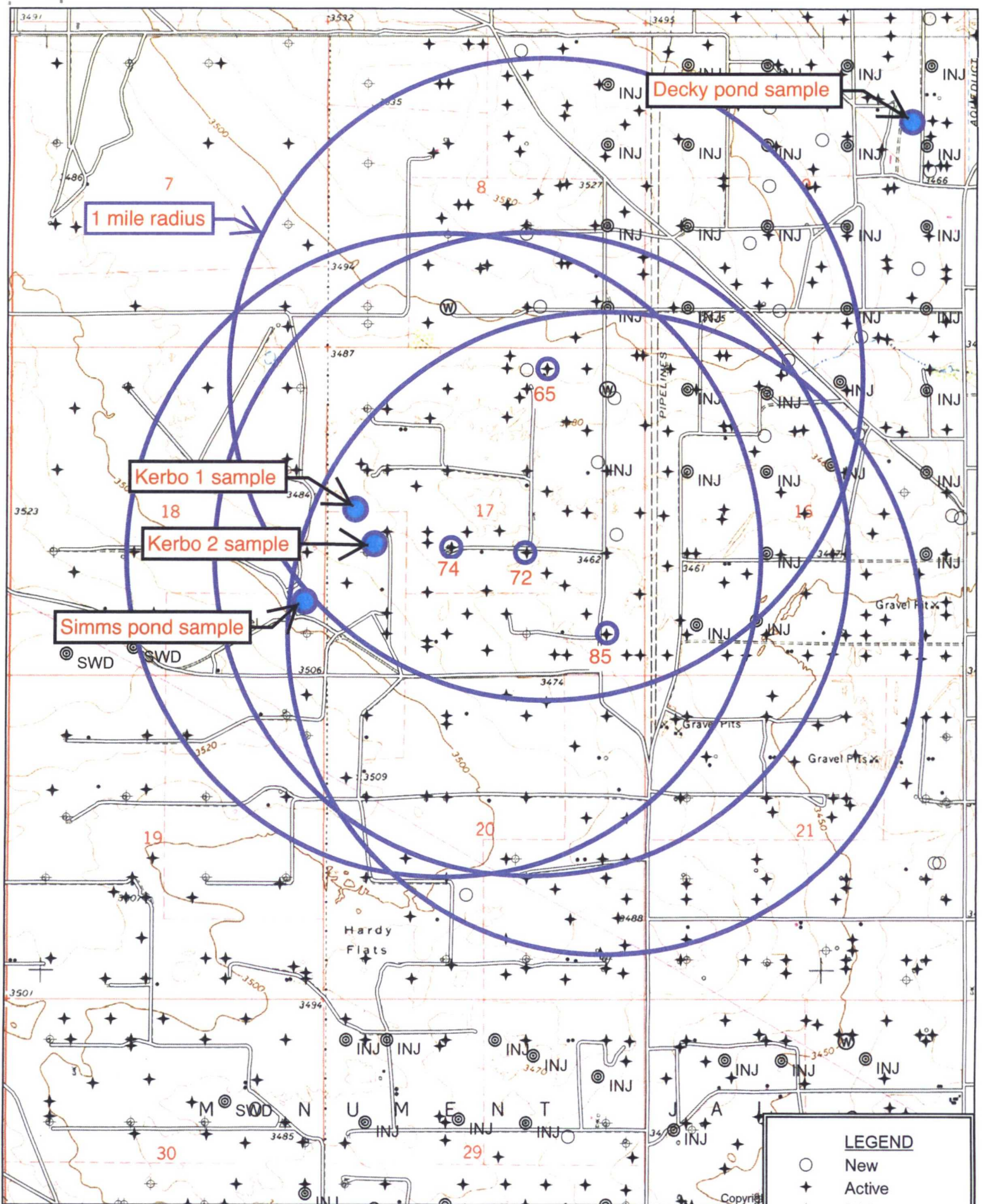
*UTM location was derived from PLSS - see Help

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12/29/16 4:19 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

EXHIBIT K



Quad: EUNICE
Scale: 1 inch = 2,000 ft.

EXHIBIT L

LEGEND

- New
- + Active
- ⊕ P&A
- ⊙ INJ
- ⊙ SWD
- ⊙ Water

Analytical Report

Lab Order 1701431

Date Reported: 1/17/2017

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Permits West**Client Sample ID:** Decky Pond**Project:** Apache WBDU**Collection Date:** 1/7/2017 4:46:00 PM**Lab ID:** 1701431-001**Matrix:** AQUEOUS**Received Date:** 1/11/2017 2:02:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	280	10	*	mg/L	20	1/11/2017 11:50:55 PM
EPA METHOD 1664A						Analyst: tnc
N-Hexane Extractable Material	ND	9.36		mg/L	1	1/11/2017 3:30:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	762	20.0	*	mg/L	1	1/12/2017 6:54:00 PM

EXHIBIT L

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range.
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1701431

Date Reported: 1/17/2017

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Permits West**Client Sample ID:** Kerbo #1**Project:** Apache WBDU**Collection Date:** 1/8/2017 9:59:00 AM**Lab ID:** 1701431-002**Matrix:** AQUEOUS**Received Date:** 1/11/2017 2:02:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	81	10		mg/L	20	1/12/2017 12:15:45 AM
EPA METHOD 1664A						Analyst: tnc
N-Hexane Extractable Material	ND	10.5		mg/L	1	1/11/2017 3:30:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	498	20.0		mg/L	1	1/12/2017 6:54:00 PM

