BEFORE THE OIL CONSERVATION DIVISION NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

IN THE MATTER OF THE APPLICATION INC. OF SDX **RESOURCES**, FOR **APPROVAL** OF A WATERFLOOD PROJECT, EDDY COUNTY, NEW MEXICO.

CASE NO. 13923

AFFIDAVIT

STATE OF NEW MEXICO)) SS. COUNTY OF SANTA FE)

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Ocean Munds-Dry, attorney in fact and authorized representative of SDX Resources, Inc., the Applicant herein, states that notice of the above-referenced Application was mailed to the interested parties shown on Exhibit "A" attached hereto in accordance with Oil Conservation Division Rules, and that true and correct copies of the notice letter and proof of notice are attached hereto.

Ocean Munds-Drv

SUBSCRIBED AND SWORN to before me this 25th day of JU 2007 by Ocean Munds-Dry.

Notary Public

My Commission Expires: 5 - 10 - 08

BEFORE THE OIL CONSERVATION DIVISON Santa Fe, New Mexico Case No. <u>13923</u>....Exhibit No. 12 Submitted by: SDX Resources, Inc. Hearing Date: July 26, 2007





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Ocean Munds-Dry Associate omundsdry@hollandhart.com

June 25, 2007

<u>CERTIFIED MAIL</u> RETURN RECEIPT REQUESTED

AFFECTED INTEREST OWNERS

Re: Application of SDX Resources Inc. for Approval of a Waterflood Project, Eddy County, New Mexico.

Ladies and Gentlemen:

This letter is to advise you that SDX Resources, Inc. has filed the enclosed application with the New Mexico Oil Conservation Division seeking authority to implement secondary recovery operations in its proposed project waterflood area. A copy of this application with attached Oil Conservation Division Form C-108 is enclosed for your information.

This application has been set for hearing before a Division Examiner at 8:15 a.m. on July 26, 2007. The hearing will be held in Porter Hall in the Oil Conservation Division's Santa Fe Offices located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging the matter at a later date.

Parties appearing in cases are required by Division Rule 1208.B to file a Pre-hearing Statement four days in advance of a scheduled hearing. This statement must be filed at the Division's Santa Fe office at the above specified address and should include: the names of the parties and their attorneys; a concise statement of the case; the names of all witnesses the party will call to testify at the hearing; the approximate time the party will need to present its case; and identification of any procedural matters that are to be resolved prior to the hearing.

Very truly yours, Ocean Munds-Drv

ATTORNEY FOR SDX RESOURCES, INC.

Enclosures

Phone [505] 988-4421 Fax (505) 983-6043 www.hollandhart.com

110 North Guadalupe Suite L. Santa Fe, NM: 87501 - H<mark>ailing Address</mark>, P.O. Box, 2208, Santa Fe, NM: 87504-2208 Aspen Billings Boise Boulder Cheyenne Culorado Springs Denver Denver Tech Center Tackson Hole, Salt Lake City, Santa Fe, Washington, D.C. - 🔿

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE APPLICATION OF SDX RESOURCES, INC. FOR APPROVAL OF A WATERFLOOD PROJECT EDDY COUNTY, NEW MEXICO.

CASE NO.

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APPLICATION

SDX Resources, Inc. ("SDX") through its attorneys, Holland & Hart, LLP, hereby makes application for an order approving a secondary recovery project for the injection of water into the Queen, Grayburg, San Andres formations, Artesia Queen-Grayburg-San Andres Pool, and in support thereof states:

1. SDX seeks approval of a waterflood project and authorization to implement secondary recovery operations in this area by the injection of water into the Queen, Grayburg, San Andres formation, Artesia Queen-Grayburg-San Andres Pool. A copy of SDX's Application for Authorization to Inject (Division Form C-108) through one injection well in the proposed waterflood project area is attached hereto as <u>Exhibit</u>

<u>A.</u>

2. The boundaries of the proposed waterflood project area coincide with the boundaries of the leases and include the following acreage in Lea County, New Mexico:

TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM

Section 32: Section 29: Section 31: NE/ 4, SW/4 SE/4 SE/4 E/2 E/2

TOWNSHIP 18 SOUTH, RANGE 28 EAST, NMPM

Section 6: NE/

NE/4 NE/4

3. Applicant requests that the Division establish a procedure for the administrative approval of additional injection wells within the project area without the necessity for further hearings.

