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ABOVE THIS LINE FOR DIMSION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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



ADMINISTRATIVE APPLICATION CHECKLIST THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE **Application Acronyms:** [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OL8 - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Sait Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response TYPE OF APPLICATION - Check Those Which Apply for [A] [1] Location - Spacing Unit - Simultaneous Dedication 371683 ☐ NSL ☐ NSP ☐ SD John Whynesupy 30-015-Pending Swij Devunian-97869 Check One Only for [B] or [C] BI Commingling - Storage - Measurement □ DHČ □ CTB □ PLC □ PC □ OLS □ OLM [C]Injection - Disposal - Pressure Increase - Enhanced Oil Recovery ☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR [D] Other: Specify NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply [2] [A] Working, Royalty or Overriding Royalty Interest Owners (B) X 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 For all of the above, Proof of Notification or Publication is Attached, and/or. Œ [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 ap individual with managerial and/or supervisory capacity.

| J. Daniel Arthur, P.E., SPEC | Rantolin | Consulting Engineer - ALL C | onsulting 07/17/2018 |
|------------------------------|-----------|-----------------------------|----------------------|
| Print or Type Name | Signature | Title | Date |
| | | darthur@all-llc.com | |
| | | e-mail Address | |

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

PM 4 M 1819 - 56368 FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

| ί. | PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X Yes No |
|---------------|---|
| n. | OPERATOR: Solaris Water Midstream, LLC |
| | ADDRESS: 9811 Katy Freeway, Suite 900, Houston, TX 77024 |
| | CONTACT PARTY: Bonnie Atwater PHONE: 432-203-9020 |
| 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. |
| ſV. | Is this an expansion of an existing project? Yes X 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: |
| | Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.). |
| *VIII. | Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval. |
| IX. | Describe the proposed stimulation program, if any. |
| *X. | Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). |
| *XI. | Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken. |
| XII. | Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water. |
| XIII. | Applicants must complete the "Proof of Notice" section on the reverse side of this form. |
| XI V . | Certification: Thereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief. |
| | NAME: Katy Welch TITLE: Land Manager |
| | SIGNATURE: DATE: 7/3/2018 |
| * | NAME: Katy Welch SIGNATURE: DATE: 7/3/2018 E-MAIL ADDRESS: Katy. Welch @ Solaris mid & tream. com If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: |

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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

Application for Authorization to Inject

Well Name: John Wayne 26 SWD 1

III - Well Data (The Wellbore Diagram is included as Attachment 1)

A.

(1) General Well Information:

Operator: Solaris Water Midstream, LLC

Lease Name & Well Number: John Wayne 26 SWD 1

Well Footage: 2,413' FSL & 2,596' FWL

Location: S26 T25S R28E

(2) Casing Information:

| Туре | Hole Size | Casing Size | Casing Weight | Setting Depth | Sacks of Cement | Estimated TOC | Method Determined |
|----------------|-----------|----------------|---------------|------------------|-----------------|------------------|----------------------|
| Surface | 24" | 20" | 94.0 lb/ft | 575' | 740 | Surface | Circulation |
| Intermediate 1 | 17-1/2" | 13-3/8" | 68.0 lb/ft | 2,690' | 1,600 | Surface | Circulation |
| Intermediate 2 | 12-1/4" | 9-5/8" | 53.50 lb/ft | 10,650' | 2,850 | Surface | Circulation |
| Liner | 8-1/2" | 7-5/8" | 39 lb/ft | 14,610' | 300 | 10,350' (TOL) | CBL |

(3) Tubing Information:

5-1/2" (23#) Internal Plastic Coated Tubing swedged down to 5" (18#) with setting depth of 14-225'

(4) Packer Information: Lok-set or equivalent packer set at 14,325'. Representative packer details are included in *Attachment 1*.

В.

- (1) Injection Formation Name: Devonian and Silurian-Fusselman formations
- (2) Injection Interval: Open-hole injection between 14,610' 15,830'
- (3) Drilling Purpose: New Drill for Salt Water Disposal
- (4) Other Perforated Intervals: No other perforated intervals exist.
- (5) Overlying Oil and Gas Zones and Formation Tops:
 - Delaware (2,720')
 - Bone Springs (6,355')
 - Wolfcamp (9,630')
 - Atoka (11,980')
 - Morrow (12,695')

Underlying Oil and Gas Zones: No underlying oil and gas producing formations

V – Well and Lease Maps

A well map and lease map are included in Attachment 2.

VI – AOR Well List

A list of the wells within the 1-mile AOR is included in Attachment 2.

VII – Proposed Operation

(1) Proposed Maximum Injection Rate: 30,000 bpd Proposed Average Injection Rate: 15,000 bpd

- (2) A closed system will be used.
- (3) Proposed Maximum Injection Pressure: 2,922 psi (surface)
 Proposed Average Injection Pressure: approximately 1,500 2,000 psi (surface)
- (4) Source Water Analysis: It is expected that the injectate will consist of produced water from production wells completed in the Wolfcamp, Bone Springs, and Morrow formations, the main oil and gas producing zones in the area. Analysis of water from these formations is included in Attachment 3.
- (5) Injection Formation Water Analysis: The proposed well will be injecting water into the Devonian-Silurian formations which are known to be compatible with formation water from the Wolfcamp and Bone Springs formations. Water analyses from Silurian-Fusselman could not be located; however, water analyses from the Devonian formation in the area are included in Attachment 4.

VIII - Geologic Description

The proposed injection interval includes the Devonian and Silurian-Fusselman formations from 14,610-15,830 feet. These formations consist of carbonates including light colored dolomite and chert intervals interspersed with some tight limestone intervals. Several thick sections of porous dolomite capable of taking water are present within the subject formations in the area.

The freshwater formation is the Rustler at a depth of approximately 1,080 feet. Water well depths in the area range from 70 - 205 feet below ground surface.

IX - Proposed Stimulation Program

A small cleanup acid job may be used to remove mud and drill cuttings from the formation. However, no other formation stimulation is currently planned.

X – Logging and Test Data

Logs will be submitted to the Division upon completion of the well.

XI – Fresh Groundwater Samples

Based on a review of data from the New Mexico Office of the State Engineer, 1 groundwater well is located within 1-mile of the proposed SWD location; however, attempts to contact the

Attachments

Attachment 1: Wellbore Diagram

Attachment 2: Area of Review Well Map, Lease Map, and Well Details

Attachment 3: Source Water Analyses

Attachment 4: Injection Formation Water Analyses

Attachment 5: Water Well Map

Attachment 6: Induced Seismicity Assessment Letter

Attachment 7: Public Notice Affidavit and Notice of Application Confirmations

water well owner were unsuccessful. Additionally, the water well was not observed during a field visit to the location. Therefore, no water samples were collected.

A water well map of the area is included in Attachment 5.

XII - No Hydrologic Connection Statement

No faulting is present in the area that would provide a hydrologic connection between the injection interval and overlying USDWs. Additionally, the casing program has been designed to ensure there will be no hydrologic connection between the injection interval and overlying USDWs. A letter from a knowledgeable and qualified expert stating that there is a low risk of seismic activity from the proposed injection activities is included in **Attachment 6**.

