

DATE IN 5/12/11	SUSPENSE	ENGINEER WJ	LOGGED IN 5/12/11	TYPE SWD	APP NO. 1113256510
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Rule 5.9 OK @ 10/12/11

ABOVE THIS LINE FOR DIVISION USE ONLY

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



Endeavor 190595  
 Pan American Fed. #1

**ADMINISTRATIVE APPLICATION CHECKLIST 30-025-23155**

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]

Lee Fed

[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 \_\_\_\_\_

5150 Top Ped  
 1030 PSI

[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.**

Billy E. Prichard  
 Print or Type Name

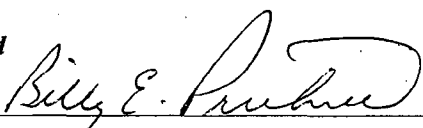
Signature

Agent for Endeavor Energy  
 Title

Date

billy@pwlle.net  
 e-mail Address

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance \_\_\_\_\_ ☒ Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval? \_\_\_\_\_ ☒ Yes \_\_\_\_\_ No
- II. OPERATOR: *Endeavor Energy Resources, LP*  
ADDRESS: *110 NORTH MARIENFELD SUITE 200 MIDLAND TX 79701*  
CONTACT PARTY: *Billy E. Prichard* PHONE: *4329347680*
- 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 Endeavor Energy*  
SIGNATURE:  DATE: *5/10/11*  
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: \_\_\_\_\_

Pueblo West  
5/10/2011

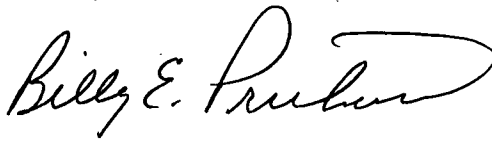
RECEIVED OCD

2011 MAY 12 A 11: 50

Will,

Please find enclosed 2 copies for NMOCD form C108 filed on behalf of Endeavor Energy Resources, LP. This application is to convert a plugged and abandoned Federal well to a lease disposal. Enclosed is an email that I recd from Wesley Ingram with the BLM concerning this application. I have included email from the Hobbs Daily News Sun concerning the publication of the legal notice for this application. I will forward the original affidavit of publication when received. I have sent you the in-active well count for Endeavor Energy Resources and they are currently working on a plugging program to bring the in-active list down to the approved levels.

Thanks



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

[Print](#) | [Close Window](#)**Subject:** Re: Legal Notice**From:** classifieds <classifieds@hobbsnews.com>**Date:** Mon, May 09, 2011 12:35 pm**To:** <billy@pwllc.net> <billy@pwllc.net>

I received your email. You should get a proof and a quote before the ad runs; and the affidavit will be mailed to you the day the ad is published. Thanks so much!

On May 9, 2011, at 1:17 PM, <billy@pwllc.net> <billy@pwllc.net> wrote:

Jenna, per our phone conversation, attached is legal notice that I need to publish 1 time in the Hobbs paper.

Invoice and affidavit of publication 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)

Endeavor Energy Resources, LP, 110 North Marienfeld, Suite 200, Midland, Texas 79701 has filed NMOCD form C108 seeking administrative approval to convert the Pan American Federal # 1 API # 30-025-23155 located 1980 FSL x 660 FWL, Unit letter "L", Section 25, T25S, R33E, NMPM, Lea County, New Mexico from a plugged and abandoned oil well to a lease Delaware salt water disposal well. Disposal fluid would come from producing wells operated by Endeavor Energy Resources, LP in the area. The disposal interval would be the Delaware formation through perforations from 5150-6950 feet. Anticipated disposal rate is 500-3500 barrels of water per day. Anticipated disposal pressure is expected to be 250 psig with a maximum disposal pressure of 1030 psig.

Well is located 19.9 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 Billy Prichard 432-934-7680.

<original legal notice.doc>

Jenna Arther  
Classifieds  
575-391-5414- Direct  
575-397-0610 -Fax  
[classifieds@hobbsnews.com](mailto:classifieds@hobbsnews.com)

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**Subject:** Re: SWD application  
**From:** wingram@blm.gov  
**Date:** Thu, Apr 21, 2011 4:36 pm  
**To:** <billy@pwllc.net>

Billy,

I think that is the best plan of action. That way Endeavor does not pay a fee that is nonrefundable.  
We will review the C108 when it arrives.

Thanks,  
Wesley W. Ingram  
Supervisory Petroleum Engineer  
Bureau of Land Management  
575-234-5982  
wesley\_ingram@nm.blm.gov

<billy@pwllc.net>

04/20/2011 01:50 To  
PM wesley\_ingram@nm.blm.gov  
cc

Subject  
SWD application

Wesley, I am in the process of preparing NMOCD form C108(Application for Authorization to Inject) for Endeavor Energy Resources,LP. This is for API # 30-025-23155 the Pan American Federal # 1. Endeavor currently holds the federal lease on this acreage. This well was plugged and abandoned back in the late 60s. With your permission, I would like to submit the SWD app and receive approval of the SWD permit prior to filing the 3160.3 to re-enter the wellbore and run casing. You would receive a copy of the SWD permit application

Thanks for any help you can provide.

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

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**Endeavor Energy Resources, LP**  
**Pan American Federal # 001**  
**API # 30-025-23155**  
**1980 FSL X 660 FWL**  
**Unit Letter "L", Section 25, T25S, R33E**  
**Lea County, New Mexico**

**C108 (Application for Authorization to Inject)**

1. The purpose of this application is seeking the administrative approval for the conversion of the Pan American Federal # 1 from a plugged and abandoned oil well to a lease Delaware salt water disposal well.
2. Operator: Endeavor Energy Resources, LP  
Address: 110 North Marienfeld Suite 200 Midland, Texas 79701  
Contact Party: Billy E. Prichard [billy@pwillc.net](mailto:billy@pwillc.net) 4329347680
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 and 1 mile Area of Review.
6. Please see Exhibit "C" for data on existing wells with in the 0.5 mile Area of Review. 4 wells were identified that penetrate the purposed disposal interval. Please see Exhibit "C" for diagram of the 4 wells.
7. 1. Anticipated average daily disposal volume between 500-3500 BWPD with a maximum disposal volume of 3500 BWPD.  
2. This will be a closed system.  
3. Anticipated average disposal pressure of 250 psig with a maximum disposal pressure of 1030 psig.  $5150 \times 0.2 = 1030$  psig  
4. The source of the disposal fluid will be produced water from Endeavor Energy operated wells the Red Bull 3 Federal # 1 and the Red Bull 35 Federal # 1. Please see Exhibit "D" for analysis of the Red Bull water.  
5. Please see Exhibit "E" for analysis of typical Delaware produced water in the area.
8. The Delaware is a fine grained sandstone. Above the Delaware is the Lamar Lime and below the Delaware is the Bone Springs.  
Fresh water is in the Triassic and above 600 feet.
9. Acid stimulation is planned after perforating and will consist of 5000 gallons 15% NEFE HCL.
10. Logs will be ran prior to running casing and logs will be submitted to NMOCD.
11. Please see Exhibit "F" of analysis of fresh water from active 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 Affidavit of Publication.