4. Notice of this application has been provided to the owner of the surface of the land on which each proposed injection well is to be located and to each leasehold operator within one-half mile of each injection well location and these owners are identified on the Notice List attached to this application as **Exhibit B**.

6. Approval of this application will afford SDX the opportunity to produce its just and equitable share of the remaining reserves in the Artesia Queen-Grayburg-San Andres Pool and will otherwise be in the best interest of the conservation, the protection of correlative rights and the prevention of waste.

WHEREFORE, SDX Resources, Inc. requests that this matter be set for hearing before a duly appointed Examiner of the Oil Conservation Division on May 24, 2007 and after notice and hearing as required by law, the Division enter its Order granting this application.

Respectfully submitted,

HOLLAND & HART LLP

Bv:

WILLIAM F. CARR OCEAN MUNDS-DRY Post Office Box 2208 Santa Fe, New Mexico 87504 Telephone: (505) 988-4421

ATTORNEYS FOR SDX RESOURCES, INC.

EXHIBIT B

SDX RESOURCES, INC. WATERFLOOD PROJECT EDDY COUNTY, NEW MEXICO

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SURFACE OWNERS

Marbob Energy Corporation P.O. Box 227 Artesia, New Mexico 88211

OFFSET OPERATORS

BP Amoco (Altura/Arco Permian) 200 N. Loraine Suite 1220 Midland, Texas 79701

Marbob Energy Corporation P.O. Box 227 Artesia, New Mexico 88211

Hanson Energy P.O. Box 1348 Artesia, New Mexico 88210

Mewbourne oil Co. P.O. Box 5270 Hobbs, New Mexico 88241

Þ STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL **RESOURCES DEPARTMENT**

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

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**FORM C-108** Revised June 10, 2003

#### **APPLICATION FOR AUTHORIZATION TO INJECT**

| _      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| L      | PURPOSE:       XScondary Recovery       Pressure Maintenance       Disposal       Storage         Application qualifies for administrative approval?       Yes       No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |
| П.     | OPERATOR:SDX Resources, Iuc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |
|        | ADDRESS:PO Box 5061, Midland, TX 79704                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |
|        | CONTACT PARTY:Chuck MorganPHONE:432-685-1761                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |
| Ш.     | WELL DATA; Complete the data required on the reverse side of this form for each well proposed for injection.<br>Additional sheets may be attached if necessary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |
| ΓV.    | Is this an expansion of an existing project?YesXNo<br>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.<br>Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a<br>schematic of any plugged well illustrating all plugging detail.                                                                                                                                                                                                                                                                                                                      |  |  |  |  |
| VII.   | Attach data on the proposed operation, including:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |
|        | <ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,</li> <li>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.).</li> </ol> |  |  |  |  |
| *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:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |
|        | SIGNATURE: DATE: DATE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |
| •      | E-MAIL ADDRESS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |

EXHIBIT A

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#### III. WELL DATA

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

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

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

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
  - (1) The name of the injection formation and, if applicable, the field or pool name.
  - (2) The injection interval and whether it is perforated or open-hole.
  - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
  - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
  - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

#### XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

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

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

#### SDX Resources, Inc. New Mexico Oil Conservation Division Form C-108 "Application for Authorization to Inject"

- RE: NW State #8, 1090' FSL, 2126' FWL, Sec 32, T17S, R28E Eddy Co., New Mexico
  - I. SDX plans to convert the above referenced well to an injection well in the Artesia, Queen/Grayburg/San Andres pool.
  - II. Operator: SDX Resources, Inc., PO Box 5061, Midland, TX 79704
  - III. Well Data: Please see "Well Data Sheet" attached.
  - IV. This is not an expansion of an existing project.
  - V. Map attached designating: ½ mile radius of review and 2 mile radius.
  - VI. There are twenty-one wells within the area of review which penetrate the proposed injection zone, ½ mile review area "Well Tabulation" attached.
  - VII. Proposed average daily injection volume: 500 bbls per day. This will be a closed system. Proposed average injection pressure is estimated @ 300 psi. The proposed maximum injection pressure is 500 psi (to be increased by step rate at a later date). Formation water analysis is attached.
  - VIII. The Queen/Grayburg/San Andres formation(s) consist of dolomite and sandstones with alternating beds of silty to sandy dolomite and gray arkosic sandstones. Generally the gross thickness of the Grayburg ranges from 300 to 400' thick and the San Andres ranges from 350 - 400' thick. Both of these zones are actively flooded in the area with positive response. There are no known sources of drinking water underlying the proposed injection interval. Limited fresh water zones overlie the proposed injection zone at approximately 150'.
  - IX. The proposed injection interval may be acidized with 15% HCL acid.
  - X. Well logs are on file with the Oil Conservation Division.
  - XI. No fresh water wells are within a ½ mile radius.
  - XII. Geologic and engineering data have been examined and no evidence of open faults or any other hydrological connection between the injection zone and any fresh water aquifer has been found.
  - XIII. Copies of the Oil Conservation Division Form C-108, the Well Data Sheet and map have been sent to the offset operators, surface owner(s) as per the listing attached.

A copy of the Legal Notice as published in the Artesia Daily News is attached to this filing.

#### "Well Data Sheet" SDX Resources, Inc. Form C-108 "Application for Authorization to Inject"

#### NW State #8

- A. (1) Unit Letter N, Section 32, T17S, R28E, 1090' FSL, 2126' FWL Eddy County, New Mexico
  - (2) Casing: 8-5/8" @ 461' w/350 sx Cl C circulated to surface 5-1/2" @ 3302' w/600 sx Lite & Cl C - circulated to surface 2-3/8" tubing & packer to be set within 100' of top perforation Status of well is producing
- B. (1) Injection Formation: San Andres

- (2) Injection interval will be through perforations @ 2523' 2859'
- (3) Well was drilled and completed as a producer in the Artesia (Queen/Grayburg/San Andres) pool
- (4) Initial perforations same as above
- (5) Next shallow oil or gas zone: Queen Next deeper oil or gas zone: Abo

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P.10 14 '06 10:4 T FAX 9020FX P.5 Į. SEP # ór WELL NAME: Northmast Artesia Unit 71/3 FIELD AREA: Artasia LOCATION: Sec. 32 TITS R 28E 990 FSL + 2030 -\_\_\_\_' ZĘRO: GL: \_\_\_\_ ' AGL: KB:3617 ' ORIG. ORLG./COMPL. DATE: CASING PROGRAM: COMMENTS: APZ # 30-015-10 834 SIZE/WT. / GR. / CONN DEPTH SE 424-H-46 14-25 1766 49 10 st suffred plug 44 -55 46 1966 Tag Phy \$ 160-5£°24-25# The what she supported the Part@543 592 40 st. plug P.A 10/2006 · 73 hole Tag plug @ 998' spat 25 sk plug 45 - 11.6# 5.55 cmt. w/175 ses, sulso poz From 1300-Part 1243 hald 1500# TUC 1242 (cole. ,75% off) Tops : vata s 346 7-15 607 qn 1193 66 1640 sħ 1958 25 sk. plug From 1856 CIBP @ 1856 1921-26 acidiand + Fraid 1952-54 2003 -

OCATION: Wait "H" 2310 FSF+2105 FWL Sec. 32 TITS A28 E Eddy Co المعر ' ZERO: \_\_\_\_' AGL: CASING PROGRAM: B: 317 ORIG. DRLG. /COMPL. DATE: SIZE/WY./GR./CONN. DEPTH SET OMMENTS: Artobo 15sts 510 To Sufface est. TUC 60 Tag plug @ 200-- 11 hole 85 24 c.t. TOC CAR. Surface @ 75% 11 A462 report states comment did not cont. Bif @512 SQZ 70 st. plug est. TOC @60; -78 hule -45= 11.6# J-55 cmit. w/ 175sks, 50/50 POZ P.A 11/2006 Tag plug 1080 -Parf@1200 - SQZ 35 SK plug TOC CALC. @ 75% 1241 Tups: : Jates - 346-7-A'o - 612-9~ - 1190-66 - 1625 -SA - 1938 -SA -25 sk plug From 1800 CIBP 21800 ROSTING CIBP @1800 10 SIV Ward and 1898 - 1908 Ports acidized & Frac'd 1930 - 1934 - Ports acidized & Frac'd 2002 - SKETCH NOT TO SCALE -REVISED: 4/2007