XIII - Proof of Notice

A Public Notice was filed with the Carlsbad Current Argus newspaper.

Attachment 7 includes a list of parties (OCD District Office, landowner, and leasehold operators within 1-mile) to whom copies of the application were provided.

Attachment 7 includes an affidavit for the public notice and delivery confirmations for the OCD District Office, landowner, and leasehold operator notices of application.

Attachment 1

Wellbore Diagram

SURFACE ELEVATION 2,950 TOTAL DEPTH 15,930 MUD LOGGING **RKB DRILL** CASING SIZE (IN.) HOLE E LOGGING/ DIRECTIONAL DEPTH MD TVD MUD FRAC BOPE **FORMATION** SIZE TUBING CEMENT (SACKS) WT. GRAD 32 **GRND LEVEL** GL ELEV 2,950 SET AND GROUTED 120 120 OPEN 8.8 **GROUT TO SURFACE** 24" 8.4 575 575 94# J55 BTC 26-3/4"-3M ANNULAR/DIVERTER 740 SACKS, CEMENTED TO SURFACE IPC TUBING 1,080 **RUSTLER ANHYDRITE** 1,830 9.5 to 10.0 SALT MUD LOGGING TO BEGIN 2,465 B/SALT AT 2500 2,670 **DELAWARE LS** 13 3/8" 2,690 / 2,690 68# L80 BTC 21-3/4" -5M ANNULAR 21-3/4" -5M BOP 1,600 SACKS, CEMENTED TO SURFACE 2,720 **DELAWARE SD** DV TOOL AT ±3,300'IN 3,490 CHERRY CANYON 9 8" OPEN HOLE, ECP BELOW 4,710 **BUSHY CANYON** 9.4 6,355 12 1/4" BONE SPRING 9,630 WOLFCAMP 10,250 10,350 / 10,350 9 5/8" 10,650 / 10,650 53.50# P110 BTC 2,850 SACKS, CEMENTED TO 13-5/8" -10M BOP 11,305 LOWER WOLFCAMP SHALE 12.5 SURFACE 11,570 STRAWN IPC TUBING 11,980 ATOKA 12,320 BEND 12.5 12,695 MORROW LS 8 1/2' 13,140 MIDDLE MORROW 14,210 MISSISSIPIAN LM LOK-SET PACKE (OR EQUIV. AV 14,325 14,465 WOODFORD 14,600 DEVONIAN 14,325 14,610 / 14,610 / 13-5/8" -10M ANNULAR 300 SACKS, EST, TO 13-5/8" -10M BOP 6 1/2" 9.0 GR/NEUTRON 15,930 - 0 15,830 13-5/8" -10M ANNULAR 13-5/8" -10M BOP USIT/CBL 14,610 - 0 DUAL 0" Base of FUSSELMAN 15,930 / 15,930

JOHN WAYNE 26 SWD 1

SECTION 26 T-25-S, R-28-E 2,413' FSL & 2,596' FWL EDDY COUNTY, NEW MEXICO

JUNE 2018

PN # 1680.NM.00

)





2018 ALL Consulting, LLC

SIZE SCALE

Α

NTS

WELL BORE DATA SHEET

A-3 and AL-2 LOK-SET Retrievable Casing Packers

Product Family No. H64630 and H64628

APPLICATION

The A-3~ LOK-SET packer combines advantages of a retrievable packer with the features of a permanent packer. An ability to lock down tubing forces makes the A-3 suitable for a broad range of applications, including production, injection, zone isolation, and remedial operations. The AL-2~ LOK-SET packer is similar to the A-3, and has a larger bore.

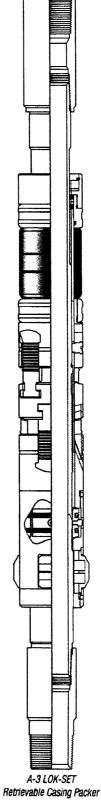
Advantages

- Holds pressure from above and below, without relying on set-down weight, tubing tension, or hydraulic hold down
- Provides tubing anchoring with tension applied, suitable for pumping wells or injection, controlling tubing forces related to change fluid temperatures
- Opposed, non-transferring, dovetail slips prevent packer movement associated with changing differential pressures, while allowing the landing of the tubing in tension, neutral or compression
- Right-hand tubing rotation controls setting and releasing
- Packing element compression locks in by ratcheting action of lock segments, which restricts rotation to one direction

Accessories

To provide a simple and reliable injection system for retrieving an injection string without having to unseat the packer:

L-10 or L-316 on-off sealing connectors, Product Family Nos. H68420 and H68422. Baker Hughes blanking plug can be used in the seating nipple profile of the on-off sealing connector to provide a means of plugging the lower zone while the tubing is being pulled.



SPECIFICATION GUIDES

A-3™ LOK-SET Retrievable Casing Packer, Product Family No. H64630

| | Casing | | | | Packer | | |
|----------------------|--------|-----------|-----------|----------|---------|---------------|-------|
| 00 in. mm 4 101.6 | | Weight • | Size | Nom | (ID | Max G Ring | |
| in | nem | ib/ft | | la. | mm | in. | mm |
| | | 9.5–12.9 | 41A2 | 1.500 | 38.1 | 3.244 | 82.4 |
| 4-1/2 | 144.3 | 21.6-23.6 | 41A2 | 1.500 | 38.1 | 3.244 | 82.4 |
| 4 | 101.6 | 9.5 | 41A4 | 1.500 | 38.1 | 3.423 | 112.4 |
| - | 70.10 | 18.8 | 41A4 | 4.500 | 38.1 | 3.423 | 112.4 |
| | | 13.5-17.7 | 418 | 1.500 | 30.1 | 3.578 | 90.9 |
| 4-1/2 | 114,3 | 11.6-13.5 | 43A2 | | 50.0 | 3.786 | 96.2 |
| | | 9.5-10.5 | 43A4 | 1.978 | 50.2 | 3.786 | 96.2 |
| | | 15–18 | 43B | 4.070 | 50.0 | 4.140 | 105.2 |
| 5 | 127.0 | 11.5-15 | 43C | 1.978 | 50.2 | 4.265 | 108.3 |
| | | 26 | 43C | | <u></u> | 4.265 | 108.3 |
| | | 20-23 | 45A2 | 1 | | 4.515 | 114.7 |
| 5-1/2 | 139.7 | 15.5 -20 | 45A4 | 1.978 | 50.2 | 4.656 | 118.3 |
| | | 13-15.5 | 45B | 1 | | 4.796 | 121.8 |
| | | 26 | 45B | | | 4.796 | 121.8 |
| 6 | 152.4 | 20-23 | 45C | 1.978 | 50.2 | 5.078 | 129.0 |
| U | 102.3 | | 15–18 45D | | | 5.171 | 131.3 |
| | | 34 | 45E | | 50.0 | 5.421 | 137.7 |
| | | 24-32 | 45F | 1.978 | 50.2 | 5.499 | 139.7 |
| 6-5/8 | 168.3 | 24 | 47A2 | 2.441 | 62.0 | 5.671 | 144.0 |
| O-3r0 | 100.0 | 17-24 | 45G | 1.978 | 50.2 | 5.796 | 147.2 |
| | | 17-20 | 47A4 | 2.441 | 62.0 | 5.827 | 148.0 |
| | | 38 | 47A2 | † | | 5.671 | 144.0 |
| | | 32-35 | 47A4 | 1 | | 5.827 | 148.0 |
| 7 | 177.8 | 26-29 | 47B2 | 2.441 | 62.0 | 5.983 | 152.0 |
| | | 23–26 | 47B4 | 1 | | 6.093 | 154.8 |
| | | 17-20 | 47C2 | | | 6.281 | 159.5 |
| | | 33.7–39 | 47C4 | | | 6.468 | 164.3 |
| 7-5/8 | 193.7 | 24-29.7 | 47D2 | 2.441 | 62.0 | 6.687 | 169.9 |
| | | 20-24 | 47D4 | | | 6.827 | 173.4 |
| | | 44-49 | 49A2 | | | 7.327 | 186.1 |
| 8-5/8 | 219.1 | 32-40 | 49A4 | 3.500 | 88.9 | 7.546 | 191.7 |
| | | 20-28 | 498 | 1 | | 7.796 | 198.0 |
| | | 47-53.5 | 51A2 | | | 8.234 | 209.1 |
| 9-5/8 | 244.5 | 40-47 | 51A4 | 3.500 | 88.9 | 8.452 | 214.7 |
| | | 29.3-36 | 51B | 1 | | 8.608 | 218.6 |

