

DATE IN 12/02/2013	SUSPENSE	ENGINEER PG	LOGGED IN 12/02/13	TYPE SWD	PPG 1333660998
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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]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

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

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

[D] Other: Specify _____

*Protested by COG
 injection interval
 12/02/13
 (suspended)*

Judah Oil, LLC
 Jack Tank 7 Federal 2
 30-025-32482

RECEIVED
 27 A 9:44

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

[A] ☒ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☒ Application is One Which Requires Published Legal Notice

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

*Delaware
 open-hole*

[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

Brian Wood

Consultant

11-26-13

Print or Type Name

Signature

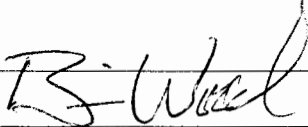
Title

Date

brian@permitswest.com

e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance XXX Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ No
- II. OPERATOR: JUDAH OIL, LLC
ADDRESS: P. O. BOX 568, ARTESIA, NM 88211
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: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
- Jack Tank 7 Federal 2**
30-025-32482
SWD; Delaware
- Proposed average and maximum daily rate and volume of fluids to be injected;
 - Whether the system is open or closed;
 - Proposed average and maximum injection pressure;
 - Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 - If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *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: NOV. 25, 2013
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.

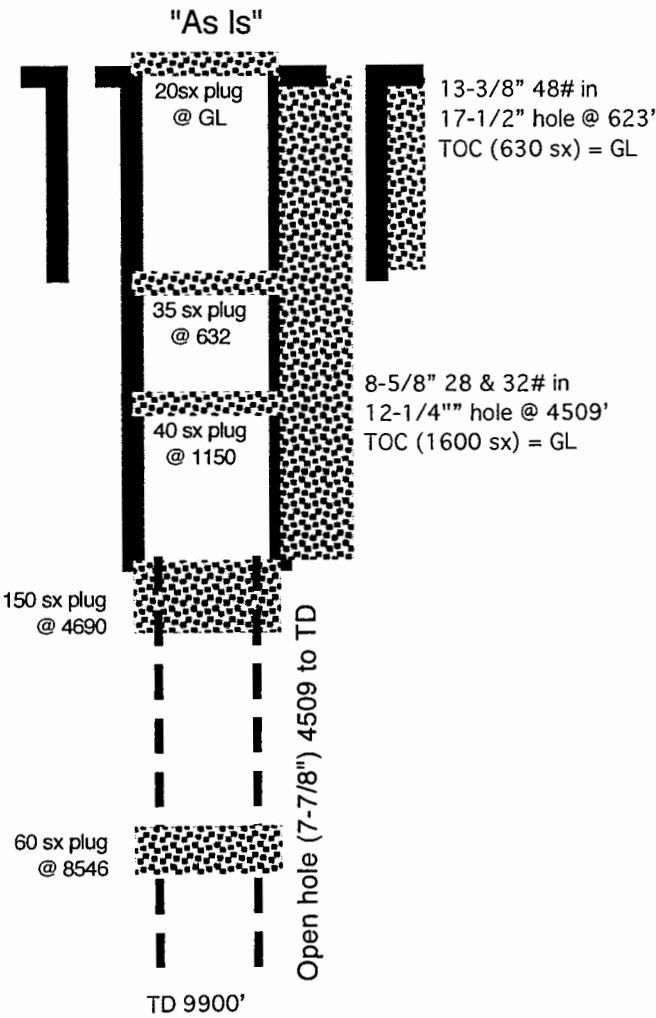
INJECTION WELL DATA SHEET

OPERATOR: JUDAH OIL, LLC

WELL NAME & NUMBER: JACK TANK 7 FEDERAL 2

WELL LOCATION: 330 FNL & 660 FEL A 7 24 S 32 E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC



(not to scale)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17-1/2" Casing Size: 13-3/8"
Cemented with: 630 sx. or ft³
Top of Cement: SURFACE Method Determined: CIRC. 174 SX

Intermediate Casing

Hole Size: 12-1/4" Casing Size: 8-5/8"
Cemented with: 1,600 sx. or ft³
Top of Cement: SURFACE Method Determined: CIRCULATED

Production Casing (none run - dry hole)
(Will run 7" liner from 4000-4700)

Hole Size: 7-7/8" Casing Size: N/A
Cemented with: sx. or ft³
Top of Cement: Method Determined:
Total Depth: 9,900'

Injection Interval

4,700' feet to 7,100' *Modified in resolution of protest*

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

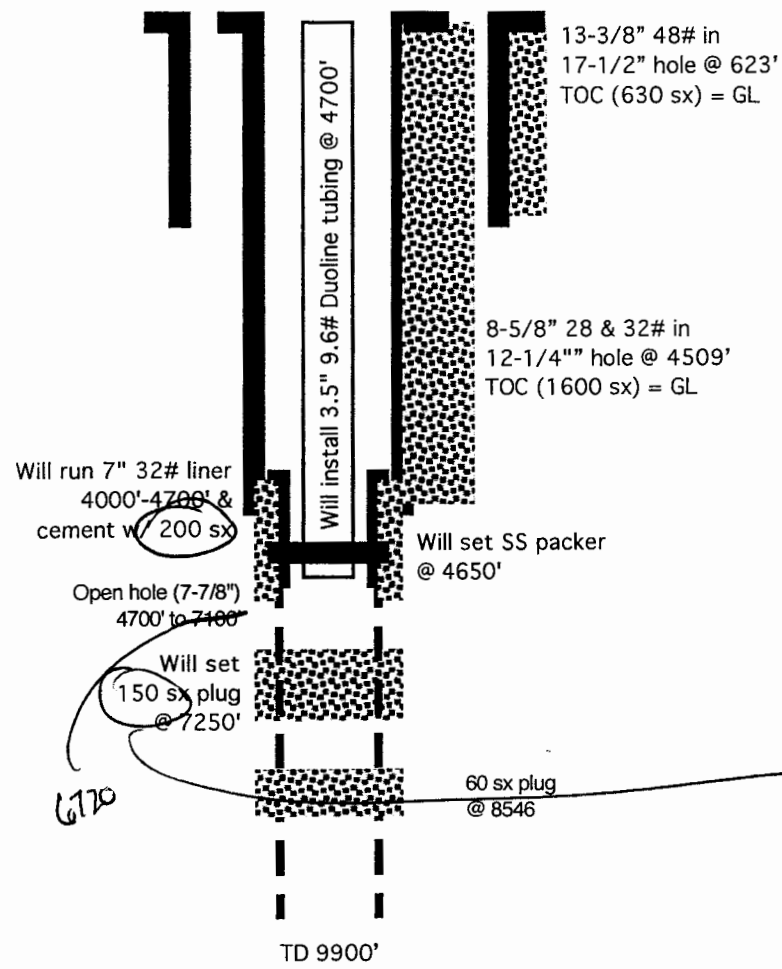
OPERATOR: JUDAH OIL, LLC

WELL NAME & NUMBER: JACK TANK 7 FEDERAL 2

WELL LOCATION: 330 FNL & 660 FEL A 7 24 S 32 E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

"Proposed"



(not to scale)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17-1/2" Casing Size: 13-3/8"
Cemented with: 630 sx. or _____ ft³
Top of Cement: SURFACE Method Determined: CIRC. 174 SX

Intermediate Casing

Hole Size: 12-1/4" Casing Size: 8-5/8"
Cemented with: 1,600 sx. or _____ ft³
Top of Cement: SURFACE Method Determined: CIRCULATED

Production Casing (none run - dry hole)
(Will run 7" liner from 4000-4700)

Hole Size: 7-7/8" Casing Size: N/A
Cemented with: 200 sx. or _____ ft³
Top of Cement: Bottom plug at 6720' Method Determined: _____

Total Depth: 9,900'

Injection Interval

4,700' feet to 7,100' 6720

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

INJECTION WELL DATA SHEET

Tubing Size: 3-1/2" Lining Material: DUOLINE
Type of Packer: 7" x 3.5" SS
Packer Setting Depth: 4,700' - 7,100' 4650
Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? _____ Yes XXX No
If no, for what purpose was the well originally drilled? OIL WELL (WILDCAT BONE SPRING)

2. Name of the Injection Formation: DELAWARE
3. Name of Field or Pool (if applicable): SWD; DELAWARE (96100)
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.
NOT PERFORATED, BUT LEFT OPEN HOLE 4509' - 9900'
150 SX PLUG @ 4690 & 60 SX PLUG @ 8546'
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____
OVER: NONE

UNDER: BRUSHY CANYON (7186'), BONE SPRING (8496'), ATOKA (14028')
& MORROW (15206')

JUDAH OIL, LLC
JACK TANK 7 FEDERAL 2
330' FNL & 660' FEL SEC. 7, T. 24 S., R. 32 E.
LEA COUNTY, NEW MEXICO

PAGE 1

30-025-32482

I. Goal is to re-enter a 9,900' deep plugged and abandoned (in 1994) Wildcat; Bone Spring well and convert it to a saltwater disposal well. Proposed disposal interval will be 4,700' - 7,100' in the SWD; Delaware (96100).