**Endeavor Energy Resources, LP  
Pan American Federal # 001  
API # 30-025-23155  
1980 FSL X 660 FWL  
Unit Letter "L", Section 25, T25S, R33E  
Lea County, New Mexico**

**Exhibit "A"  
Well Data**

Spud 5/13/1969 as a wildcat

8 5/8" 24# casing set at 506 feet in 12 1/4" hole. Cemented with 350 sacks Class "C" cement with 1/4# Flo-cel with 2% CaCl. Cement circulated to the surface

7 7/8" hole drilled to total depth of 5300 feet

Plugged and abandoned:

Plug 1 – 5000-5200 feet

Plug 2 – 1000-1200 feet

Plug 3 – 450-550 feet

Plug 4 – 0-15 feet

Plugged 5/26/1969

Formation tops per BLM form 9-330

Rustler 1045 feet

Salt 4320 feet

Lamar 5118 feet

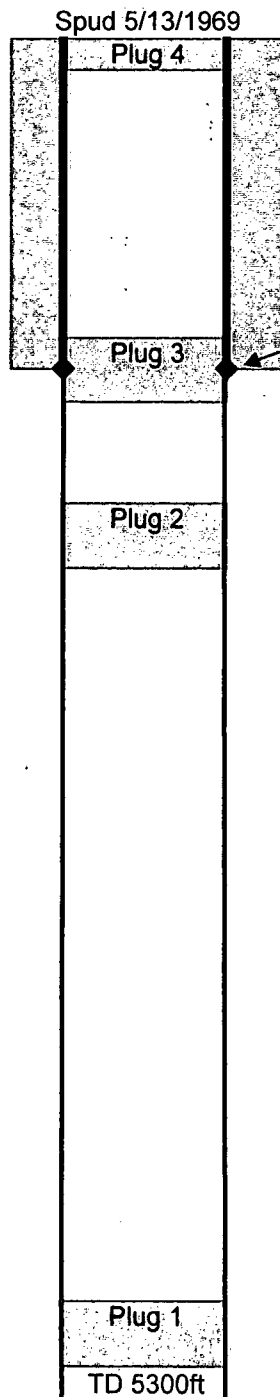
Trap 5145 feet

Ramsey 5160 feet

Ford 5206 feet

Olds 5220 feet

Endeavor Energy Resources, LP  
Pan American Federal # 001  
API # 30-025-23155  
1980 FSL X 660 FWL  
Unit Letter "L", Section 25, T25S, R33E  
Lea County, New Mexico  
Prior to conversion to SWD



Plugged and Abandoned 5/26/1968

Exhibit "A"

8 5/8" csg in 12 1/4" hole at 506ft  
Cement 350 sacks Class "C"  
Cement circulated to surface

Plug 1 - 5000-5200 feet  
Plug 2 - 1000-1200 feet  
Plug 3 - 450-550 feet  
Plug 4 - 0-15 feet



Endeavor Energy Resources, LP  
Pan American Federal # 001  
API # 30-025-23155  
1980 FSL X 660 FWL  
Unit Letter "L", Section 25, T25S, R33E  
Lea County, New Mexico  
After to conversion to SWD

Exhibit "A"

8 5/8" csg in 12 1/4" hole at 506ft  
Cement 350 sacks Class "C"  
Cement circulated to surface

Drilling Plan  
Drill out cement plugs and formation to 7050ft  
Log  
Run 5 1/2" casing to TD. Cement with sufficient volume to circ.  
Perforate Delaware 5150-6950ft

Packer Fluid

2 7/8" IPC tubing

Maximum pressure  $5150 \times 0.2 = 1030$

5 1/2" Arrowset pkr - Nickel Coated at 5100ft + or -

Perforations 5150-6950ft

5 1/2" 15.5# csg in 7 7/8" hole at 7050ft  
Cement with sufficient volume to circulate

BEP

TD 7050ft

Drawing not to scale

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



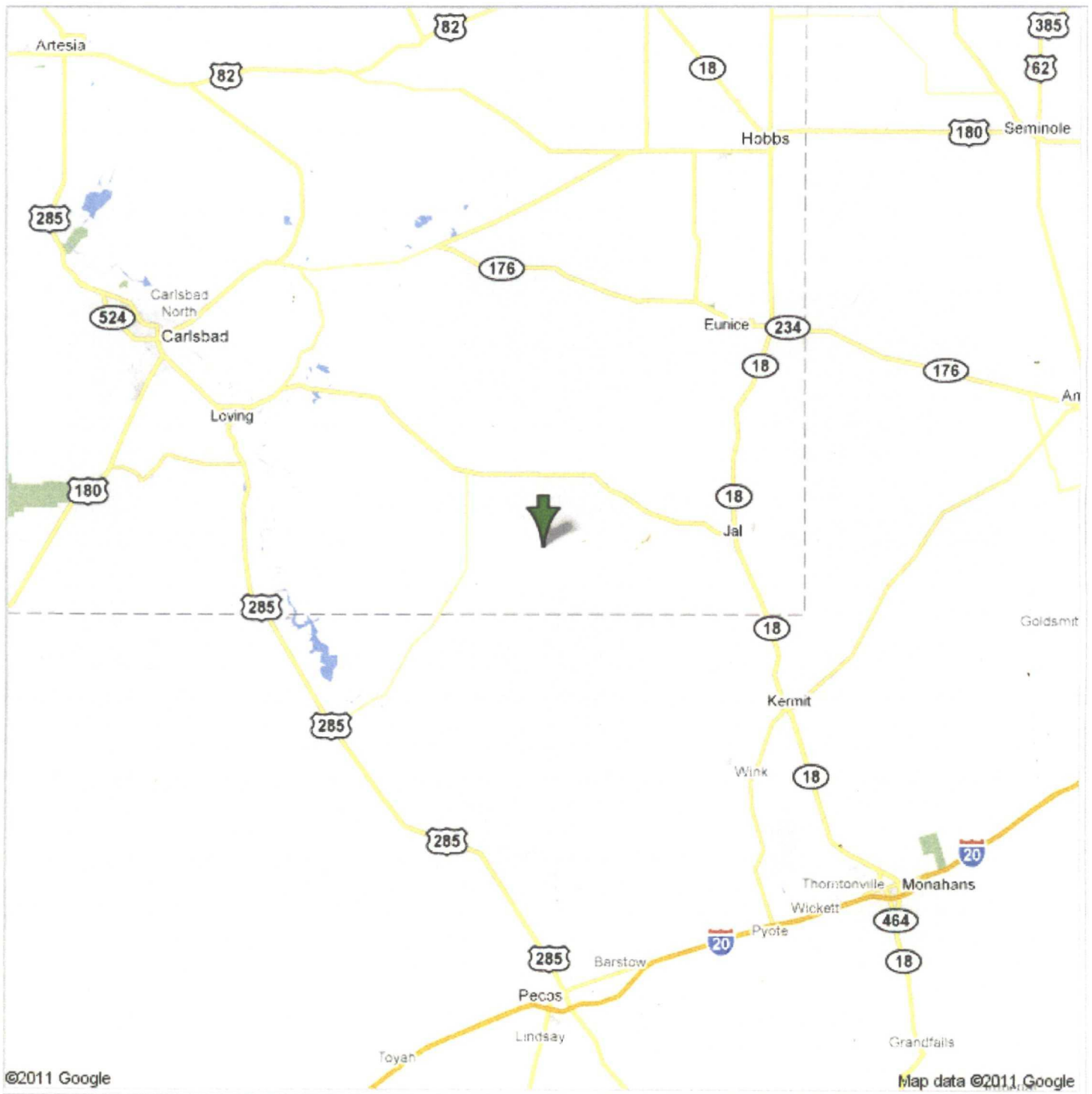


Exhibit "B"