AL-2" Large Bore LOK-SET Retrievable Casing Packer Product Family No. H64628

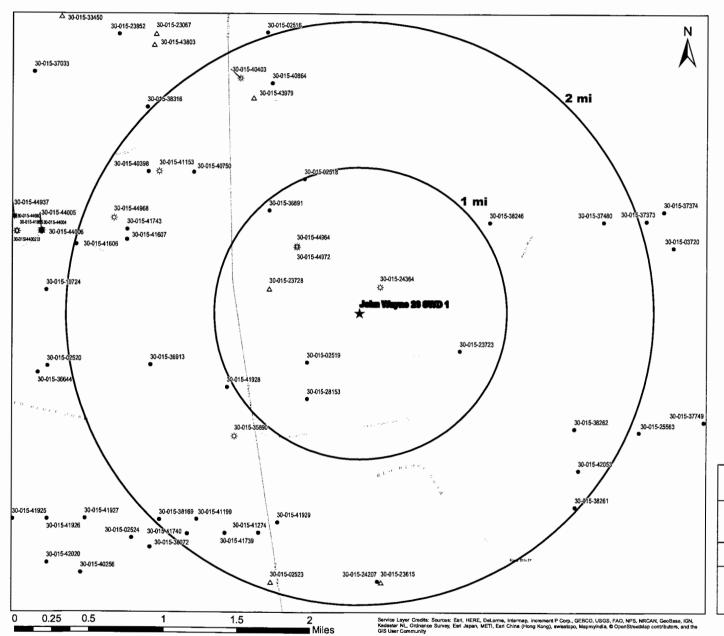
| Cas | tng | | Packer | | | | | | | | | | | | |
|-------|-------|----------|--------------|-------|------|----------|---------|--|-------|--|--|--|--|--|--|
| 0 | D | Weight = | Stze | Nor | n ID | Max Gage | Ring OD | Max Diameter of Compressed Drag Block | | | | | | | |
| in. | mm | lb/ft | 1 [| in. | mm | in. | mm | In. | mm | | | | | | |
| | | 20 | 45A2 x 2-3/8 | | | 4.562 | 115.9 | 4.592 | 116.6 | | | | | | |
| 5-1/2 | 139.7 | 15.5-17 | 45A4 x 2-3/8 | 2.375 | 60.3 | 4.656 | 118.3 | 4.750 | 120.7 | | | | | | |
| | | 13 | 458 x 2-3/8 | | | 4.796 | 121.8 | 4.902 | 124.5 | | | | | | |
| 6 | 152.4 | 26 | 45B x 2-3/8 | 2.375 | 60.3 | 4.796 | 121.8 | 4.902 | 124.5 | | | | | | |

When selecting a packer for a casing weight common to two weight ranges (same OD), choose the packer size shown for the lighter of the two weight ranges. Example: for 7-in. (177.8 mm) OD 26 lb/ft casing use packer size 47B4. Under certain circumstances the other packer size may be run, such as when running in mixed casing strings.

Repair kits, including such items as packing elements, seal rings, etc., are available for redressing Baker Retrievable Packers. Contact your Baker Hughes representative. Use only Baker Hughes repair parts.

Attachment 2

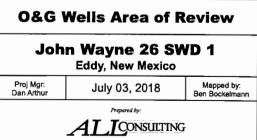
Area of Review Well Map, Lease Map, and Well Details

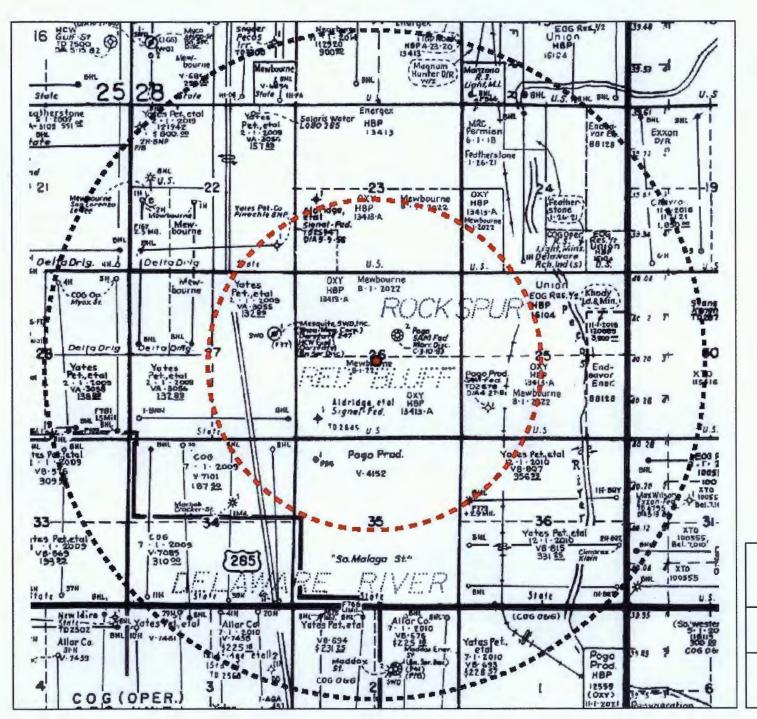




Legend

- ★ Proposed SWD
- Gas, New (9)
- Oil, Active (25)
- Oil, New (10)
- Oil, Plugged (12)
- △ Salt Water Injection, Active (3)
- △ Salt Water Injection, New (2)
- △ Salt Water Injection, Plugged (2)