II. Operator: Judah Oil, LLC (OGRID: 245872)
Operator phone number: (575) 746-1280
Operator address: P. O. Box 568
Artesia, NM 88211
Contact for Application: Brian Wood (Permits West, Inc.)
Phone: (505) 466-8120

III. A. (1) Lease: BLM lease NMNM-055953
Lease Size: 1,080 acres (see Exhibit A for map and C-102)
Closest Lease Line: 330'
Lease Area: E2NE4 & SE4 Sec. 7, N2 & NWSW Sec. 8,
and W2 & SE4 Sec. 9, T. 24 S., R. 32 E.

A. (2) Surface casing (13-3/8", 48#) was set in 1994 at 623' in a 17-1/2" hole and cemented to the surface with 630 sacks. Circulated 174 sacks.

Intermediate casing (8-5/8", 28# & 32#) was set at 4,509' in a 12-1/4" hole and cemented with 1,600 sacks to the surface. Circulated unspecified quantity.

Production hole (7-7/8") was drilled to 9,900'. Well was a dry hole. No long string was run. Five plugs were set (60 sx @ 8546', 150 sx @ 4690', 40 sx @ 1150', 35 sx @ 632, and 20 sx @ GL) and the well was abandoned in the same month in which it was drilled.

Judah will drill out the top 4 plugs and install a 7" 32# liner from 4,000' to 4,700'. Liner will be cemented with 200 sacks Class H.

- A. (3) Tubing will be 3.5", 9.6#, Duoline. Setting depth will be approximately 4,700'. (Disposal interval will be 4,700' to ~~7,100'~~.)
- A. (4) A 7-5/8" x 3.5" SS packer with a SS 2.8F profile nipple will be set at 4,650' (50' above the top of the open hole interval (4,700' to ~~7,100'~~)).
- B. (1) Disposal zone will be the SWD; Delaware (9610).
- B. (2) Disposal interval will be 4,700' to ~~7,100'~~. (A new plug (150 sacks) will be set at ~~7,250'~~.)
- B. (3) Well was drilled as a wildcat Bone Spring oil well. It was plugged in the same month (November 1994) it was drilled because it was a dry hole.
- B. (4) The well has not been previously perforated. With the exception of 2 plugs (60 sx @ 8546' and 150 sx @ 4690'), it is currently open hole from 4,509' to 9,900'.
- B. (5) Closest (990' north in P-6-24s-32e) Delaware production is in the Mesa Verde; Delaware Pool. There are no producing zones above the Delaware within a half-mile radius. One producing zone (Bone Spring) is below the Delaware within a half-mile radius.

IV. This is not an expansion of an existing injection project. It is disposal only.

V. Exhibit B shows the four existing wells within a half-mile radius. Exhibit C shows all 69 existing wells (53 oil or gas wells + 13 P & A wells + 2 disposal + 1 water well) within a two-mile radius.

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

JUDAH OIL, LLC
 JACK TANK 7 FEDERAL 2
 330' FNL & 660' FEL SEC. 7, T. 24 S., R. 32 E.
 LEA COUNTY, NEW MEXICO

PAGE 3

30-025-32482

<u>T. 24 S., R. 32 E.</u>	<u>Lessor</u>	<u>Lease Number</u>	<u>Lessee</u>
SW4 Sec. 5	BLM	NMNM-120906	COG
E2SW4 & SE4 Sec. 6	BLM	NMNM-077064	Devon
E2NE4 & N2SE4 Sec. 7	BLM	NMNM-055953	EOG
W2NE4 & E2NW4 Sec. 7	BLM	NMNM-068084	Devon
NWSW & NW4 Sec. 8	BLM	NMNM-055953	EOG

VI. Four existing wells are within a 2,640' radius. All four wells penetrated the Delaware. A summary of the penetrators' construction details is attached as Exhibit F. Wells in or near the area of review are:

OPERATOR	WELL	API # 30- 025-	LOCATION	ZONE(S)	STATUS	TD	DISTANCE
Devon	Mesa Verde 6 Fed. 11	39585	P-6-24s-32e	Mesa Verde; Delaware and Mesa Verde; Bone Spring	oil	9921'	990'
Devon	Mesa Verde 7 Fed. 1	32398	B-7-24s-32e	Mesa Verde; Delaware	oil	9880'	1360'
Devon	Mesa Verde 6 Fed. 3	36466	O-6-24s-32e	Mesa Verde; Delaware	oil	8682'	1650'
EOG	Jack Tank 8 Fed. 2	32192	E-8-24s-32e	Mesa Verde; Delaware and Mesa Verde; Bone Spring; Wildcat Morrow & Atoka	oil	15468'	2098'
Devon	Mesa Verde 6 Fed. 4	39854	I-6-24s-32e	Mesa Verde; Bone Spring	planned oil	planned 9850'	2310'
Devon	Mesa Verde 6 Fed. 2	32202	J-6-24s-32e	Mesa Verde; Delaware	oil	8550'	2660'

- VII. 1. Average injection rate will be $\approx$ 15,000 bwpd.
 Maximum injection rate will be 18,000 bwpd.
2. System will be open and closed. Water will be trucked and piped to the well.

3. Average injection pressure will be ≈ 900 psi
 Maximum injection pressure will be 940 psi ($= 0.2$ psi/foot $\times$ 4,700' (top of open hole interval)).
4. There have been no reports of problems disposing into the three closest active Delaware; SWD wells. At least 3,768,661 barrels have been disposed into the SDE 31 Federal 9 (30-025-32868) that is 5,136' north. At least 2,332,574 barrels have been disposed in the Lotos 11 Federal 2 (30-025-28821) that is 10,831' west. At least 27,800,149 barrels have been disposed in the Todd 36 State 1 (30-025-20341) that is 12,015' northwest.

Source of the disposal water will be produced water from Yeso, Delaware, Bone Spring, Wolfcamp, and Morrow wells. A summary of water analyses from the WAIDS database follows.

Well	Bell Lake Unit 7	Mimosa State 1	Bell Lake Unit 3	Laguna Plata Unit 1	Empire South Deep Unit 5
API #	30-025-08367	30-015-30575	30-025-20261	30-025-01678	30-015-21279
Location	1-1-24s-33e	K-30-17s-29e	K-18-23s-34e	I-22-19s-33e	G-31-17s-29e
Formation	Delaware	Yeso	Bone Spring	Wolfcamp	Morrow*
					*2 samples
Parameter mg/l					
barium		0.07056			
bicarbonate	391	447.552	512	714	1205
calcium		495.936			
chloride	53920	3308.26	130000	27270	19550
H2S					
iron		8.064			
magnesium		105.84			
potassium		44.352			
sodium		2363.76			
strontium		14.112			
sulfate	749	1710.58	260	1116	470
TDS	87686	8482.82	204652	46915	34388

JUDAH OIL, LLC
JACK TANK 7 FEDERAL 2
330' FNL & 660' FEL SEC. 7, T. 24 S., R. 32 E.
LEA COUNTY, NEW MEXICO

PAGE 5

30-025-32482

5. Closest (990' north in P-6-24s-32e) Delaware production is in the Mesa Verde; Delaware Pool (96191).

VIII. The Delaware (3,856' thick in this well) is fine-grained sandstone with intervals of limestone and shale. There is a 3,750' interval of salt and anhydrites above the top of the Delaware.

Closest possible underground source of drinking water above the proposed disposal interval is the Quaternary at the surface. Two water wells have been approved within a 2,000-meter (6,560') radius according to the Office of the State Engineer (Exhibit G).

The closer (C-03530 is 5,513' southwest) of the two water wells has not yet been drilled according to the grazing permittee. Closest existing water well (C-03555) is 6,209' northeast. Water was found at 400', but the well has not been completed, according to the grazing permittee. He is waiting on a power line before installing a pump. No underground source of drinking water is below the proposed disposal interval.