Exhibit "B"

Endeavor Energy Resources, LP  
Wells in 0.5 and 1 Mile Area of Review

RADIUS	API	OPERATOR	LEASE	#	T	STATUS	TWN	RNG	SEC	UNT	TVD
	3002523155	KING RESOURCES CO	PAN AMERICAN FEDERAL	1	O	P	25S	33E	25	L	5300
1	1978	3002539704 EOG RESOURCES, INC	LOMAS ROJAS 26 STATE COM	5H	O	A	25S	33E	26	P	13800
2	1978	3002539532 EOG RESOURCES, INC	LOMAS ROJAS 26 STATE COM	2H	O	A	25S	33E	26	P	NA
3	2573	3002539705 EOG RESOURCES, INC	LOMAS ROJAS 26 STATE COM	6	S	A	25S	33E	26	G	11000
4	2604	3002539703 EOG RESOURCES, INC	LOMAS ROJAS 26 STATE COM	4H	O	A	25S	33E	26	O	13850
5	2641	3002508395 HISSOM DRILLING CO	STATE 36	1	O	P	25S	33E	36	D	5298
6	3370	3002539702 EOG RESOURCES, INC	LOMAS ROJAS 26 STATE COM	3H	O	A	25S	33E	26	O	13742
7	3962	3002508388 R B FARRIS	PERRY FEDERAL	1	O	P	25S	33E	24	M	5244
8	4174	3002508389 ASHMUN AND HILLIARD	FEDERAL	1	O	P	25S	33E	25	P	5340
9	4399	3002539701 EOG RESOURCES, INC	LOMAS ROJAS 26 STATE COM	2H	O	A	25S	33E	26	N	13792
10	4579	3002536941 EOG RESOURCES, INC	VACA 25 FEDERAL	1	O	P	25S	33E	25	A	NA
11	4758	3002528502 SUPERIOR OIL CO	STATE 36	1	O	P	25S	33E	36	G	5344
12	4759	3002527876 J A LEONARD	AMOCO JOHNSON 35	1	O	P	25S	33E	35	G	5122

API 3002539532 was never drilled

Exhibit "C"

5

EOG Resources, Inc  
 Lomas Rojas 26 State Com 5H  
 API # 30-025-39704  
 Surface Location  
 330 FSL X 430 FEL  
 Unit Letter "P", Sec 26, T25S, R33E  
 Lea County, New Mexico

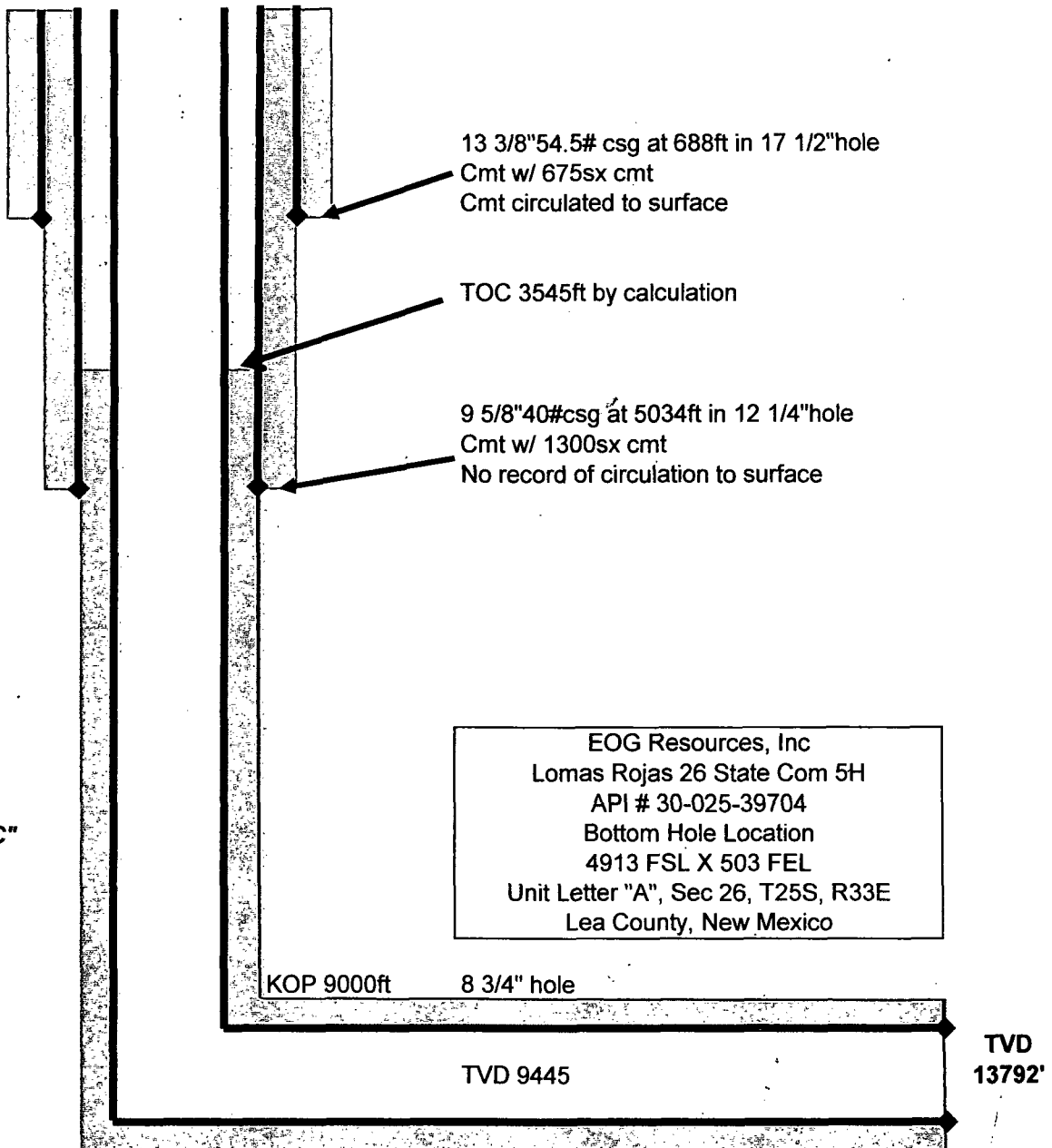


Exhibit "C"

BEP

Drawing not to scale

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

Submit 3 Copies To Appropriate District  
Office  
District I  
1625 N. French Dr., Hobbs, NM 87240  
District II  
1301 W. Grand Ave., Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

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

Form C-103  
June 19, 2008

WELL API NO. 30-025-39532
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: Lomas Rojas 26 State Com
8. Well Number 2H
9. OGRID Number 7377
10. Pool name or Wildcat Red Hills; Bone Spring

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" (FORM C-101) FOR SUCH  
PROPOSALS.)