EXHIBIT L

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1701431

Date Reported: 1/17/2017

CLIENT: Permits West

Client Sample ID: Kerbo #2

Project: Apache WBDU

Collection Date: 1/8/2017 10:14:00 AM

Lab ID: 1701431-003

Matrix: AQUEOUS

Received Date: 1/11/2017 2:02:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	54	10		mg/L	20	1/12/2017 1:05:23 AM
EPA METHOD 1664A						Analyst: tnc
N-Hexane Extractable Material	ND	9.86		mg/L	1	1/11/2017 3:30:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	450	20.0		mg/L	1	1/12/2017 6:54:00 PM

EXHIBIT L

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1701431

Date Reported: 1/17/2017

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Permits West**Client Sample ID:** Simms Pond**Project:** Apache WBDU**Collection Date:** 1/8/2017 1:31:00 PM**Lab ID:** 1701431-004**Matrix:** AQUEOUS**Received Date:** 1/11/2017 2:02:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	180	10		mg/L	20	1/12/2017 1:30:12 AM
EPA METHOD 1664A						Analyst: tnc
N-Hexane Extractable Material	ND	11.0		mg/L	1	1/11/2017 3:30:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	688	20.0	*	mg/L	1	1/12/2017 6:54:00 PM

EXHIBIT L

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701431

17-Jan-17

Client: Permits West
Project: Apache WBDU

Sample ID	MB-29634	SampType:	MBLK	TestCode:	EPA Method 1664A					
Client ID:	PBW	Batch ID:	29634	RunNo:	39981					
Prep Date:	1/11/2017	Analysis Date:	1/11/2017	SeqNo:	1252885	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	ND	10.0								
Silica Gel Treated N-Hexane Extrac	ND	10.0								

Sample ID	LCS-29634	SampType:	LCS	TestCode:	EPA Method 1664A					
Client ID:	LCSW	Batch ID:	29634	RunNo:	39981					
Prep Date:	1/11/2017	Analysis Date:	1/11/2017	SeqNo:	1252886	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	35.4	10.0	40.00	0	88.5	78	114			
Silica Gel Treated N-Hexane Extrac	18.0	10.0	20.00	0	90.0	64	132			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701431

17-Jan-17

Client: Permits West
Project: Apache WBDU

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R39975	RunNo:	39975					
Prep Date:		Analysis Date:	1/11/2017	SeqNo:	1252702	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R39975	RunNo:	39975					
Prep Date:		Analysis Date:	1/11/2017	SeqNo:	1252703	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	91.3	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

Page 6 of 7

EXHIBIT L

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701431

17-Jan-17

Client: Permits West
Project: Apache WBDU

Sample ID: MB-29641	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids
Client ID: PBW	Batch ID: 29641	RunNo: 39988
Prep Date: 1/11/2017	Analysis Date: 1/12/2017	SeqNo: 1252963 Units: mg/L
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Total Dissolved Solids	ND	20.0

Sample ID: LCS-29641	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids
Client ID: LCSW	Batch ID: 29641	RunNo: 39988
Prep Date: 1/11/2017	Analysis Date: 1/12/2017	SeqNo: 1252964 Units: mg/L
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Total Dissolved Solids	1060	20.0 1000 0 106 80 120

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Ogallala boundary



65



74



72



85



31.4103.17396

18

EXHIBIT L

Google earth

Survey

6388 ft

© 2013 Google

Imagery Date: 11/14/2011 lat 32.491976° lon -103.151997° elev 3459 ft eye alt 31166 ft

From: Oldani, Martin Martin.Oldani@apachecorp.com
Subject: FW: shallow faulting in the vicinity of WBDU
Date: January 11, 2016 at 4:27 PM
To: brian@permitswest.com
Cc: Shapot, Bret Bret.Shapot@apachecorp.com



Brian,

As per Mark's comments below, our G&G staff has taken a look at the potential issue of shallow faulting in the WBDU area and have concluded there is none present across the area and no danger of shallow faulting as a conduit to groundwater contamination.

Regards,

MARTIN J. OLDANI
PERMIAN REGION EXPLORATION & EXPLOITATION MANAGER
Apache main (432) 818 1000 | fax (432) 818 1982
office 6100A | direct (432) 818 1030 | mobile (432) 234-1925
martin.oldani@apachecorp.com

APACHE CORPORATION - PERMIAN REGION
303 Veterans Airway Park
Midland, TX 79705

From: Pasley, Mark
Sent: Monday, January 11, 2016 4:48 PM
To: Oldani, Martin <Martin.Oldani@apachecorp.com>
Cc: O'Shay, Justin <Justin.O'Shay@apachecorp.com>; Riley, Brent <Brent.Riley@apachecorp.com>; Shapot, Bret <Bret.Shapot@apachecorp.com>; Piggott, Fiona <fiona.piggott@apachecorp.com>
Subject: shallow faulting in the vicinity of WBDU

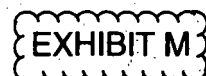
Martin:

In reference to the meeting this morning where we discussed the possibility of shallow faulting in the WBDU area and its potential impact on the permitting of the injection well(s) into the Drinkard, I submit to you the attached slide set from me and Justin. You will see that we have done several extractions on the seismic data and there is no indication of faulting above the Glorieta which is well above the Drinkard and below the younger evaporites. Also, as we suspected, there are no surface faults mapped in the area – the nearest being more than 50 miles away.

