

ABOVE THIS LINE FOR DIVISION USE ONLY

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



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

- [NSL-Non-Standard Location]
 [NSP-Non-Standard Proration Unit]
 [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling]
 [CTB-Lease Commingling]
 [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling]
 [OLS - Off-Lease Storage]
 [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion]
 [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal]
 [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification]
 [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A] SWD 1639
 [A] Location - Spacing Unit - Simultaneous Dedication Basic Energy Services, LP
 NSL NSP SD Isaiah Fee SWD 1
(30-015-43742)
 Check One Only for [B] or [C] SWD; Devonian
 [B] Commingling - Storage - Measurement 96101
 DHC CTB PLC PC OLS OLM
 [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR
 [D] Other: Specify _____

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

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

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

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

Brian Wood		Consultant	6-6-16
Print or Type Name	Signature	Title	Date
		brian@permitswest.com	
		e-mail Address	

2016 JUN -16 P 3:28
 RECEIVED OIL

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance XXX Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ No

II. OPERATOR: BASIC ENERGY SERVICES, LP

ADDRESS: P. O. BOX 1175, ARTESIA NM 88211

CONTACT PARTY: BRIAN WOOD (PERMITS WEST, INC.) PHONE: 505 466-8120

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? _____ Yes XXX No
If yes, give the Division order number authorizing the project: _____

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

Isaiah Fee SWD 1
30-015-43742
SWD; Devonian

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

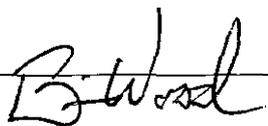
*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: BRIAN WOOD TITLE: CONSULTANT

SIGNATURE:  DATE: JUNE 3, 2016

E-MAIL ADDRESS: brian@permitswest.com

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

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

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

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

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

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

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

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

INJECTION WELL DATA SHEET

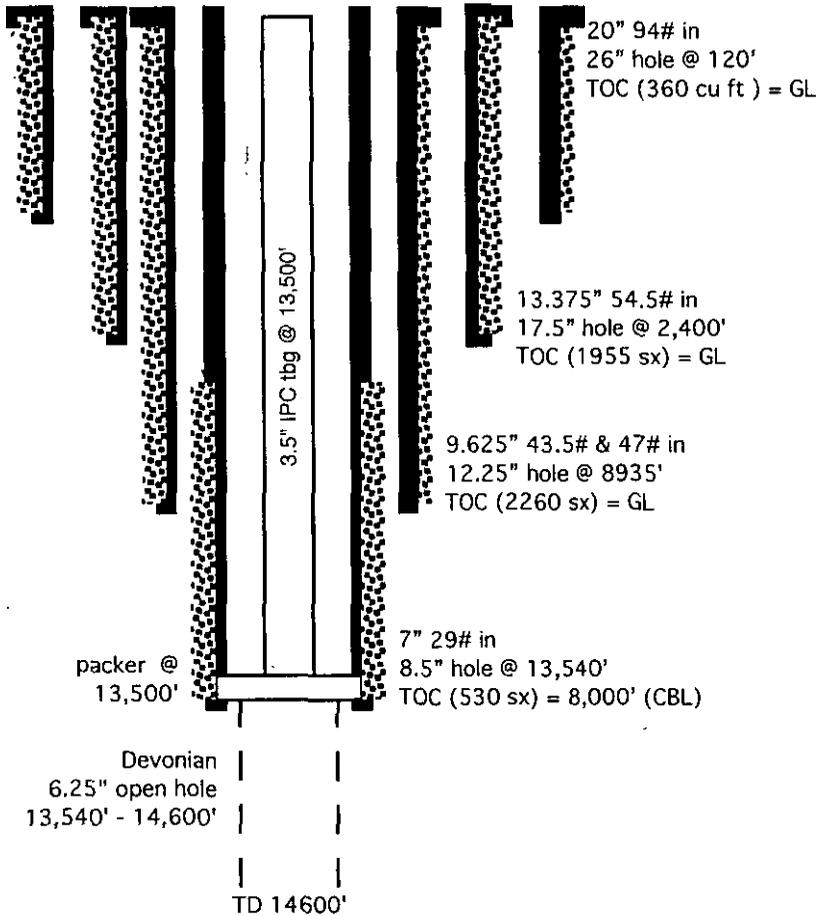
OPERATOR: BASIC ENERGY SERVICES, LP

WELL NAME & NUMBER: ISAIAH FEE SWD 1

WELL LOCATION: 1435 FNL & 1008 FWL E 20 23 S 28 E
 FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

(not to scale)



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17.5" Casing Size: 13.375"
 Cemented with: 1965 sx. or _____ ft³
 Top of Cement: SURFACE Method Determined: CIRCULATE

Intermediate Casing

Hole Size: 12.25" Casing Size: 9.625"
 Cemented with: 2260 sx. or _____ ft³
 Top of Cement: SURFACE Method Determined: CIRCULATE