Legend

Proposed SWD

1- mile Radius

--- 2 - mile Radius

John Wayne 26 SWD 1 **Offset Leases** Eddy County, NM

Proj Mgr: July 03, 2018

JDA

Mapped by: BJB

Prepared by:



| es de la companya de | | One Mile A | OR Tabulation for John Wayne 26 | SWD 1 (Top of I | njection Interval: 14,6 | i10') | ASSESSED AND AND AND AND AND AND AND AND AND AN | |
|--|-----------------|----------------------|---------------------------------|-------------------|----------------------------|-------------------|---|-------------------------|
| Well Name | API# | Well Type | Operator | Spud Date | Location (Sec., Tn., Rng.) | Footage Location | Total Depth | Penetrate Inj. Zone? |
| S MALAGA 35 STATE #002 | 30-015-28154 | APD Cancelled | POGO PRODUCING CO | Not Drilled | E-35-25S-28E | 2310 FNL 660 FWL | 0 | No |
| S MALAGA 35 STATE #001 | 30-015-28153 | 0 | OXY USA INC | 10/4/1995 | D-35-25S-28E | 660 FNL 660 FWL | 6530 | No |
| SIGNAL FED WELL #001 | 30-015-02519 | P&A | ALDRIDGE & STRONG, INC. | 3/3/1956 | M-26-25S-28E | 660 FSL 660 FWL | 2645 | No |
| SIGNAL FED WELL #001 | 30-015-23723 | P&A | POGO PRODUCING CO | 3/31/1981 | M-25-25S-28E | 990 FSL 840 FWL | 2678 | No |
| DORSTATE SWD #001 | 30-015-23728 | 5 | CAMBRIAN MANAGEMENT LTD | 11/21/2016 | H-27-25S-28E | 1980 FNL 660 FEL | 8000 | No |
| SAM FEDERAL #002 | 30-015-24364 | G | OXY USA INC | 12/26/1982 | G-26-25S-28E | 1980 FNL 1980 FEL | 13460 | No |
| PINOCHLE BNP STATE COM #001H | 30-015-36891 | P&A | EOG Y RESOURCES, INC. | 1/30/2009 | P-22-25S-28E | 860 FSL 630 FEL | 210 | No |
| SIGNAL FED WELL #002 | 30-015-02518 | P&A | ALDRIDGE & STRONG, INC. | No Data Available | L-23-25S-28E | 1980 FSL 660 FWL | No Data Available | Unknown |
| No well details or files were found on OCD's | database for AP | I 30-015-02518. | | - | | | | |

Attachment 3

Source Water Analyses



Water Analysis

Date: 23-Aug-11

2708 West County Road, Hobbs NM 88240 Phone (575) 392-5556 Fax (575) 392-7307

Broshy Draw **Analyzed For** Well Name Company County State BD +ca **New Mexico** 1-265-296 Sample # Sample Source Swab Sample Formation Depth Specific Gravity SG @ 60 °F 1,170 1.172 6.30 Sulfides **Absent** Temperature (*F) 70 Reducing Agents Cations Sodium (Calc) in Mg/L 77,962 in PPM 66,520 Calcium in Mg/L 4,000 in PPM 3,413 Magnesium in Mg/L 1,200 in PPM 1,024 Soluable from (FE2) in Mg/L 10.0 in PPM Anions Chlorides in Mg/L 130,000 in PPM 110,922 Suttates in Mg/L 250 in PPM 213 **Bicarbonates** in Mg/L 127 in PPM 108 Total Hardness (as CaCO3) in Mg/L 15,000 in PPM 12,799 Total Dissolved Solids (Calc) in Mg/L 213,549 in PPM 182,209 Equivalent NaCl Concentration in Mg/L 182,868 in PPM 156,031 **Scaling Tendencies** 507,520 *Calcium Carbonate Index Belgy 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable *Calcium Sulfate (Gyp) Index 1,000,000 Below 500,000 Remote / 500,000 - 10,000,00 Possible / Above 10,000,000 Probable "This Calculation is only an approximation and is only valid before treatment of a well or several weaks after trestment

Remarks

RW=.048@70F

Sec 22, T25,5,R28E Bone Spring

Sample Point:

WELLHEAD

North Permian Basin Region P.O. Box 740 Sundown, TX 79372-0740 (806) 229-8121 Leb Team Leader - Shells Hernandez (432) 495-7240

Water Analysis Report by Baker Petrolite

Company: 33514.1 Sales RDT: Account Manager: TONY HERNANDEZ (575) 910-7135 Region: PERMIAN BASIN ARTESIA, NM Sample #: 534665 Area: Lease/Platform: PINOCHLE BPN' STATE COM Analysis ID #: 106795 Entity (or well #): 2 H Analysis Cost: \$90.00 Formation: UNKNOWN

| | Analysis of Sample 534665 @ 75 F | | | | | | | | | | | | |
|-------------|--|---|--|--|---|--|--|--|--|--|--|--|--|
| 10/11 Anion | | mg/l | ПефЛ | Cetions | mg/l | /vpem | | | | | | | |
| Cinori | de: | 109618.0 | 3091.92 | Sodium: | 70275.7 | 3056.82 | | | | | | | |
|)MEZ Bicarb | onate: | 2135.0 | 34.99 | Magnesium: | 195.0 | 18.04 | | | | | | | |
| Carbo | nate: | 0.0 | ۵. | Calcium: | 844.0 | 42.12 | | | | | | | |
| Sulfati | 9 : | 747.0 | 15.55 | Strontium: | 220.0 | 5.02 | | | | | | | |
| Phospi | nale: | | | Badum: | 0,8 | 0.01 | | | | | | | |
| Borate | : | | | Iron: | 6.5 | 0.23 | | | | | | | |
| Silicate |): | | Ī | Polassium: | 889.0 | 22.22 | | | | | | | |
| | | | | Aluminum: | | | | | | | | | |
| PM Hydrog | en Sulfide: | | 0 PPM | Chromium: | | | | | | | | | |
| AL 41.1 | ma of sampling | ~ · | , | Соррег: | | | | | | | | | |
| 1 ' | | • | ′1 | Lead: | | | | | | | | | |
| pH at t | me of analysis | • | 1 | Manganese: | 0.100 | 0. | | | | | | | |
| pH use | d in Calculati | on: | 7 | Nickel: | | | | | | | | | |
| | 18/11 Chlort DMEZ Bloarb 911.1 1.113 1 Phospi Borate Silicate PM Hydrog pH at ti | 18/11 Chloride: DMEZ Bloarbonate: Carbonate: Sulfate: Phosphate: Borate: Skicate: Hydrogen Sulfide: pH at time of sampling | 18/11 Chloride: 109618.0 DMEZ Bloarbonate: 2135.0 Carbonate: 0.0 Sulfate: 747.0 Phosphate: Borate: Silicate: | 18/11 DMEZ Bloarbonate: 109618.0 3091.92 Bloarbonate: 2135.0 34.99 Carbonate: 0.0 0. Sulfate: 747.0 15.55 Phosphate: Borate: Silicate: PM Hydrogen Sulfide: 0 PPM pH at time of sampling: 7 pH at time of analysis: | Chloride: 109618.0 3091.92 Sodium: Bloarbonate: 2135.0 34.99 Megnesium: Carbonate: 0.0 0. Calcium: Sulfate: 747.0 15.55 Strontium: Phosphate: Borate: Borate: Silicate: Polassium: Aluminum: Aluminum: Chloride: 109618.0 3091.92 Sodium: Megnesium: Bartum: Bartum: Iron: Polassium: Aluminum: Chromium: Copper: Lead: pH at time of analysis: | 18/11 Chloride: 109618.0 3091.92 Sodium: 70275.7 Blcarbonate: 2135.0 34.99 Megneslum: 195.0 Carbonate: 0.0 0. Calcium: 844.0 Sulfate: 747.0 15.55 Strontium: 220.0 Phosphate: 0.8 Borate: Silicate: Potassium: 889.0 Chloride: 747.0 15.55 Carbonate: 0.8 Borate: Silicate: Potassium: 889.0 Chloride: 0.100 Calcium: 844.0 Strontium: 220.0 Calcium: 844.0 Calcium: 844.0 Calcium: 0.8 Iron: 0.8 Iron: 0.5 Potassium: 0.9 Chloride: 0.100 Calcium: 0.1 | | | | | | | |

