

DATE <u>12.27.11</u>	SUSPENSE	ENGINEER <u>WVJ</u>	LOGGED IN <u>12.27.11</u>	TYPE <u>SIUD</u>	APP NO. <u>1136144139</u>
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*PTGW*

*4/5/12*

ABOVE THIS LINE FOR DIVISION USE ONLY

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



*Unified Operating*

*West Tail B Deep #1*

**ADMINISTRATIVE APPLICATION CHECKLIST** *30-025-25046*

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 \_\_\_\_\_

*Reef?*

*H-17*  
 RECEIVED OOD  
 201 DEC 23 P 12:49  
*255*  
*36E*

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

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

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

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

<u>Billy E. Prichard</u> Print or Type Name	<u><i>Billy E. Prichard</i></u> Signature	<u>Agent for Unified Operating, LLC</u> Title	<u>12/14/11</u> Date
		<u>billy@pwillc.net</u> e-mail Address	

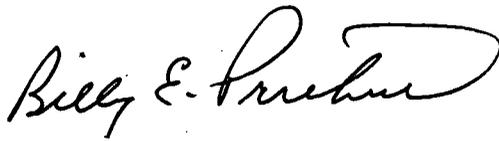
December 19, 2011

Will,

Enclosed are 2 copies of form C108 for Unified Operating, LLC seeking administrative approval of West Jal B Deep # 1 for commercial salt water disposal in the Fusselman. I originally filed for SWD; Yates, Seven Rivers disposal back in August of 2011. Also enclosed is copy of email that I received from the Hobbs Daily News Sun for publication of the legal notice. I will forward Affidavit of Publication as soon as I receive.

Should you need more information or have questions please call or email.

Thanks



Billy(Bill) E. Prichard  
Pueblo West Consulting Service  
125 Greathouse Village  
Decatur, TX 76234  
4329347680 cellular or text  
9406275449 fax  
Email; [billy@pwllc.net](mailto:billy@pwllc.net)

RECEIVED OGD  
2011 DEC 23 P 12:49

[Print](#) | [Close Window](#)

**Subject: Re: Legal Notice**

**From:** bookkeeping <bookkeeping@hobbsnews.com>

**Date:** Wed, Dec 14, 2011 3:52 pm

**To:** billy@pwllc.net

Your ad has been placed to run in Friday's paper.

Thank you,

Yesenia

On Dec 14, 2011, at 8:46 AM, classifieds wrote:

Begin forwarded message:

**From:** <billy@pwllc.net>

**Date:** December 14, 2011 7:52:46 AM MST

**To:** "Notice Legal" <classifieds@hobbsnews.com>

**Subject:** Legal Notice

Please find attached legal notice that I need to get published in the Hobbs paper 1 time..Affidavit of Publication and Invoice should be sent to the below address. Please respond to this email communication for verification of delivery.

Thanks

Billy (Bill) E. Prichard  
Pueblo West Consulting  
125 Greathouse Village  
Decatur, TX 76234  
432-934-7680 cellular  
940-627-5449 fax  
email; [billy@pwllc.net](mailto:billy@pwllc.net)  
[www.pwllc.net](http://www.pwllc.net)

#### Legal Notice

Unified Operating, L.L.C., PO Box 2931, Littleton, Colorado 80161 has filed NMOCD form C108 seeking administrative approval to convert the West Jal B Deep #001,

API # 30-025-25046 located 1980 FNL x 660 FEL, Unit letter "H", Section 17 T2SS, R36E, NMPM, Lea County, New Mexico from a Wolfcamp oil well to a Fusselman commercial salt water disposal well. Disposal fluid would come from producing wells in the area. The disposal interval would be the Fusselman formation through perforations from 16411 feet to 16670 feet. Anticipated disposal rate is 5000-10000 barrels of water per day. Anticipated disposal pressure is expected to be 0 psig with a maximum disposal pressure of 3282 psig.

Well is located 5.3 miles west of Jal, New Mexico

All interested parties opposing the aforementioned must file objections with the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505 within 15 days. Additional information can be obtained by contacting Victoria Hirschfeld

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance  Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval?  Yes \_\_\_\_\_ No
- II. OPERATOR: Unified Operating, L.L.C.  
ADDRESS: PO Box 2931 Littleton, CO 80161  
CONTACT PARTY: Victoria Hirschfeld 720-328-8366
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? \_\_\_\_\_ Yes  No  
If yes, give the Division order number authorizing the project: \_\_\_\_\_
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- \*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Billy E. Prichard TITLE: Agent for Unified Operating  
SIGNATURE: Billy E. Prichard DATE: 12/14/11  
E-MAIL ADDRESS: billy@pwllc.net
- \* 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: \_\_\_\_\_

**Unified Operating, L.L.C.**  
**West Jal B Deep # 1**  
**API # 30-025-25046**  
**1980 FNL X 660 FEL**  
**Unit Letter "H", Section 17, T25S, R36E**  
**Lea County, New Mexico**

**Page 1**

1. The purpose of this application is seeking the administrative approval of the conversion of the West Jal B Deep # 1 from a shut in non productive Wolfcamp oil well to a commercial Fusselman salt water disposal well.
  2. **Operator:** Unified Operating, LLC      Ogrid # 281652  
**Address:** P.O.Box 2931    Littleton, Colorado 80161  
**Contact:**    Victoria Hirschfeld                      720-328-8366
  3. Please see Exhibit "A" for complete well data.
  4. This is NOT an expansion of an existing project.
  5. Please see Exhibit "B" for map of 0.5 mile and 1.0 mile area of review.
  6. There was only one plugged and abandoned well in the area of review. This well did not penetrate the proposed disposal interval. Please see Exhibit "C" for list of wells in area of review and well diagram of plugged and abandoned well in AOR.
  7.
    1. Anticipated average disposal volume of 3000 barrels of water per day with a maximum disposal volume of 10000 barrels of water per day.
    2. This will be an open system.
    3. The average disposal pressure is anticipated to be 0 psig, with a maximum disposal pressure of 3282 psig.  $16411 \text{ feet} \times 0.2 = 3282 \text{ psig}$
    4. The source of the disposed fluid would be produced water trucked or brought in by pipeline from numerous producing oil wells in the area. Please see Exhibit "D" for analysis of possible water that could be disposed in the West Jal B Deep # 001.
    5. Please see Exhibit "E" for analysis of Fusselman produced water.
  8. The Fusselman in the West Jal B Deep # 1 is a porous, fractured dolomite
  9. There is no stimulation planned at this time.
-

**Unified Operating, L.L.C.  
West Jal B Deep # 1  
API # 30-025-25046  
1980 FNL X 660 FEL  
Unit Letter "H", Section 17, T25S, R36E  
Lea County, New Mexico**

**Page 2**

10. Logs and completion data was submitted by previous operator.
  11. Please see Exhibit "F" for fresh water analysis of a water well in the area.
  12. Geologic and engineering data has been examined and there is no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
  13. Please see Exhibit "G" for proof of notify and legal notice to be published in the Hobbs Daily News Sun. Affidavit of Publication will be submitted when received.
  14. Unified Operating, LLC has no other wells in New Mexico.
-

Unified Operating, L.L.C.  
West Jal B Deep # 1  
API # 30-025-25046  
1980 FNL X 660 FEL  
Unit Letter "H", Section 17, T25S, R36E  
Lea County, New Mexico

*Well Data*

Spud 6/12/1975 as wildcat gas well.

20" 94# casing set at 767 feet in 26" hole, cemented with 1400 sacks Class "C" lite followed by 300 sacks Class "C" with 2% CaCL. Cement circulated to surface.

13 3/8" 68# and 72# casing set at 5210 feet, cemented with 5000 sacks Class "C" poz 3 with additives followed by 300 sacks Class "C". Cement did not circulate. Top of cement at 590 feet by temperature survey.

10 3/4" 60.7# casing set at 11263 feet in 12 1/4" hole with DV tool at 7568 feet. Cemented in 2 stages.

1<sup>st</sup> Stage – 750 sacks of Howco lite followed by 300 sacks of Class "C" with additives. Cement circulated to DV tool.

2<sup>nd</sup> Stage – 1800 sacks of Howco lite followed by 100 sacks of Class "H" with additives. Top of cement at 5140 feet by temperature survey.

7 3/4" 46.1# liner was run in 9 1/2" hole from 10917 – 14685 feet, cemented with 1300 sacks of cement. Cement volume sufficient to circulate to top of liner at 10917 feet using slurry volume of 1.18 cubic feet per sack.

Drilled 6 1/2" hole to total depth 18945 feet.

5" 23.8# liner was run in 6 1/2" hole from 14332 – 18930 feet cemented with 750 sacks of cement. Cement volume sufficient to circulate to top of liner at 14332 feet using slurry volume of 1.18 cubic feet per sack.

Perforated Ellenburger 18444-18858 feet

Cast iron bridge plug set at 17100 feet capped with 3 sacks of cement.

Perforated Fusselman 16411-16439 feet

Cast iron bridge plug set at 14200 feet capped with 15 feet of cement.

Perforated Atoka 12436-12706 feet

Perforated Strawn 11708- 11995 feet

Cast iron bridge plug set at 11650 feet

Perforated Wolfcamp 11416-11425 feet – Squeezed

Perforated Wolfcamp 11379-11399 feet

**Unified Operating, L.L.C.**  
**West Jal B Deep # 1**  
**API # 30-025-25046**  
**1980 FNL X 660 FEL**  
**Unit Letter "H", Section 17, T25S, R36E**  
**Lea County, New Mexico**

*Well Data*

**Anhy 1307**  
**Top Salt 1460**  
**Base Salt 3360**  
**Tansill 3430**  
**Yates 3590**  
**Seven Rivers 3870**  
**Delaware Lime 5221**  
**Bone Spring 7884**  
**Wolfcamp 10956**  
**Strawn 11482**  
**Atoka 12095**  
**Devonian 15381**  
**Fusselman 16404**  
**Ellenburger 18318**

*abandoned*  
*200 MCFD / 70 BWP*

**Production Summary of api:3002525046 pool:JAL;FUSSELMAN, WEST (GAS)**

producing year	Oil	Gas	Water	Co2
2005	0	6539	2056	0
2006	0	0	0	0
<b>summary</b>	<b>0</b>	<b>6539</b>	<b>2056</b>	<b>0</b>

**Production Summary of api:3002525046 pool:JAL;WOLFCAMP, WEST**

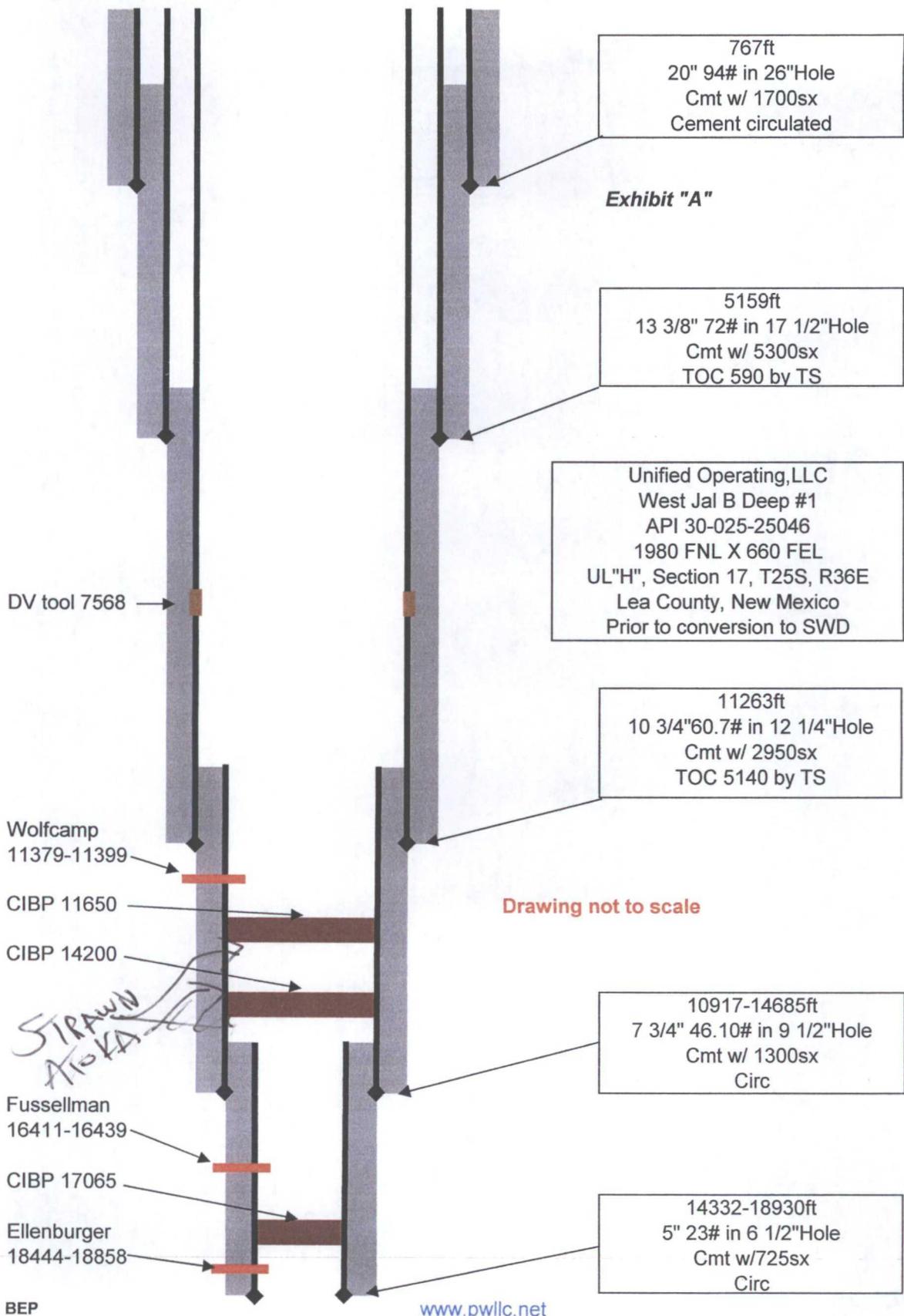
producing year	Oil	Gas	Water	Co2
2006	0	3586	0	0
2007	0	276	7	0
2008	0	0	0	0
2009	0	0	0	0
2010	0	0	0	0
2011	0	0	0	0
<b>summary</b>	<b>0</b>	<b>3862</b>	<b>7</b>	<b>0</b>

**Unified Operating, L.L.C.**  
**West Jal B Deep # 1**  
**API # 30-025-25046**  
**1980 FNL X 660 FEL**  
**Unit Letter "H", Section 17, T25S, R36E**  
**Lea County, New Mexico**