Please contact me or Justin if you have further questions.

Sincerely,

DR. MARK PASLEY
GEOLOGICAL ADVISOR
direct +1 432.818.1835 | mobile +1 832.943.9040 | office 6112A
APACHE PERMIAN
303 Veterans Airpark Lane
Midland, TX 79705 USA
ApacheCorp.com | [LinkedIn](https://www.linkedin.com/company/apache-corporation) | [Facebook](https://www.facebook.com/apachecorp) | [Twitter](https://twitter.com/apachecorp) | [StockTwits](https://www.stocktwits.com/apachecorp) | [YouTube](https://www.youtube.com/apachecorp)





Geologic Hazards Science Center

EHP Quaternary Faults

Search for fault:

Select a state or region map:



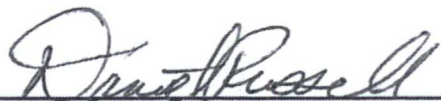
EXHIBIT M

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

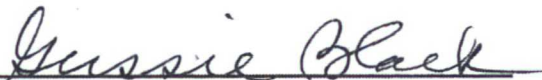
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
January 12, 2017
and ending with the issue dated
January 12, 2017.



Publisher

Sworn and subscribed to before me this
12th day of January 2017.

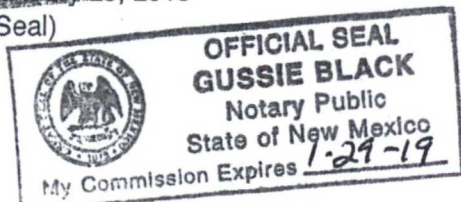


Business Manager

My commission expires

January 29, 2019

(Seal)



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

LEGAL

LEGAL

LEGAL

LEGAL NOTICE January 12, 2017

Apache Corporation is applying to inject water in 4 wells in the West Blinebry Drinkard Unit in Section 17, T. 21 S., R. 37 E., Lea County, NM. Injection will be in the Drinkard zone from approximately 6475' to 6775'. Maximum injection rate will be 3,000 bwpd per well. The wells are 2 to 3 miles NW of Eunice, NM. Well details are:

Well	Location	Injection Interval	Maximum Injection Pressure
65	330 FNL & 1650 FEL	6475' - 6752'	1295 psi
72	1980 FSL & 1980 FEL	6460' - 6723'	1292 psi
74	2058 FSL & 2053 FWL	6481' - 6758'	1296 psi
85	660 FSL & 660 FEL	6557' - 6710'	1291 psi

Interested parties must file objections or requests for hearing with the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505 within 15 days. Additional information can be obtained by contacting: Brian Wood, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120. #31470

02108485

00186976

BRIAN WOOD
PERMITS WEST
37 VERANO LOOP
SANTA FE, NM 87508

EXHIBIT N

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

February 10, 2017

Chevron USA
PO Box 285
Houston TX 77001

Apache Corporation is applying (see attached application) to deepen and convert 4 existing oil wells in its West Blinbry Drinkard Unit to water injection wells. The wells are 2-3 miles NW of Eunice in Lea County, NM. Injection is proposed for the Drinkard. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection wells. This letter is a notice only. No action is needed unless you have questions or objections.

WBDU well	API	17-21s-37e	PBTD TD now	PBTD TD plan	proposed Drinkard perfs
65	30-025-06642	330 FNL & 1650 FEL	6660 6684	6792 6807	6475' - 6752'
72	30-025-06645	1980 FSL & 1980 FEL	6639 6639	6763 6778	6460' - 6723'
74	30-025-06647	2058 FSL & 2053 FWL	6521 6646	6798 6813	6481' - 6758'
85	30-025-06652	660 FSL & 660 FEL	6532 6657	6750 6765	6457' - 6710'

Applicant Name: Apache Corporation (432) 818-1062
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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

Please call me if you have any questions.

Sincerely,



Brian Wood

EXHIBIT O

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Total Postage and Fees	\$
Sent To Chevron USA Production Co. PO Box 1635 Houston TX 77251-1635 Apache WBDU 65-85	
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 \$ **PO Box 1327**
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 \$ **PO Box 2730**
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 \$ **8.76**
 Sent To **620 E. Greene**
Carlsbad NM 88220
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Apache WBDU 65-85

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PO Box 7500
Bartlesville OK 74005-7500
Apache WBDU 65-85