| Cond | itions | | Values Calculated at the Given Conditions - Amounts of Scale in Ib/1000 bbl | | | | | | | | | | | | |
|------|-----------------|------------------------------|---|-------|---------------------------|----------------------------------|--------|-------|----------------------------|----------|--------------------------|------|--|--|--|
| | Gauge Press. | Calcite CaCO ₃ | | | aum 42H ₂ 0 | Anhydrite 0 CaSO ₄ | | | estite rSO ₄ | Ba Ba | CO ₂ Press | | | | |
| Ŧ | psi | Index | Amount | Index | Amount | Index | Amount | Index | Amount | Index | Amount | psi | | | |
| 80 | 0 | 1.08 | 188.52 | -1.20 | 0.00 | -1.18 | 0.00 | -0.11 | 0.00 | 0.58 | 0.29 | 1.72 | | | |
| 100 | 0 | 1.10 | 206.05 | -1.29 | 0.00 | -1.20 | 0.00 | ~0.15 | 0.00 | 0.35 | 0.29 | 2.35 | | | |
| 120 | 0 | 1.12 | 224.17 | -1.38 | 0.00 | -1.19 | 0.00 | -0.17 | 0.00 | 0.16 | 0.00 | 3,17 | | | |
| 140 | _ 0 | 1.13 | 243.17 | -1.42 | 0.00 | -1.18 | 000 | -0.18 | 0.00 | 0.00 | 0.00 | 4,21 | | | |

Note 1: When assessing the severity of the scale problem, both the saturation Index (SI) and amount of scale must be considered.

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partiel pressure.

| wellname api | sect | tion township | range | unit | field | formation | ph | | tds_mgl. |
|-----------------|------------|---------------|-------|------|-------------|----------------------|----|------|----------|
| HOP! FEDERAL # | 3001529367 | 1 255 | 28E | F | WILLOW LAKE | DELAWARE | | 6.2 | 301207 |
| HOPI FEDERAL # | 3001530754 | 1 255 | 28E | С | | DELAWARE | | 5.9 | 289700 |
| ODIE 4 STATE #0 | 3001541311 | 4 25S | 28E | M | | BONE SPRING 2ND SAND | | 6.2 | 190675.4 |
| SIGNAL ST #002 | 3001502520 | 28 255 | 28E | N | | MORROW | | | 102849 |
| NERMAL 4 STATI | 3001541239 | 4 255 | 28E | С | | BONE SPRING 2ND SAND | | 7.4 | 208311.9 |
| POOKY 4 STATE | 3001541241 | 4 255 | 28E | A | | BONE SPRING 2ND SAND | | 7 | 204576.5 |
| HOPI FEDERAL # | 3001530754 | 1 255 | 28E | C | | DELAWARE | | 6.31 | 170840 |
| | | | | | | | | | |

Attachment 4

Injection Formation Water Analyses

| wellname | apl | section 1 | township | range o | ounty s | tate formation | sampledate | ph spe | eclficgravity specifics | gravity temp F | tds mgl. resi | stivity ohm | cm resistivity_ohm_cm_temp_ | F conductivity co | ductivity temp | F sodium met e | alclum mel | magnesium mg | el chindda mel h | dearthonate mel | sulfate mel |
|-------------------------------------|------------|-----------|----------|---------|---------|----------------|-----------------|--------|-------------------------|----------------|---------------|-------------|-----------------------------|-------------------|----------------|----------------|------------|--------------|------------------|-----------------|-------------|
| JURNEGAN POINT #001 | 3001510280 | 5 | 245 | 25E | EDDY | NM DEVONIAN | 12/14/1964 0:00 | 7 | | | 203100 | | , | , | | | | magnesium_mg | 121100 | 176 | 3330 |
| WHITE CITY PENN GAS COM UNIT 1 #001 | 3001500408 | 29 | 245 | 26E | EDDY | NM DEVONIAN | 3/1/1960 0:00 | 7 | 1,012 | 60 | | 0.36 | 75 | 25596 | 64 | 6072 | 1002 | 132 | 10120 | 653 | 1336 |

Source: Go-Tech (http://gotech.nmt.edu/gotech/Water/producedwater.aspx)

Attachment 5

Water Well Map

Proposed SWD & Water Wells within 1 mile





Legend

- ★ Proposed SWD
- Water Well (iWATERS)
- - Proposed SWD 1-mi Buffer



Prepared by:



John Wayne 26 SWD 1 County: Eddy, NM Date: 7/3/2018 Lat: 32.1001972 PM: J Daniel Arthur Long: -104.0580083 Map: Ben Bockelmann



| 0 | 1,250 | 2,500 | 5,000 |
|---|-------|-------|-------|
| | | | Feet |
| | | | |

Service Layer Credits: Earl, HERE, Garmin, © OpenStreetMep contributors Source: Earl, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Attachment 6

Induced Seismicity Assessment Letter

July 3, 2018

Mr. Phillip Goetze, P.G. NM EMNRD – Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505

Subject: Induced Seismicity Potential Statement for the John Wayne 26 SWD 1

Dear Mr. Goetze,

This letter provides information regarding the seismic potential associated with injection operations associated with Solaris Water Midstream, LLC's (Solaris), proposed John Wayne 26 SWD 1, hereinafter referred to as the "Subject Well".

As outlined herein, based on my experience as an expert on the issue of induced seismicity, it is my opinion that the potential for the proposed injection well to cause injection-induced seismicity is expected to be minimal, at best. This conclusion is based on (1) the lack of historic seismic activity and faulting in the area, (2) the low fault slip potential (FSP) of Precambrian faults in the area, (3) the presence of confining layers, and (4) the overall vertical distance between the proposed injection zone and basement rock.