*Well Data*

**Production Summary of api:3002525046 pool:JAL;STRAWN, WEST (ASSOC)**

producing year	Oil	Gas	Water	Co2
1992**	4117	547927	3936	0
1993	300	41784	0	0
1994	179	39979	3660	0
1995	1	30848	5533	0
1996	1	25180	4328	0
1997	3784	25023	2492	0
1998	0	29367	2983	0
1999	0	16227	1772	0
2000	0	21748	42	0
2001	144	11303	2056	0
2002	0	11418	216	0
2003	0	10175	4454	0
2004	0	7724	1058	0
summary	4409	270776	28594	0



767ft  
 20" 94# in 26"Hole  
 Cmt w/ 1700sx  
 Cement circulated

**Exhibit "A"**

5159ft  
 13 3/8" 72# in 17 1/2"Hole  
 Cmt w/ 5300sx  
 TOC 590 by TS

Unified Operating, LLC  
 West Jal B Deep #1  
 API 30-025-25046  
 1980 FNL X 660 FEL  
 UL"H", Section 17, T25S, R36E  
 Lea County, New Mexico  
 Prior to conversion to SWD

11263ft  
 10 3/4" 60.7# in 12 1/4"Hole  
 Cmt w/ 2950sx  
 TOC 5140 by TS

**Drawing not to scale**

10917-14685ft  
 7 3/4" 46.10# in 9 1/2"Hole  
 Cmt w/ 1300sx  
 Circ

14332-18930ft  
 5" 23# in 6 1/2"Hole  
 Cmt w/ 725sx  
 Circ

DV tool 7568

Wolfcamp  
 11379-11399

CIBP 11650

CIBP 14200

Fussellman  
 16411-16439

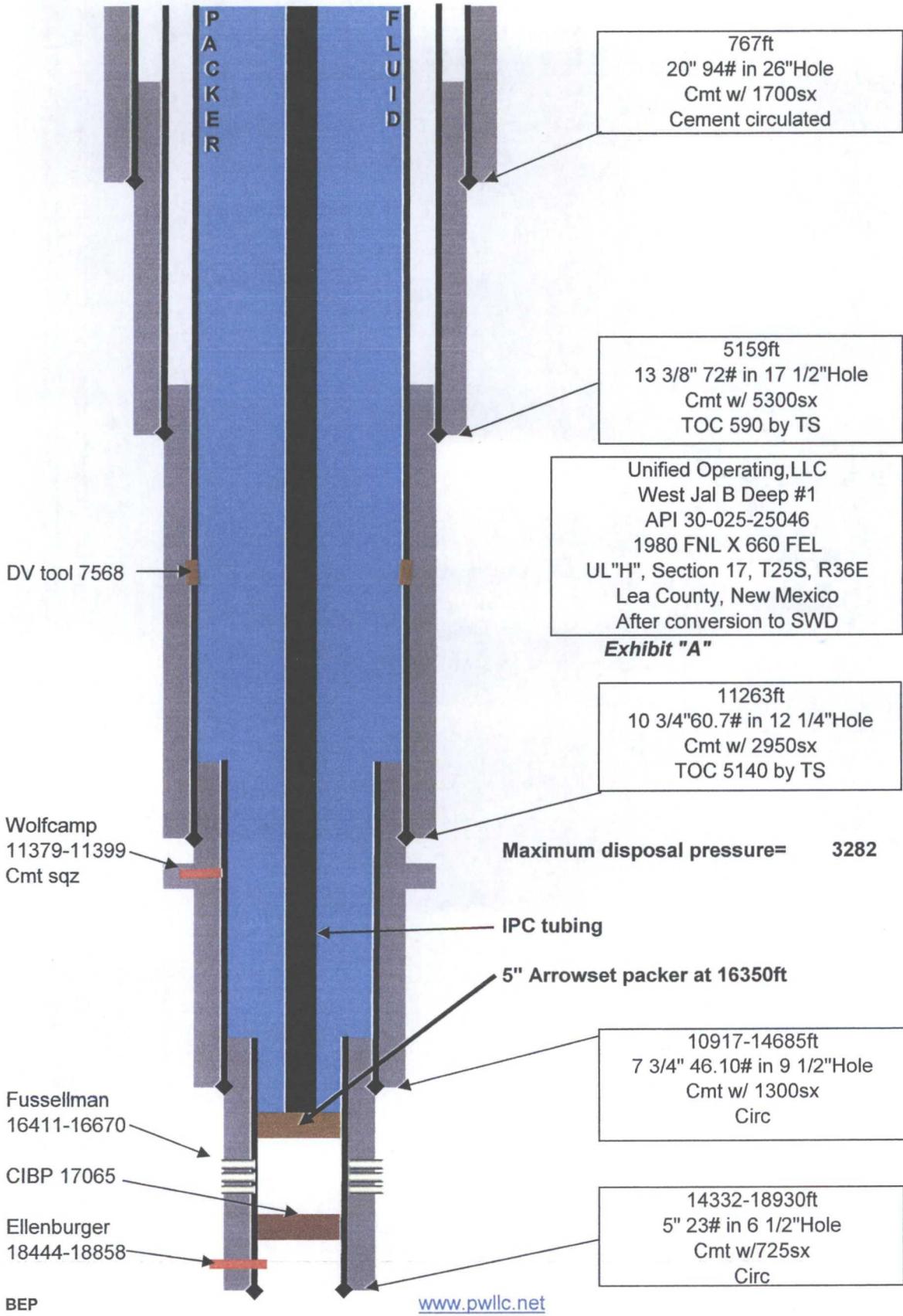
CIBP 17065

Ellenburger  
 18444-18858

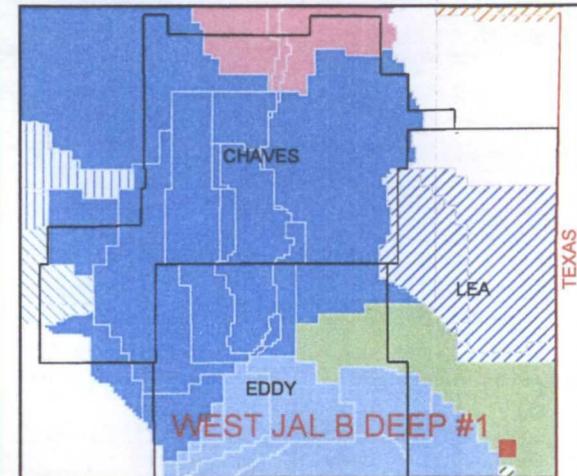
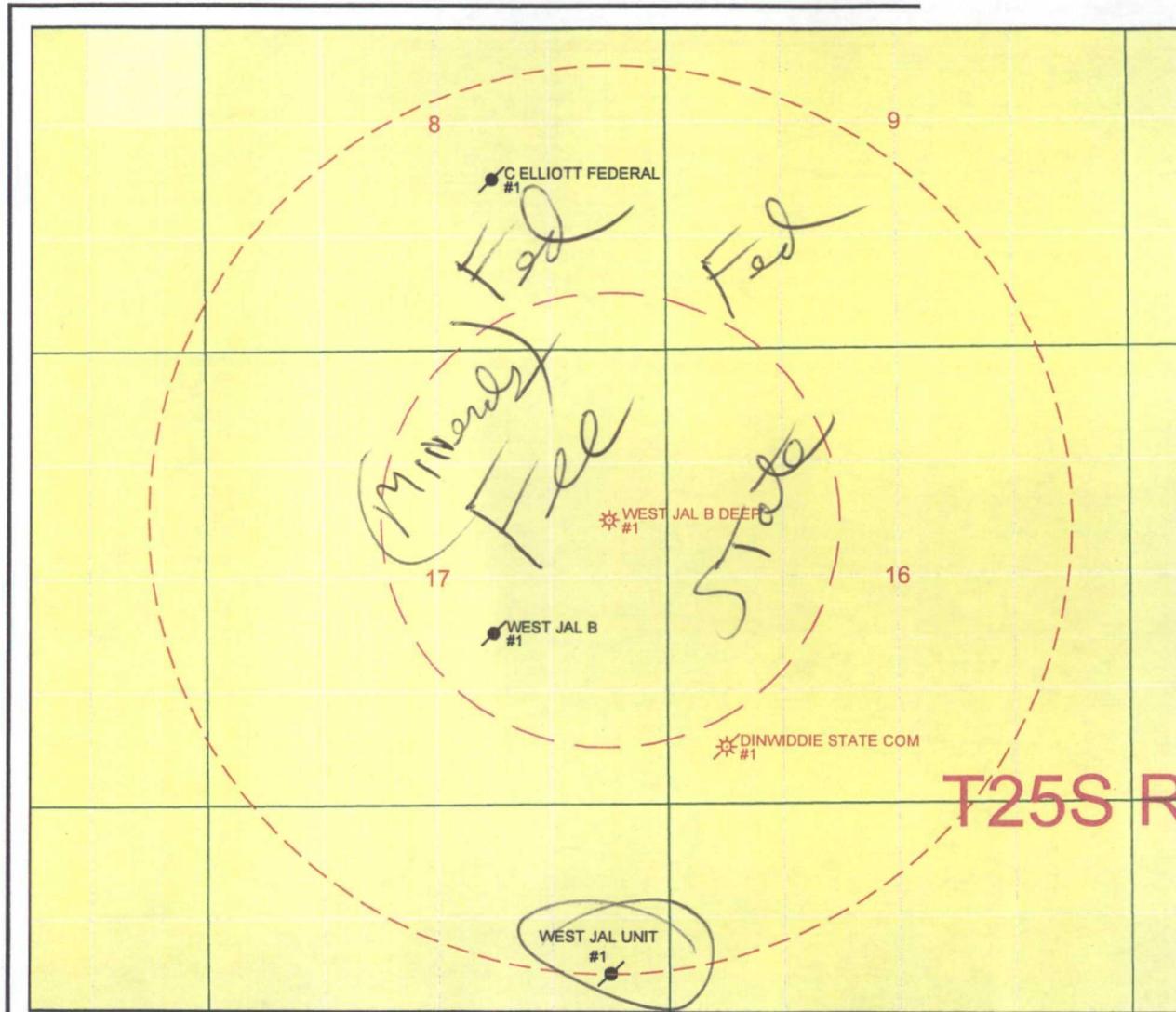
BEP

[www.pwllc.net](http://www.pwllc.net)

*STRAWN  
 AIOKA*

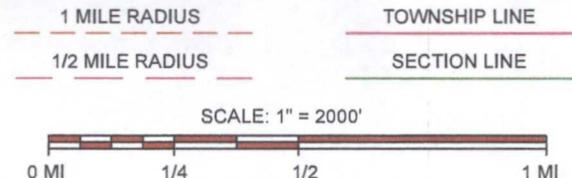


# Exhibit "B"



DECLARED GROUND WATER BASINS

CAPITAN	LEA COUNTY	PENASCO
CARLSBAD	JAL	PORTALES
FORT SUMNER	HONDO	ROSWELL ARTESIAN
	SALT BASIN	



### SURFACE OWNERSHIP

BLM	STATE	PRIVATE	ACTIVE OIL	INACTIVE OIL	WATER WELL
BUREAU OF RECLAIM.	NATIONAL PARK SERV.	FOREST SERVICE	ACTIVE GAS	INACTIVE GAS	
PARK	WILDLIFE REFUGE	TRIBAL LANDS	ACTIVE INJECTION	INACTIVE INJECTION	
			ACTIVE WATER	INACTIVE WATER	
			ACTIVE SWD	INACTIVE SWD	

UNIFIED OPERATING, LLC

WEST JAL B DEEP #1

API: 3002525046

SEC: 17 TWP: 25S

UNIT: H RNG: 36E

1980 FNL 660 FNL

COUNTY: LEA

N 77 W - 5.3 MILES FROM JAL, NM

LAT: 32°07.925' N. LON: 103°16.843' W.

NO WARRANTY IS EXPRESSED OR IMPLIED AS TO THE RELIABILITY AND/OR COMPLETENESS OF THIS MAP

DATE: 04/19/11

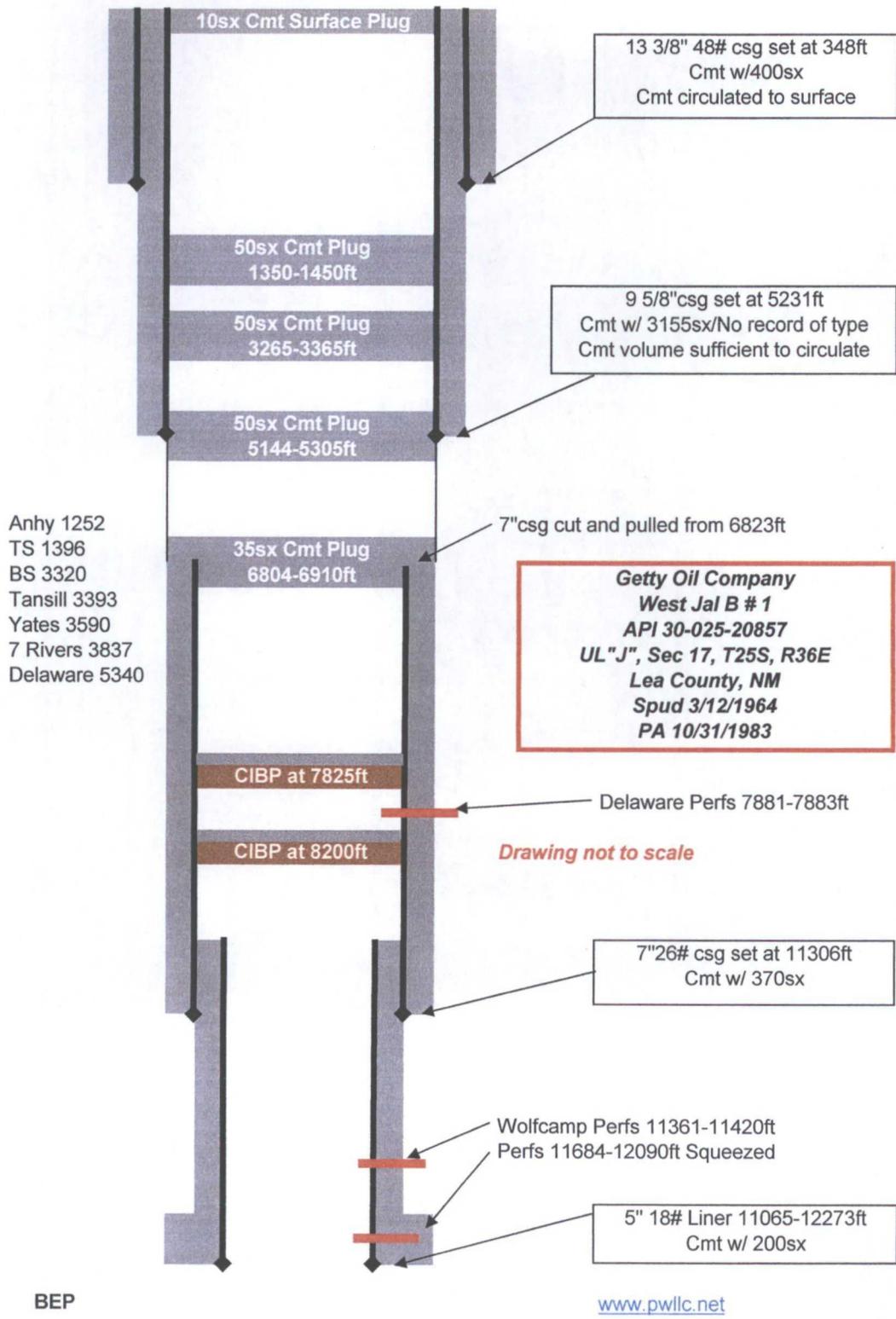
www.WELLPROMAPPING.COM

COPYRIGHT 2003-2011

<b>Unified Operating, LLC</b> <b>West Jal B Deep # 1</b> <b>API # 30-025-25046</b> <b>Wells with in the 0.5 and 1 mile AOR</b>
---