Formation tops are:

Quaternary = 0'
Rustler Anhydrite = 890'
Salado Salt & Anydrite = 1,100'
Castillo Anhydrite = 4,445'
Delaware Sandstone, Limestone, & Shale: = 4,640'
Bone Spring = 8,496'
PBSD = 8,546'
Total Depth: 9,900'

Surface casing to 623

There will at least 3,750' of vertical separation and the anhydrite interval between the bottom of the only likely underground water source (Quaternary) and the top of the Delaware. The Ogallala is not present. It is more than 25 miles northeast.

A minimum of 33,071,021 barrels of produced water has been disposed into the Delaware at three saltwater disposal wells within a <2.3-mile radius.

JUDAH OIL, LLC
JACK TANK 7 FEDERAL 2
330' FNL & 660' FEL SEC. 7, T. 24 S., R. 32 E.
LEA COUNTY, NEW MEXICO

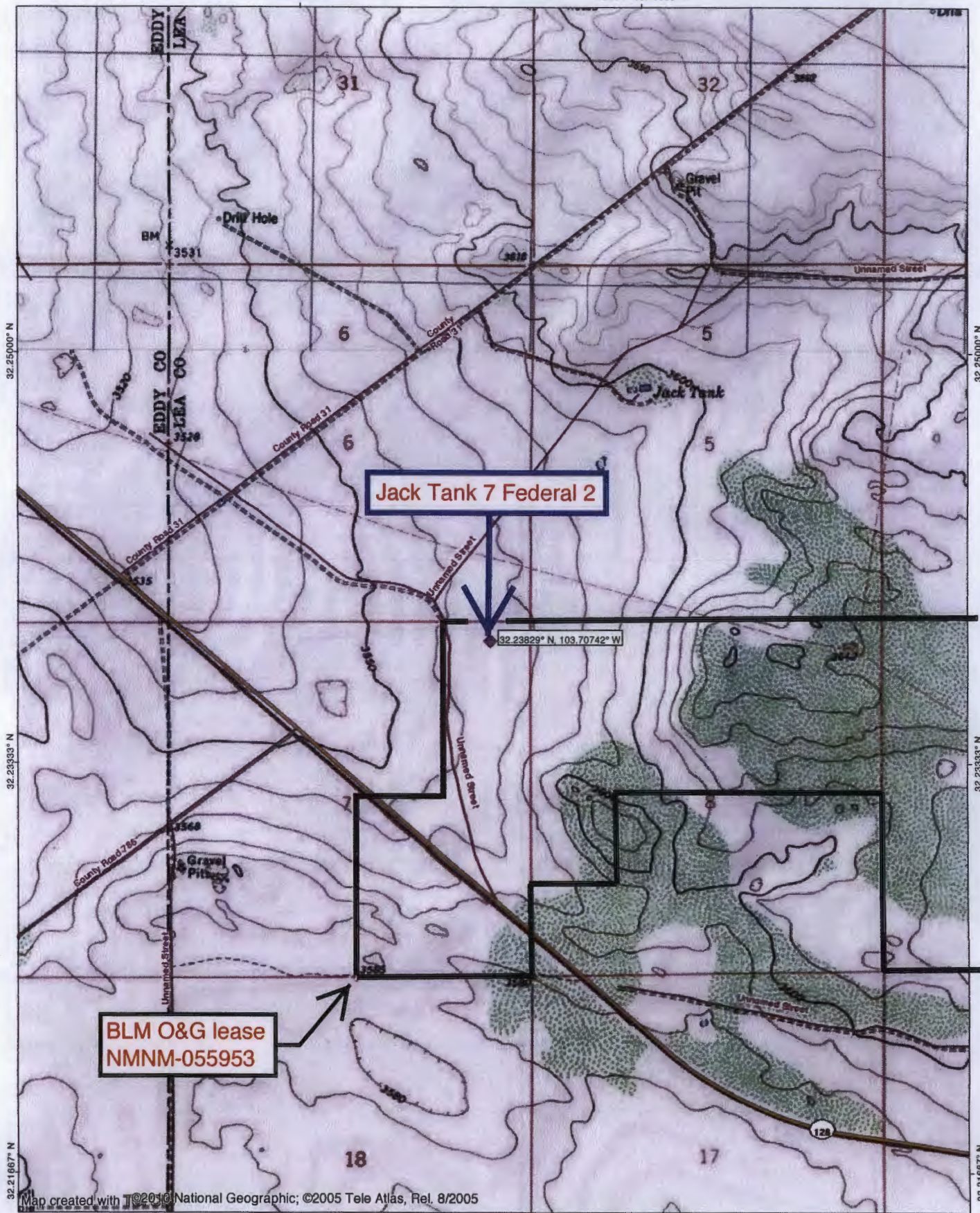
PAGE 6

30-025-32482

- IX. The well will be stimulated with acid to clean out scale or fill.
- X. Long spaced sonic, high-resolution induction, spectral density dual spaced neutron, and full wave sonic logs are on file with NMOCD.
- XI. Based on an October 10, 2013 field inspection and a review of the State Engineer's records (Exhibit G), no water wells are within a mile radius.
- XII. Judah Oil, LLC is not aware of any geologic or engineering data that may indicate the Delaware is in hydrologic connection with any underground sources of water. There are 278 active Delaware saltwater disposal or injection wells in New Mexico. Closest fault (Guadalupe) is more than 70 miles southwest (Exhibit H).
- XIII. Notice (this application) has been sent (Exhibit I) to the surface owner (BLM), lessor (BLM), and all lessees or leasehold operators or other affected persons within a half-mile.
- A legal ad (see Exhibit J) was published on November 2, 2013.

103.71667° W

WGS84 103.70000° W



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

103.71667° W

WGS84 103.70000° W

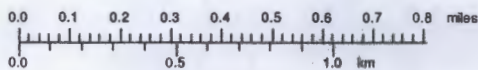


EXHIBIT A

TN#1/MN

7.5°

10/06/13

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

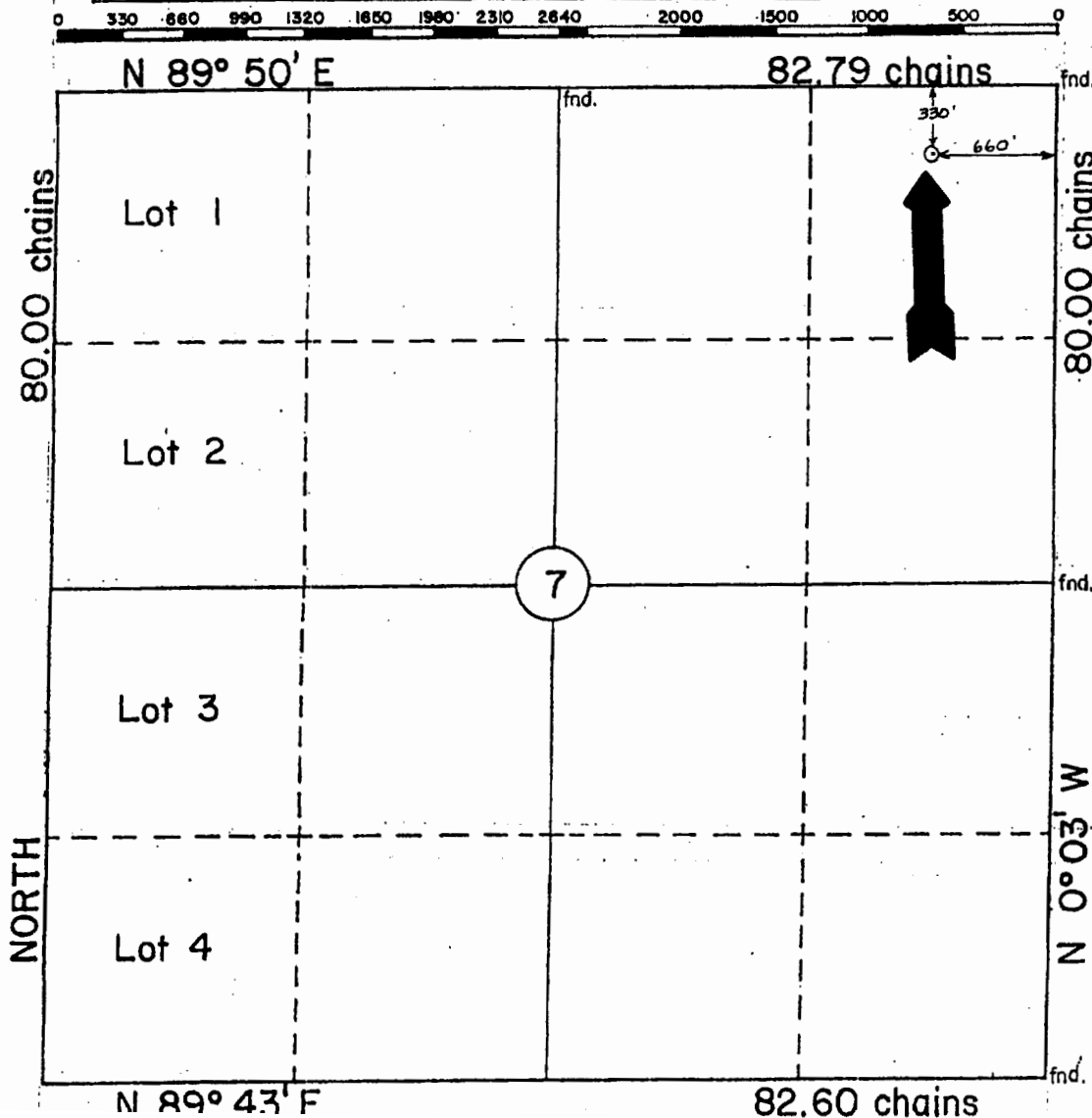
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT
All Distances must be from the outer boundaries of the section