The Subject Well, is located 2,413' FSL & 2,596' FEL of Section 26, in T25-S and R28-E of Eddy County, New Mexico. Historically, the Eddy County area has experienced very limited recorded seismic activity (per the U.S. Geological Survey [USGS] earthquake catalog database). There has been only one known seismic event located within 20 miles of the proposed subject well. The closest recorded seismic event was a M3.9 that occurred on April 11, 1974, and was located approximately 15.35 miles northwest of the subject well (See Exhibit 1). The closest Class IID well injecting into the same formations (Devonian-Silurian) of the Subject Well is approximately 1.85 miles to the south (See Exhibit 1).

Solaris does not own either 2D or 3D seismic reflection data in the area of the Subject Well. Fault data from USGS indicates that the closest known fault is approximately 16.43 miles northwest of the Subject Well and a second small inferred fault segment is approximately 6.24 miles to the northeast (See Exhibit 1).

In a recent paper written by Snee and Zoback (2018) entitled "State of Stress in the Permian Basin, Texas and New Mexico: Implications for Induced Seismicity,", the authors found that large groups of mostly north-south striking Precambrian basement faults, predominantly located along the Central Basin Platform, the western Delaware Basin, and large parts of the Northwest Shelf (which includes Eddy and Lea counties, New Mexico) have low FSP at the modeled fluid-pressure

Induced Seismicity Potential Statement for the John Wayne 26 SWD 1 July 3, 2018

perturbation. The map in Exhibit 2 depicts the low probability risk of FSP for the Delaware Basin and Northwest Shelf areas (Snee and Zoback 2018).

Geologic analysis indicates that the proposed Devonian-Silurian injection zone is overlain by approximately 200 to 400 feet of Woodford Shale, which is the upper confining zone and will serve as a barrier for upward injection fluid migration. Additionally, the Simpson Group that lies directly below the Montoya Formation will act as a lower confining zone to prohibit fluids from migrating downward into the underlying Ellenberger Formation and Precambrian basement rock. See the stratigraphic column for the Delaware Basin included in Exhibit 3.

In the Eddy and Lea Counties area of New Mexico, the Simpson Group is comprised of a series of Middle to Upper Ordovician carbonates, several sandstones, and sandy shales that range from approximately 350 to 650 feet thick (Jones 2008). This group of rocks is capped by the limestones of the Bromide Formation, which is approximately 200 feet thick in this area (Jones 2008). The closest deep well drilled into the Precambrian basement was completed by the Skelly Oil Company in 1975. This well is located in Section 17, Range 36E, Township 25S of Lea County (API No.30-025-25046) and encountered 602 feet of Ellenburger Formation before reaching the top of the Precambrian granite at a depth of 18,920 feet. Based on the estimated thickness of the Simpson Group and Ellenburger Formation in this area, the Precambrian basement should be approximately 1,000 to 1,200 feet below the bottom of the proposed injection zones in the Subject Well.

Conclusion

As an expert on the issue of induced seismicity, it is my opinion that the potential for the proposed injection well to cause injection-induced seismicity is expected to be minimal, at best. This conclusion is based on (1) the lack of historic seismic activity and faulting in the area, (2) the low FSP of Precambrian faults in the area, (3) the presence of confining layers, and (4) the overall vertical distance between the proposed injection zone and basement rock.

Sincerely, ALL Consulting

J. Daniel Arthur, P.E., SPEC President and Chief Engineer

Enclosures References Exhibits Induced Seismicity Potential Statement for the John Wayne 26 SWD 1 July 3, 2018 $\,$

References

Induced Seismicity Potential Statement for the John Wayne 26 SWD 1 July 3, 2018

Ball, Mahlon M. 1995. "Permian Basin Province (044)." In *National Assessment of United States Oil and Gas Resources—Results, Methodology, and Supporting Data*. U.S. Geological Survey. https://certmapper.cr.usgs.gov/data/noga95/prov44/text/prov44.pdf (accessed June 18, 2018).

Green, G.N., and G.E. Jones. 1997. "The Digital Geologic Map of New Mexico in ARC/INFO Format." U.S. Geological Survey Open-File Report 97-0052. https://mrdata.usgs.gov/geology/state/state.php?state=NM (accessed June 14, 2018).

Jones, Rebecca H. 2008. "The Middle-Upper Ordovician Simpson Group of the Permian Basin: Deposition, Diagenesis, and Reservoir Development." http://www.beg.utexas.edu/resprog/permianbasin/PBGSP_members/writ_synth/Simpson.pdf (accessed June 19, 2018).

Snee, Jens-Erik Lund, and Mark D. Zoback. 2018. "State of Stress in the Permian Basin, Texas and New Mexico: Implications for Induced Seismicity." *The Leading Edge* 37, no. 2 (February 2018): 127-34.

U.S. Geological Survey (USGS). No date. Earthquakes Hazard Program: Earthquake Catalog. https://earthquake.usgs.gov/earthquakes/search/ (accessed June 14, 2018).

Induced Seismicity Potential Statement for the John Wayne 26 SWD 1 July 3, 2018

Exhibits

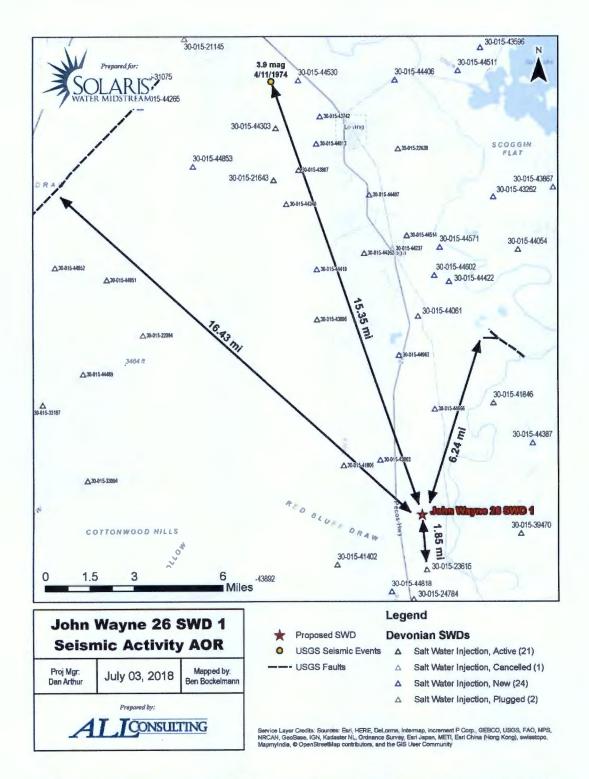


Exhibit 1. Map Showing the Distances from Known and Inferred Faults, Seismic Event, and Closest Deep Injection Well