1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	2. Name of Operator EOG Resources, Inc.
3. Address of Operator P.O. Box 2267 Midland, TX 79702	4. Well Location Unit Letter P : 330 feet from the South line and 430 feet from the East line Section 26 Township 25S Range 33E NMPM County Lea
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3334' GR	

12. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒  
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
DOWNHOLE COMMINGLE ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

EOG Resources requests the approved APD for the Lomas Rojas 26 State Com No. 2H be canceled.

Exhibit "C"

Canceled  
API # 30-025-39532

Spud Date:

Rig Release Date:

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

SIGNATURE Stan Warner TITLE Regulatory Analyst DATE 3/1/2010

Type or print name Stan Warner E-mail address: \_\_\_\_\_ PHONE 432-686-3689

For State Use Only

APPROVED BY [Signature] TITLE PETROLEUM ENGINEER DATE MAR 02 2010

Conditions of Approval (if any):

EOG RESOURCES, INC.  
2620' FNL & 1810' FEL  
Section 26, T25S, R33E

Lomas Rojas 26 State No. 6  
Lea County, New Mexico  
API No: 30-025-39705

### WELLBORE SCHEMATIC

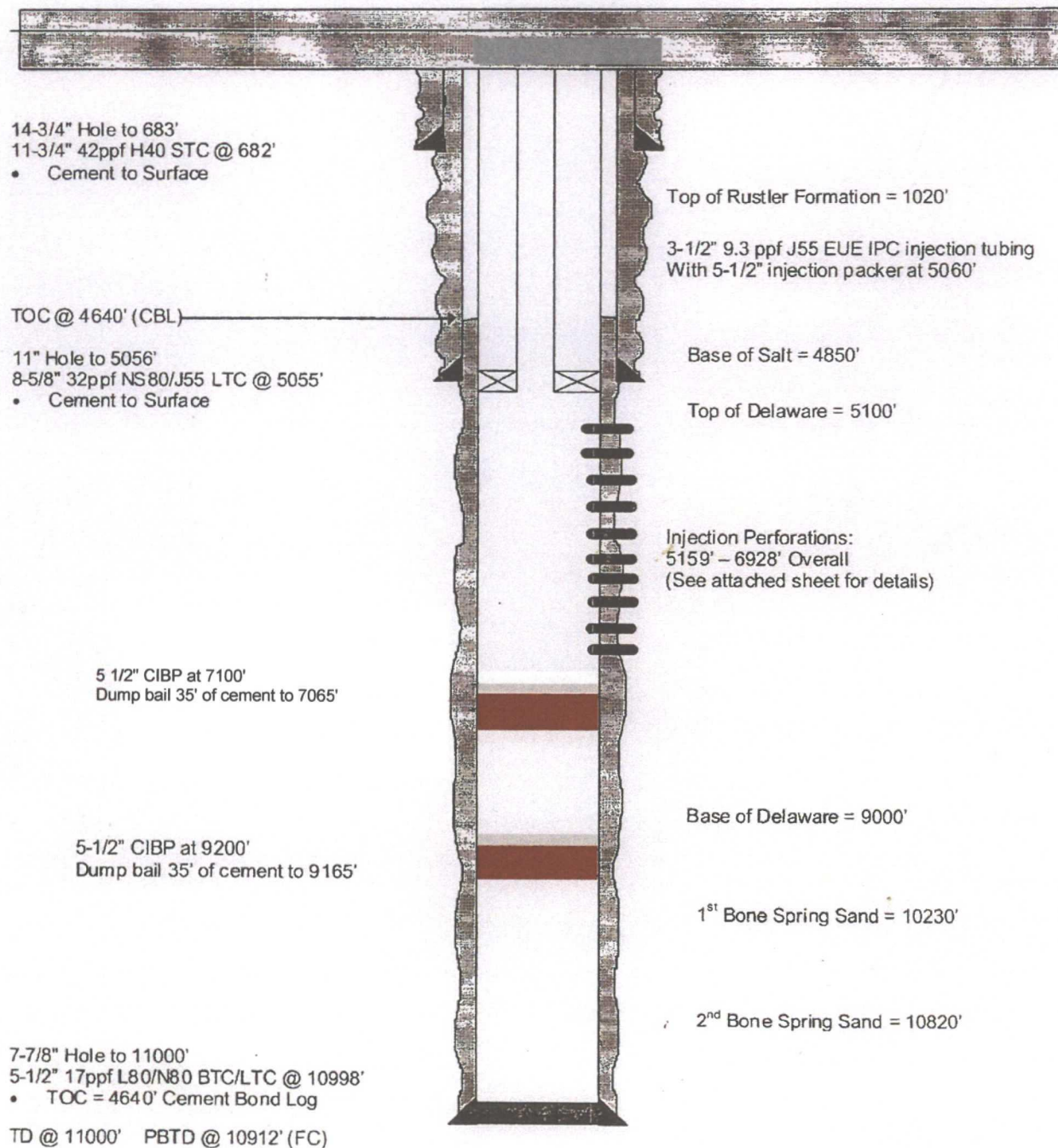


Exhibit "C"



EOG Resources, Inc  
Lomas Rojas 26 State Com 4H  
API # 30-025-39703  
Surface Location  
330 FSL X 1350 FEL  
Unit Letter "O", Sec 26, T25S, R33E  
Lea County, New Mexico