Operator MERIDIAN OIL INC.			Lease JACK TANK 7 FEDERAL		Well No. 2
Unit Letter A	Section 7	Township 24 SOUTH	Range 32 EAST,	County NMPM LEA	
Actual Footage Location of Well: 330 feet from the NORTH line and 660 feet from the EAST line					
Ground level Elev. 3565	Producing Formation Bone Spring		Pool South Sand Dunes 22, 10cat	Dedicated Acreage: 40 Acres	
1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? ☐ Yes ☐ No If answer is "yes" type of consolidation _____ If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____ No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.					



OPERATOR CERTIFICATION

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

Signature

Donna Williams

Printed Name

Production Assistant

Position

Meridian Oil Inc.

Company

3/14/94

Date

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 knowledge and belief.

3-3-94

Date Surveyed

WILLIAM E. MAHNKE II

Signature & Seal of Professional Surveyor



EXHIBIT A

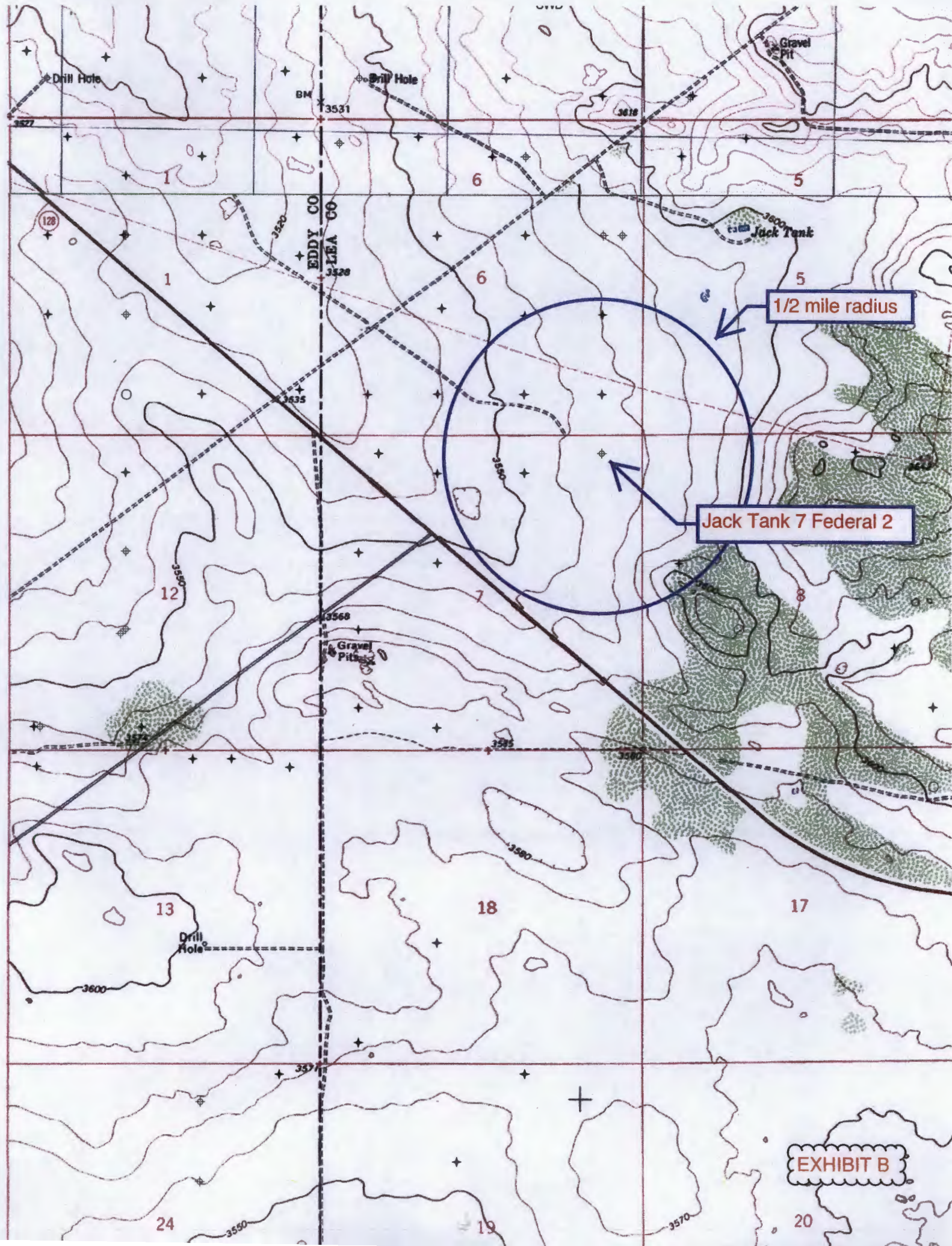
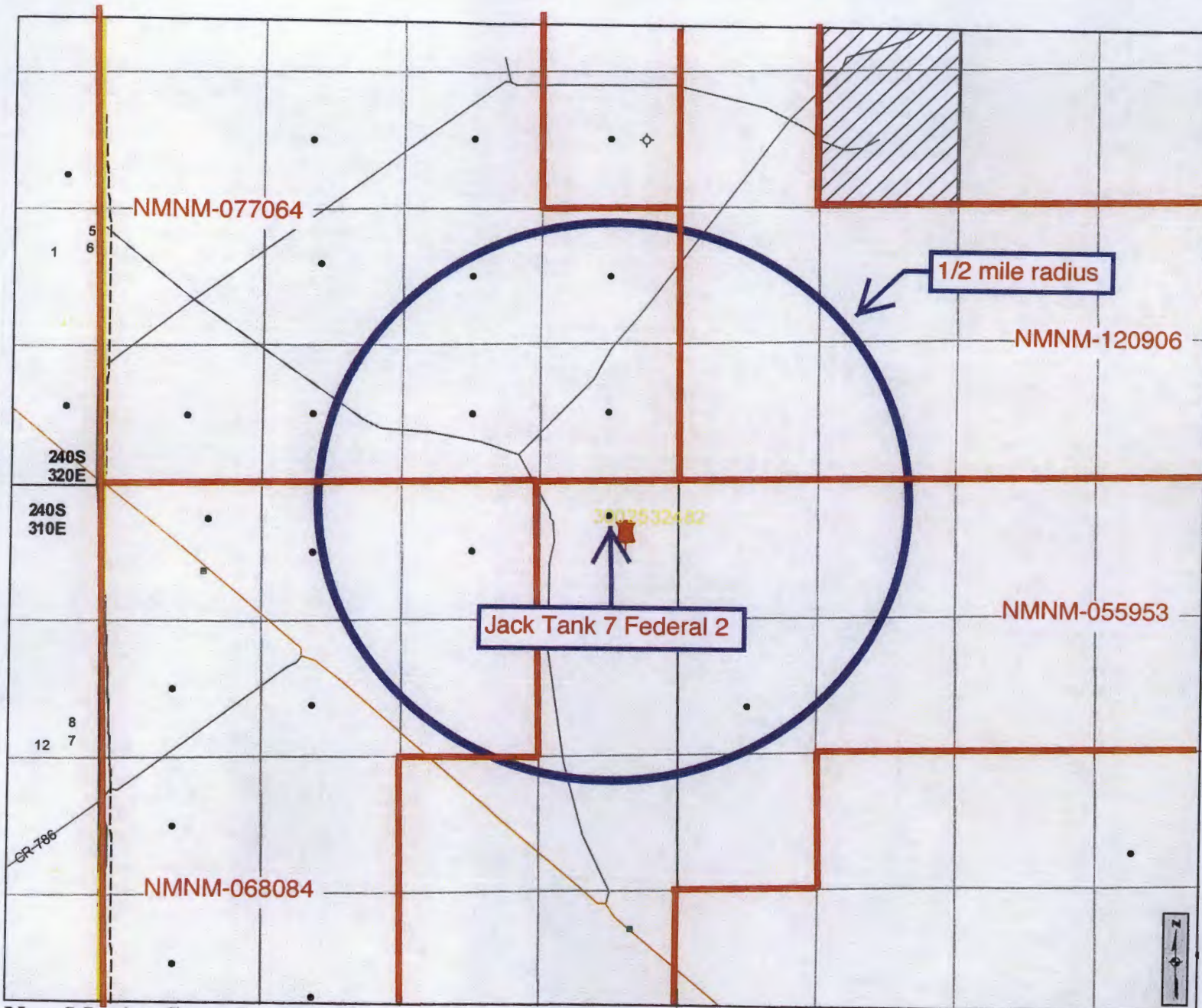