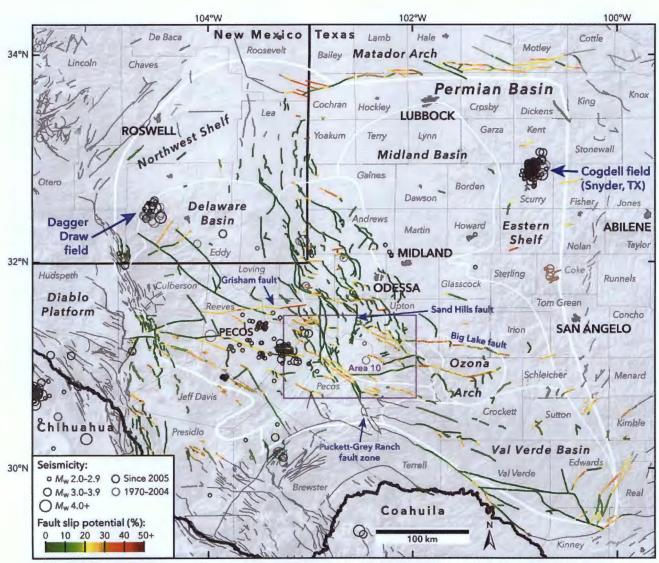


Exhibit 2. Results of the Snee and Zoback (2018) Probabilistic FSP Analysis Across the Permian Basin

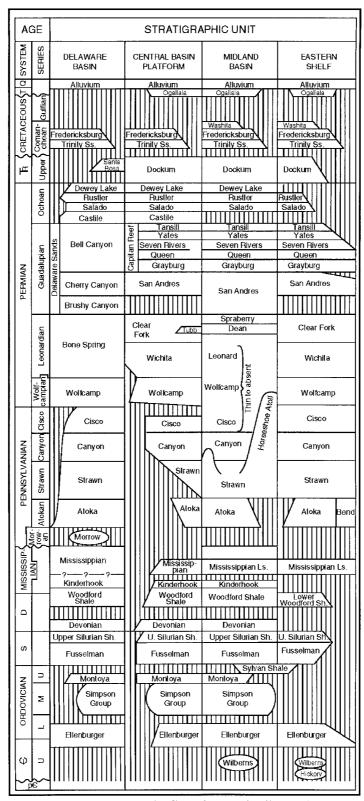


Exhibit 3. Delaware Basin Stratigraphic Chart (Ball 1995)

Attachment 7

Public Notice Affidavit and Notice of Application Confirmations

| John Wayne 26 SWD 1 Notice of Application Recipients | | | | | |
|--|-----------------------------|----------------|-------|----------|--|
| Entity | Address | City | State | Zip Code | |
| Paster and the past of the pas | Landowner | | | | |
| New Mexico BLM | 620 E. Greene St. | Carlsbad | NM | 88220 | |
| | OCD District | and the second | | | |
| OCD District 2 | 811 S. First St. | Artesia | NM | 88210 | |
| | Leasehold Operators | | 4 | | |
| Aldridge etal. Signel-Fed | P.O. Box 370 | Clovis | NM | 88102 | |
| Cambrian Management Ltd. | P.O. Box 272 | Midland | TX | 79702 | |
| COG Production, LLC | 600 W. Illinois Ave. | Midland | TX | 79701 | |
| EOG Resources | 5509 Champions Dr. | Midland | TX | 79706 | |
| Featherstone Development Corporation | P.O. Box 429 | Roswell | NM | 88202 | |
| HCW Exploration Inc. | P.O. Box 10585 | Midland | TX | 79702 | |
| Mesquite SWD Inc. | P. O. Box 1479 | Carlsbad | NM | 88220 | |
| Mewbourne Oil Company | 4801 Business Park Blvd. | Hobbs | NM | 88240 | |
| MRC Permian Company | 5400 LBJ Freeway, Suite 150 | Dallas | TX | 75240 | |
| OXY USA Inc. | P.O. Box 27757 | Houston | TX | 77227 | |
| Pogo Production | P.O. Box 10340 | Midland | TX | 79702 | |
| SHEA-MEG Corporation | 2833 Pecos Highway | Carlsbad | NM | 88220 | |
| Yates Petroleum Inc. | P.O. Box 1933 | Roswell | NM | 88202 | |



July 6, 2018

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

Subject: Solaris – John Wayne 26 SWD 1 – Application for Authorization to Inject

To Whom It May Concern,

On behalf of Solaris Water Midstream, LLC (Solaris), ALL Consulting, LLC (ALL) is submitting the enclosed Application for Authorization to Inject for the John Wayne 26 SWD 1, a proposed salt water disposal well, in Eddy County, NM.

Should you have any questions regarding the enclosed application, please contact Nate Alleman at (918) 382-7581 or nalleman@all-llc.com.

Sincerely,

ALL Consulting

Nate Alleman Project Manager

RENT-ARGUS

AFFIDAVIT OF PUBLICATION

Ad No. 0001252808

ALL CONSULTING 1718 SOUTH CHEYENNE AVE

TULSA OK 74119

I, a legal clerk of the Carlsbad Current-Argus. a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

06/29/18

Subscribed and sworn before me this 3rd of July 2018.

WI, County of Brown NOTARY PUBLIC

My Commission Expires

APPLICATION FOR AUTHORIZATION TO INJECT

NOTICE IS HEREBY GIVEN: That Solaris Water Midstream, LLC, 9811 Katy Freeway, Suite 900, Houston, TX 77024 (Contact, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced

from permitted oil and gas wells.

WELL NAME AND LOCATION: John Wayne #26 NE 1/4 SW 1/4, Section 26, Township 25S,

Range 28E

2,413' FSL & 2,596' FWL

Eddy County, NM

NAME AND DEPTH OF DISPOSAL ZONE:

Devonian-Silurian (14.610' - 15.830') **EXPECTED MAXIMUM INJECTION RATE:**

30,000 Bbls/day

EXPECTED MAXIMUM INJECTION PRESSURE:

2,922 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis

Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Bonnie Atwater (Solaris - Regulatory

Technician) at 432-203-9020. Pub: June 29, 2018 #1252808



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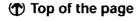
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Shea-Meg Corporation 2833 Pecos Highway Carlsbad NM 88220-9552 **ALL Consulting** 1718 S. Cheyenne Ave. Tulsa, OK 74119

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Cambrian Management Ltd. P.O. Box 272 Midland TX 79702-0272