オシ HELL NAME: <u>Empire Abo Unit E-27</u>FIELD AREA: <u>Empire Abo</u> LOCATION: <u>Sec. 32 TI75 B28E "B" 990 FNL 1900 FEL Eddy C. N.M</u> GL: \_\_\_\_' ZERO: \_\_\_\_' AGL: \_\_\_\_ KB: \_\_\_\_ ORIG. DRLG./COMPL. DATE: \_\_\_\_ CASING PROGRAM: SIZE/WT./GR./CONN. DEPTH SET COMMENTS: Bot 60's circle to suite ce Tag phy @ 300-Asit 4350 SQ2 - 35545 - 85 24# cmt. w/175.5+ 994-Pait 1054 & SQ2 - 35 SAr. -73=hola - 43= 11.6# cmt. ~/820 \$\$. TUC Est. 1428' (75 x . ft) - POA 3/2003 25 5x3 From 3360 Part 3360 + hald a.K. 25 SXS. From 5820-CIBP @ 5820-Parts 5903-6074-6146 - SKETCH NOT TO SCALE -REVISED:

1 WELL NAME: NW Stato # 8 FIELD AREA: Artesin-Qn-Gb-SA "N" 1090 FSL 2126 FWL LOCATION: Sec. 32 TITS R28E GL: 3668 ZERO: \_\_\_\_ AGL: KB: \_\_\_\_' ORIG. DRLG./COMPL. DATE: CASING PROGRAM: SIZE/WY./GR./CONN. DEPTH SET COMMENTS: -12ty = hole 85 350 SXS. circulated 1461--73= hole 53 = 15.5# J-55 600 Sts. circulated "Present Condition". 23 + + 69. Parts 2523 - 2859 3303

- SKETCH NOT TO SCALE -

REVISED: 4507

-2 | WELL NAME: NW Stato # 8 FIELD AREA: <u>Artasia-Qa-Gb-SA</u> "N" 1090 FSL 2126 FWL LOCATION: Sec. 32 TITS A28E GL: 3669 ZERO: \_\_\_\_' AGL: \_\_\_\_' KB: \_\_\_\_\_ ORIG. ORLG./COMPL. DATE: CASING PROGRAM: SIZE/WT./GR./CONN. DEPTH SET COMMENTS: -12t = hole 8 \$ "J-55 24 # 461--73 = hole. -53 = 15.5# J-55 600 Sts. circulated -23 = P.C. + by. 53 - AD-1 P.C. Packer 02450 Paifs 2523 - 2859 3302

- SKETCH NOT TO SCALE -

REVISED: 4/5/07



SDX Resources, Inc. NW State #8 1090' FSL 2126' FWL Sec 32, T17S, R28E Eddy Co., NM -

#### 1/2 Mile Radius of Review - Offsetting Operators:

BP Amoco (Altura/Arco Permian) 200 N Loraine, Ste 1220 Midland, TX 79701

Marbob Energy PO Box 227 Artesia, NM 88211

Hanson Energy PO Box 1348 Artesia, NM 88210

Mewbourne Oil Co PO Box 5270 Hobbs, NM 88241

#### Surface Owner:

Marbob Energy PO Box 227 Artesia, NM 88211

Copies of the Oil Conservation Division Form C-108 "Application for Authorization to Inject", Well Data Sheet and map have been sent by certified mail to the above stated parties on this the  $16^{\pm 6}$  day of April, 2007.