RAD	API	OP	LEASE	#	TYPE	ST	TWN	RNG	SEC	UL	TVD	LT
	3002525046	Unified	WEST JAL B DEEP	1	GAS	A	25S	36E	17	H	18945	P
<b>1</b>	<b>1865</b>	<b>3002520857</b>	<b>SKELLY</b>									
			<b>WEST JAL B</b>	<b>1</b>	<b>OIL</b>	<b>P</b>	<b>25S</b>	<b>36E</b>	<b>17</b>	<b>J</b>	<b>12275</b>	<b>P</b>
2	2947	3002538059	COG	1	GAS	P	25S	36E	16	M	12192	S
3	4177	3002521411	TEXACO	1	OIL	P	25S	36E	8	J	12276	F
			C ELLIOTT FEDERAL									
4	5272	3002521172	TEXACO	1	OIL	P	25S	36E	20	H	9999	F
			WEST JAL UNIT									

***Exhibit "C"***



**Exhibit "C"**

**MCH Petroleum Services**  
West Jal Federal #1  
1,980' FNL and 660' FEL  
Section 20, T-25 S., R-36 E.  
Lea County, New Mexico

AOR well  
DIRECTLY  
SOUTH

In conjunction with form 3160-3 we submit the following ten items of pertinent information in accordance with BLM request.

1. The geological surface is alluvium.
2. The estimated geologic markers are as follows:

Tansill	3,348'
Yates	3,515'
7-Rivers	3,762'
Queen	4,196'
Grbg.	4,430'
San andres	4,876'
Delaware	5,154'
Bone Spring	7,892'
Wolfcamp	10,997'
Strawn	11,510'
Atoka	12,150'
Morrow	12,840'
Miss.	14,585'
Sil./Dev.	15,515'
Fusselman	16,449'
T.D.	17,086'

3. The estimated depths at which water, oil, or gas formations are expected to be encountered are:

water: < 800'  
oil/gas tansill, delaware

4. Proposed casing program: see form 3160-3.
5. Pressure control equipment: see form 3160-3.
6. Mud program: see form 3160-3.
7. Auxiliary equipment: none necessary.
8. Testing, logging, and coring program:  
n/a
9. No abnormal pressures or temperatures are anticipated.
10. Anticipated starting date: ASAP (lease expiration 6/1/93).

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE  
(Other Instructions on  
reverse side)

Form approved,  
Budget Bureau No. 42-R1421.

5. LEASE DESIGNATION AND SERIAL NO.

NM-03429-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

-----

7. UNIT AGREEMENT NAME

-----

8. FARM OR LEASE NAME

West Jal Unit

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Undesignated Fusselman

11. SEC., T., R., M., OR BLM. AND  
SURVEY OR ALFA

Sec. 20-25S-36E

12. COUNTY OR PARISH

Lea

13. STATE

New Mexico

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

Skelly Oil Company

3. ADDRESS OF OPERATOR

P. O. Box 1351, Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

1980' FNL and 660' FEL Sec. 20-25S-36E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3076' GR

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

Set 3-1/2" liner, perf. & treat

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

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

- 1) After reaching TD, ran BHC Sonic Gamma Ray with Caliper 15,392-17,071'; Dual Laterolog 15,392-17,071'; Continuous Dipmeter 15,392-16,276'; Compensated Neutron and Formation Density Log 15,392-17,069'.
- 2) Ran 71 jts. (2114') of 3-1/2" OD 10.2# N-80 Hydril FJ R-2 Condition "A" Liner and set with TIW Type "L" Liner hanger from 14,930-17,084'. Top of liner inside 5-1/2" liner is at 14,967' and bottom at 17,084'. Liner hanger is at 14,936-14,941'; liner hanger packer assembly 14,930-14,936'; packer bore receptacle 14,941-14,967'; two collars painted with radioactive material at 16,182' and 16,271'; guide shoe is at 17,082-17,084'; float collar 17,051-17,052'; float landing collar 17,020-17,021'.
- 3) Cemented liner with 250 sacks of Class "H" cement containing 4/10ths of 1% CFR-2, 1% Halad 9 and 1/4# Flocele per sack. Pumped plug to 17,020'. Reversed out 60 sacks.
- 4) Ran Gamma Ray Collar Log 17,020-15,350'.
- 5) After WOC 48 hours, ran 457 jts. (14,940') of 2-7/8" OD 7.9# N-80 Condition "A" Atlas-Bradford tubing, DSS-HT thread with TIW packer seal assembly stinger and set at 14,967'.
- 6) Tested liner, seal assembly and tubing with 6000# for 30 minutes; held okay.
- 7) Perforated with one .33" hole at: 16,449', 16,475', 16,481', 16,484', 16,508', 16,520', 16,537', 16,550', 16,565', 16,576', 16,591', 16,596', 16,602', and 16,614' (14 shots over 165' interval). Swabbed 1-1/2 hours and well started flowing.

(Continued on Page 2)

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

SIGNED \_\_\_\_\_

TITLE Lead Clerk

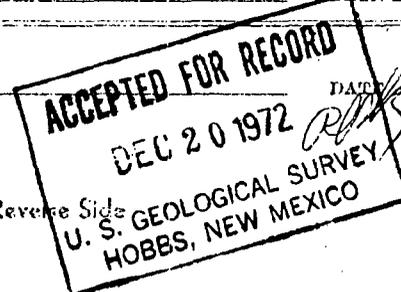
DATE Dec. 19, 1972

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_



\*See Instructions on Reverse Side

- 8) Flowed 24-1/2 hours through 1" choke, making no oil, 45 bbls. load water, 393 bbls. formation water and gas at rate of 266 MCF per day. FTP 200#, CP 2300#.
- 9) Ran flow meter, Gradionometer and Temperature Survey to determine water entry.
- 10) Shut well in seven hours, then ran Base Temperature Log 16,000-17,020'. Water channelling from bottom of well bore to 16,508'.
- 11) Set cement retainer at 16,250' and squeezed perfs. 16,499-16,614' with 150 sacks Class "H" cement containing 4/10ths of 1% CFR-2 and 1% Halad 9. Squeeze failed. WOC 4 hours.
- 12) Resqueezed perfs. 16,449-16,614' with 50 sacks Class "H" cement with 1% Halad 9, 4/10ths of 1% CFR-2 and 1/4# Flocele per sack and 150 sacks Class "H" containing 1% Halad 9 and 4/10ths of 1% CFR-2. Squeeze failed.
- 13) Attempted to pull cement retainer - stuck.
- 14) Milled and pushed cement retainer from 16,250' to 16,490'. Recovered cement retainer.
- 15) Drilled and pushed junk to 16,930'.
- 16) Ran 254 jts. (14,793') of 2-7/8" OD tubing and set packer at 14,810'. Swabbed 9 hours, recovering 60 bbls. load water with good show of gas.
- 17) Treated perfs. 16,449-16,614' with 500 gals. 15% NE acid with 2 ball sealers. Swabbed 7 hours, recovering 1 bbl. load water, flowing gas at rate of 50 MCF per day.
- 18) Treated perfs. 16,449-16,614' with 5000 gals. 15% NE acid and 27 ball sealers.
- 19) Ran Temperature Survey 15,000-16,958'.
- 20) Tested well. Well flowed at rate of 910 MCF per day on 23/64" choke, no oil, FTP 310#. Pulled tubing and packer.
- 21) Reran 457 jts. (14,940') of 2-7/8" OD 7.9# DSS-HT Atlas-Bradford Condition "A" tubing and set at 14,967'.
- 22) Circulated hole with corrosion inhibitor water. Released rig 11-8-72. Flowed and tested well.
- 23) On Dec. 11, 1972, treated perfs 16,449-16,614' with 12,500 gals. of 1% KCL water with 62# friction reducer, 25 gals. Adofoam and 25 gals. scale inhibitor, 20,000 gals. 20% retarded acid with 100# friction reducer, 40 gals. Adofoam, 160 gals. acid inhibitor, 1000# fluid loss agent and 40 gals. scale inhibitor and 7 ball sealers. All fluid contained 400 S.C.F Nitrogen per barrel.
- 24) Testing well.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLJ  
(Other instructions  
verse side)

COPY TO O. C. G.

E\*  
re-

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

**NM-03429-A**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL  GAS WELL  OTHER

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR

**Skelly Oil Company**

8. FARM OR LEASE NAME

**West Jal Unit**

3. ADDRESS OF OPERATOR

**P. O. Box 1351, Midland, Texas 79701**

9. WELL NO.

**1**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

10. FIELD AND POOL, OR WILDCAT

**Undesignated Pusselman**

**1980' FNL and 660' FEL Sec. 20-25S-36E**

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

**Sec. 20-25S-36E**

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

**3076' GR**

12. COUNTY OR PARISH

**Lea**

13. STATE

**New Mexico**

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) **Clean out & deepen to 17,086'**   
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

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

- 1) Rigged up rotary tools 7-28-72. Pulled tubing and packer.
- 2) Set cement retainer at 11,390' and squeezed Strawn 7" OD casing perfs. 11,510-11,741' with 100 sacks Class "H" cement containing 1X CFR-2 and 3# sand per sack. Squeeze failed. WOC 4 hours.
- 3) Resqueezed perfs. 11,510-11,741' with 100 sacks Class "H" cement containing 5/10X of 1X CFR-2 and 3# sand per sack. Squeezed at 6500#. Reversed out 15 sacks.
- 4) After WOC 12 hours, drilled cement retainer at 11,390' and cement 11,390-11,755' with 6-1/2" bit.
- 5) Tested squeeze job to 3000#; held okay.
- 6) Drilled cement 11,790-11,832' and tested old squeeze job on perfs. 11,736-11,815' to 3000#; held okay.
- 7) Drilled cement 11,832-11,844'; pushed plus-plug to 11,976'. Drilled plug. Tagged junk at 12,002' and pushed to 12,312'.
- 8) Cleaned to top of 5-1/2" OD liner at 12,032', set cement retainer at 11,820' and found casing perfs. 11,849-11,894' open.
- 9) Squeezed 5-1/2" casing perfs. 11,849-11,894' with 50 sacks Class "H" with 1X CFR-2 and 100 sacks Class "H" with 1X CFR-2 and 3# sand per sack.
- 10) Dumped 20 sacks cement on retainer at 11,820', plugging back to 11,717'. Reversed out 90 sacks cement. WOC 12 hours.

(continued on page 2)

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

SIGNED \_\_\_\_\_

TITLE **Lead Clerk**

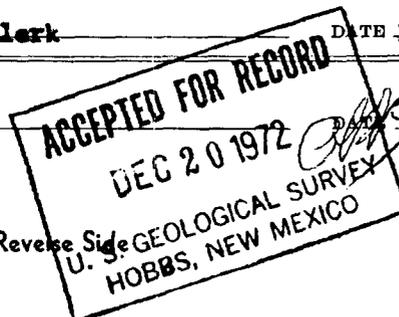
DATE **Dec. 18, 1972**

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:



\*See Instructions on Reverse Side

- 11) Drilled cement 11,708-11,820'; cement retainer 11,820-11,822' and cement 11,822-11,861'. Cleaned out to top of liner at 12,032'.
- 12) Tested squeeze job to 2500#; held okay.
- 13) Drilled junk 12,312-12,748.5'; cement 12,748.5-12,760'; junk to 12,762'; cement 12,762-13,030'.
- 14) Tested old squeezed perfs. 13,005-13,030' to 2500#; held okay.
- 15) Milled and drilled cast iron bridge plug at 13,174' and pushed to 13,395'.
- 16) Tested 5-1/2" OD liner perfs. 13,247-13,360' to 2900#; could not pump into perfs.
- 17) Milled cast iron bridge plug 13,396-13,400'.
- 18) Tested perfs. 13,462-13,472' to 2700#; could not pump into perfs.
- 19) Milled and drilled out cement retainer 13,517-13,524'; cement 13,524-13,532'; cement 15,050-15,353'.
- 20) Milled and drilled cast iron bridge plug 15,340-15,858'. Washed over fish 15,858'; recovered fish. Cleaned out to old TD of 15,958'.
- 21) Drilled 4-3/4" new hole 15,958-16,498'.
- 22) Ran Drill Stem Test No. 1 (Silurian) 15,400-16,498'.
- 23) Drilled 4-3/4" hole 16,498' to total depth of 17,086' at 11 p.m. October 4, 1972.