EXHIBIT B





Cartographic Features

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

Federal Minerals Ownership

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

State Trust Lands

- Surface Estate
- Subsurface Estate
- Surface and Subsurface Estate

State Leases

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

Oil and Gas Related Features

- Oil and Gas Unit Boundary
- Participating Areas in Units
- Geologic Regions
- Volcanic Vents
- 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 0.05 0.1 0.2 0.3 0.4 Miles

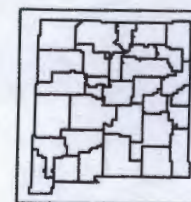
Universal Transverse Mercator Projection, Zone 13
1983 North American Datum

EXHIBIT D

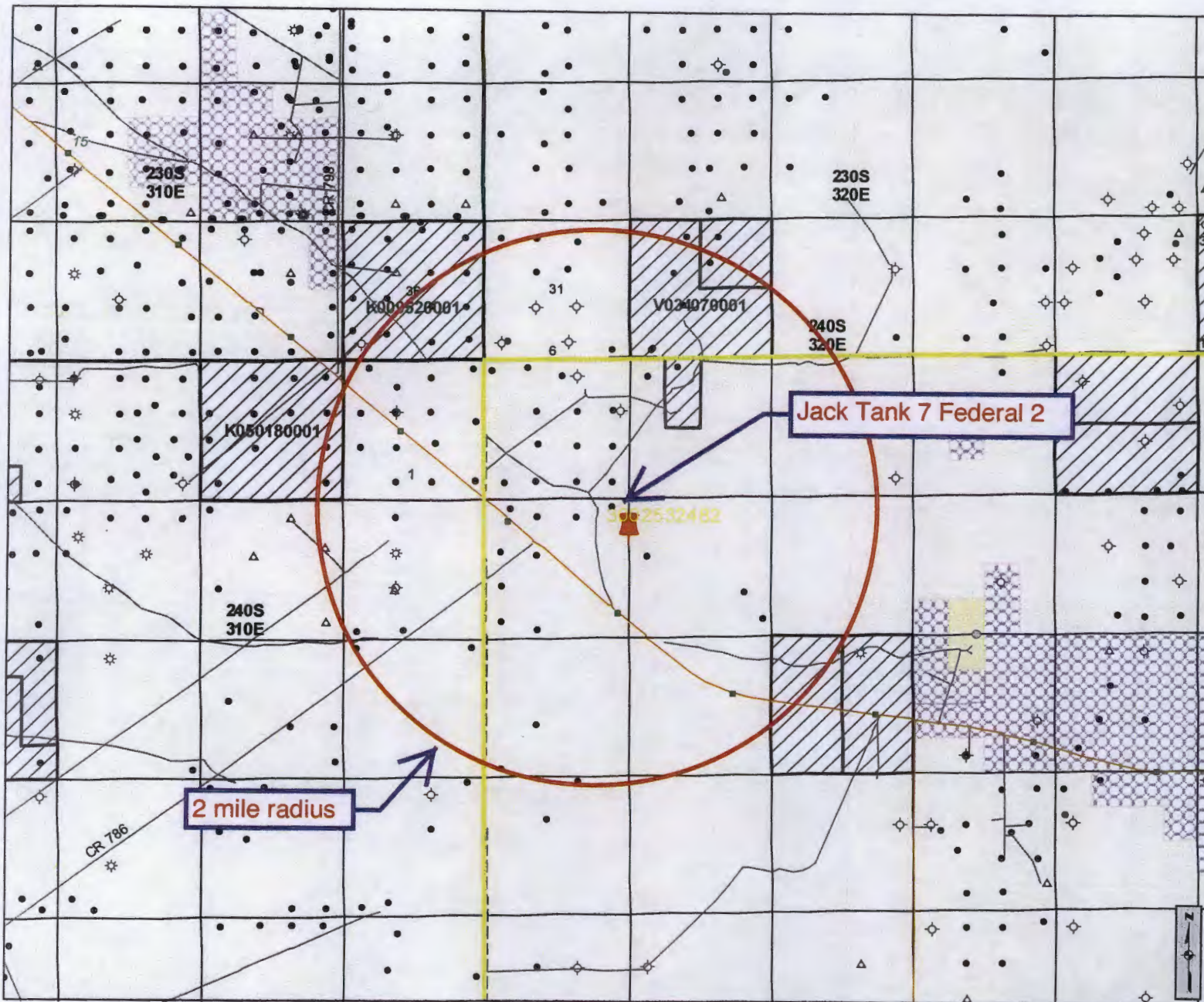
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www.nmstatelands.org



Cartographic Features

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

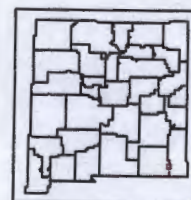
- Oil and Gas Leases
- Agricultural Leases
- Commercial Leases
- Minerals Leases
- Not Available for Oil and Gas Leasing
- Oil and Gas Leasing Influenced by Restriction

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



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New Mexico State Land Office Oil, Gas and Minerals

0 0.25 0.5 1 1.5 2 Miles
Universal Transverse Mercator Projection, Zone 13
1983 North American Datum