Production Casing

Hole Size: 8.5" Casing Size: 7"
 Cemented with: 530 sx. or _____ ft³
 Top of Cement: 8,000' Method Determined: CBL
 Total Depth: 13,540'

Injection Interval

6.25" HOLE SIZE 13540 feet to 14600'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 3.5" Lining Material: PLASTIC

Type of Packer: ARROWSET NICKEL PLATED 7" X 3.5" NICKEL PLATED STAINLESS STEEL

Packer Setting Depth: ≈13,500'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? XXX Yes No

If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: DEVONIAN

3. Name of Field or Pool (if applicable): SWD; DEVONIAN (96101)

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. NOT IN OTHER ZONES

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____

OVER: DELAWARE 5726', BONE SPRING 6004', WOLFCAMP 9272',
STRAWN (10840'), ATOKA 11083', & MORROW 11446'

UNDER: NONE

BASIC ENERGY SERVICES, LP
ISAIAH FEE SWD 1
1435' FNL & 1008' FWL
SEC. 20, T. 23 S., R. 28 E.
EDDY COUNTY, NM

PAGE 1

30-015-43742

I. Plan is to drill a 14,600' deep commercial saltwater disposal well. Proposed disposal interval will be 13,540' - 14,600' in the SWD; Devonian (96101). See Exhibit A for map and Form C-102.

II. Operator: Basic Energy Services, LP
Operator phone number: (575) 746-2072
Operator address: P. O. Box 1375, Artesia NM 88211
Contact for Application: Brian Wood (Permits West, Inc.)
Phone: (505) 466-8120

III. A. (1) Lease name: Isaiah Fee SWD
Well name and number: Isaiah Fee SWD 1
Location: 1435' FNL & 1008' FWL Section 20, T. 23 S., R. 28 E.

A. (2) Conductor pipe (20", 94#, K-55, ST&C) will be set at 120' in a 26" hole and cemented to surface with 360 ft³ ready-mix. Excess: 100%.

Surface casing (13.375", 54.5#, K-55, ST&C) will be set at 2,400' in a 17.5" hole and cemented to surface with 1215 sacks 65/35/6 Class C (12.6 ppg, 1.92 ft³/sack, & 10.38 water gal/sack) + 750 sacks Class C (14.8 ppg, 1.34 ft³/sack, & 6.34 water gal/sack). Excess: 100%.

First intermediate casing (9.625", 43.5#, N-80, LT&C) will be set at 6000' in a 12.25" hole.

Second intermediate casing (9.625", 47#, P-110, LT&C) will be set at 8935' in a 12.25" hole.

Intermediate casing will be cemented to surface with 1800 sacks 50/50 poz with Class H (11.8 ppg, 2.42 ft³/sack, & 14.04 water

30-015-43742

gal/sack) + 460 sacks 50/50 poz with Class H (14.2 ppg, 1.28 ft³/sack, & 5.68 water gal/sack). Excess: 100%.

Production casing (7", 29#, P-110, LT&C) will be set at 13,540' in an 8.5" hole and cemented to 8,000' with 330 sacks 50/50 poz with Class H (11.8 ppg, 2.42 ft³/sack, & 14.07 water gal/sack) + 200 sacks 50/50 poz with Class H (14.2 ppg, 1.29 ft³/sack, & 5.57 water gal/sack). Excess: 35%.

A 6.25" open hole will be drilled to 14,600' (TD).

- A. (3) Tubing will be 3.5", L-80, 7.7#, IPC. Setting depth will be \approx 13,500'. (Disposal interval will be 13,540' to 14,600'.)
- A. (4) An Arrowset 7" x 3.5" ASI-X nickel plated F nipple stainless steel packer will be set at \approx 13,500' (or \leq 100' above the top of the open hole which will be at 13,540').
- B. (1) Disposal zone will be the Devonian (SWD; Devonian (96101) pool). Estimated fracture gradient is \approx 0.65 psi per foot.
- B. (2) Disposal interval will be open hole from 13,540' to 14,600'.
- B. (3) Well has not been drilled. It will be drilled as a saltwater disposal well.
- B. (4) No perforated intervals are in the well.
- B. (5) Eight existing wells are in the area of review. None penetrated the Devonian. Zones above the Devonian that have been tested in and around the area of review are the Delaware (top 5,726'), Bone Spring (top 6,004'), Strawn (10,840), Atoka (top 11,083'), and Morrow (top 11,446'). No oil or gas zones are below the Devonian in the area of review.

BASIC ENERGY SERVICES, LP
 ISAIAH FEE SWD 1
 1435' FNL & 1008' FWL
 SEC. 20, T. 23 S., R. 28 E.
 EDDY COUNTY, NM

30-015-43742

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

V. Exhibit B shows the 8 existing wells (4 gas + 2 SWD + 2 water) within a half-mile radius. Exhibit C shows all 107 existing wells (36 oil or gas wells + 15 P & A wells + 52 water wells + 4 disposal wells) within a two-mile radius.

Exhibits D and E shows all leases and lessors within a half-mile radius (only fee) and two-mile radius (BLM, fee, and State) leases within each radius.