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sucks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

DEVONIAN in OFFSET well

**37. SUMMARY OF POROUS ZONES:**

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Lime	15,958'	15,995'	DRILL STEM TEST NO. 1: 15,400-16,498' (Silurian) - 5/8" BHC, 1/2" THC. Opened 10 minutes on preflow, had strong blow immediately and throughout test. Shut in 1 hour. Opened 2 hours on final flow; gas to surface in 66 minutes, went from TSTM to 150 MCFPD rate and at end of test decreased to 100 MCFPD. Shut in 4 hours. Recovered 8400' gas-cut drilling mud. Pressures: IH 8003#; FH not reported, 2-minute IEP 2502#; 10-minute ISIP 2502- 7061#; 1-hour FFP 2925-3120#; 2-hour FSIP 3120-7061#. BHT 202°.
Lime & Shale	15,995'	16,023'	
Lime, Shale & Chert	16,023'	16,157'	
Lime	16,157'	16,171'	
Lime & Chert	16,171'	16,183'	
Lime & Shale	16,183'	16,291'	
Lime, Shale & Chert	16,291'	16,355'	
Lime & Shale	16,355'	16,498'	
Shale & Dolomite	16,498'	16,515'	
Lime & Dolomite	16,515'	16,544'	
Dolomite, Lime & Chert	16,544'	16,624'	
Dolomite & Lime	16,624'	16,707'	
Lime	16,707'	16,787'	
Lime & Dolomite	16,787'	17,086'	

**38. GEOLOGIC MARKERS**

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Siluro-Devonian	15,503'	
Fusselman	16,425'	
Montoya	17,053'	

Unified Operating, L.L.C  
Possible produced water disposed in West Jal B Deep #  
1

**Water Sample Analysis**

Pool	Location			Chlorides
	Section	Township	Range	
North Justis Montoya	2	25S	37E	45440
North Justis McKee	2	25S	37E	58220
North Justis Fusselman	2	25S	37E	68533
North Justis Ellenburger	2	25S	37E	34151
Fowler Blinebry	22	24S	37E	118085
Skaggs Grayburg	18	20S	38E	84845
Warren McKee	18	20S	38E	85910
Warren Abo	19	20S	39E	91600
DK Drinkard	30	20S	39E	106855
Littman San Andres	8	21S	38E	38695
East Hobbs grayburg	29	18S	39E	6461
Halfway Yates	18	20S	32E	14768
Arkansas Junction San Andres	12	18S	36E	7171
Pearl Queen	28	19S	35E	114310
Midway Abo	17	17S	37E	36494
Lovinton Abo	31	16S	37E	22933
Lovington San Andres	3	16S	37E	4899
Lovington Paddock	31	16S	37E	93720
Mesa Queen	17	16S	32E	172530
Kemnitz Wolfcamp	27	16S	34E	49345
Hume Queen	9	16S	34E	124960
Anderson Ranch Wolfcamp	2	16S	32E	11040
Anderson Ranch Devonian	11	16S	32E	25702
Anderson Ranch Unit	11	16S	32E	23788
Caudill Devonian	9	15S	36E	20874
Townsend Wolfcamp	6	16S	36E	38695
Dean Permo Penn	5	16S	37E	44730
Dean Devonian	35	15S	36E	19525
South Denton Wolfcamp	26	15S	37E	54315
South Denton Devonian	36	15S	37E	34080
Medicine Rock Devonian	15	15S	38E	39760
Little Lucky Lake Devonian	29	15S	30E	23288
Wantz Abo	26	21S	37E	132770
Crosby Devonian	18	25S	37E	58220
Scarborough Yates Seven Rivers	7	26S	37E	3443(Reef)
Teague Simpson	34	23S	37E	114665
Teague Ellenburger	34	23S	37E	120345
Rhodes Yates 7 Rivers	27	28S	37E	144485
House SA	11	20S	38E	93365
House Drinkard	12	20S	38E	49700
South Leonard Queen	24	26S	37E	115375
Elliot Abo	2	21S	38E	55380
Scharb Bone Springs	5	19S	35E	30601
EK Queen	13	18S	34E	41890
East EK Queen	22	18S	34E	170630
Maljamar Grayburg SA	22	17S	32E	46079
Maljamar Paddock	27	17S	32E	115375
Maljamar Devonian	22	17S	32E	25418

Unified Operating, L.L.C  
Yates/ 7 Rivers water analysis

Water Sample Analysis

Pool	Location			Chlorides
	Section	Township	Range	
North Justis Montoya	2	25S	37E	45440
North Justis McKee	2	25S	37E	58220
North Justis Fusselman	2	25S	37E	88533
North Justis Ellenburger	2	25S	37E	34151
Fowler Blinbry	22	24S	37E	116085
Skaggs Grayburg	18	20S	38E	84845
Warren McKee	18	20S	38E	85910
Warren Abo	19	20S	39E	91600
DK Drinkard	30	20S	39E	106855
Littman San Andres	8	21S	38E	38895
East Hobbs grayburg	29	18S	39E	6461
Halfway Yates	18	20S	32E	14768
Arkansas Junction San Andres	12	18S	38E	7171
Pearl Queen	28	19S	35E	114310
Midway Abo	17	17S	37E	38494
Lovinton Abo	31	16S	37E	22833
Lovington San Andres	3	18S	37E	4899
Lovington Paddock	31	16S	37E	93720
Mesa Queen	17	16S	32E	172530
Kemnitz Wolfcamp	27	16S	34E	49345
Hume Queen	9	16S	34E	124980
Anderson Ranch Wolfcamp	2	16S	32E	11040
Anderson Ranch Devonian	11	16S	32E	25702
Anderson Ranch Unit	11	16S	32E	23788
Caudill Devonian	9	15S	36E	20874
Townsend Wolfcamp	8	16S	36E	38895
Dean Pemo Penn	5	16S	37E	44730
Dean Devonian	35	15S	36E	19525
South Denton Wolfcamp	28	15S	37E	54315
South Denton Devonian	36	15S	37E	34080
Medicine Rock Devonian	15	15S	38E	39760
Little Lucky Lake Devonian	29	15S	30E	23288
Wantz Abo	28	21S	37E	132770
Crosby Devonian	18	25S	37E	58220
Scarborough Yates Seven Rivers	7	26S	37E	3443(Reef)
Teague Simpson	34	23S	37E	114685
Teague Ellenburger	34	23S	37E	120345
Rhodes Yates 7 Rivers	27	26S	37E	144485
House SA	11	20S	38E	93365
House Drinkard	12	20S	38E	49700
South Leonard Queen	24	26S	37E	115375
Elliot Abo	2	21S	38E	55380
Scharb Bone Springs	5	19S	35E	30801
EK Queen	13	18S	34E	41890
East EK Queen	22	18S	34E	179630
Maljamar Grayburg SA	22	17S	32E	46079
Maljamar Paddock	27	17S	32E	115375
Maljamar Devonian	22	17S	32E	25418

# NM WAIDS



## Water Samples for Sect 08 Township 25 South Range 36 East

**Instructions:**

The number represents the number of water samples of certain well. Click the number if you want to download the data.

1 records are available.

	# of samples	S	T	R	Formation	Date	Chlorides (mg/L)	Location (qtr/qtr)
<input type="checkbox"/>	1 sample	08	25S	36E	SANTA ROSA	10/20/1965	70	25S.36E.08.33334

SELECT/DESELECT ALL



**Exhibit "F"**

# NM WAIDS



General Information About: Sample 2680			
Section/ Township/Range	08 / 25 S / 36 E	Lat/Long	32.1447 / -103.2868
Elevation	3151	Depth	650
Date Collected	10/20/1965	Chlorides	70
Collector / Point of Collection	SEO /	Use	Irrigation Water
Formation	SANTA ROSA	TDS	0



**Exhibit "F"**

## Legal Notice

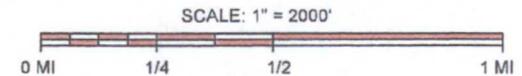
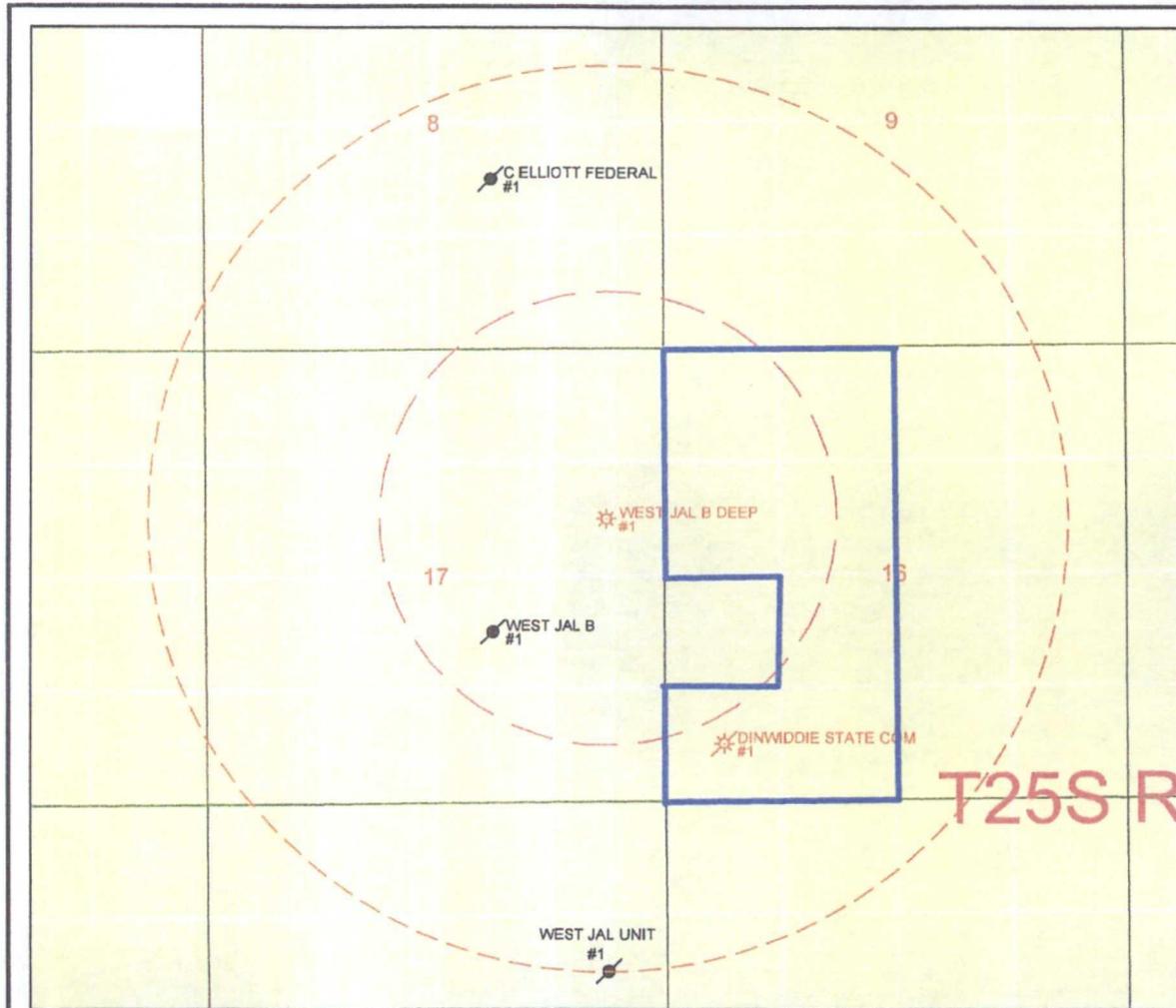
Unified Operating, L.L.C., PO Box 2931, Littleton, Colorado 80161 has filed NMOCD form C108 seeking administrative approval to convert the West Jal B Deep #001, API # 30-025-25046 located 1980 FNL x 660 FEL, Unit letter "H", Section 17 T25S, R36E, NMPM, Lea County, New Mexico from a Wolfcamp oil well to a Fusselman commercial salt water disposal well. Disposal fluid would come from producing wells in the area. The disposal interval would be the Fusselman formation through perforations from 16411 feet to 16670 feet. Anticipated disposal rate is 5000-10000 barrels of water per day. Anticipated disposal pressure is expected to be 0 psig with a maximum disposal pressure of 3282psig. Well is located 5.3 miles west of Jal, New Mexico

All interested parties opposing the aforementioned must file objections with the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505 within 15 days. Additional information can be obtained by contacting Victoria Hirschfeld 720-328-8366.

***Exhibit "G"***

N2/ W2  
 Section 16, T25S, R36E  
 Minerals  
 State of New Mexico  
 PO Box 1148  
 Santa Fe, New Mexico 87504-1148

Leasehold  
 Chevron USA  
 1400 Smith Road  
 Houston, Texas 77002



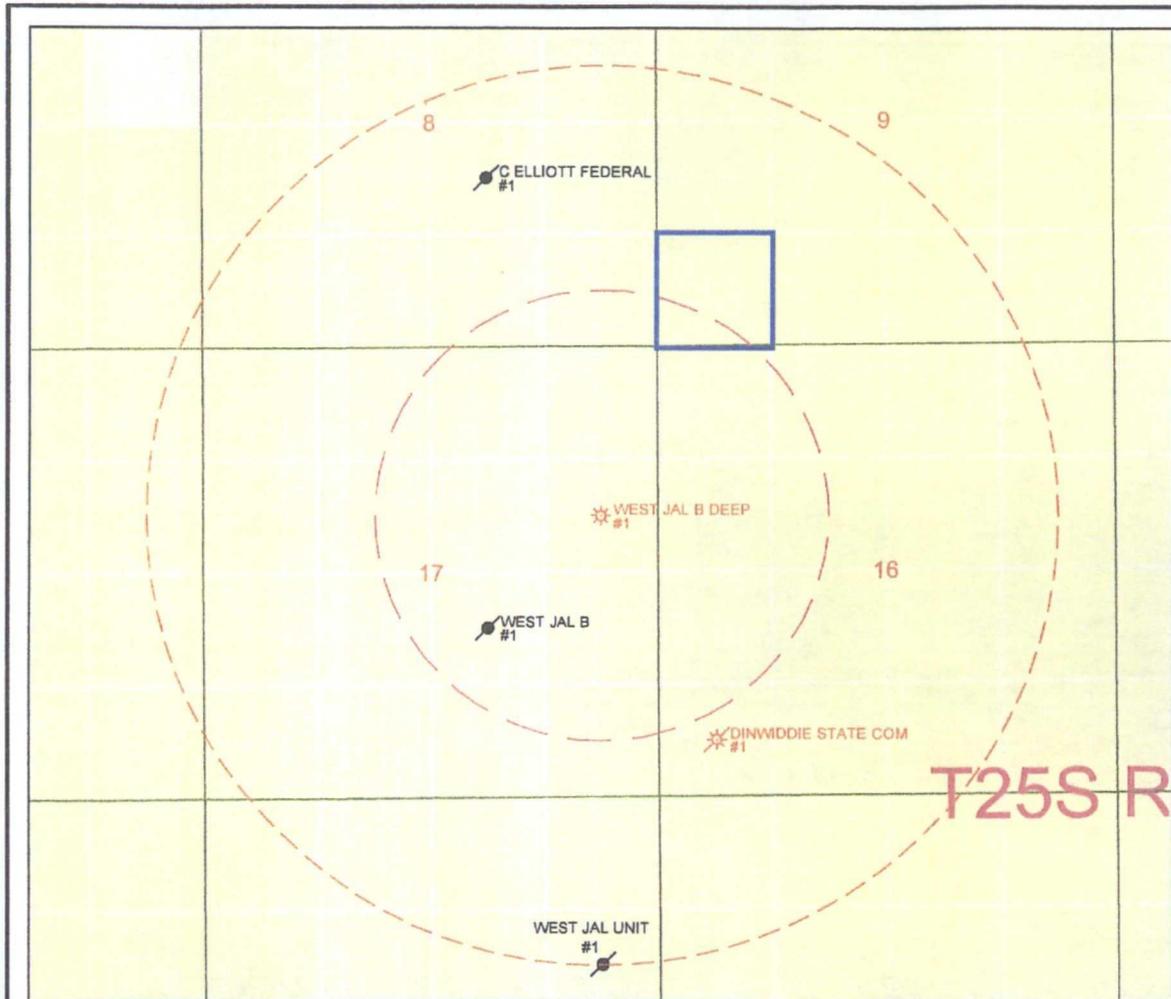
UNIFIED OPERATING, LLC	
WEST JAL B DEEP #1	
API: 3002525046	TWP: 25S
SEC: 17	RNG: 36E
UNIT: H	1980 FNL 660 FEL
COUNTY: LEA	
N 77 W - 5.3 MILES FROM JAL, NM	
LAT: 32°07.925' N.	LON: 103°16.843' W.
NO WARRANTY IS EXPRESSED OR IMPLIED AS TO THE RELIABILITY AND/OR COMPLETENESS OF THIS MAP	
DATE: 04/19/11	
www.WELLPROMAPPING.COM	
COPYRIGHT 2003-2011	