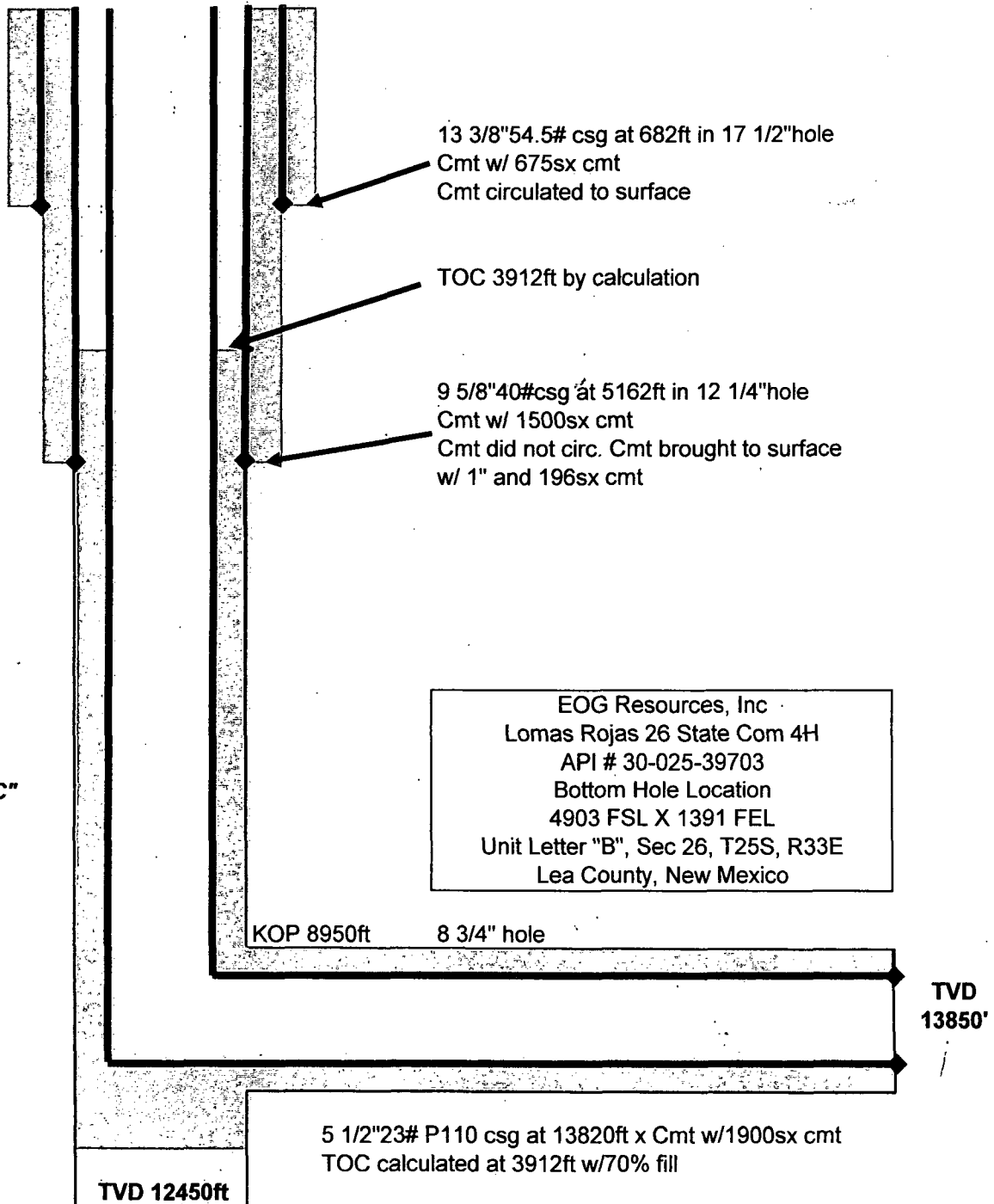


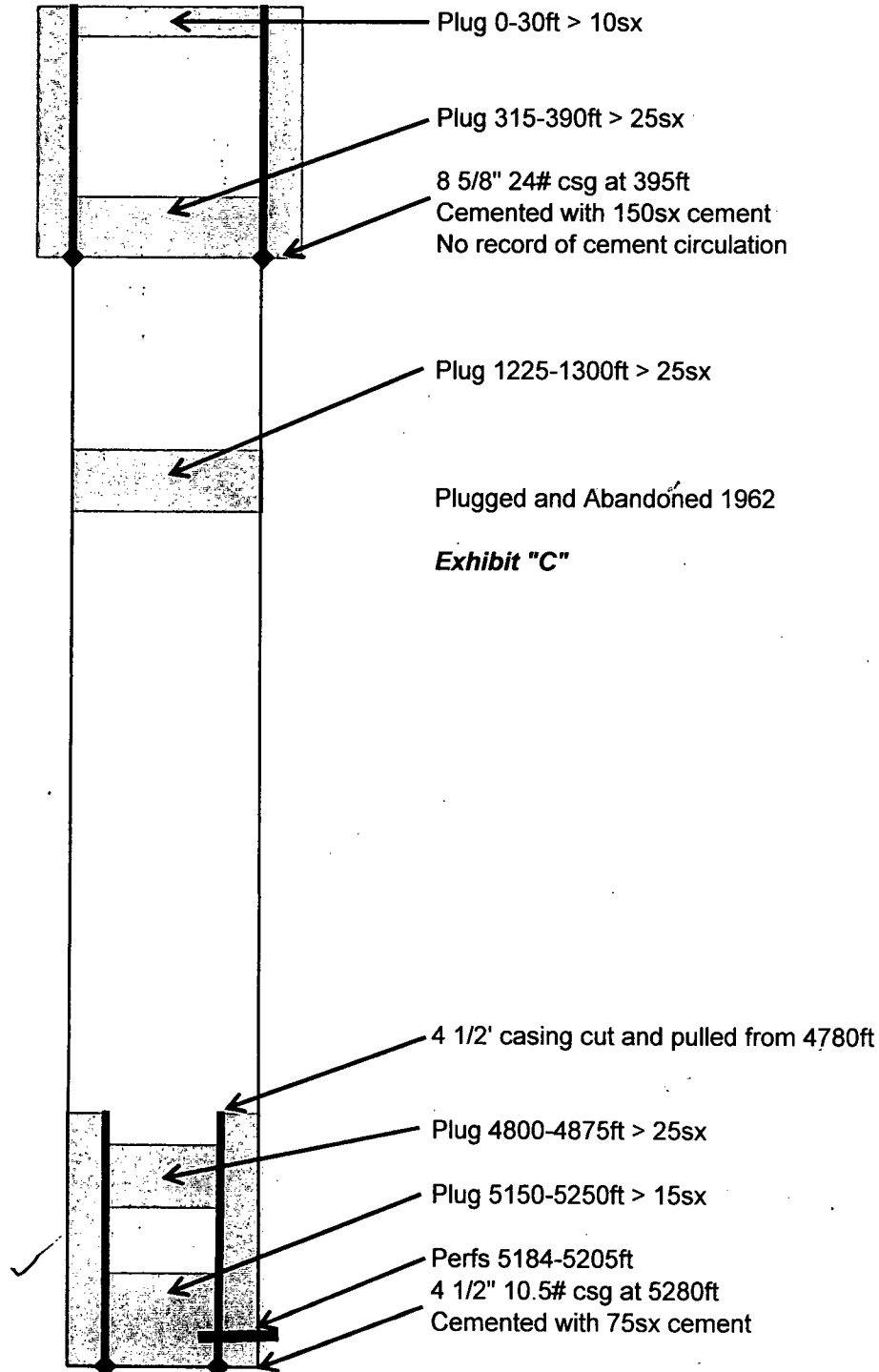
Exhibit "C"

BEP

Drawing not to scale

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

Hissom Drilling Company  
State 36 # 1  
API # 30-025-08395  
UL "D", Section 36, T25S, R33E  
Lea County, NM



BEP

Drawing not to scale

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

# MITCHELL ANALYTICAL LABORATORY

2638 Faudree  
Odessa, Texas 79765-8538  
561-5579

Company: **Impact Chemical**

Well Number: Red Bull 35-1  
Lease: Endeavor Energy  
Location:  
Date Run: 2/23/2011  
Lab Ref #: 11-feb-w20775

Sample Temp: 70  
Date Sampled: 2/21/2011  
Sampled by: Jr. Garcia  
Employee #:  
Analyzed by: DOM

## Dissolved Gases

		Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfide (H2S)		.00	16.00	.00
Carbon Dioxide (CO2)	<b>NOT ANALYZED</b>			
Dissolved Oxygen (O2)	<b>NOT ANALYZED</b>			

## Cations

		Mg/L	Eq. Wt.	MEq/L
Calcium (Ca++)		3,642.12	20.10	181.20
Magnesium (Mg++)		653.92	12.20	53.60
Sodium (Na+)		32,487.18	23.00	1,412.49
Barium (Ba++)	<b>NOT ANALYZED</b>			
Manganese (Mn+)		1.06	27.50	.04