EXHIBIT E

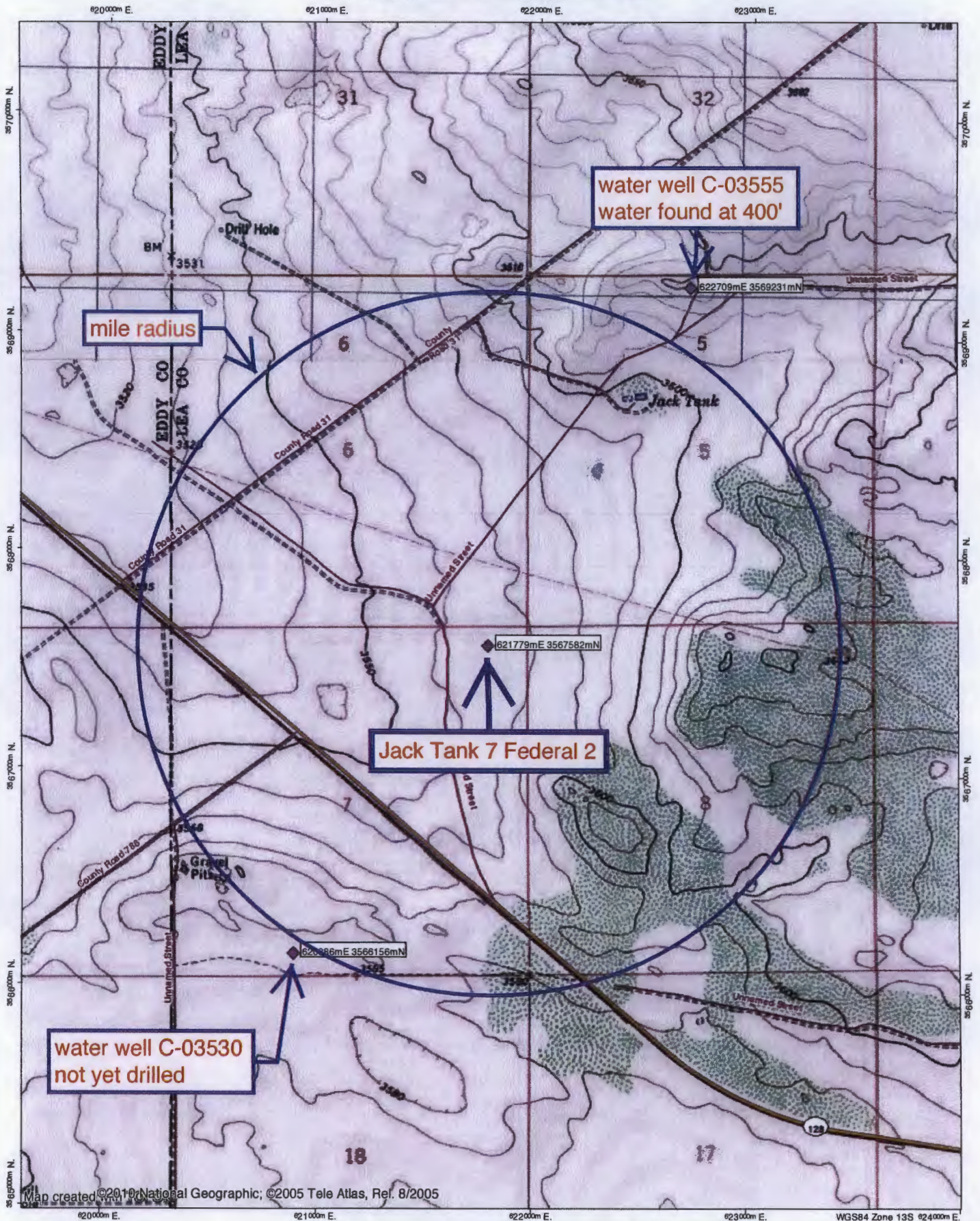
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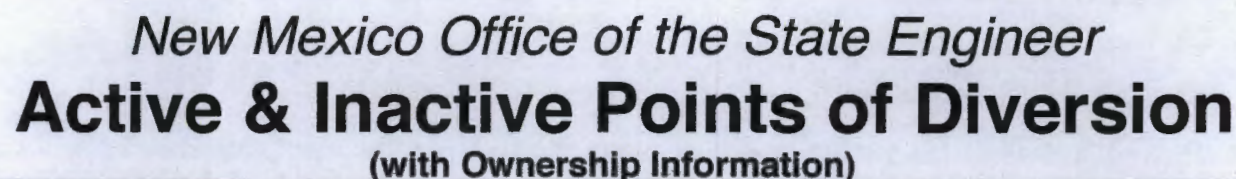
Land Office Geographic Information Center
logic@slo.state.nm.us

Created On: 11/11/2013 10:47:37 AM

Sorted by distance from Jack Tank 7 Federal 2

[illegible]





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

File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code Grant	Source	q q q 6416 4	Sec	Tws	Rng	X	Y	Distance			
0	C	STK		3 U.S. DEPT. OF INTERIOR--BLM	LE	C 03530 POD1			3	4	3	07	24S	32E	620886	3566156		1681
5	C	STK		3 ANNETTE MCCLOY	LE	C 03555 POD1			2	2	1	05	24S	32E	622709	3569231		1893
9	C	STK		3 U.S. DEPT. OF INTERIOR--BLM	LE	C 03529 POD1			2	4	3	29	23S	32E	622651	3571212		3733

Sorted by: Distance

ACTIVE & INACTIVE POINTS OF DIVERSION



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD		Q Q Q				Ring	X	Y	Distance	Depth		
	Code	basin	County	64	16	4	Sec	Tws			Well	Water	Water Column
<u>C 03530 POD1</u>	C	LE		3	4	3	07	24S	32E	620886	3566156	1681	550
<u>C 03555 POD1</u>	C	LE		2	2	1	05	24S	32E	622709	3569231	1893	560

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 621779

Northing (Y): 3567582

Radius: 2000

EXHIBIT G

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.



EXHIBIT H

Google earth



November 25, 2013

BLM
620 E. Greene
Carlsbad, NM 88220

Judah Oil, LLC is applying (see attached application) to re-enter and convert the Jack Tank 7 Federal 2 well to a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Proposed Injection Zone: Delaware (from 4,700' to 7,100')
Location: 330' FNL & 660' FEL Sec. 7, T. 24 S., R. 32 E., Lea County, NM
Approximate Location: ~31 air miles northwest of Jal, NM
Applicant Name: Judah Oil, LLC (575) 746-1280
Applicant's Address: P. O. Box 568, Artesia NM 88211

Submittal Information: Application for a saltwater disposal well 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 New Mexico Oil Conservation Division 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

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November 25, 2013

COG Production LLC
600 Illinois Ave. One Concho Center
Midland, TX 79701

Judah Oil, LLC is applying (see attached application) to re-enter and convert the Jack Tank 7 Federal 2 well to a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Brian Wood

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PS Form 3800, August 2006 See Reverse for Instructions



November 25, 2013

Devon Energy Production Company LP
333 W. Sheridan Ave.
Oklahoma City, OK 73102-5010

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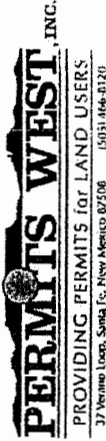
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Sincerely,

Brian Wood

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November 25, 2013

John R Anderson
1245 E. Brickyard Road
Salt Lake City, UT 84106

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Please call me if you have any questions.

Sincerely,

Brian Wood

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EOG Resources Inc.
P. O. Box 4362
Houston, TX 77210-4362
November 25, 2013

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Please call me if you have any questions.

Sincerely,

Brian Wood

Brian Wood

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First Roswell Co.
P. O. Box 1797
Roswell, NM 88202
November 25, 2013

Judah Oil, LLC is applying (see attached application) to re-enter and convert the Jack Tank 7 Federal 2 well to a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.

Sincerely,

Brian Wood

Brian Wood

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James Jennings
P. O. Box 1180
Roswell, NM 88202-1180

November 25, 2013

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Please call me if you have any questions.

Sincerely,

B. Wood

Brian Wood

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Thomas E. Jennings
P. O. Box 1797
Roswell, NM 88202-1797

November 25, 2013

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Please call me if you have any questions.

Sincerely,

B. Wood

Brian Wood

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November 25, 2013

Kerr-McGee OG Onshore LP
1999 Broadway, Suite #3700
Denver, CO 80202

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Please call me if you have any questions.

Sincerely,

Brian Wood

Brian Wood

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City, State, ZIP+4 *Denver, CO 80202*

PS Form 3800, August 2006 See Reverse for Instructions



November 25, 2013

Millennium Energy Corp.
511 E. John Carpenter
Irving, TX 75016-1689

Judah Oil, LLC is applying (see attached application) to re-enter and convert the Jack Tank 7 Federal 2 well to a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Sincerely,

Brian Wood

Brian Wood

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Street, Apt. No., or PO Box No. *511 E. John Carpenter*

City, State, ZIP+4 *Irving, TX 75016-1689*

PS Form 3800, August 2006 See Reverse for Instructions



OXY USA Inc.

5 Greenway Plaza, Suite #110
Houston, TX 77046-0521

November 25, 2013

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Brian Wood

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City, State, ZIP+4 110

PS Form 3800, August 2006 See Reverse for Instructions



OXY USA Inc.