**SURFACE OWNERSHIP**

- |                    |                     |                |
|--------------------|---------------------|----------------|
| BLM                | STATE               | PRIVATE        |
| BUREAU OF RECLAIM. | NATIONAL PARK SERV. | FOREST SERVICE |
| PARK               | WILDLIFE REFUGE     | TRIBAL LANDS   |

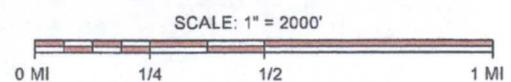
- |                  |                    |            |
|------------------|--------------------|------------|
| ACTIVE OIL       | INACTIVE OIL       | WATER WELL |
| ACTIVE GAS       | INACTIVE GAS       |            |
| ACTIVE INJECTION | INACTIVE INJECTION |            |
| ACTIVE WATER     | INACTIVE WATER     |            |
| ACTIVE SWD       | INACTIVE SWD       |            |

**Exhibit "G"**



SW/SW  
 Section 9, T25S, R36E  
 Minerals  
 USA  
 Bureau of Land Management  
 602 E Green Street  
 Carlsbad, New Mexico 88220

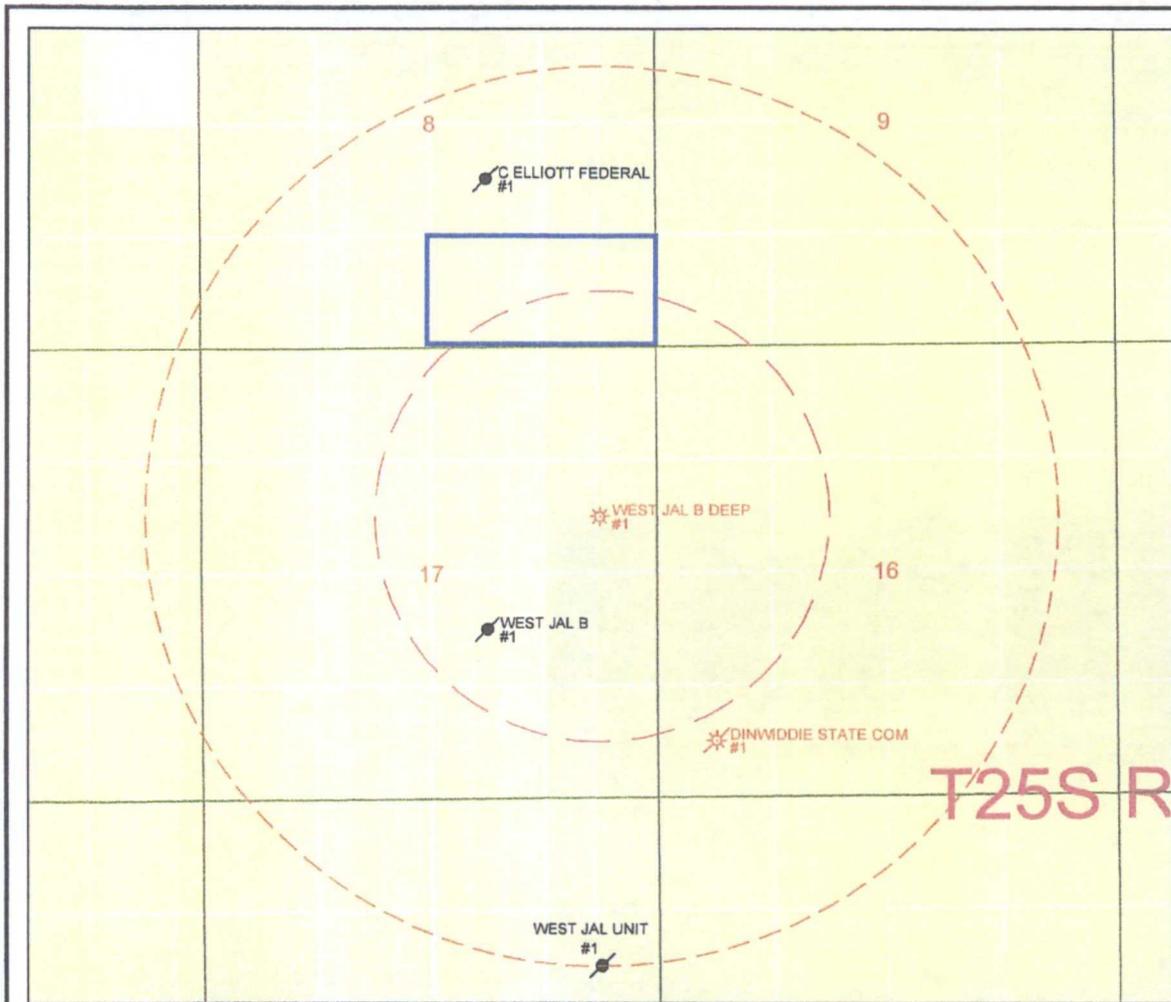
Leasehold  
 "Open"



<b>UNIFIED OPERATING, LLC</b>	
WEST JAL B DEEP #1	
API: 3002525046	TWP: 25S
SEC: 17	RNG: 36E
UNIT: H	1980 FNL 660 FEL
COUNTY: LEA	
N 77 W - 5.3 MILES FROM JAL, NM	
LAT: 32°07.925' N.	LON: 103°16.843' W.
NO WARRANTY IS EXPRESSED OR IMPLIED AS TO THE RELIABILITY AND/OR COMPLETENESS OF THIS MAP	
DATE: 04/19/11	
www.WELLPROMAPPING.COM COPYRIGHT 2003-2011	

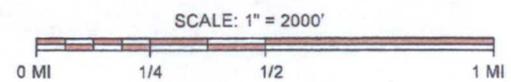
- |                          |                     |                |                  |                    |            |
|--------------------------|---------------------|----------------|------------------|--------------------|------------|
| <b>SURFACE OWNERSHIP</b> |                     |                | ACTIVE OIL       | INACTIVE OIL       | WATER WELL |
| BLM                      | STATE               | PRIVATE        | ACTIVE GAS       | INACTIVE GAS       |            |
| BUREAU OF RECLAIM.       | NATIONAL PARK SERV. | FOREST SERVICE | ACTIVE INJECTION | INACTIVE INJECTION |            |
| PARK                     | WILDLIFE REFUGE     | TRIBAL LANDS   | ACTIVE WATER     | INACTIVE WATER     |            |
|                          |                     |                | ACTIVE SWD       | INACTIVE SWD       |            |

**Exhibit "G"**



S/2,SE4,  
 Section 8, T25S, R36E  
 Minerals  
 USA  
 Bureau of Land Management  
 602 E. Green Street  
 Carlsbad, New Mexico 88220

Leasehold  
 Yates Petroleum Corporation  
 105 S. 4th Ave  
 Artesia, New Mexico 88210



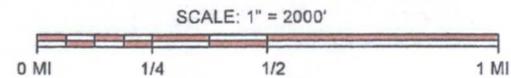
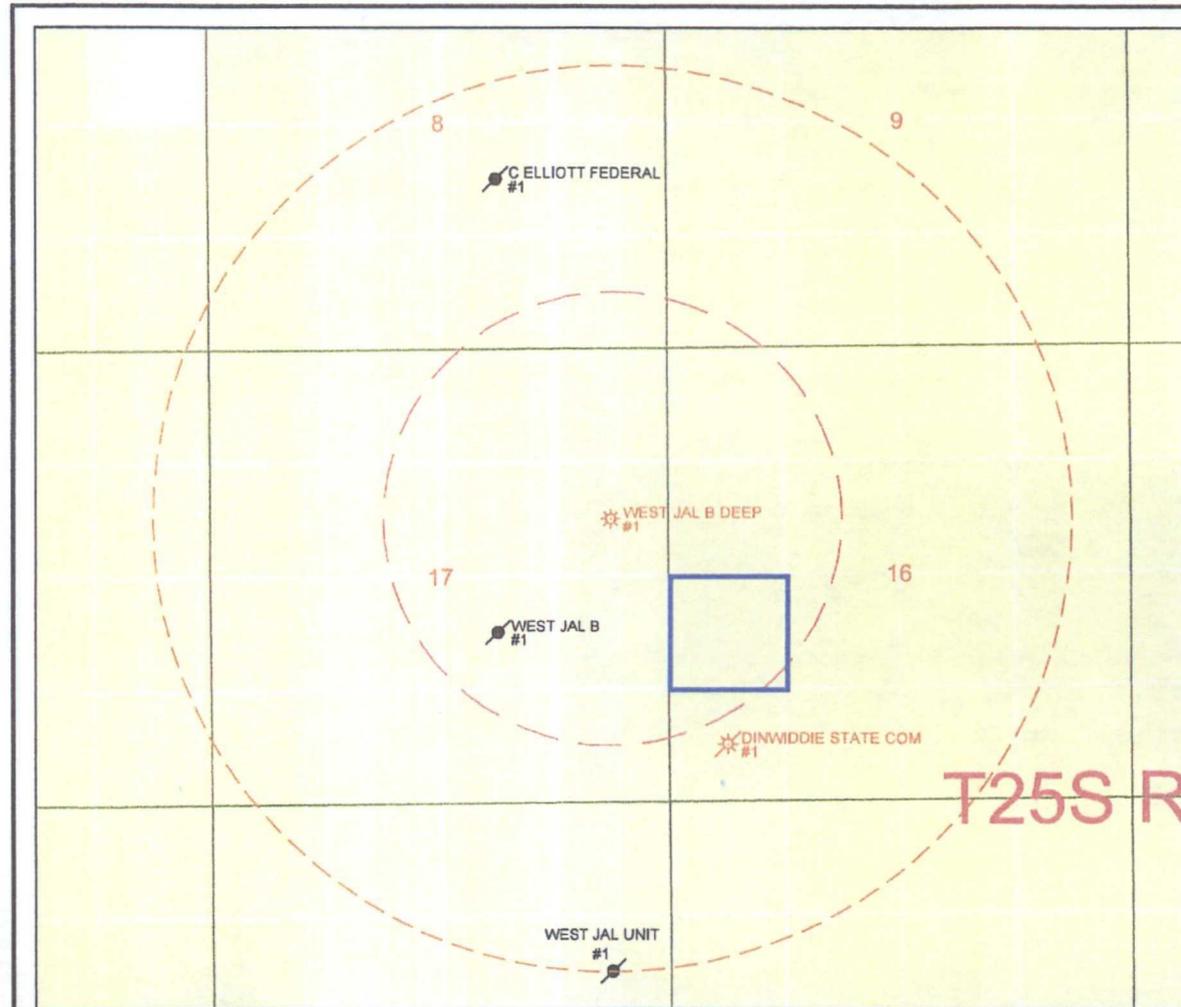
<b>UNIFIED OPERATING, LLC</b>	
WEST JAL B DEEP #1	
API: 3002525046	TWP: 25S
SEC: 17	RNG: 36E
UNIT: H	1980 FNL 660 FEL
COUNTY: LEA	
N 77 W - 5.3 MILES FROM JAL, NM	
LAT: 32°07.925' N.	LON: 103°16.843' W.
NO WARRANTY IS EXPRESSED OR IMPLIED AS TO THE RELIABILITY AND/OR COMPLETENESS OF THIS MAP	
www.WELLPROMAPPING.COM	DATE: 04/19/11
COPYRIGHT 2003-2011	

- |                          |                     |                |                  |                    |            |
|--------------------------|---------------------|----------------|------------------|--------------------|------------|
| <b>SURFACE OWNERSHIP</b> |                     |                |                  |                    |            |
| BLM                      | STATE               | PRIVATE        | ACTIVE OIL       | INACTIVE OIL       | WATER WELL |
| BUREAU OF RECLAIM.       | NATIONAL PARK SERV. | FOREST SERVICE | ACTIVE GAS       | INACTIVE GAS       |            |
| PARK                     | WILDLIFE REFUGE     | TRIBAL LANDS   | ACTIVE INJECTION | INACTIVE INJECTION |            |
|                          |                     |                | ACTIVE WATER     | INACTIVE WATER     |            |
|                          |                     |                | ACTIVE SWD       | INACTIVE SWD       |            |

**Exhibit "G"**

NW/SW  
 Section 16, T25S, R36E  
 Minerals  
 State of New Mexico  
 PO Box 1148  
 Santa Fe, New Mexico 87504-1148

Leasehold  
 Yates Petroleum Corporation  
 105 S. 4th Ave  
 Artesia, New Mexico 88210