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

#### Legal Notice Publication Artesia Daily Press

SDX Resources, Inc., 511 W. Ohio, Ste 601, PO Box 5061, Midland, TX 79704, contact: Chuck Morgan (432)685-1761 is seeking administrative approval from the New Mexico Oil Conservation Division to complete the following well for fluid injection: NW State #8 located in Sec 32, T17S, R28E, 1090' FSL 2126' FWL, Eddy County. Proposed injection interval is the San Andres formation with perforations from 2523' - 2859' with a maximum daily injection volume of produced formation water at 500 bbls per day with a maximum injection pressure of 500#. Interested parties must file objections or request for hearing with the New Mexico Oil Conservation Division, 2040 S Pacheco, Santa Fe, New Mexico 87505 within 15 days of this notice.

| MURE A DEPTH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 24 YE 20 (Qu                                                                   | ality Or the                                                                                                                                                                                                                                   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| RO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Lawrol- St                                                                     | Tejon St. Sun-Sh"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Hanson Ener                         | Lavers Conference                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -State - 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| Angeni AGS WIKEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3-1_4_ 9-27-2005                                                               | Carling Ever O'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Stew Mack En.                       | E-9261 (00. 414)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Pipili - 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| TD2000 R.Westal!   8-968)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | guilde 100760                                                                  | Hop 647 H. duest                                                                                                                                                                                                                               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| TD2000 R. Westa !! (8 968)<br>1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | g Maria (08760<br>Bara (Cinifra<br>Lourei) E. can<br>Corp.                     | Hap Ear H. drest<br>Fulfon B. Banneth<br>(Roych) B. Banneth<br>(Roych) E. Ba                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| TB2000 R.Westall (8 910)<br>TB2000 R.Westall (8 910)<br>TB2000 Cites<br>(B2310 III)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | g Markes   08 760<br>TEram (Charling<br>Lourel ) S. con<br>Corp.<br>HBP E-7175 | HAP EAT H. drest                                                                                                                                                                                                                               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E<br>1 1 3 14 16 1 E | B-11540 5<br>Welrow C per:<br>120 Wewbou<br>120 Wewbou<br>120 Wewbou<br>120 Wewbou<br>120 Metrow<br>120 Metrow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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04/23/2007 MON 14:56 [TX/RX NO 7065] 20011

Eddy C, N.M. **井14** # FSLA: 1609 FEL GL: 3669 ' ZERO: \_\_\_\_' AGL: \_\_\_\_ KB: \_\_\_\_' ORIG. DRLG./COMPL. DATE: CASING PROGRAM: . SIZE/WT./GR./CONN. COMMENTS: DEPTH SET 19 st. sustain plug 0-60 175 hole 428-135 485 Long Cont. w/ 400 skr. a circulated . 428-19 st. plug 450-340 PoA 10/18/2005 - 12th Thule 2660 - 95 - 407 2660 - 95 - 407 Emt. w/1100 sts, & circlotod 2660' 4 5+3. 3412 - 3314 -42 545. 5568-5468-42 585. 7049-6949-51 545. 4338- 4238-42 5.45, 10041-9941-T.D. 10,400

- SKETCH NOT TO SCALE -

REVISED:

04/23/2007 MON 14:56 [TX/RX NO 7065] 2014

# **Pro-Kem, Inc.** WATER ANALYSIS REPORT

1. \*\*

SAMPLE

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| Oil Co.<br>Lease<br>Well No.<br>Lab No.     | : SDX Resources<br>: N.W. St.<br>: # 1<br>: F;\ANALYSES\Jul0999.001<br>.VCTC                            | Sample Loc. :<br>Date Analyzed:<br>Date Sampled : | 09-July-1999<br>01-July-1999                             |                                            |               |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|--------------------------------------------|---------------|
| MINUI                                       | 11979                                                                                                   |                                                   | i                                                        |                                            |               |
| 1.<br>2.<br>3.                              | pH 5.<br>Specific Gravity 60/60 F. 1.<br>CaCO <sub>3</sub> Saturation Index @ 80 F.                     | 950<br>118<br>-0.029                              |                                                          |                                            |               |
| D                                           | issolved Gasses                                                                                         | MG/L                                              | EQ. WT.                                                  | *MEQ/L                                     |               |
| 4.<br>5.                                    | Hydrogen Sulfide<br>Carbon Dioxide<br>Dissolved Oxygen Not                                              | 10<br>160<br>Determined                           |                                                          |                                            |               |
| 7.<br>8.<br>9.<br>10.                       | Calcium (Ca++)<br>Magnesium (Mg++)<br>Sodium (Na+) (Calculated<br>Barium (Ba++) Not                     | 2,341<br>741<br>) 60,071<br>Determined            | / 20.1 =<br>/ 12.2 =<br>/ 23.0 =                         | 116.47<br>60.74<br>2,611.78                |               |
| <u>A</u><br>11.<br>12.<br>13.<br>14.<br>15. | nions<br>Hydroxyl (OH~)<br>Carbonate (CO3=)<br>Bicarbonate (HCO3-)<br>Sulfate (SO4=)<br>Chloride (C1-)  | 0<br>0<br>1,098<br>4,500<br>94,979                | / 17.0 =<br>/ 30.0 =<br>/ 61.1 =<br>/ 48.8 =<br>/ 35.5 = | 0.00<br>0.00<br>17.97<br>92.21<br>2,675.46 |               |
| 16.<br>17.<br>18.<br>19.                    | Total Dissolved Solids<br>Total Iron (Fe)<br>Total Hardness As CaCO3<br>Resistivity @ 75 F. (Calculated | 163,730<br>8,898<br>1) 0.028 /cm.                 | / 18.2 =                                                 | 0.38                                       |               |
|                                             | LOGARITHMIC WATER PATTERN<br>*meq/L.                                                                    | PROBI<br>COMPOUND                                 | ABLE MINERAL<br>EQ. WT.                                  | L COMPOSIT<br>X *meg/L =                   | ION<br>mg/L.  |
| Na                                          |                                                                                                         | Ca (HCO3)                                         | 2 81.04                                                  | 17.97                                      | 1,456         |
| Ca                                          |                                                                                                         | CaSO4                                             | 68.07                                                    | 92.21                                      | 6,277         |
| Mg                                          |                                                                                                         | CaCl <sub>2</sub>                                 | 55.50                                                    | 6.28                                       | 349           |
| Fe 1000                                     |                                                                                                         | Mg(HCO3)                                          | 2 73.17                                                  | 0.00                                       | 0             |
| Cal                                         | cium Sulfate Solubility Profile                                                                         | MgSO4                                             | 60.19                                                    | 0.00                                       | 0             |
|                                             |                                                                                                         | MgCL <sub>2</sub>                                 | 47.62                                                    | 60.74                                      | 2,892         |
|                                             |                                                                                                         | NaHCO3                                            | 84.00                                                    | 0.00                                       | 0             |
| Ľ                                           |                                                                                                         | NaSO4                                             | 71.03                                                    | 0.00                                       | 0             |
| T.<br>Chis wa                               | ter is somewhat corrosive due to                                                                        | NaCl<br>*Mill                                     | 58.46<br>Li Equivaler                                    | 2,608.44 1<br>1 <b>ts per Li</b>           | 52,490<br>ter |

The corrosivity is increased by the content of mineral salts, and the presence of H2S, CO2 in solution. -----