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Oklahoma City OK 73102-6406
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6 Desta Drive, Suite 2100
Midland TX 79705
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Total Postage and Fees **Conoco Phillips Co**
550 Westlake Park Blvd
Houston TX 77079
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9 Greenway Plaza Ste 1300
Houston TX 77046-0922
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PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY												
☒ Complete items 1, 2, and 3. ☒ Print your name and address on the reverse so that we can return the card to you. ☒ Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: John Mitchell Properties PO Box 5562 Midland TX 79704 APC-WBDU-65-85 9590 9402 1840 6104 1566 48 2. Article Number (Transfer from service label) 7016 1370 0000 0859 5914	A. Signature X ☐ Agent ☐ Address B. Received by (Printed Name) C. Date of Delivery 2-15-17 D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No 3. Service Type <table style="width: 100%;"> <tr> <td>☐ Adult Signature</td> <td>☐ Priority Mail Express®</td> </tr> <tr> <td>☐ Adult Signature Restricted Delivery</td> <td>☐ Registered Mail™</td> </tr> <tr> <td>☒ Certified Mail®</td> <td>☐ Registered Mail Restricted Delivery</td> </tr> <tr> <td>☐ Certified Mail Restricted Delivery</td> <td>☐ Return Receipt for Merchandise</td> </tr> <tr> <td>☐ Collect on Delivery</td> <td>☐ Signature Confirmation</td> </tr> <tr> <td>☐ Collect on Delivery Restricted Delivery</td> <td>☐ Signature Confirmation Restricted Delivery</td> </tr> </table>	☐ Adult Signature	☐ Priority Mail Express®	☐ Adult Signature Restricted Delivery	☐ Registered Mail™	☒ Certified Mail®	☐ Registered Mail Restricted Delivery	☐ Certified Mail Restricted Delivery	☐ Return Receipt for Merchandise	☐ Collect on Delivery	☐ Signature Confirmation	☐ Collect on Delivery Restricted Delivery	☐ Signature Confirmation Restricted Delivery
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☒ Complete items 1, 2, and 3. ☒ Print your name and address on the reverse so that we can return the card to you. ☒ Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: Chevron Midcontinent L.P. 6301 Deauville Blvd Midland TX 79706 APC-WBDU-65-85 9590 9402 1840 6104 1566 55 2. Article Number (Transfer from service label) 7016 1370 0000 0859 5907	A. Signature X ☐ Agent ☐ Address B. Received by (Printed Name) C. Date of Delivery 2-14-17 D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No 3. Service Type <table style="width: 100%;"> <tr> <td>☐ Adult Signature</td> <td>☐ Priority Mail Express®</td> </tr> <tr> <td>☐ Adult Signature Restricted Delivery</td> <td>☐ Registered Mail™</td> </tr> <tr> <td>☒ Certified Mail®</td> <td>☐ Registered Mail Restricted Delivery</td> </tr> <tr> <td>☐ Certified Mail Restricted Delivery</td> <td>☐ Return Receipt for Merchandise</td> </tr> <tr> <td>☐ Collect on Delivery</td> <td>☐ Signature Confirmation</td> </tr> <tr> <td>☐ Collect on Delivery Restricted Delivery</td> <td>☐ Signature Confirmation Restricted Delivery</td> </tr> </table>	☐ Adult Signature	☐ Priority Mail Express®	☐ Adult Signature Restricted Delivery	☐ Registered Mail™	☒ Certified Mail®	☐ Registered Mail Restricted Delivery	☐ Certified Mail Restricted Delivery	☐ Return Receipt for Merchandise	☐ Collect on Delivery	☐ Signature Confirmation	☐ Collect on Delivery Restricted Delivery	☐ Signature Confirmation Restricted Delivery
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☐ Adult Signature Restricted Delivery	☐ Registered Mail™												
☒ Certified Mail®	☐ Registered Mail Restricted Delivery												
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☐ Collect on Delivery	☐ Signature Confirmation												
☐ Collect on Delivery Restricted Delivery	☐ Signature Confirmation Restricted Delivery												

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

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- ☒ Complete items 1, 2, and 3.
☒ Print your name and address on the reverse so that we can return the card to you.
☒ Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Chevron USA
 6301 Deauville
 Midland TX 79706-2964

APC-WBDU-65-85

9590 9402 1840 6104 1566 79

2. Article Number (Transfer from service label)

7016 1370 0000 0859 5884

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☒ Agent
☒ Address

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
 If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery

- ☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation
☐ Signature Confirmation Restricted Delivery

Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- ☒ Complete items 1, 2, and 3.
☒ Print your name and address on the reverse so that we can return the card to you.
☒ Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Chevron USA
 PO Box 285
 Houston TX 77001

APC-WBDU-65-85

9590 9402 1840 6104 1566 86

2. Article Number (Transfer from service label)

7016 1370 0000 0859 5877

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent
☐ Address

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
 If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery

- ☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation
☐ Signature Confirmation Restricted Delivery

Restricted Delivery

Domestic Return Receipt

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☒ Print your name and address on the reverse so that we can return the card to you.
☒ Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Chevron USA Prod Co
 PO Box 1635
 Houston TX 77251-1635

APC-WBDU-65-85

9590 9402 1840 6104 1566 62

2. Article Number (Transfer from service label)

7016 1370 0000 0859 5891

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent
☐ Address

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
 If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery

- ☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation
☐ Signature Confirmation Restricted Delivery

Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
1. Article Addressed to: Conoco Phillips Co PO Box 7500 Bartlesville OK 74005-7500 APC-WBDU-65-85 9590 9402 1840 6104 1566 17		A. Signature X B. Received by (Printed Name) C. Date of Delivery FEB 14 2017 D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No Mail Services Bartlesville, OK	
2. Article Number (Transfer from service label) 7016 1370 0000 0859 5945		3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☒ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation ☐ Signature Confirmation Restricted Delivery	
PS Form 3811, July 2015 PSN 7530-02-000-9053		Domestic Return Receipt	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
1. Article Addressed to: New Mexico State Land Office PO Box 1148 Santa Fe NM 87504 APC-WBDU-65-85 9590 9402 1840 6104 1566 93		A. Signature X B. Received by (Printed Name) C. Date of Delivery FEB 14 2017 D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No MAIL SERVICE SANTA FE POST OFFICE	
2. Article Number (Transfer from service label) 7016 1370 0000 0859 5860		3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☒ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation ☐ Signature Confirmation Restricted Delivery	
PS Form 3811, July 2015 PSN 7530-02-000-9053		Domestic Return Receipt	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
1. Article Addressed to: OXY USA WTP LP 6 Desta Drive #6000 Midland TX 79705-5505 APC-WBDU-65-85 9590 9402 1840 6104 1565 49		A. Signature X B. Received by (Printed Name) Ashley D. Mason C. Date of Delivery 2/18/2017 D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No	
2. Article Number (Transfer from service label) 7016 1370 0000 0859 5943		3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☒ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation ☐ Signature Confirmation Restricted Delivery	
PS Form 3811, July 2015 PSN 7530-02-000-9053		Domestic Return Receipt	

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☒ Complete items 1, 2, and 3. ☒ Print your name and address on the reverse so that we can return the card to you. ☒ Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: Penroc Oil Corp PO Bo 2769 Hobbs NM 88241 APC-WBDU-65-85 9590 9402 1840 6104 1565 56 2. Article Number (Transfer from service label) 7016 1370 0000 0859 5990	A. Signature X ☐ Agent ☐ Address B. Received by (Printed Name) Aggr Bear C. Date of Delivery D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No 3. Service Type <table style="width: 100%;"> <tr> <td>☐ Adult Signature</td> <td>☐ Priority Mail Express®</td> </tr> <tr> <td>☐ Adult Signature Restricted Delivery</td> <td>☐ Registered Mail™</td> </tr> <tr> <td>☒ Certified Mail®</td> <td>☐ Registered Mail Restricted Delivery</td> </tr> <tr> <td>☐ Certified Mail Restricted Delivery</td> <td>☐ Return Receipt for Merchandise</td> </tr> <tr> <td>☐ Collect on Delivery</td> <td>☐ Signature Confirmation</td> </tr> <tr> <td>☐ Collect on Delivery Restricted Delivery</td> <td>☐ Signature Confirmation Restricted Delivery</td> </tr> </table> Restricted Delivery (over \$500)	☐ Adult Signature	☐ Priority Mail Express®	☐ Adult Signature Restricted Delivery	☐ Registered Mail™	☒ Certified Mail®	☐ Registered Mail Restricted Delivery	☐ Certified Mail Restricted Delivery	☐ Return Receipt for Merchandise	☐ Collect on Delivery	☐ Signature Confirmation	☐ Collect on Delivery Restricted Delivery	☐ Signature Confirmation Restricted Delivery
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PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

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☒ Complete items 1, 2, and 3. ☒ Print your name and address on the reverse so that we can return the card to you. ☒ Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: Sandridge Expl & Prod LLC 123 Robert S Kerr Ave Oklahoma City OK 73102-6406 APC-WBDU-65-85 9590 9402 1840 6104 1566 31 2. Article Number (Transfer from service label) 7016 1370 0000 0859 5921	A. Signature ☐ Agent ☐ Address B. Received by (Printed Name) JORDAN WILSON C. Date of Delivery D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No 3. Service Type <table style="width: 100%;"> <tr> <td>☐ Adult Signature</td> <td>☐ Priority Mail Express®</td> </tr> <tr> <td>☐ Adult Signature Restricted Delivery</td> <td>☐ Registered Mail™</td> </tr> <tr> <td>☒ Certified Mail®</td> <td>☐ Registered Mail Restricted Delivery</td> </tr> <tr> <td>☐ Certified Mail Restricted Delivery</td> <td>☐ Return Receipt for Merchandise</td> </tr> <tr> <td>☐ Collect on Delivery</td> <td>☐ Signature Confirmation</td> </tr> <tr> <td>☐ Collect on Delivery Restricted Delivery</td> <td>☐ Signature Confirmation Restricted Delivery</td> </tr> </table> Restricted Delivery (over \$500)	☐ Adult Signature	☐ Priority Mail Express®	☐ Adult Signature Restricted Delivery	☐ Registered Mail™	☒ Certified Mail®	☐ Registered Mail Restricted Delivery	☐ Certified Mail Restricted Delivery	☐ Return Receipt for Merchandise	☐ Collect on Delivery	☐ Signature Confirmation	☐ Collect on Delivery Restricted Delivery	☐ Signature Confirmation Restricted Delivery
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PS Form 3811, July 2015 PSN 7530-02-000-9053