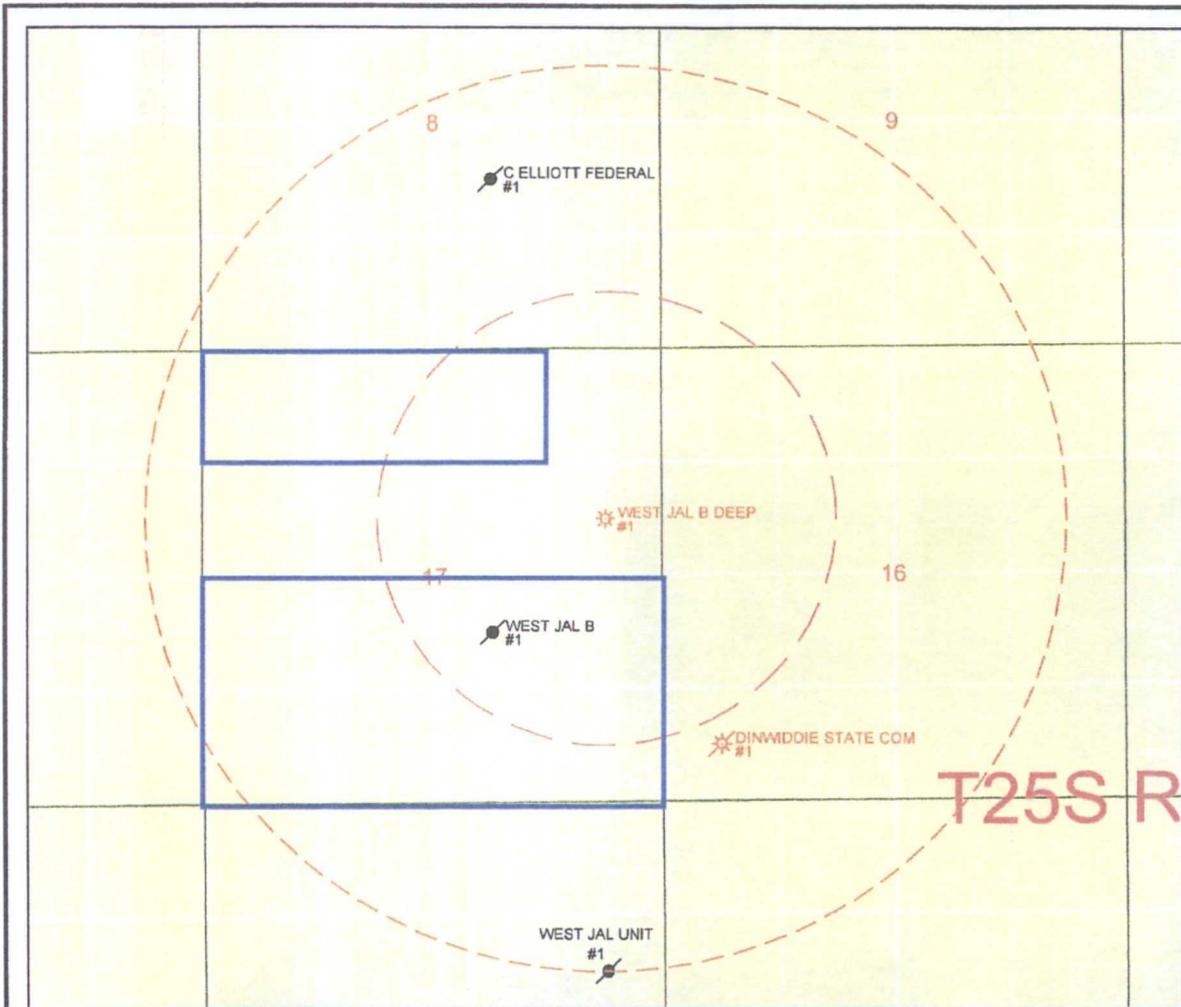
UNIFIED OPERATING, LLC	
WEST JAL B DEEP #1	
API: 3002525046	
SEC: 17	TWP: 25S
UNIT: H	RNG: 36E
1980 FNL	660 FEL
COUNTY: LEA	
N 77 W - 5.3 MILES FROM JAL, NM	
LAT: 32°07.925' N.	LON: 103°16.843' W.
NO WARRANTY IS EXPRESSED OR IMPLIED AS TO THE RELIABILITY AND/OR COMPLETENESS OF THIS MAP.	
DATE: 04/19/11	
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**SURFACE OWNERSHIP**

- |                    |                     |                |
|--------------------|---------------------|----------------|
| BLM                | STATE               | PRIVATE        |
| BUREAU OF RECLAIM. | NATIONAL PARK SERV. | FOREST SERVICE |
| PARK               | WILDLIFE REFUGE     | TRIBAL LANDS   |

- |                  |                    |            |
|------------------|--------------------|------------|
| ACTIVE OIL       | INACTIVE OIL       | WATER WELL |
| ACTIVE GAS       | INACTIVE GAS       |            |
| ACTIVE INJECTION | INACTIVE INJECTION |            |
| ACTIVE WATER     | INACTIVE WATER     |            |
| ACTIVE SWD       | INACTIVE SWD       |            |

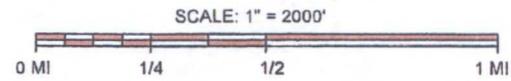
**Exhibit "G"**



Section 17, T25S, R36E  
 Minerals  
 Dinwiddie Cattle Company  
 PO Box 374  
 Roswell, New Mexico 88202

Devon Energy Corporation  
 20 North Broadway  
 Oklahoma City, OK 73102-8260

Leasehold  
 Yates Petroleum Corporation  
 105 S. 4th Ave  
 Artesia, New Mexico 88210



<b>UNIFIED OPERATING, LLC</b>	
WEST JAL B DEEP #1	
API: 3002525046	
SEC: 17	TWP: 25S
UNIT: H	RNG: 36E
1980 FNL	660 FEL
COUNTY: LEA	
N 77 W - 5.3 MILES FROM JAL, NM	
LAT: 32°07.925' N.	LON: 103°16.843' W.
<small>NO WARRANTY IS EXPRESSED OR IMPLIED AS TO THE RELIABILITY AND/OR COMPLETENESS OF THIS MAP</small>	
DATE: 04/19/11	
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- |                          |                     |                |                  |                    |            |
|--------------------------|---------------------|----------------|------------------|--------------------|------------|
| <b>SURFACE OWNERSHIP</b> |                     |                |                  |                    |            |
| BLM                      | STATE               | PRIVATE        | ACTIVE OIL       | INACTIVE OIL       | WATER WELL |
| BUREAU OF RECLAIM.       | NATIONAL PARK SERV. | FOREST SERVICE | ACTIVE GAS       | INACTIVE GAS       |            |
| PARK                     | WILDLIFE REFUGE     | TRIBAL LANDS   | ACTIVE INJECTION | INACTIVE INJECTION |            |
|                          |                     |                | ACTIVE WATER     | INACTIVE WATER     |            |
|                          |                     |                | ACTIVE SWD       | INACTIVE SWD       |            |

**Exhibit "G"**

Section 17, T25S, R36E  
 Minerals owned by various parties  
 See owner list

Leasehold  
 Open

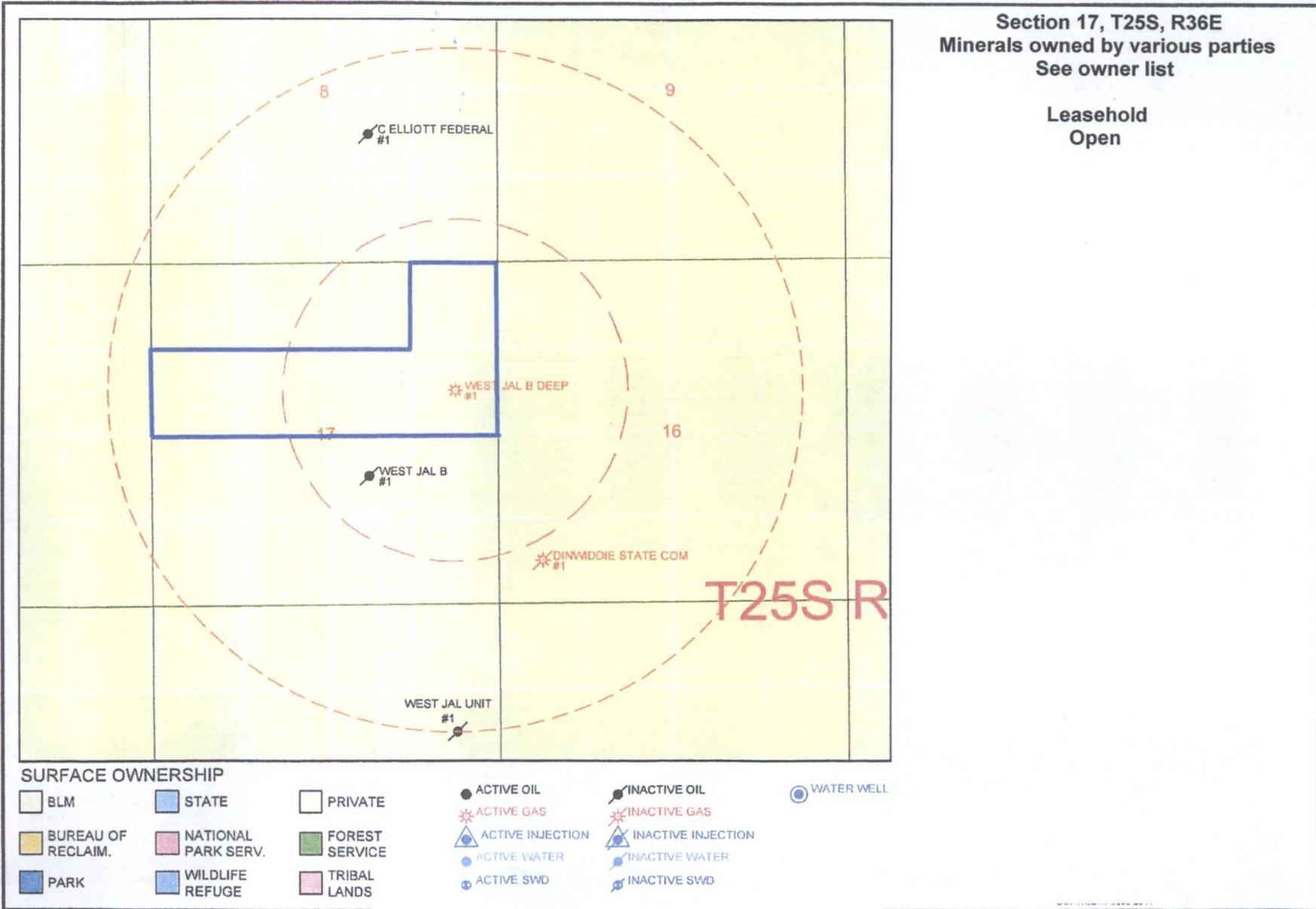


Exhibit "G"

**PUEBLO WEST CONSULTING SERVICE**

**January 2, 12**

RECEIVED OCD  
2012 JAN -5 P 12: 53

**WILL,**

**PLEASE FIND ENCLOSED AFFIDAVIT OF PUBLICATION OF THE LEGAL NOTICE  
FOR THE UNIFIED OPERATING WELL THE WEST JAL B DEEP #1 .  
(API#30-025-25046) SWD APPLICATION.**

**THANKS**



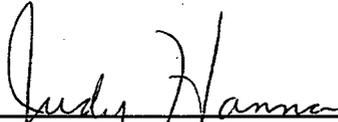
**BILLY E PRICARD**

# Affidavit of Publication

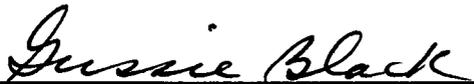
State of New Mexico,  
County of Lea.

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

of 1 issue(s).  
Beginning with the issue dated  
December 16, 2011  
and ending with the issue dated  
December 16, 2011

  
PUBLISHER

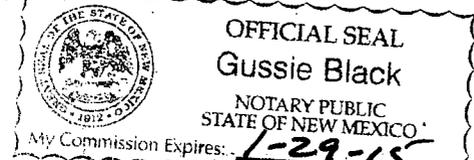
Sworn and subscribed to before me  
this 20th day of  
December, 2011



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 Notice December 16, 2011

Unified Operating, L.L.C.; PO Box 2931, Littleton, Colorado 80161 has filed NMOCD form C108 seeking administrative approval to convert the West Jal B Deep #001, API # 30-025-25046 located 1980 FNL x 660 FEL, Unit letter "H", Section 17 T25S, R36E, NMPM, Lea County, New Mexico from a Wolfcamp oil well to a Fusselman commercial salt water disposal well. Disposal fluid would come from producing wells in the area. The disposal interval would be the Fusselman formation through perforations from 16411 feet to 16670 feet. Anticipated disposal rate is 5000-10000 barrels of water per day. Anticipated disposal pressure is expected to be 0 psig with a maximum disposal pressure of 3282 psig. Well is located 5.3 miles west of Jal, New Mexico

All interested parties opposing the aforementioned must file objections with the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505 within 15 days. Additional information can be obtained by contacting Victoria Hirschfeld 720-328-8366.  
#27046

02107812

00084676

BILLY E. PRICHARD  
PUEBLO WEST LLC  
OILFIELD CONSULTING SERVICE  
125 GREENHOUSE VILLAGE  
DECATUR, TX 76234

S2/N2 and NE/NE  
Section 17, T25S, R36E, Lea County, New Mexico

Owner List  
Section 17:

*Surface Owner*

Dinwiddie Cattle Co.  
P. O. Box 374  
Roswell, NM 88202

Mineral Owners

NE/NE & S/2 of N/2

Sun Trust Bank, Trustee U/W/O Josephine Lundy  
1445 New York Ave, NW  
CDC-5602, Second Floor  
Washington, DC 20005

Scott Douglas Rule  
1365 Tapadero Trail  
Reno, NV 89521

Betty Amonte  
4812 St. Andrews Ave.  
Leesburg, FL 34748

Steven R. Fine  
28707 Ivory Creek Lane  
Katy, TX 77458

W. Winfield Smith, Jr.  
4614 Parmele Rd.  
Castlehaven, NC 28429

Carol Nadine Dittmer  
1365 Tapadero Trail  
Feno, NV 89521

Ann E. Wooldridge  
P. O. Box 1183  
Alabany, TX 76430

Karen Maedelle Orr  
5304 Links Dr.  
Waco, TX 76708

Richard L. Cromartie  
155 Ocean Lane Drive, Apt. 509  
Key Biscayne, FL 33149

Gregory Limer Rule  
2618 American Dr.  
Grand Junction, CO 81504

Richard A. Whittington  
730 E. Strawbridge Ave., Ste. 205  
Melborne, FL 32901

**Exhibit "G"**

---

Mary Ann Prall  
904 S. Brie Ave.  
Tulsa, OK 74112

Ellis Rudy Inc.  
22499 Imperial Valley Dr.  
Houston, TX 77073

Cyril Verret  
2400 Dietz  
Lake Charles, LA 70601

James Michael Dudley  
7 Whitmoor Ct.  
St. Charles, MO 63304

Richard John Shaugnessy  
2611 S. Trenton Ave.  
Tulsa, OK 74114

O. W. Sirvin, Estate  
Arvest Trust Company, Trustee  
C/o Connie Jenkins  
200 E. Main  
Norman, OK 73069

Mid-Brook Royalty Company  
P. O. Box 700180  
Tulsa, OK 74170

The Ida Bell Hunt Trust  
Anna Beth McIntyre, Trustee  
1503 Ridgeway Dr.  
Temple, TX 76502

John Warren Erickson  
711 S. Quebec  
Tulsa, OK 74112

Mary Elinor (Marelle) Littlefield  
3645 S. Atlanta Pl.  
Tulsa, OK 74133

Lilliam June Klawitter  
3344 Horstman Rd.  
Berger, MO 63014

The Pitts Family Royalty Co.  
C/o Bank of Oklahoma, N.A.  
P. O. Box 3499  
Tulsa, OK 74101