## Anions

		Mg/L	Eq. Wt.	MEq/L
Hydroxyl (OH-)		.00	17.00	.00
Carbonate (CO3=)		.00	30.00	.00
BiCarbonate (HCO3-)		146.64	61.10	2.40
Sulfate (SO4=)		340.00	48.80	6.97
Chloride (Cl-)		58,163.91	35.50	1,638.42
Total Iron (Fe)		8.6	18.60	.46
Total Dissolved Solids		95,443.44		
Total Hardness as CaCO3		11,786.37		
Conductivity MICROMHOS/CM		140,000		

pH 6.340 Specific Gravity 60/60 F. 1.066

CaSO4 Solubility @ 80 F. 46.87MEq/L, CaSO4 scale is unlikely

## CaCO3 Scale Index

70.0	-.680	100.0	-.360	130.0	.230
80.0	-.570	110.0	-.120	140.0	.230
90.0	-.360	120.0	-.120	150.0	.570

General Information About: Sample 4222			
NORTH EL MAR UNIT 022			
API	3002508278	Sample Number	
Unit/Section/ Township/Range	J / 25 / 26 S / 32 E	Field	EL MAR
County	Lea	Formation	DEL
State	NM	Depth	
Lat/Long	32.01136 / - 103.62579	Sample Source	UNKNOWN
TDS (mg/L)	244815	Water Type	
Sample Date(MM/DD/YYYY)		Analysis Date(MM/DD/YYYY)	
Remarks/Description			
Cation Information (mg/L)		Anion Information (mg/L)	
Potassium (K)		Sulfate (SO)	220
Sodium (Na)		Chloride (Cl)	153500
Calcium (Ca)		Carbonate (CO <sub>3</sub> )	
Magnesium (Mg)		Bicarbonate (HCO <sub>3</sub> )	88
Barium (Ba)		Hydroxide (OH)	
Manganese (Mn)		Hydrogen Sulfide (H <sub>2</sub> S)	
Strontium (Sr)		Carbon Dioxide (CO <sub>2</sub> )	
Iron (Fe)		Oxygen (O)	

Delaware produced water analysis from the area of the Pan American Federal # 001  
Data obtained from <http://octance.nmt.edu>

***Exhibit "E"***

P.O. BOX 88  
MIDLAND, TX. 79702  
PHONE (432) 682-4621

Martin Water Laboratories, Inc.

709 W. INDIANA  
MIDLAND, TEXAS 79701  
FAX (432) 682-9819

RESULT OF WATER ANALYSES

TO: Stan Wagner, Hector Serna, Paul Corrales, Cathy Chance  
PO Box 1331, Jal, NM 88252

LABORATORY NO. 410-157  
SAMPLE RECEIVED 4-15-10  
RESULTS REPORTED 4-19-10

COMPANY EOG Resources LEASE Lomas Rojas Sec 26

FIELD OR POOL

SECTION BLOCK SURVEY COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

Submitted water sample - taken 4-14-10 and labeled "fresh water".

NO. 1

NO. 2

NO. 3

NO. 4

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0008			
pH When Sampled				
pH When Received	7.57			
Bicarbonates as $\text{HCO}_3$	356			
Supersaturation as $\text{CaCO}_3$				
Undersaturation as $\text{CaCO}_3$				
Total Hardness as $\text{CaCO}_3$	360			
Calcium as Ca	82			
Magnesium as Mg	38			
Sodium and/or Potassium	107			
Sulfate as $\text{SO}_4$	238			
Chloride as Cl	38			
Iron as Fe	0.2			
Barium as Ba	0			
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	860			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen				
Hydrogen Sulfide	0.0			
Resistivity, ohm-cm at 72° F.	9.790			
Suspended Oil				
Filterable Solids as mg/l				
Viscosity Filtered, cm				

Exhibit "F"

Fresh water analysis submitted by EOG Resources  
for SWD-1237. Water well located in Section 26  
T25S, R33E

Adapt  
of:

above to be true and correct to the best

Endeavor Energy Resources, LP, 110 North Marienfeld, Suite 200, Midland, Texas 79701 has filed NMOCD form C108 seeking administrative approval to convert the Pan American Federal # 1 API # 30-025-23155 located 1980 FSL x 660 FWL, Unit letter "L", Section 25, T25S, R33E, NMPM, Lea County, New Mexico from a plugged and abandoned oil well to a lease Delaware salt water disposal well. Disposal fluid would come from producing wells operated by Endeavor Energy Resources, LP in the area. The disposal interval would be the Delaware formation through perforations from 5150-6950 feet. Anticipated disposal rate is 500-3500 barrels of water per day. Anticipated disposal pressure is expected to be 250 psig with a maximum disposal pressure of 1030 psig. Well is located 19.9 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 Billy Prichard 432-934-7680.

Affidavit of Publication will be submitted when received.  
Will be published in the Hobbs Daily News Sun.

Exhibit "G"

**Endeavor Energy Resources, LP**  
**Pan American Federal # 001**  
**API # 30-025-23155**  
**40 acres tracts with 0.5 Mile AOR**

Unit Letter "L", Section 25, T25S, R33E Lea County, New Mexico  
 Surface Owner Bureau of Land Management  
 Mineral Owner Bureau of Land Management  
 Lessee Endeavor Energy Resources, LP  
**Sub Surface**

Section 36, T25S, R33E			
Unit Letter	Qtr, Qtr	Owner	Lessee
C	NE4NW4	NM	Daniel E. Sanchez PO Box 2475, Santa Fe, New Mexico 87504-2475
D	NW4NW4	NM	Daniel E. Sanchez PO Box 2475, Santa Fe, New Mexico 87504-2475
Section 35, T25S, R33E			
A	NE4NE4	***	
Section 26, T25S, R33E			
A	NE4NE4	NM	EOG Resources PO Box 2267, Midland, TX 79702'
G	SW4NE4	NM	EOG Resources PO Box 2267, Midland, TX 79702'
H	SE4NE4	NM	EOG Resources PO Box 2267, Midland, TX 79702'
I	NE4SE4	NM	EOG Resources PO Box 2267, Midland, TX 79702'
J	NW4SE4	NM	EOG Resources PO Box 2267, Midland, TX 79702'
O	SW4SE4	NM	EOG Resources PO Box 2267, Midland, TX 79702'
P	SE4SE4	NM	EOG Resources PO Box 2267, Midland, TX 79702'

**Exhibit "G"**

Section 25, T25S, 36E			
C	NE4NW4	BLM	Endeavor Energy Resources, LP
D	NW4NW4	BLM	Endeavor Energy Resources, LP
E	SW4NW4	BLM	Endeavor Energy Resources, LP
F	SE4NW4	BLM	Endeavor Energy Resources, LP
G	SW4NE4	BLM	Endeavor Energy Resources, LP
J	NW4SE4	BLM	Endeavor Energy Resources, LP
K	NE4SW4	BLM	Endeavor Energy Resources, LP
M	SW4SW4	BLM	Endeavor Energy Resources, LP
N	SE4SW4	BLM	Endeavor Energy Resources, LP
O	SW4SE4	BLM	Endeavor Energy Resources, LP