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☒ Complete items 1, 2, and 3. ☒ Print your name and address on the reverse so that we can return the card to you. ☒ Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: Club 79701 65-85 9590 9402 1840 6104 1565 94 2. Article Number (Transfer from service label) 7016 1370 0000 0859 5969	A. Signature X ☐ Agent ☒ Address B. Received by (Printed Name) Debbie Hedrick C. Date of Delivery D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No 3. Service Type <table style="width: 100%;"> <tr> <td>☐ Adult Signature</td> <td>☐ Priority Mail Express®</td> </tr> <tr> <td>☐ Adult Signature Restricted Delivery</td> <td>☐ Registered Mail™</td> </tr> <tr> <td>☒ Certified Mail®</td> <td>☐ Registered Mail Restricted Delivery</td> </tr> <tr> <td>☐ Certified Mail Restricted Delivery</td> <td>☐ Return Receipt for Merchandise</td> </tr> <tr> <td>☐ Collect on Delivery</td> <td>☐ Signature Confirmation</td> </tr> <tr> <td>☐ Collect on Delivery Restricted Delivery</td> <td>☐ Signature Confirmation Restricted Delivery</td> </tr> </table> Restricted Delivery (over \$500)	☐ Adult Signature	☐ Priority Mail Express®	☐ Adult Signature Restricted Delivery	☐ Registered Mail™	☒ Certified Mail®	☐ Registered Mail Restricted Delivery	☐ Certified Mail Restricted Delivery	☐ Return Receipt for Merchandise	☐ Collect on Delivery	☐ Signature Confirmation	☐ Collect on Delivery Restricted Delivery	☐ Signature Confirmation Restricted Delivery
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- ☒ Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Stephens & Johnson OP Co
PO Box 2249
Wichita Falls TX 76307

APC-WBDU-65-85

9590 9402 1840 6104 1565 70

2. Article Number (Transfer from service label)

7016 1370 0000 0859 6010

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☒ Agent
☒ Addressee

B. Received by (Printed Name)

Diana Walker

C. Date of Delivery

7/1/16

D. Is delivery address different from item 1?

If YES, enter delivery address below:

☒ Yes☒ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery

- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

Restricted Delivery

(over 5000)

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt



C-108 Review Checklist: Received 2/21/2017 Add. Request: _____ Reply Date: _____ Suspended: _____ [Ver 15]

ORDER TYPE WFX / PMX / SWD Number: _____ Order Date: _____ Legacy Permits/Orders: R-12581

Well No. 65 Well Name(s): u B D 4

API: 30-0 25-06642 Spud Date: Nov 16 1951 New or Old: D (UIC Class II Primacy 03/07/1982)

Footages 330FNL
1650FEL Lot _____ or Unit D Sec 17 Tsp 21S Rge 37E County LEC

General Location: _____ Pool: N53Li-T-DK Pool No.: 2290

BLM 100K Map: 5AL Operator: Apache Corp OGRID: 873 Contact: _____

COMPLIANCE RULE 5.9: Total Wells: 2970 Inactive: 4 Final Assur: OK Compl. Order? N/A IS 5.9 OK? X Date: MARCH 7, 2017

WELL FILE REVIEWED ☐ Current Status: _____

WELL DIAGRAMS: NEW: Proposed ☐ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging: N/A

Planned Rehab Work to Well: Deepen well to 6807 / PB 6792 circulate casing surface

Well Construction Details		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned ___ or Existing ___ Surface	<u>12 1/4 / 10 3/4</u>	<u>282'</u>	Stage Tool	<u>250</u>	<u>SURFACE / VISUAL</u>
Planned ___ or Existing ___ Interm/Prod	<u>8 3/4 / 7 7/8</u>	<u>2755</u>		<u>1100</u>	<u>*1300 / RE-ENTERED</u>
Planned ___ or Existing ___ Interm/Prod	<u>6 5/8 / 5 1/2</u>	<u>6585</u>		<u>300</u>	<u>2600 / TS</u>
Planned ___ or Existing ___ Prod/Liner	<u>5 1/2 / 4 1/2</u>	<u>6807</u>		<u>253</u>	<u>SURFACE / VISUAL</u>
Planned ___ or Existing ___ Liner					
Planned ___ or Existing ___ OH <u>PERF</u>	<u>6 7/8 / 6 1/2</u>		Inj Length <u>271'</u>		

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops	Completion/Operation Details:
Adjacent Unit: Litho. Struc. Por.		<u>BLI</u>	<u>6575</u>	Drilled TD <u>65852PBTD</u>
Confining Unit: Litho. Struc. Por.		<u>TL</u>	<u>6094</u>	NEW TD <u>6807</u> NEW PBTD <u>6792</u>
Proposed Inj Interval TOP:				NEW Open Hole ☐ or NEW Perfs ☒
Proposed Inj Interval BOTTOM:				Tubing Size <u>2 3/8</u> in. Inter Coated? <u>X</u>
Confining Unit: Litho. Struc. Por.				Proposed Packer Depth <u>6725</u> ft
Adjacent Unit: Litho. Struc. Por.				Min. Packer Depth <u>6375</u> (100-ft limit)
				Proposed Max. Surface Press. <u>1120</u> psi
				Admin. Inj. Press. <u>1120</u> (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P N/A Noticed? ☐ BLM Sec Ord ☐ WIPP ☐ Noticed? N/A Salt/Salado T: _____ B: _____ NW: Cliff House fm _____

FRESH WATER: Aquifer Quaternary Max Depth 175 HYDRO AFFIRM STATEMENT By Qualified Person ☒

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

Disposal Fluid: Formation Source(s) Producing zone Analysis? X On Lease ☒ Operator Only ☐ or Commercial ☐

Disposal Int: Inject Rate (Avg/Max BWPD): 259/312 Protectable Waters? _____ Source: _____ System Closed or Open

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

AOR Wells: 1/2-M Radius Map? X Well List? X Total No. Wells Penetrating Interval: 167 Horizontals? N/A