Phillip Julian Erickson  
303 Northern Blvd.  
St. James, NY

***Exhibit "G"***

Clyde C. Smith  
355 Chelsea Circle, NE  
Atlanta, GA 30307

Brenda Bowers Shafer  
P. O. Box 220355  
El Paso, Tx 79913

T. Wooten Jr.  
938 Chester Circle Dr.  
Fayetteville, NC 28303

Judy Ann Gergen  
2820 N. Meridian St.  
Indianapolis, IN 46208

Archie & Clarabelle Smith Rev. Trust  
C/o Archie D. Smith, Jr., Trustee  
713 Vista Verde Way  
Bakersfield, CA 93309

Velma Dittmer  
3525 W. Ottawa St.  
Cranfordsville, IN 47933

Edward A. Bowers  
4405 Bradley Lane  
Arlington, TX 76017

St. Joseph Residence, Inc.  
P. O. Box 6429  
Tulsa, OK 74148

Mary McSparren Sutton  
3912 S. Trenton Ave.  
Tulsa, OK 74105

James H. Bearly  
4205 Old Farm Rd.  
Oklahoma City, OK 73120

David A. Lynch  
P. O. Box 1904  
Lovington, NM 88260

Leasehold:      OPEN

***Exhibit "G"***

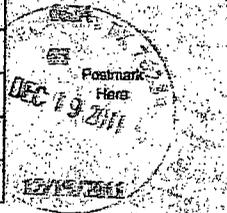
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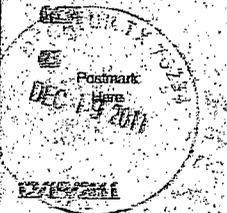
Street, Apt. No. or PO Box No. **Scott Douglas Rule**  
 City, State, ZIP+4 **1365 Tapadero Trail Reno, NV 89521**

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Sent To:

Street, Apt. No. or PO Box No. **Sun Trust Bank**  
 City, State, ZIP+4 **Trustee J/W/O Josephine Lundy**  
**1445 New York Ave. NW**  
**CDC-5602, Second Floor**  
**Washington DC 20005**

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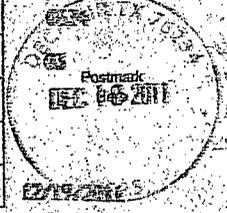
Street, Apt. No. or PO Box No. **Steve R Fine**  
 City, State, ZIP+4 **28707 Ivory Creek Lane Katy, TX 77458**

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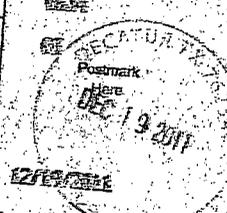
Street, Apt. No. or PO Box No. **Dimwiddie Cattle Company**  
 City, State, ZIP+4 **PO Box 374 Roswell, NM 88202**

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Sent To:

Street, Apt. No. or PO Box No. **Betty Amonte**  
 City, State, ZIP+4 **4812 St. Andrews Ave Leesburg, FL 34748**

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Sent To:

Street, Apt. No. or PO Box No. **W Winfield Smith Jr.**  
 City, State, ZIP+4 **4614 Parmele Rd. Castlehaven, NC 28429**

Exhibit "C"

7010 0290 0002 2724 0606

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Postmark Here  
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 12/19/2011

Sent To: **Mary Ann Prall**  
 Street, Apt. No. or PO Box No.: **904 S. Brie Ave**  
 City, State, ZIP+4: **Tulsa, OK 74112**

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 12/19/2011

Sent To: **Elis Rudy Inc.**  
 Street, Apt. No. or PO Box No.: **22499 Imperial Valley Dr.**  
 City, State, ZIP: **Houston, TX 77073**

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**DEC 19 2011**  
 12/19/2011

Sent To: **Richard John Shaughnessy**  
 Street, Apt. No. or PO Box: **2611 S. Trenton Ave**  
 City, State: **Tulsa, OK 74114**

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7010 0290 0002 2724 0736

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Postmark Here  
**DEC 19 2011**  
 12/19/2011

Sent To: **Cyril Verret**  
 Street, Apt. No. or PO Box No.: **2400 Dietz**  
 City, State, ZIP: **Lake Charles, LA 70601**

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Restricted Delivery Fee (Endorsement Required)	4.00
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Postmark Here  
**DEC 19 2011**  
 12/19/2011

Sent To: **James Michael Dudley**  
 Street, Apt. No. or PO Box: **7 Whitmoor Ct.**  
 City, State, ZIP: **St. Charles, MO 63304**

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Sent To: **O W. Sirvin, Estate**  
 Street, Apt. No. or PO Box: **Arvest Trust Company, Trustee**  
 City, State, ZIP: **C/o Connie Jenkins**  
**200 E. Main**  
**Norman, OK 73069**

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7010 0290 0002 2724 0614

7010 0290 0002 2724 0637

7010 0290 0002 2724 0651

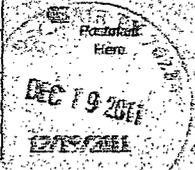
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<b>Total Postage &amp; Fees</b>	<b>\$ 16.02</b>	



Sent To: **Phillip Julian Erickson**  
 Street, Apt. No. or PO Box No.: **303 Northern Blvd**  
 City, State, ZIP: **St James NY**

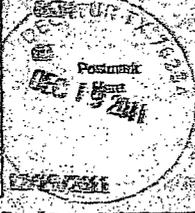
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Restricted Delivery Fee (Endorsement Required)	\$ 6.50	
<b>Total Postage &amp; Fees</b>	<b>\$ 16.02</b>	



Sent To: **Brenda Bowers Shafer**  
 Street, Apt. No. or PO Box No.: **P. O. Box 220355**  
 City, State, ZIP: **El Paso, TX 79913**

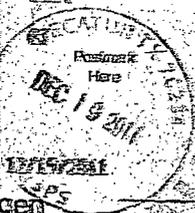
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Return Receipt Fee (Endorsement Required)	\$ 2.50	
Restricted Delivery Fee (Endorsement Required)	\$ 6.50	
<b>Total Postage &amp; Fees</b>	<b>\$ 16.02</b>	



Sent To: **Judy Ann Gergen**  
 Street, Apt. No. or PO Box No.: **2820 N. Meridian St.**  
 City, State, ZIP+4: **Indianapolis, IN 46208**

PS Form 3800, August 2009 See for Instructions

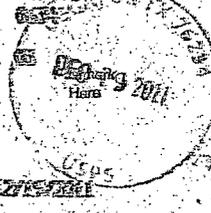
7010 0990 0002 2724 0713

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Return Receipt Fee (Endorsement Required)	\$ 2.50	
Restricted Delivery Fee (Endorsement Required)	\$ 6.50	
<b>Total Postage &amp; Fees</b>	<b>\$ 16.02</b>	



Sent To: **Clyde C. Smith**  
 Street, Apt. No. or PO Box No.: **355 Chelsea Circle, NE**  
 City, State, ZIP: **Atlanta, GA 30307**

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Restricted Delivery Fee (Endorsement Required)	\$ 6.50	
<b>Total Postage &amp; Fees</b>	<b>\$ 16.02</b>	



Sent To: **T. Wooten Jr.**  
 Street, Apt. No. or PO Box No.: **938 Chester Circle Dr.**  
 City, State, ZIP+4: **Fayetteville, NC 28303**

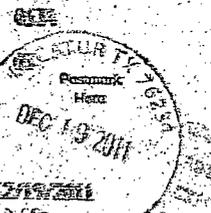
PS Form 3800, August 2009 See for Instructions

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 Street, Apt. No. or PO Box No.: **C/o Archie D. Smith, Jr., Trustee**  
 City, State, ZIP+4: **713 Vista Verde Way Bakersfield, CA 93309**

PS Form 3800, August 2009 See for Instructions

Exhibit "G"







7010 3090 0001 9791 6144  
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PS Form 3800, August 2005

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PS Form 3800, August 2005

Send To: Yates Petroleum Corporation  
105 South Fourth Street  
Artesia, NM 88210

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PS Form 3800, August 2005

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602 E Green Street  
Carlsbad, NM 88220

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Restricted Delivery Fee (Endorsement Required)	2.00
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PS Form 3800, August 2005

Send To: David A. Lynch  
PO Box 1904  
Lovington, NM 88260

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Restricted Delivery Fee (Endorsement Required)	2.00
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Postmark Here  
DEC 19 2011

PS Form 3800, August 2005

Send To: Chevron USA Inc  
15 Smith Road  
Midland, TX 79705

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For delivery information visit our website at [www.usps.com](http://www.usps.com)

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Total Postage & Fees	\$ 11.45

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DEC 19 2011

PS Form 3800, August 2005

Send To: New Mexico State Land Office  
Oil, Gas, Mineral DIVISON  
PO Box 1148  
Santa Fe, NM 87504-1148

Exhibit "G"

**Jones, William V., EMNRD**

---

**From:** billy@pwillc.net  
**Sent:** Monday, September 19, 2011 8:14 AM  
**To:** Jones, William V., EMNRD  
**Subject:** RE: Disposal application from Unified Operating LLC: West Jal "B" Deep #1 30-025-25046 H/Sec17/T25S/R36E Yates/SevenRivers 3790 to 4165 feet

Will, We will drop the application for the Yates/7 Rivers disposal and re apply for SWD in a different zone.  
Thanks  
BEP

----- Original Message -----

Subject: Disposal application from Unified Operating LLC: West Jal "B"  
Deep #1 30-025-25046 H/Sec17/T25S/R36E Yates/SevenRivers 3790 to  
4165 feet  
From: "Jones, William V., EMNRD" <William.V.Jones@state.nm.us>  
Date: Tue, August 23, 2011 11:10 am  
To: "billy@pwillc.net" <billy@pwillc.net>  
Cc: "Ezeanyim, Richard, EMNRD" <richard.ezeanyim@state.nm.us>,  
"Warnell, Terry G, EMNRD" <TerryG.Warnell@state.nm.us>, "Kautz, Paul,  
EMNRD" <paul.kautz@state.nm.us>, "Wesley\_Ingram@blm.gov"  
<Wesley\_Ingram@blm.gov>

Hello Bill,  
Just reviewed your application.

It appears the well site is Fee and Dinwiddie Cattle Co out of Roswell is grazing it. Who actually is the surface owner or owners?

The notice to Chevron was to Houston – would you resend to the Midland office?

Let me know the newspaper date of publish and a copy of the ad – you said this already.

The offsetting plugged well has surface pipe set too high as compared to the depth of the ground water – just a comment.

This is laterally covered by the Capitan Reef and vertically located either in it or on top of it. My HISS map of this area shows protectable waters in the Yates formation. The cement job on the 13-3/8 inch set at 5210 feet shows cement efficiency about 36 percent – so those depths most likely include some vuggy limes.

That likelihood of this interval in the subject well being communicated to the Capitan Reef and the probable low water salinities would make this application un-approvable administratively. It would be feasible for your client to extensively swab to determine if waters near this well were actually above 10,000 mg/l TDS, but it would be much harder to prove this interval is not hydraulically connected to the Reef.

I would suggest there is an option of using the subject well to dispose of waste waters into the "Delaware" or whatever they call it from depths of 5231 to 6823 feet. These exact depths would need to be noticed because of the offsetting well having this as an unprotected open hole section over those depths.

Regards,

William V Jones, P.E.

Engineering, Oil Conservation Division  
1220 South St. Francis Drive, Santa Fe, NM 87505  
Tel 505.476.3448 ~ Fax 505.476.3462



**Jones, William V., EMNRD**

---

**From:** billy@pwllc.net  
**Sent:** Tuesday, August 23, 2011 2:39 PM  
**To:** Jones, William V., EMNRD  
**Cc:** Ezeanyim, Richard, EMNRD; Warnell, Terry G, EMNRD; Kautz, Paul, EMNRD; Wesley\_Ingram@blm.gov  
**Subject:** RE: Disposal application from Unified Operating LLC: West Jal "B" Deep #1 30-025-25046 H/Sec17/T25S/R36E Yates/SevenRivers 3790 to 4165 feet

Will, Thanks for the note. The surface owner is Dinwiddie Cattle Company. The legal notice should have ran in Hobbs paper on Aug 17th. I will send when recd. I will discuss the options with my client.

Thanks

Billy (Bill) E. Prichard  
Pueblo West Consulting  
125 Greathouse Village  
Decatur, TX 76234  
432-934-7680 cellular  
940-627-5449 fax  
email; billy@pwllc.net  
www.pwllc.net

----- Original Message -----

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From: "Jones, William V., EMNRD" <William.V.Jones@state.nm.us>  
Date: Tue, August 23, 2011 11:10 am  
To: "billy@pwllc.net" <billy@pwllc.net>  
Cc: "Ezeanyim, Richard, EMNRD" <richard.ezeanyim@state.nm.us>, "Warnell, Terry G, EMNRD" <TerryG.Warnell@state.nm.us>, "Kautz, Paul, EMNRD" <paul.kautz@state.nm.us>, "Wesley\_Ingram@blm.gov" <Wesley\_Ingram@blm.gov>

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**Jones, William V., EMNRD**

---

**From:** Jones, William V., EMNRD  
**Sent:** Tuesday, August 23, 2011 12:10 PM  
**To:** 'billy@pwllc.net'  
**Cc:** Ezeanyim, Richard, EMNRD; Warnell, Terry G, EMNRD; Kautz, Paul, EMNRD; 'Wesley\_Ingram@blm.gov'  
**Subject:** Disposal application from Unified Operating LLC: West Jal "B" Deep #1 30-025-25046 H/Sec17/T25S/R36E Yates/SevenRivers 3790 to 4165 feet

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Engineering, Oil Conservation Division  
1220 South St. Francis Drive, Santa Fe, NM 87505  
Tel 505.476.3448 ~ Fax 505.476.3462



## Jones, William V., EMNRD

---

**From:** Jones, William V., EMNRD  
**Sent:** Thursday, December 29, 2011 2:34 PM  
**To:** 'billy@pwllc.net'  
**Cc:** 'Wesley\_Ingram@blm.gov'; Kautz, Paul, EMNRD  
**Subject:** Disposal application from Unified Operating, LLC: West Jal B Deep #1 30-025-25046 Fusselman from 16411 to 16670 feet

Hello Bill,  
Hope the holidays went well.

I reviewed this application and have a few questions and comments – and passing on some concerns of the offsetting mineral interest owner (BLM).