\*\*\*  
 Unit Letter A, Section 35, T25S, R33E  
 Mineral Owner > Community Bank of Raymore  
 927 Military  
 Baxter Springs, Kansas 66713  
 Lessee > Peregrine Production Company  
 PO Box 1844  
 Midland, TX 79702

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

BEP

**Endeavor Energy Resources, LP**  
**Pan American Federal # 001**  
**API # 30-025-23155**  
**1980 FSL X 660 FWL**  
**Unit Letter "L", Section 25, T25S, R33E**  
**Lea County, New Mexico**

United States of America  
Bureau of Land Management ✓  
2909 West Second Street  
Roswell, New Mexico 88201

1  
New Mexico State Land Office ✓  
PO Box 1148  
Santa Fe, New Mexico 87504

1  
Daniel E. Sanchez ✓  
PO Box 2475  
Santa Fe, New Mexico 87504

1  
Community Bank of Raymore ✓  
927 Military  
Baxter Springs, Kansas 66713

1  
Peregrine Production Company ✓  
PO Box 1844  
Midland, Texas 79702

1  
EOG Resources ✓  
PO Box 2267  
Midland, Texas 79702

1  
Newkumet Exploration, Inc. ✓  
PO Box 11330  
Midland, Texas 79702

1  
NMOCD  
District 1  
1625 N. French Drive  
Hobbs, New Mexico 88240

1  
NMOCD  
Engineering Bureau  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87504



7010 0780 0000 0765 3839  
7007 0710 0002 5069 8981

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City, State Midland, TX 79702  
PS Form 3800, August 2006 for Instructions

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Restricted Delivery Fee (Endorsement Required)	\$0.00		
Total Postage & Fees	\$ 6.83	05/09/2011	

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Street, Apt. or PO Box PO Box 1844  
City, State Midland, TX 79702  
PS Form 3800, August 2006 for Instructions

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Restricted Delivery Fee (Endorsement Required)	\$0.00		
Total Postage & Fees	\$ 6.83	05/09/2011	

Sent To Daniel E. Sanchez  
Street, Apt. No. or PO Box No. PO Box 2475  
City, State, ZIP+4 Santa Fe, NM 87504  
PS Form 3800, August 2006 for Instructions

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Total Postage & Fees	\$ 6.83	05/09/2011	

Sent To EOG Resources  
Street, Apt. No. or PO Box No. PO Box 2267  
City, State, ZIP+4 Midland, TX 79702  
PS Form 3800, August 2006 for Instructions

Exhibit "G"

7007 0710 0002 5069 8974  
7007 0710 0002 5069 9001

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Total Postage & Fees	\$ 6.83	05/09/2011

Sent To Community Bank of Raymore  
Street, Apt. or PO Box 1 927 Military  
City, State, Zip Baxter Springs, Kansas 66713

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Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 6.83	05/09/2011

Sent To New Mexico State Land Office  
Street, Apt. or PO Box No. Oil, Gas, Mineral Division  
City, State, Zip PO Box 1148  
Santa Fe, NM 87504-1148

PS Form 3800, August 2006 See Reverse for Instructions

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Certified Fee	\$2.85	02
Return Receipt Fee (Endorsement Required)	\$2.30	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 6.83	05/09/2011

Sent District 1  
Street, Apt. or PO Box New Mexico Oil Conservation Division  
City, State, Zip 1625 N French Dr  
Hobbs, NM 88240-9273

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Return Receipt Fee (Endorsement Required)	\$2.30	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$ 6.83	05/09/2011

Sent BUREAU OF LAND MANAGEMENT  
Street, Apt. or PO Box No. 2909 W 2ND ST  
City, State, Zip ROSWELL NM 88201

PS Form 3800, August 2006 See Reverse for Instructions

Exhibit "G"

RECEIVED OCD

Pueblo West  
125 Greathouse Village  
Decatur, TX 76234

2011 MAY 27 P 2:51 May 25, 2011

NMOCD  
1220 South St. Francis Drive  
Santa Fe, NM 87504

Will, enclosed is the original Affidavit of Publication for the recently submitted C108 for Endeavor Energy Resources, LP. API # 30-025-23155

Thanks

A handwritten signature in black ink, appearing to read "Billy E. Prichard". The signature is fluid and cursive, with a large loop at the end.

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

# 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

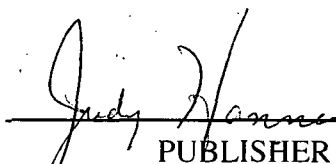
of 1 issue(s).

Beginning with the issue dated

May 13, 2011

and ending with the issue dated

May 13, 2011.

  
PUBLISHER

Sworn and subscribed to before me

this 17th day of

May, 2011

  
Notary Public

My commission expires

February 09, 2013

(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 MAY 13, 2011

Endeavor Energy Resources, LP, 110 North Marienfeld, Suite 200, Midland, Texas 79701 has filed NMOCD form C108 seeking administrative approval to convert the Pan American Federal # 1 API # 30-025-23155 located 1980 FSL x 660 FWL, Unit letter "L", Section 25, T25S, R33E, NMMP, Lea County, New Mexico from a plugged and abandoned oil well to a lease Delaware salt water disposal well. Disposal fluid would come from producing wells operated by Endeavor Energy Resources, LP in the area. The disposal interval would be the Delaware formation through perforations from 5150-6950 feet. Anticipated disposal rate is 500-3500 barrels of water per day. Anticipated disposal pressure is expected to be 250 psig with a maximum disposal pressure of 1030 psig. Well is located 19.9 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 Billy Prichard 432-934-7680.  
#26590

02107812

00072419

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

**Jones, William V., EMNRD**

---

**From:** Jones, William V., EMNRD  
**Sent:** Monday, June 27, 2011 4:46 PM  
**To:** 'billy@pwillc.net'  
**Cc:** Ezeanyim, Richard, EMNRD; Gonzales, Elidio L, EMNRD  
**Subject:** Disposal application from Endeavor Energy Resources, LP: Pan American Federal #1 30-025-23155 Delaware

Hello Bill:

Just reviewed this application – very well done, thank you!

Only a couple things,

- a. Please let me know where the bottom of the Delaware is in this area. ✓
- b. ~~How does Endeavor~~ plan to test the productivity of the deeper Delaware? ✓
- c. The Rule 5.9 inactive wells show 6/130 so are one too many to release SWD permits. Let me know if Endeavor has contacted Daniel Sanchez here in this office concerning this and when it expects to come back into compliance with Rule 5.9.

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



Waiting Still  
OK 02 of 10/2/11 (2/130)

**Jones, William V., EMNRD**

---

**From:** billy@pwllc.net  
**Sent:** Tuesday, July 12, 2011 11:41 AM  
**To:** Jones, William V., EMNRD  
**Cc:** Ezeanyim, Richard, EMNRD; Gonzales, Elidio L, EMNRD; Sanchez, Daniel J., EMNRD  
**Subject:** RE: Disposal application from Endeavor Energy Resources, LP: Pan American Federal #1 30-025-23155 Delaware

Will, In answer to your below email.

a. Looking at offset wells in the area, it appears that the bottom of the Delaware is 9000ft + or -.

b. This plugged and abandon well was chosen as potential SWD due to Endeavor's lease hold and the close proximity to the EOG well the Lomas Rojas 26 State #6 (API # 30-025-39705) SWD -1237 which is only 2573ft from our proposed SWD. Here is note on the evaluation of the logs on the Lomas Rojas 26 State #6 SWD application.