Penetrating Wells: No. Active Wells 04 Num Repairs? _____ on which well(s)? _____ Diagrams? _____

Penetrating Wells: No. P&A Wells 04 Num Repairs? _____ on which well(s)? _____ Diagrams? _____

NOTICE: Newspaper Date 1-12-2017 Mineral Owner BLM Surface Owner Chevron N. Date 2-15-2017

RULE 26.7(A): Identified Tracts? X Affected Persons: Chevron and Phillips N. Date 2-13-2017

Order Conditions: Issues: _____

Add Order Cond: _____



C-108 Review Checklist: Area Order

Supplemental Checklist for Multiple Well Application

ORDER TYPE WFX / PMX Number: _____ SUPPLEMENTAL PAGE 2 of 3

Relevant Hearing Order(s): K-12581

MULTIPLE WELL APPLICATION: 2 of 7 Well No. 72 Well Name(s): LBD4
API: 30-0 25-06445 Spud Date: 08-1-1947 New or Old: _____ (UIC Class II Primacy 03/07/1982)
Footages 1580 FSL Lot _____ or Unit 7 Sec 17 Tsp 21S Rge 37E County LEC
WELL FILE REVIEWED ☒ Current Status: Producing Active
WELL DIAGRAMS: NEW: Proposed ☐ or RE-ENTER: Before Conv. ☐ After Conv. ☒ Logs in Imaging: N/A
Planned Rehab Work to Well: Run Liner to Surface - 5 Circulate

Well Construction Details		Sizes (in)	Setting	Cement	Cement Top and
		Borehole / Pipe	Depths (ft)	Sx or Cf	Determination Method
Planned ☐ or Existing ☐ Surface	<u>10 3/4 / 13 1/2</u>	<u>10 3/4</u>	<u>300</u>	<u>300</u>	<u>300 Surface</u>
Planned ☐ or Existing ☐ Interm/Prod	<u>9 7/8 / 7 5/8</u>	<u>9 7/8</u>	<u>2844</u>	<u>1600</u>	<u>541 FSL / 14541</u>
Planned ☐ or Existing ☐ Interm/Prod	<u>6 3/4 / 5 1/2</u>	<u>6 3/4</u>	<u>6639</u>	<u>55</u>	<u>2500 / TS</u>
Planned ☐ or Existing ☐ Prod/Liner	<u>5 1/2 / 4 1/2</u>	<u>5 1/2</u>	<u>6778</u>	<u>251</u>	<u>Surface / 14541</u>
Planned ☐ or Existing ☐ Liner					
Planned ☐ or Existing ☐ OH / PERF	<u>10 4/6 / 6723</u>			<u>263'</u>	Hydrologic Information and AOR Well Summary on Coversheet

Completion/Operation Details: Drilled TD 6639 PBDT _____ NEW TD 6778 NEW PBDT 6763
NEW Open Hole ☐ or NEW Perfs ☒ Tubing Size 2 3/4 in. Coated? Y Prop. Packer Depth 6410 Min. Depth 6360 (100-ft limit)
Proposed Max. Surface Press. 1120 psi Admin. Inj. Press. 1120 (0.2 psi per ft) ANY AREA IPI APPROVAL: 1120 psi
Specific Requirement(s) for Well: Run 4 1/2" / Surface

MULTIPLE WELL APPLICATION: 3 of 4 Well No. 74 Well Name(s): LBD4
API: 30-0 25-06647 Spud Date: 09-05-1944 New or Old: _____ (UIC Class II Primacy 03/07/1982)
Footages 2053 FSL Lot _____ or Unit 1 Sec 17 Tsp 21S Rge 37E County LEC
WELL FILE REVIEWED ☒ Current Status: Active
WELL DIAGRAMS: NEW: Proposed ☐ or RE-ENTER: Before Conv. ☐ After Conv. ☒ Logs in Imaging: N/A
Planned Rehab Work to Well: Run Liner & Circulate to Surface

Well Construction Details		Sizes (in)	Setting	Cement	Cement Top and
		Borehole / Pipe	Depths (ft)	Sx or Cf	Determination Method
Planned ☐ or Existing ☐ Surface	<u>16 1/3 / 8 1/2</u>	<u>16 1/3</u>	<u>348</u>	<u>300</u>	<u>Surface</u>
Planned ☐ or Existing ☐ Interm/Prod	<u>12 1/4 / 4 5/8</u>	<u>12 1/4</u>	<u>2841</u>	<u>1600</u>	<u>Surface</u>
Planned ☐ or Existing ☐ Interm/Prod	<u>8 7/8 / 5 1/2</u>	<u>8 7/8</u>	<u>6646</u>	<u>600</u>	<u>3800 / ESX</u>
Planned ☐ or Existing ☐ Prod/Liner	<u>5 1/2 / 4 1/2</u>	<u>5 1/2</u>	<u>6813</u>	<u>252</u>	<u>Surface</u>
Planned ☐ or Existing ☐ Liner					
Planned ☐ or Existing ☐ OH / PERF	<u>6 4/8 / 6758</u>			<u>277</u>	Hydrologic Information and AOR Well Summary on Coversheet

Completion/Operation Details: Drilled TD 6646 PBDT 6645 NEW TD 6813 NEW PBDT 6758
NEW Open Hole ☐ or NEW Perfs ☒ Tubing Size 2 in. Coated? Y Prop. Packer Depth 6431 Min. Depth 6381 (100-ft limit)
Proposed Max. Surface Press. 1120 psi Admin. Inj. Press. 1120 (0.2 psi per ft) ANY AREA IPI APPROVAL: _____
Specific Requirement(s) for Well: _____