- a. Quite a history on this well. The records show the Strawn was first produced, then the Fusselman, then the Wolfcamp. The 7-3/4 inch liner has been perforated in the Wolfcamp, Strawn, and Atoka. Some perfs may need to be squeezed.
- b. The Wolfcamp perfs seem to have been open for the past several years with no production. Was there any reason this well was not plugged or recompleted prior to now?
- c. This entire area and vertical interval seems to be gas productive, mainly from the Strawn, but the Fusselman and Wolfcamp were produced for a short time. I believe the Atoka was a target in this area. The Devonian was DSTed with 8000 feet of blanket, but not tested that I can see. Why did Unified Operating pick the Fusselman and not propose to include the Devonian in this application for disposal? The Strawn seems to have the best permeability of any of these – is that correct?.. or is the Strawn another limited reservoir?
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- e. Obviously there are no other deep wells to look at the logs and use for mapping. This prospect must have been drilled based on seismic – but that was done in the early 1970's. Tell us what seismic is available for purchase over this structure and what was done to obtain it and use it for mapping?
- f. Please send a writeup from an experienced geologist familiar with this area about this Fusselman reservoir and its possible extent. Ask the geologist to include an interpreted structure map if possible and estimated original gas-water contact. We would like to have an idea what this structure may look like prior to approving for disposal in the depleted Fusselman gas reservoir.

**Jones, William V., EMNRD**

---

**From:** billy@pwllc.net  
**Sent:** Thursday, December 29, 2011 3:01 PM  
**To:** Jones, William V., EMNRD  
**Cc:** Wesley\_Ingram@blm.gov; Kautz, Paul, EMNRD  
**Subject:** RE: Disposal application from Unified Operating, LLC: West Jal B Deep #1 30-025-25046 Fusselman from 16411 to 16670 feet

Will, All open perforations above the Fusselman would be cement squeezed to establish Mechanical Integrity of the Annulus. On advise from an engineer, the Devonian was to tight to take water. It will take a few days, but we will answer all of your questions as soon as possible.

Thanks

Billy (Bill) E. Prichard  
Pueblo West Consulting  
125 Greathouse Village  
Decatur, TX 76234  
432-934-7680 cellular  
940-627-5449 fax  
email; billy@pwllc.net  
www.pwllc.net

----- Original Message -----

Subject: Disposal application from Unified Operating, LLC: West Jal B Deep #1 30-025-25046 Fusselman from 16411 to 16670 feet  
From: "Jones, William V., EMNRD" <William.V.Jones@state.nm.us>  
Date: Thu, December 29, 2011 3:34 pm  
To: "billy@pwllc.net" <billy@pwllc.net>  
Cc: "Wesley\_Ingram@blm.gov" <Wesley\_Ingram@blm.gov>, "Kautz, Paul, EMNRD" <paul.kautz@state.nm.us>

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**Jones, William V., EMNRD**

---

**From:** billy@pwillc.net  
**Sent:** Monday, March 19, 2012 1:20 PM  
**To:** Jones, William V., EMNRD  
**Subject:** RE: Disposal application from Unified Operating, LLC: West Jal B Deep #1 30-025-25046 Fusselman from 16411 to 16670 feet

Will, Is there any movement on the administrative approval of this SWD application? Any help you can provide would be appreciated.  
Thanks

Billy (Bill) E. Prichard  
Pueblo West Consulting  
125 Greathouse Village  
Decatur, TX 76234  
432-934-7680 cellular  
940-627-0086 fax  
email; billy@pwillc.net  
www.pwillc.net

----- Original Message -----

Subject: Disposal application from Unified Operating, LLC: West Jal B Deep #1 30-025-25046 Fusselman from 16411 to 16670 feet  
From: "Jones, William V., EMNRD" <William.V.Jones@state.nm.us>  
Date: Thu, December 29, 2011 3:34 pm  
To: "billy@pwillc.net" <billy@pwillc.net>  
Cc: "Wesley\_Ingram@blm.gov" <Wesley\_Ingram@blm.gov>, "Kautz, Paul, EMNRD" <paul.kautz@state.nm.us>

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Thank You,

Will Jones

New Mexico

Oil Conservation Division

Images Contacts

## Jones, William V., EMNRD

---

**From:** Jones, William V., EMNRD  
**Sent:** Thursday, April 05, 2012 2:27 PM  
**To:** 'Wesley\_Ingram@blm.gov'; Kautz, Paul, EMNRD  
**Subject:** FW: Disposal application from Unified Operating, LLC: West Jal B Deep #1 30-025-25046 Fusselman from 16411 to 16670 feet  
**Attachments:** Smith Unified Operating ltr 2-21-12.doc; Map #1 West Jal Deep B Evaluation.pdf

Wesley  
– did you get any feedback from your geologists on this one?  
If not, I guess I will release it...

Will Jones  
New Mexico  
Oil Conservation Division  
[Images](#) [Contacts](#)

---

**From:** Jones, William V., EMNRD  
**Sent:** Monday, March 19, 2012 6:13 PM  
**To:** 'Wesley\_Ingram@blm.gov'; Kautz, Paul, EMNRD  
**Cc:** Ezeanyim, Richard, EMNRD  
**Subject:** Disposal application from Unified Operating, LLC: West Jal B Deep #1 30-025-25046 Fusselman from 16411 to 16670 feet

Paul and Wesley,  
...what do you think?

My main question to this applicant was whether this reservoir was confined, depleted, and had no other chance of production offsetting these wells – and his geology report indicates that.  
Personally, I think injecting water into a gas reservoir will negate any possibility of gas production from any other future wells – which may not be a problem if the two wells are truly depleted and his report is correct.  
The other thing is injection of water into a gas reservoir may be EXTREMELY TIGHT – but I could be wrong on that. The Strawn looks best to me as far as permeability, after reviewing the well records, but the Strawn is so compartmentalized....

However, I am not a geologist and Paul you are an expert and Wesley, you have geologists to talk to.

I will wait on both of you to comment.

Will Jones  
New Mexico

## Jones, William V., EMNRD

---

**From:** Jones, William V., EMNRD  
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**To:** 'Wesley\_Ingram@blm.gov'; Kautz, Paul, EMNRD  
**Cc:** Ezeanyim, Richard, EMNRD  
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Will Jones  
New Mexico  
Oil Conservation Division  
[Images](#) [Contacts](#)

---

**From:** billy@pwllc.net [mailto:billy@pwllc.net]  
**Sent:** Tuesday, February 21, 2012 4:46 PM  
**To:** Jones, William V., EMNRD  
**Cc:** Wesley\_Ingram@blm.gov; Kautz, Paul, EMNRD  
**Subject:** RE: Disposal application from Unified Operating, LLC: West Jal B Deep #1 30-025-25046 Fusselman from 16411 to 16670 feet

Will, Attached is study done by Jeffry Smith, geologist concerning your questions concerning the SWD application of Unified Operating. I hope that these attachments will answer your questions concerning the West Jal B Deep # 1.

Thanks  
Billy (Bill) E. Prichard  
Pueblo West Consulting

125 Greathouse Village  
Decatur, TX 76234  
432-934-7680 cellular  
email; [billy@pwllc.net](mailto:billy@pwllc.net)  
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Deep #1 30-025-25046 Fusselman from 16411 to 16670 feet  
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Date: Thu, December 29, 2011 3:34 pm  
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Cc: "[Wesley Ingram@blm.gov](mailto:Wesley_Ingram@blm.gov)" <[Wesley\\_Ingram@blm.gov](mailto:Wesley_Ingram@blm.gov)>, "Kautz, Paul,  
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Thank You,

Will Jones

New Mexico

Oil Conservation Division

Images Contacts



**Unified Operating, LLC. #1 West Jal Deep "B"**  
**API No. 30-025-20857 S. 17T25SR36E**  
**Lea, County, New Mexico**

Geology Pertinent to SWD Application

Geologic Setting

The subject well is on a small structure slightly west of the Central Basin Platform. The Jal, West Field was discovered in 1963 and has produced from at least five distinct, recognizable stratigraphic horizons. Production was mostly natural gas which is typical of fields similarly situated in the updip region of the Delaware Basin.

Strawn

Strawn age rocks were deposited on a broad, shallow carbonate-dominated platform. Examination of all the logs within an approximate two mile radius of the subject well reveals typical intermittent porosity. Sonic tools (which do not measure secondary porosity) average very low values throughout most of the interval. There are occasional thin porosity zones developed but they don't carry from well to well. Most likely, thin, non-observable fractures are primarily responsible for the reservoir development.

Devonian

The Devonian consists entirely of a thick, non-porous, non-permeable limestone. It is not at all suitable for water disposal.

Fusselman

This zone consists primarily of porous, highly fractured dolomite with some intercalated limestone intervals. The boundary between the Fusselman and Devonian (actually middle Silurian) is an uncomfortable erosion surface represented by weathered, altered rocks. The altered zone was perforated and produced in the subject well and was denominated as Fusselman. The true Fusselman dolomite lies below this zone and starts at 16,450' but the zones are assuredly communicated. The other listed Fusselman producer - Skelly West Jal Unit #1, Section 20. Adjacent to the south - did not perforate the altered, unconformity zone, only the true Fusselman dolomite to a depth of 16,614' (-13,517'). Experience dictates that deep, fractured dolomites should be perforated as near the top as possible as the entire interval will be vertically

communicated. Further, they do not readily lend themselves to log analysis as the resistivities are uniformly high and fractured rocks usually suffer excessive invasion. Estimating an original (or current) gas-water contact is problematic. This type of reservoir has a substantial transition zone. Although the West Jal Unit perforated to -13,517', that depth can't be taken to be an original gas-water contact. The top perforation was 16,449' (13,352') and the well is presumably watered out at that depth. The West Jal "B" Deep (subject well) perforated from 16,411' (-13,260') to 16,439' (-13,288'). The lowest perforation in this well is 64 feet higher than the highest perforation in the offset. The Fusselman has been abandoned in both wells so it is reasonable to assume that the current gas-water contact should approximate the highest (-13,260') perforation.

### Structure

The producing structure orients NW-SE and is set up and closed off by a sympathetic (to the CBP) fault of the same orientation. Areal extent at the Fusselman horizon is estimated at two sections - ±1300 acres. There is evidence of at least two episodic tiltings. The subject well is 177 feet high to the offset at the top of Devonian but only 30 feet at the Fusselman dolomite.

Immediately post Fusselman, the "Deep" well was elevated as the altered zone is 60 feet thick at the unconformity while it is 176 feet thick in Section 20. A reversal and elevating tilt occurred pre-Woodford as the Devonian is 1010 feet thick in subject well and only 746 feet in offset. Prior to Woodford deposition, West Jal Unit in Section 20 was clearly the higher of the two. The last reversal probably occurred during Penn time and has resulted in subject well occupying the highest structural position.

It is known that considerable 2-D seismic has been shot in area - indeed, the subject and surrounding wells were drilled on this basis. Allowing that the data is of good quality and evaluating the structural plunge based on Strawn tops, it seems highly unlikely that any attractive target could remain for Fusselman gas.

## Conclusion

The West Jal Deep "B" #1 is considered to be a suitable well for water injection in the Fusselman formation. The zone has been depleted of gas in both the subject well and the south offset in Section 20. The reservoir consists of fractured dolomite and exhibits both primary and secondary porosity as well as favorable permeability indicators. The structure is a fault induced compressional, doubly-plunging anticline that dips strongly to the northwest and southeast. Geologic evaluation of stratigraphy and structure of the field lead to the conclusion that no remaining Fusselman natural gas reserves are obtainable.

Respectfully submitted,

Jeffrey A. Smith

Texas Licensed Geoscientist #2454

**Injection Permit Checklist** (11/4/2010)

WFX PMX SWD 1328 Permit Date 4/20/12 UIC Qtr (A) (M/J)

# Wells 1 Well Name(s): WEST JAL B Deep #1

API Num: 30-0 25-25046 Spud Date: 6/12/75 New/Old: 0 (UIC primacy March 7, 1982)

Footages 1980 FNL/660 FEL Unit H Sec 17 Tsp 25 S Rge 36 E County LEA

General Location: 5 mi west of JAL

Operator: UNIFIED OPERATIONS, LLC Contact VICTORIA HIRSCHFELD  
BRUCE PRICHARD

OGRID: 281652 RULE 5.9 Compliance (Wells) W/1 Finan Assur) OK IS 5.9 OK? Y

Well File Reviewed Current Status: STWC oil well 2 of 2/27/12

Planned Work to Well:

Diagrams: Before Conversion  After Conversion  Elogs in Imaging File:

Well Details:	Sizes		Setting Depths	Stage Tool	Cement Sx or Cf	Determination Method
	Hole.....	Pipe				
New <input type="checkbox"/> Existing <input checked="" type="checkbox"/> Surface	26	20	767	-	1400+300	CIRC
New <input type="checkbox"/> Existing <input checked="" type="checkbox"/> Interm		13 1/8	5210	NA	5000+300	590 T.S.
New <input type="checkbox"/> Existing <input checked="" type="checkbox"/> LongSt	12 1/4	13 1/4	11,263	7568	750+300 Part 10	5140 T.S.
New <input type="checkbox"/> Existing <input checked="" type="checkbox"/> Liner	9 1/2	7 3/4	10917-14685	-	1300	T.O.L. ??
New <input type="checkbox"/> Existing <input checked="" type="checkbox"/> LIVER Open Hole	6 1/2	5 1/2	1432-18945	-	750	T.O.L. ??

Depths/Formations: Depths, Ft. Formation Tops?

Formation(s) Above	15381	DEVONIAN	<input checked="" type="checkbox"/>
	16404	Fusulin	<input checked="" type="checkbox"/>
Injection TOP:	16411	Fusulin	Max. PSI <u>3282</u> Open Hole <input checked="" type="checkbox"/> Perfs <input checked="" type="checkbox"/>
Injection BOTTOM:	16670	" "	Tubing Size <u>7</u> Packer Depth <u>16,350'</u>
Formation(s) Below	18318	EVENBUYS	<input checked="" type="checkbox"/>

See 8/11 Submitted for THIS well info re TRNB

THIS F30L covers SOUTH of Here?

Capitan Reef?  Potash?  Notepad?  PWIPP?  Noticed?  Salado Top/Bot 1460-336 Cliff House?

Fresh Water: Depths: <800' Formation o.s. below Reef Wells?  Analysis?  Affirmative Statement

Disposal Fluid Analysis?  Sources: Commercial

Disposal Interval: Analysis?  Production Potential/Testing: Gas Produced ~~in 2005~~ where is UPDIP = ?

Notice: Newspaper Date 12/16/11 Surface Owner PINWIDDIE Cattle Co Mineral Owner(s) MANY

RULE 26.7(A) Affected Persons: See APPLICATION

AOR: Maps?  Well List?  Producing in Interval?  Wellbore Diagrams?

.....Active Wells 0 Repairs? - Which Wells? -

.....P&A Wells 0 Repairs? - Which Wells? -

Issues: "GAS", structure map for Seismic, Devonian Request Sent - Reply: -

Drilled thru Reef?

What about Devonian?