HWC Exploration Inc. P.O. Box 10585 Midland TX 79702-7585

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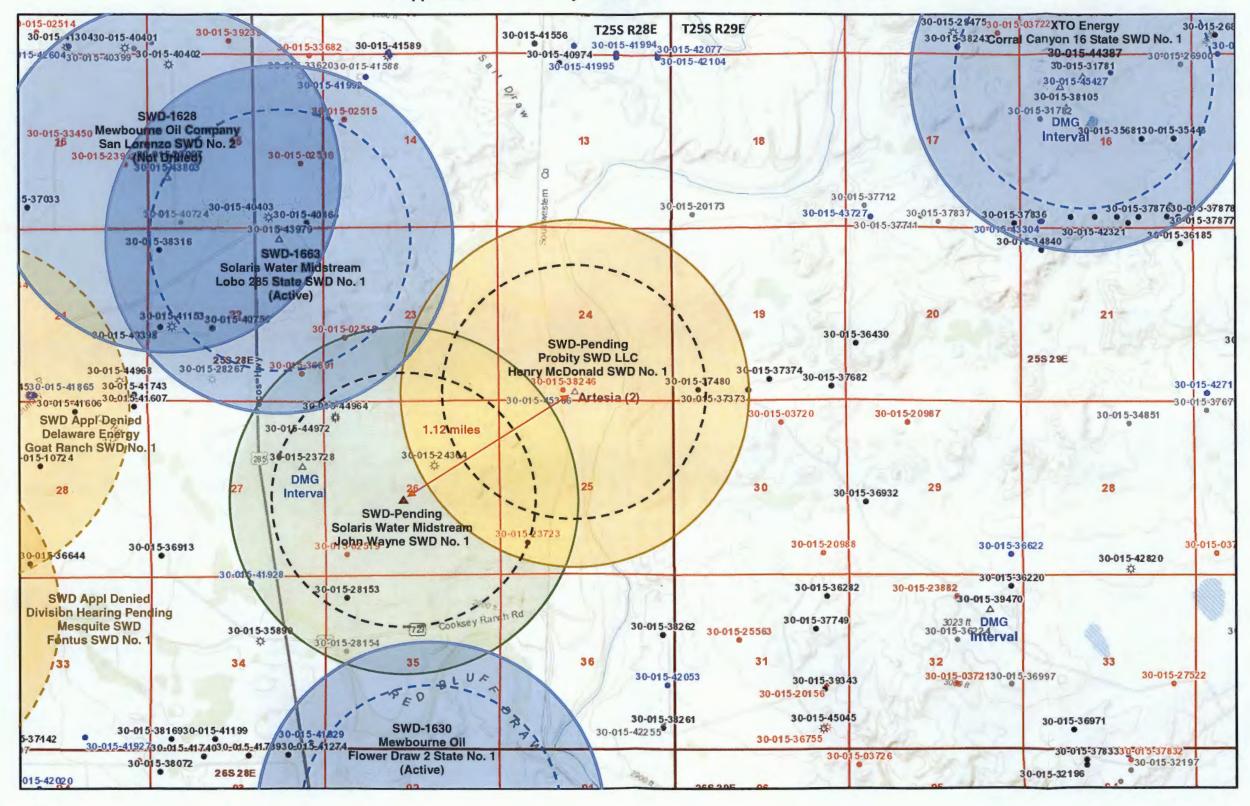


Mesquite SWD Inc. P.O. Box 1479 Carlsbad NM 88221-1479

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Pending Application for High-Volume Devonian Disposal Well C-108 Application for John Wayne SWD No. 1 – Solaris Water Midstream LLC



| C-108 Review Checklist: Received 7/10/2016 Add Request. 7 | // WIS Reply Date: Suspended [Ver 15] | | | | |
|--|--|--|--|--|--|
| ORDER TYPE: WFX / PMX SWD Number: Order Date: | Legacy Permits/Orders: | | | | |
| Well No. I Well Name(s): JUHN WAYNE | | | | | |
| API: 30-0 15-Pending Spud Date: TRD New or Old: (UTC Class II Primacy 03/07/1982) | | | | | |
| Footages 2546ENL Lot or Unit K Sec 27Tsp 275 Rge 28E County EddX | | | | | |
| General Location: 28 mgi/cs S/m/LA/Y Pool: Swd; 5, Lyvich Pool No.: 4786C BLM 100K Map: CANLSHAD Operator: midstrem, LC OGRID: 3716B Contact: Agent | | | | | |
| BLM 100K Map: CANLSHAD Operator: midstrem, LC OGRID: 3716 Contact: Agent | | | | | |
| COMPLIANCE RULE 5.9: Total Wells: 2 Inactive: Fincl Assur: Compl. Order? M IS 5.9 OK? Y Date: 2-6-20/9 | | | | | |
| WELL FILE REVIEWED © Current Status: Proposed | | | | | |
| WELL DIAGRAMS: NEW: Proposed Or RE-ENTER: Before Conv. After Conv. Logs in Imaging: | | | | | |
| Planned Rehab Work to Well: | | | | | |
| Well Construction Details Sizes (in) Setting Borehole / Pipe Depths (ft) | Cement Sx or Cf Cement Top and Determination M ethod | | | | |
| Planned or Existing Surface 2677/23 575 Stage To | | | | | |
| Planned_or Existing Intermit Prod 172"/13# 2690 | 1600 SUPFACE VISUAL | | | | |
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| Planned_or Existing _ Prod/Ciner 82/494 14610 | 300 143506 | | | | |
| Planned_or ExistingLiner | | | | | |
| Planned_or Existing OH / PERF / 4610 / 15830 | Completion/Operation Details: | | | | |
| Injection Lithostratigraphic Units: Depths (ft) Injection or Confining Tops | Drilled TD 1583U PBTD | | | | |
| Adjacent Unit: Litho. Struc. Por. | | | | | |
| Confining Unit: Litho. Struc. Por. ud 1444 | 1 | | | | |
| Proposed Inj Interval TOP: DV 14616 | Tubing Size 52 in. Inter Coated? | | | | |
| Proposed Inj Interval BOTTOM: | Proposed Packer Depth /43 > 6tt -> 42 2075 | | | | |
| Confining Unit: Litho. Struc. Por. | Min. Packer Depth / 45/0 (100-ft limit) | | | | |
| Adjacent Unit: Litho. Struc. Por. | Proposed Max. Surface Press. 2722 psi | | | | |
| AOR: Hydrologic and Geologic Information Admin. Inj. Press. (0.2 psi per ft) | | | | | |
| POTASH: R-111-P MA Noticed? BLM Sec Ord WIPP Noticed? Salt/Salado T: NOV B: 263 (NW: Cliff House fm W)A FRESH WATER: Aquifer W A C M h C M Max Depth W HYDRO AFFIRM STATEMENT By Qualified Person On A | | | | | |
| | <i>i</i> | | | | |
| NMOSE Basin: CArlShAL CAPITAN REEF: thru adj NA No. Wells within 1-Mile Radius? / FW Analysis NA Rouse Series & Capital Rouse & C | | | | | |
| | On Lease Operator Only or Commercial | | | | |
| Disposal Int: Inject Rate (Avg/Max BWPD): 154/30/4 Protectable Waters? Source: System Closed or Open | | | | | |
| HC Potential: Producing Interval? MFormerly Producing? Method: Logs/DST/P&A/Other hegiows-Mile Radius Pool Map | | | | | |
| AOR Wells: 1/2-M Radius Map? Well List? Total No. Wells Penetrating Interval: Horizontals? | | | | | |
| Penetrating Wells: No. Active WellsNum Repairs?on which well(s)?Diagrams? | | | | | |
| Penetrating Wells: No. P&A Wells Mum Repairs?on which well(s)?Diagrams? | | | | | |
| NOTICE: Newspaper Date 6/24/2019 Mineral Owner BUM Surface Owner Bum N. Date 7/05/2019 | | | | | |
| RULE 26.7(A): Identified Tracts? Affected Persons: OXY EOG COG menbournen. Date 7/05/2018 | | | | | |
| Order Conditions: Issues: | | | | | |
| dd Order Cond: * (B) From Con Above | liner-base of Lines | | | | |