* K-12581 Limits inject PBI



C-108 Review Checklist: Area Order

Supplemental Checklist for Multiple Well Application

ORDER TYPE: WFX PMX Number: _____ SUPPLEMENTAL PAGE 3 of 3

Relevant Hearing Order(s): 12-12981

MULTIPLE WELL APPLICATION: 4 of 4 Well No. 85 Well Name(s): WBD40
API: 30-0 25-06652 Spud Date: 04/24/1947 New or Old: (UIC Class II Primacy 03/07/1982)
Footages 660 FSL Lot or Unit P Sec 17 Tsp 21S Rge 37E County LEG
WELL FILE REVIEWED ☐ Current Status: _____
WELL DIAGRAMS: NEW: Proposed ☐ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging: _____
Planned Rehab Work to Well: _____

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned ☐ or Existing ☐ Surface	15 1/2 / 13 3/4	247'	300	Surface
Planned ☐ or Existing ☐ Interm/Prod	11" / 6 5/8	2814	1200	Surface
Planned ☐ or Existing ☐ Interm/Prod	7 7/8 / 5 1/2	6641	500	(3634 / EST)
Planned ☐ or Existing ☒ Prod/Liner	5 1/2 / 4 1/2	6765	252	Surface
Planned ☐ or Existing ☐ Liner				
Planned ☐ or Existing ☒ OH / PERF	6457 / 6700		Inj Length 253	Hydrologic Information and AOR Well Summary on Coversheet

Completion/Operation Details: Drilled TD 6657 PBTD 6532 NEW TD _____ NEW PBTD _____
NEW Open Hole ☐ or NEW Perfs ☒ Tubing Size 2 3/4 in. Coated? Y Prop. Packer Depth 6407 ft Min. Depth _____ (100-ft limit)
Proposed Max. Surface Press. 1124 psi Admin. Inj. Press. _____ (0.2 psi per ft) ANY AREA IPI APPROVAL: 1120
Specific Requirement(s) for Well: _____

MULTIPLE WELL APPLICATION: _____ of _____ Well No. _____ Well Name(s): _____
API: 30-0 _____ Spud Date: _____ New or Old: _____ (UIC Class II Primacy 03/07/1982)
Footages _____ Lot _____ or Unit _____ Sec _____ Tsp _____ Rge _____ County _____
WELL FILE REVIEWED ☐ Current Status: _____
WELL DIAGRAMS: NEW: Proposed ☐ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging: _____
Planned Rehab Work to Well: _____

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned ☐ or Existing ☐ Surface			Stage Tool	
Planned ☐ or Existing ☐ Interm/Prod				
Planned ☐ or Existing ☐ Interm/Prod				
Planned ☐ or Existing ☐ Prod/Liner				
Planned ☐ or Existing ☐ Liner				
Planned ☐ or Existing ☐ OH / PERF			Inj Length	Hydrologic Information and AOR Well Summary on Coversheet

Completion/Operation Details: Drilled TD _____ PBTD _____ NEW TD _____ NEW PBTD _____
NEW Open Hole ☐ or NEW Perfs ☐ Tubing Size _____ in. Coated? _____ Prop. Packer Depth _____ ft Min. Depth _____ (100-ft limit)
Proposed Max. Surface Press. _____ psi Admin. Inj. Press. _____ (0.2 psi per ft) ANY AREA IPI APPROVAL: _____
Specific Requirement(s) for Well: _____

SECRET
EXCLUDED FROM AUTOMATIC DOWNGRADING AND
DECLASSIFICATION SCHEDULES OF THE
JOINT CHIEFS OF STAFF AND THE DEPARTMENT OF
DEFENSE

DISCUSS

SECRET

EXCLUDED FROM AUTOMATIC DOWNGRADING AND
DECLASSIFICATION SCHEDULES OF THE
JOINT CHIEFS OF STAFF AND THE DEPARTMENT OF
DEFENSE

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EXCLUDED FROM AUTOMATIC DOWNGRADING AND
DECLASSIFICATION SCHEDULES OF THE
JOINT CHIEFS OF STAFF AND THE DEPARTMENT OF
DEFENSE

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SECRET

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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)

POD Number

CP 00733 POD1

Q64 Q16 Q4 Sec Tws Rng

3 3 22 21S 37E

X**Y**

673196 3592801*

x

Driller License:**Driller Company:****Driller Name:** A.J. FORE**Drill Start Date:** 06/03/1988**Drill Finish Date:** 06/21/1988**Plug Date:****Log File Date:** 11/03/1988**PCW Rcv Date:** 11/03/1988**Source:** Shallow**Pump Type:****Pipe Discharge Size:****Estimated Yield:** 400 GPM**Casing Size:** 5.50**Depth Well:** 7864 feet**Depth Water:** 175 feet

x

Water Bearing Stratifications:**Top Bottom Description**

4010 4900 Limestone/Dolomite/Chalk

x

Casing Perforations:**Top Bottom**

2730 7785

x

*UTM location was derived from PLSS - see Help

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3/7/17 8:19 AM

POINT OF DIVERSION SUMMARY