# Pro-Kem, Inc.

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# WATER ANALYSIS REPORT

# SAMPLE

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| Oil Co. :<br>Lease :<br>Well No. :<br>Lab No. : | SDX Resources<br>N.W. St.<br>Injection Plant<br>F:\ANALYSES\Oct1601.001                                  | Sample Loc. :<br>Date Analyzed: 10<br>Date Sampled : 20 | 5-October-20<br>5-September-                   | 01<br>2001                                 |               |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------|--------------------------------------------|---------------|
| ANAI                                            | YSIS                                                                                                     |                                                         |                                                |                                            |               |
| 1.<br>2.<br>3.                                  | pH<br>Specific Gravity 60/60 F. 1.<br>CaCO <sub>3</sub> Saturation Index @ 80 F.<br>@ 140 F              | 500<br>128<br>+1.737<br>+2.597                          |                                                |                                            |               |
| D                                               | issolved Gasses                                                                                          | MG/L                                                    | EQ. WT.                                        | *MEQ/L                                     |               |
| 4.<br>5.<br>6.                                  | Hydrogen Sulfide<br>Carbon Dioxide Not<br>Dissolved Oxygen Not                                           | 10<br>Determined<br>Determined                          |                                                |                                            |               |
| Ca                                              | ations                                                                                                   |                                                         |                                                |                                            |               |
| 7.<br>8.<br>9.<br>10.                           | Calcium (Ca++)<br>Magnesium (Mg++)<br>Sodium (Na+) (Calculated)<br>Barium (Ba++) Not                     | 3,339 /<br>1,331 /<br>63,599 /<br>Determined            | 20.1 =<br>12.2 =<br>23.0 =                     | 166.12<br>109.10<br>2,765.17               |               |
| A                                               | nions                                                                                                    |                                                         |                                                |                                            |               |
| 11.<br>12.<br>13.<br>14.<br>15.                 | Hydroxyl $(OH^-)$ Carbonate $(CO_3^-)$ Bicarbonate $(HCO_3^-)$ Sulfate $(SO_4^-)$ Chloride $(C1^-)$      | 0<br>781<br>3,300<br>104,976                            | 17.0 =<br>30.0 =<br>61.1 =<br>48.8 =<br>35.5 = | 0.00<br>0.00<br>12.78<br>67.62<br>2,957.07 |               |
| 16.<br>17.<br>18.<br>19.                        | Total Dissolved Solids<br>Total Iron (Fe)<br>Total Hardness As CaCO3<br>Resistivity @ 75 F. (Calculated) | 177,326<br>9 /<br>13,816<br>0.016 /cm.                  | 18.2 =                                         | 0.49                                       |               |
|                                                 | LOGARITHMIC WATER PATTERN                                                                                | PROBAB                                                  | LE MINERAL                                     | COMPOSIT                                   | TION          |
| Na 📕                                            |                                                                                                          | Ca (HCO3) 2                                             | 81.04                                          | 12.78                                      | 1,036         |
| Ca 🖁                                            |                                                                                                          | CaSO4                                                   | 68,07                                          | 67.62                                      | 4,603         |
| Mg                                              |                                                                                                          | CaCl <sub>2</sub>                                       | 55.50                                          | 85.71                                      | 4,757         |
| Fe 1                                            |                                                                                                          | Mg (HCO3) 2                                             | 73.17                                          | 0.00                                       | 0             |
| Calc                                            | cium Sulfate Solubility Profile                                                                          | MgSO4                                                   | 60.19                                          | 0.00                                       | 0             |
| 1                                               | 8788                                                                                                     | MgCL <sub>2</sub>                                       | 47.62                                          | 109.10                                     | 5,195         |
| • 1                                             | 9789                                                                                                     | NaHCO3                                                  | 84.00                                          | 0.00                                       | 0             |
| Ĺ                                               |                                                                                                          | NaSO4                                                   | 71.03                                          | 0.00                                       | 0             |
| t<br>tene<br>Tene                               | 7737<br>7726<br>772. 50 70. 60 110 150 150 170<br>70. 50 71 01 01 01 01 01 01 01 01 01 01 01 01 01       | NaCl<br>*Milli                                          | 58.46 2<br>Equivalen                           | 2,762.26 1<br>Its per Li                   | 61,482<br>ter |

This water is mildly corrosive due to the pH observed on analysis. The corrosivity is increased by the content of mineral salts, and the presence of H2S in solution.



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# EXHIBIT A

Notice List:

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New Mexico State Land Office P.O. Box 1148 Santa Fe, New Mexico 87504-1148

Occidental Petroleum, LP P.O. Box 4294 Rm. 17.166 Houston, Texas 77210-4294

B.P. America Production Company P.O. Box 3092 Houston, Texas 77253-3092

Ricks Exploration II, L.P. 223 West Jane Jayroe Blvd. Laverne, OK 73848

Chaparral Energy, LLC 701 Cedar Lake Blvd. Oklahoma City, OK 73114

ConocoPhillips Co. P.O. Box 7500 Bartlesville, OK 74005

Marathon Oil Co. P.O. Box 2069 Houston, TX 77252-2069