**4. I have reviewed the open hole logs and the mud logs from 5000 to 7000' (proposed SWD perfs 5159' - 6928). From my evaluation, my opinion is that there is no potential for oil and gas production from these zones. I believe they will produce 100% water. Log calculations show all of these intervals to be very wet. Water saturations are very high, as Joe Villallobos stated in his email. When you look at the resistivity log, the deep resistivity is commonly 1-2 ohms, which based upon my experience, is 100% water. I calculated water saturations on many of the zones between 5700-7000', and they were all in the range of 55%-65%.**

Well could be perforated and swab tested prior to the start of disposal operations.

c. Endeavor has a plugging commitment with JB Well Services to plug and abandon several inactive wells to bring them in to compliance with Rule 5.9. Attached is plugging commitment letter from JB well service. Please call , email or text if you need further information.

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 Endeavor Energy Resources, LP: Pan American Federal #1 30-025-23155 Delaware

**Jones, William V., EMNRD**

---

**From:** billy@pwllc.net  
**Sent:** Friday, October 07, 2011 2:03 PM  
**To:** Jones, William V., EMNRD  
**Subject:** RE: Disposal application from Endeavor Energy Resources, LP: Pan American Federal #1 30-025-23155 Delaware

Will, Would you take another look at the Endeavor In-Active list, I believe them to be in compliance for the approval of the SWD permit application for the Pan American Federal # 1 (30-025-23155). 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)

*Yes, OK*

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

**Subject:** RE: Disposal application from Endeavor Energy Resources, LP:  
Pan American Federal #1 30-025-23155 Delaware  
**From:** "Jones, William V., EMNRD" <[William.V.Jones@state.nm.us](mailto:William.V.Jones@state.nm.us)>  
**Date:** Tue, July 12, 2011 10:50 am  
**To:** "[billy@pwllc.net](mailto:billy@pwllc.net)" <[billy@pwllc.net](mailto:billy@pwllc.net)>  
**Cc:** "Gonzales, Elidio L, EMNRD" <[ElidioL.Gonzales@state.nm.us](mailto:ElidioL.Gonzales@state.nm.us)>, "Sanchez, Daniel J., EMNRD" <[daniel.sanchez@state.nm.us](mailto:daniel.sanchez@state.nm.us)>, "Ezeanyim, Richard, EMNRD" <[richard.ezeanyim@state.nm.us](mailto:richard.ezeanyim@state.nm.us)>

Thanks Bill, for the information,  
I think I know Joe Villalobos – worked with him before.

Send me another email to let me know when all Rule 5.9 for Endeavor Energy is OK and I can pull this one out of the stack.

If it is before 6 months from the last notice date, we likely won't require re-noticing.

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

---

**From:** [billy@pwllc.net](mailto:billy@pwllc.net) [<mailto:billy@pwllc.net>]  
**Sent:** Tuesday, July 12, 2011 11:41 AM  
**To:** Jones, William V., EMNRD  
**Cc:** Ezeanyim, Richard, EMNRD; Gonzales, Elidio L, EMNRD; Sanchez, Daniel J., EMNRD  
**Subject:** RE: Disposal application from Endeavor Energy Resources, LP: Pan American Federal #1 30-025-23155 Delaware

Will, In answer to your below email.

a. Looking at offset wells in the area, it appears that the bottom of the Delaware is 9000ft + or -.

To whom it may concern,

J & B Well Servicing has been contracted to plug the following wells:

New Mexico BW #5  
API # 30-005-10084

New Mexico BW #7  
API # 30-005-20957

Swearingen D #1  
API # 30-041-20410

Conoco #3  
API # 30-005-20844

State 22 #2  
API # 30-005-21009

J & B Well Servicing will start plugging the first well late July or early August of 2011.

Bobby Stearns  
575-675-2356  
[bobbystearns1@yahoo.com](mailto:bobbystearns1@yahoo.com)



## Injection Permit Checklist (11/15/2019)

WFX \_\_\_\_\_ PMX \_\_\_\_\_ SWD 1304 Permit Date 10/7/11 UIC Qtr 6(10)D# Wells 1 Well Name(s): PAN AMERICAN Federal #1API Num: 30-0 25-23155 Spud Date: 5/13/69 New/Old: 0 (UIC primacy March 7, 1982)Footages 1980 FSL/660 FWL Unit L Sec 25 Tsp 25S Rge 33E County LEAGeneral Location: 20 mi West of TALOperator: ENDAVOR ENERGY RESOURCES, LP Contact BILLY PRICHARDOGRID: 190595 RULE 5.9 Compliance (Wells) 6/130 (Finan Assur) OK IS 5.9 OK? ✓Well File Reviewed ✓ Current Status: P&A Late '60'sPlanned Work to Well: Re-enter, Deepen, LOG, CSG, Perf, inj.Diagrams: Before Conversion ✓ After Conversion \_\_\_\_\_ Elogs in Imaging File: WJL Run LOGS

Well Details:		Sizes Hole.....Pipe	Setting Depths	Stage Tool	Cement Sx or Cf	Determination Method
New ___ Existing <u>✓</u>	<u>Surface</u>	<u>12 1/2 8 5/8</u>	<u>506</u>	<u>—</u>	<u>350</u>	<u>CIRC</u>
New ___ Existing ___	<u>Interm</u>					
New ___ Existing <u>✓</u>	<u>LongSt</u>	<u>7 7/8 Hole</u>	<u>To 5300'</u>	<u>NO CASING RUN</u>		
<u>✓</u> New ___ Existing ___	<u>Liner</u>	<u>7 7/8 5 1/2</u>	<u>7050</u>			<u>Plan to CIRC</u>
New ___ Existing ___	<u>OpenHole</u>					

Depths/Formations: Depths, Ft. Formation Tops?

Formation(s) Above	<u>5160</u>	<u>RAMSEY</u>	<u>✓</u>
Injection TOP:	<u>5150</u>	<u>DEL.</u>	Max. PSI <u>1030</u> OpenHole ___ Perfs <u>✓</u>
Injection BOTTOM:	<u>6950</u>	<u>DEL.</u>	Tubing Size ___ Packer Depth ___
Formation(s) Below	<u>7000</u>	<u>(BS)</u>	<u>✓</u>

Capitan Reef? (Potash?) Noticed? — WHPP? — Noticed? — Salado Top/Bot (1180—) Cliff House? —Fresh Water: Depths: <600' Formation TRINISIC Wells? yes Analysis? ✓ Affirmative Statement ✓Disposal Fluid Analysis? ✓ Sources: From 2 Endavor Energy WellsDisposal Interval: Analysis? ✓ Production Potential/Testing: (LOG analysis done)Notice: Newspaper Date 5/13/11 Surface Owner BLM Mineral Owner(s) BLM/SLORULE 26.7(A) Affected Persons: Sent 5/9/11 See LISTAOR: Maps? ✓ Well List? ✓ Producing in Interval? NO Wellbore Diagrams? ✓.....Active Wells 3 Repairs? 0 Which Wells? —.....P&A Wells 1 Repairs? 0 Which Wells? —Issues: A35 DU 1101 Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_