P. O. Box 27570
Houston, TX 77227-7570

November 25, 2013

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November 25, 2013

XPX Producing Co. LLC
717 Texas St. Suite 2100
Houston, TX 77002-2753

Judah Oil, LLC is applying (see attached application) to re-enter and convert the Jack Tank 7 Federal 2 well to a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Proposed Injection Zone: Delaware (from 4,700' to 7,100')
Location: 330' FNL & 660' FEL Sec. 7, T. 24 S., R. 32 E., Lea County, NM
Approximate Location: ~31 air miles northwest of Jal, NM
Applicant Name: Judah Oil, LLC (575) 746-1280
Applicant's Address: P. O. Box 568, Artesia NM 88211

Submittal Information: Application for a saltwater disposal well 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 New Mexico Oil Conservation Division 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

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City, State, ZIP+4 _____

PS Form 3800, August 2006 See Reverse for Instructions



November 25, 2013

Javelina Partners
616 Texas St.
Fort Worth, TX 76102-4612

Judah Oil, LLC is applying (see attached application) to re-enter and convert the Jack Tank 7 Federal 2 well to a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposed saltwater disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

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Total Postage & Fees \$		

Sent to Javelina

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

City, State, ZIP+4 _____

PS Form 3800, August 2006 See Reverse for Instructions

Affidavit of Publication

State of New Mexico,
County of Lea.

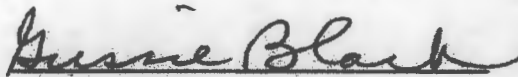
I, TODD BAILEY
EDITOR

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

of 1 issue(s).
Beginning with the issue dated
November 02, 2013
and ending with the issue dated
November 02, 2013


EDITOR

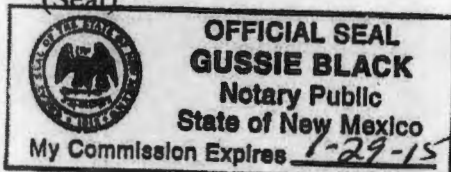
Sworn and subscribed to before me
this 5th day of
November, 2013



Notary Public

My commission expires
January 29, 2015

(Seal)



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

LEGAL
LEGAL NOTICE
November 2, 2013

Judah Oil, LLC will apply to re-enter and convert the Jack Tank 7 Federal 2 well to a saltwater disposal well. The well is at 330 FNE & 660 FEL Sec. 7, T. 24 S., R. 32 E., Lea County and is 31 miles northwest of JAL. Disposal will be into the Delaware from 4700' to 7100'. Maximum injection pressure will be 940' psi. Maximum disposal rate will be 18,000 bwpd. 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. #28553

02108485

00125516

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

EXHIBIT J

Goetze, Phillip, EMNRD

From: Brian Wood <brian@permitswest.com>
Sent: Wednesday, October 02, 2013 3:44 PM
To: Goetze, Phillip, EMNRD
Subject: Re: Jack Tank 7 Federal 2

Thanks for the quick reply & insight
On Oct 2, 2013, at 3:40 PM, Goetze, Phillip, EMNRD wrote:

Brian:

There are no current applications for this well. However, Mesquite applied in 2009 for injection into the Delaware. Devon protested and stated that it would limit the injection interval to 5100-6000 ft based on testing to be conducted by Devon. Mesquite withdrew their application. PRG

Phillip R. Goetze, P.G.
Engineering Bureau, Oil Conservation Division
1220 South St. Francis Dr., Santa Fe, NM 87505
O: 505.476.3466 F: 505.476.3462

From: Brian Wood [<mailto:brian@permitswest.com>]
Sent: Wednesday, October 02, 2013 3:30 PM
To: Goetze, Phillip, EMNRD
Subject: Jack Tank 7 Federal 2

Have you received any SWD application for 30-025-32482 (A-7-24s-32e)?
A client is considering it, but wants to be sure he is first through the door.
Thanks

Brian Wood
Permits West, Inc.
37 Verano Loop, Santa Fe, NM 87508
Phone: 505 466-8120
FAX: 505 466-9682
Cellular Phone: 505 699-2276

Goetze, Phillip, EMNRD

From: Brian Collins <BCollins@concho.com>
Sent: Tuesday, December 03, 2013 8:15 AM
To: Goetze, Phillip, EMNRD
Cc: Henry Zollinger; Mike Wallace; Pat Welch; Ocean Munds-Dry; Jan Spradlin; Ezeanyim, Richard, EMNRD
Subject: FW: SWD Notice--Judah Oil Jack Tank 7 Fed 2 (7-24s-32e) Conversion to SWD in Delaware 4700-7100'
Attachments: Scanned from a Xerox Multifunction Device.pdf

Phillip:

COG Operating, LLC objects to the proposed SWD well application. Our geologist believes there is a potentially productive zone at about 7000' which is within the proposed injection interval. We would consider withdrawing our objection to the proposed SWD well if the disposal interval is changed to 4700-6845'. Our geologist believes there is a good lithological seal at about 6845'. Please contact me or our geologist, Henry Zollinger, if you have questions. Henry can be contacted at hzollinger@concho.com or 432.221.0487. Thank you.

Brian Collins

Senior Operations Engineer
NM Basin Team

COG OPERATING LLC
2208 W. Main Street
Artesia, New Mexico 88210-3720
Phone # 575.748.6924
Email: bcollins@concho.com



From: Mike Wallace
Sent: Tuesday, December 03, 2013 7:04 AM
To: Brian Collins
Cc: Pat Welch; Jan Spradlin; Henry Zollinger; Ocean Munds-Dry
Subject: SWD Notice

Brian,

Please reference the attached notice from Judah Oil, LLC. They want to convert a well into a SWD and inject into the Delaware formation offsetting our Foxglove WI Unit in 24S-32E. They plan to inject into the formation from 4,700'-7,100'. We plan to produce from the Delaware from approximately 6,832' offsetting this acreage. We want to object but I am sending it to you for further handling. Please let me know if you need anything else from us on this matter.

Thanks,

Mike Wallace

Senior Landman
COG Operating LLC
Direct: (432) 221-0465
Cell: (432) 638-3424
mwallace@concho.com



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CONFIDENTIALITY NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you.

Goetze, Phillip, EMNRD

From: Goetze, Phillip, EMNRD
Sent: Tuesday, December 03, 2013 10:04 AM
To: Brian Wood (brian@permitswest.com)
Cc: Ezeanyim, Richard, EMNRD; McMillan, Michael, EMNRD; Brian Collins <BCollins@concho.com> (BCollins@concho.com)
Subject: Protest of Jack Tank 7 Federal SWD No. 2 C-108 Application

RE: Jack Tank 7 Federal SWD No. 2 (API 30-025-32482; pPRG1333660998) Sec. 7, T. 24 S., R. 32 E., NMPM, Lea County.

Mr. Wood:

OCD was notified by Mr. Brian Collins, Operations Engineer for COG Operating LLC (COG), that they are protesting this application. COG states that approval of this application will interfere with their operation in offsetting acre with the proposed injection interval submitted in the C-108 application. Therefore, you are being notified that if Judah Oil wishes for this application to be considered, it must either go to hearing or may be reviewed administratively if the protest is withdrawn as a result of a negotiated resolution with COG. The application will be retained, but suspended from further administrative review. Please contact OCD once you have made a decision regarding the application. Please me call with any questions regarding this matter. PRG

Phillip R. Goetze, P.G.

Engineering and Geological Services Bureau, Oil Conservation Division
1220 South St. Francis Dr., Santa Fe, NM 87505
O: 505.476.3466 F: 505.476.3462



OCEAN MUNDS-DRY
Senior Attorney

March 12, 2014

VIA E-MAIL

Ms. Jami Bailey, Director
Oil Conservation Division
New Mexico Department of Energy, Minerals and Natural Resources
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

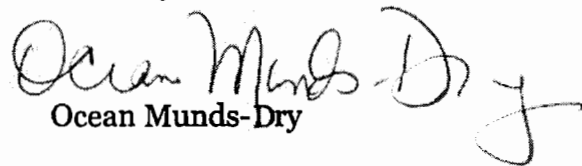
Re: Judah Oil's Application for Authorization to Inject (C-108) in the Jack Tank 7
Fed 2, Section 7, Township 24 south, Range 32 East, NMPM

Dear Director Bailey:

COG Operating LLC (Concho) withdraws its objection to the above-referenced application. Concho objected to Judah Oil's application on December 3, 2013. Since that time, Judah has revised its application and Concho no longer has any objection.

Thank you for your time and attention to this matter.

Sincerely,


Ocean Munds-Dry

cc: Phillip Goetze, OCD
Blaise Campanella, Judah Oil
Brian Collins, COG

CORPORATE ADDRESS

One Concho Center | 600 West Illinois Avenue | Midland, Texas 79701
PHONE 432.683.7443 | FAX 432.683.7441

LOCAL ADDRESS

1048 Paseo De Peralta | Santa Fe, New Mexico 87501
PHONE 505.780.8000 | FAX 505.428.0485

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

November 25, 2013

COG Production LLC
600 Illinois Ave. One Concho Center
Midland, TX 79701

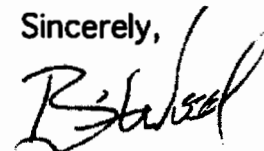
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Please call me if you have any questions.

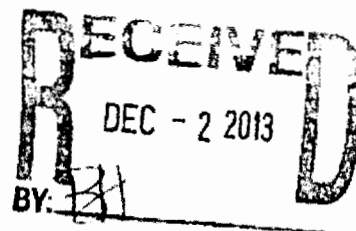
Sincerely,



Brian Wood

Top Brushy - 6832'

Stay above -6720'



Goetze, Phillip, EMNRD

From: Brian Wood <brian@permitswest.com>
Sent: Monday, March 17, 2014 1:24 PM
To: Goetze, Phillip, EMNRD
Cc: Ezeanyim, Richard, EMNRD; McMillan, Michael, EMNRD
Subject: Re: Jack Tank 7 Fed No. 2 - Status of Application

James Campanella of Judah has accepted COG's modification and wishes to proceed with the application. I will revise and get the documents to you tomorrow.

On Mar 17, 2014, at 9:25 AM, Goetze, Phillip, EMNRD wrote:

RE: Jack Tank 7 Federal SWD No. 2 (API 30-025-32482; pPRG1333660998) Sec. 7, T. 24 S., R. 32 E., NMPPM, Lea County.

Brian:

COG notified the OCD that they have withdrawn their protest of this C-108 application. COG indicated the resolution of the protest was to limit the lower end of the injection interval to 6720 feet from the 7100 feet in the original design. Therefore, I requesting some confirmation from Judah that they wish to continue with the processing of the application with this change. If this is the case, Judah Oil shall be required to submit a modified completion diagram (and summary sheet) for the proposed SWD well showing this change. Would you please confirm the status of application with Judah Oil and provide OCD a response about the future of the application. Thank you and contact me with any questions regarding this request. PRG

Phillip R. Goetze, P.G.

Engineering and Geological Services Bureau, Oil Conservation Division

1220 South St. Francis Drive, Santa Fe, NM 87505

O: 505.476.3466 F: 505.476.3462

phillip.goetze@state.nm.us

Goetze, Phillip, EMNRD

From: jbc@JUDAH OIL.com
Sent: Wednesday, March 19, 2014 7:15 PM
To: Goetze, Phillip, EMNRD
Cc: Vanwelch2@aol.com; Brian Wood
Subject: Jack Tank 7 Fed #2 C-108 App

Phillip,

Please except this request from Judah Oil, LLC for you as examiner for the NMOCD, to continue with our C-108 Application for the Jack Tank 7 Fed #2, API #30-025-32482. COG has withdrawn their protest of this Application and no other protest have been filed.

Thank you for your help

James B Campanella

Member/Manager

Judah Oil, LLC

575-746-1280 Office

575-746-1290 Fax

575-748-5488 Cell

P.O. Box 568

611 W Mahone, Suite F

Artesia, NM 88211-0568



C-108 Review Checklist:

Received 12/03/13 Add. Request: _____ Reply Date: _____ Suspended: _____ [Ver 13]PERMIT TYPE: WFX / PMX / SWD Number: 1480 Permit Date: 06/13/13 Legacy Permits/Orders: _____Well No. 2 Well Name(s): Jack Tank 7 FederalAPI: 30-0 25-32482 Spud Date: 11/10/1994 New or Old: New (UIC Class II Primacy 03/07/1982)Footages 330 FNL / 660 FEL Lot — or Unit A Sec 7 Tsp 24S Rge 32E County LeaGeneral Location: SE of WIPP ~ 13 mi west of Ocha Pool: SWD, Delaware Pool No.: 96100BLM 100K Map: Jal Operator: Judah Oil, LLC OGRID: 245872 Contact: PermitsWest / Brian WoodCOMPLIANCE RULE 5.9: Total Wells: 34 Inactive: 1 Fincl Assur: Yes Compl. Order? 16 IS 5.9 OK? Yes Date: 06/13/2014WELL FILE REVIEWED ☒ Current Status: P&A - wildcat Bone Springs no shows Mesaverde, Delaware - Pool +4700 ft [Brushy 7300]WELL DIAGRAMS: NEW: Proposed ☐ or RE-ENTER: Before Conv. ☒ After Conv. ☒ Logs in Imaging: Sonic / Induction / Density / etcPlanned Rehab Work to Well: Drill out plugs at 632' and 1150'; remove plug at 4690' and run liner 4000 to 4700

Well Construction Details:		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement St or Cf	Cement Top and Determination Method
Planned ☐ or Existing ☒ Surface		17 1/2 / 13 3/8	0 to 623	630	Cir. to surface
Planned ☐ or Existing ☒ Interm/Prod		12 1/4 / 8 5/8	0 to 4309	1600	Cir. to surface
Planned ☐ or Existing ☐ Interm/Prod		—	—	—	—
Planned ☐ or Existing ☒ Prod (Liner)		[in 7 liner]	4000 to 4700	200	Cnt. to TOL
Planned ☐ or Existing ☐ Liner		—	—	—	—
Planned ☐ or Existing ☒ OH / PERF		7 7/8	* 4700 to 6720	Inj Length 2020	

Injection Stratigraphic Units:		Depths (ft)	Injection or Confining Units	Tops	Completion/Operation Details:
Adjacent Unit: Litho. Struc. Por.			Salado	1100	Drilled TD <u>9900</u> PBTD <u>4690 / 8546</u>
Confining Unit: ☒ Litho. ☒ Struc. ☒ Por.		± 60	Costile	4445	NEW TD <u>No change</u> NEW PBTD <u>6720</u>
Proposed Inj Interval TOP:		* 4700	Bell Canyon	4640	NEW Open Hole ☒ or NEW Perfs ☐
Proposed Inj Interval BOTTOM:		6720	Cherry Canyon		Tubing Size <u>3 1/2</u> in. Inter Coated? <u>Yes</u>
Confining Unit: ☒ Litho. ☒ Struc. ☒ Por.		—	Bone Springs	8496	Proposed Packer Depth <u>4650</u> ft
Adjacent Unit: Litho. Struc. Por.			Brushy Canyon	7300	Min. Packer Depth <u>4600</u> (100-ft limit)
					Proposed Max. Surface Press. <u>940</u> psi
					Admin. Inj. Press. <u>940</u> (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P No Noticed? NA BLM Sec Ord No WIPP No Noticed? NA SALT/SALADO T: 1100 B: 4445 CLIFF HOUSE —FRESH WATER: Aquifer Basal / Alluvial Max Depth 400 ft HYDRO AFFIRM STATEMENT By Qualified Person ☒NMOSE Basin: Carlbad CAPITAN REEF: thru ☐ adj ☐ NAC ☒ No. Wells within 1-Mile Radius? 0 FW Analysis NADisposal Fluid: Formation Source(s) Bone Springs / Yes / WIPP / Mesaverde / Delaware Analysis? Yes On Lease ☐ Operator Only ☒ or Commercial ☐Disposal Int: Inject Rate (Avg/Max BWRD): 15000 / 18000 Protectable Waters? No Source: Historical System: Closed ☒ or Open ☐HC Potential: Producing Interval? No Formerly Producing? No Method: Log / DST / P&A / Other 2-Mile Radius Pool Map ☐AOR Wells: 1/2-M Radius Map? Yes Well List? Yes Total No. Wells Penetrating Interval: 6 → 5 Horizontals? 0Penetrating Wells: No. Active Wells 5 Num Repairs? 0 on which well(s)? 5 Active + 1 proposed Diagrams? 16Penetrating Wells: No. P&A Wells 0 Num Repairs? 0 on which well(s)? — Diagrams? 16NOTICE: Newspaper Date 11/02/2013 Mineral Owner BLM Surface Owner BLM N. Date 11/2/2013RULE 26.7(A): Identified Tracts? Yes Affected Persons: PXP Prod. / Javelina Jetco / Jennings / First Bank Roswell / Kerr McGee N. Date 11/2/2013Permit Conditions: Issues: * COG resolution (reduced interval); >2000' interval; new plug depthAdd Permit Cond: Injection survey (within 2 years); new plug depth (within advertise section)