VI. No well within ½ mile penetrated the Devonian (top = 13,540'). The closest (non-water) wells are:

API	OPERATOR	UL-SECTION-T23S-R28E	TVD	WELL NAME	WELL TYPE	STATUS	ZONE(S) DEVELOPED	FEET FROM ISAIAH FEE SWD 1
3001535569	BC Operating	E-20	12650	Cronos Fee 1	Gas	Active	Morrow	643
3001525141	Basic	E-20	6500	Belco 1	SWD	Active	Delaware	861
3001525433	Basic	F-20	5930	Belco 2	SWD	Active	Delaware	1308
3001523351	BC Operating	L-20	12622	Lakey Com 1	Gas	Active	Atoka, Bone Spring, Morrow, & Strawn	1666
3001523215	Legacy	H-19	12580	Guitar Estate Com 1	Gas	Active	Morrow	1870
3001524105	COG	N-17	12600	Carter 1	Gas	Active	Atoka & Morrow	2302
3001543016	BC Operating	B-19	15500 MD	Mariner Fee 1H	Oil	New (no spud yet)	Wolfcamp	2916

BASIC ENERGY SERVICES, LP
ISAIAH FEE SWD 1
1435' FNL & 1008' FWL
SEC. 20, T. 23 S., R. 28 E.
EDDY COUNTY, NM

PAGE 4

30-015-43742

- VII.
1. Average injection rate will be $\approx 15,000$ bwpd.
Maximum injection rate will be $\approx 20,000$ bwpd.
 2. System will be open and closed. Water will be trucked to an existing Basic battery (Exhibit F) and then piped 0.3 mile southwest to the well.
 3. Average injection pressure will be $\approx 2,500$ psi
Maximum injection pressure will be 2,708 psi ($= 0.2$ psi/foot $\times 13,540'$ (top of open hole)).
 4. Main source of disposal water will be water produced from Bone Spring and Wolfcamp wells. However, water produced from the Atoka, Pennsylvanian, Morrow, Delaware, etc. could also be disposed. Water analyses are in Exhibit G. There are 182 approved Bone Spring wells and 106 approved Wolfcamp wells in T. 23 S., R. 27 & 28 E. and T. 24 S., R. 27 & 28 E. The well will take other Permian Basin waters (e. g., Delaware). No compatibility problems have been reported from the closest (2.3 miles southwest) Devonian disposal well (30-015-21643). The 12,546,414 barrels that have been disposed from 2009 to date include Delaware, Bone Spring, Strawn, Atoka, and Morrow waters.
 5. No Devonian producer is within a ≥ 4 mile radius. No water analyses have been filed from the 5 Devonian SWD wells within T. 23 S., R. 28 E. and the closest 3 townships. USGS Geochemical Database v2.2 (Provisional) shows TDS of 37,200 and 47,900 in the 2 closest (Andrews TX) closest Devonian wells in its database.

VIII. The Devonian ($\approx 1,060'$ thick) is comprised of limestone and dolomite with relatively high porosity. See attached May 2, 2016 report (Exhibit H) from Dr. Powers for more information on the geology. Closest possible underground source of drinking water above the proposed disposal interval is the Quaternary at the surface. No underground source of drinking water is below the proposed disposal interval. According to State Engineer records (Exhibit I), nine water wells are within 1-mile, deepest of which is 250'.

BASIC ENERGY SERVICES, LP
ISAIAH FEE SWD 1
1435' FNL & 1008' FWL
SEC. 20, T. 23 S., R. 28 E.
EDDY COUNTY, NM

PAGE 5

30-015-43742

Estimated formation tops are:

Quaternary = 0'
Salado = 400'
Castille (bottom) = 2400'
Delaware = 2400'
Bell Canyon = 2504'
Cherry Canyon = 3238'
Brushy Canyon = 3905'
Bone Spring = 6004'
Second Bone Spring = 7704'
Third Bone Spring = 8935'
Wolfcamp = 9272'
Cisco = 10,200'
Canyon = 10,402'
Strawn = 10,840'
Atoka = 11,083'
Morrow = 11,446'
Middle Morrow = 12,082'
Lower Morrow = 12,370'
Barnett = 12,577'
Devonian = 13,540'
disposal interval = 13,540' - 14,600'
TD = 14,600'

Nine water wells are within a 1-mile radius according to State Engineer records (Exhibit I). One (C 00911) of the nine was found during February 12 & 13 and May 17, 2016 field inspections, but it is inactive. No one was home at the other 8 sites. Two wells were sampled (Exhibit J). One sample point is $\frac{3}{4}$ mile south of Isaiah and the other is 1.3 miles SE of Isaiah. There will be 13,140' of vertical separation and the salt interval between the bottom of the only likely underground water source (Quaternary) and the top of the Devonian.

IX. The well will be stimulated with acid.

BASIC ENERGY SERVICES, LP
ISAIAH FEE SWD 1
1435' FNL & 1008' FWL
SEC. 20, T. 23 S., R. 28 E.
EDDY COUNTY, NM

PAGE 6

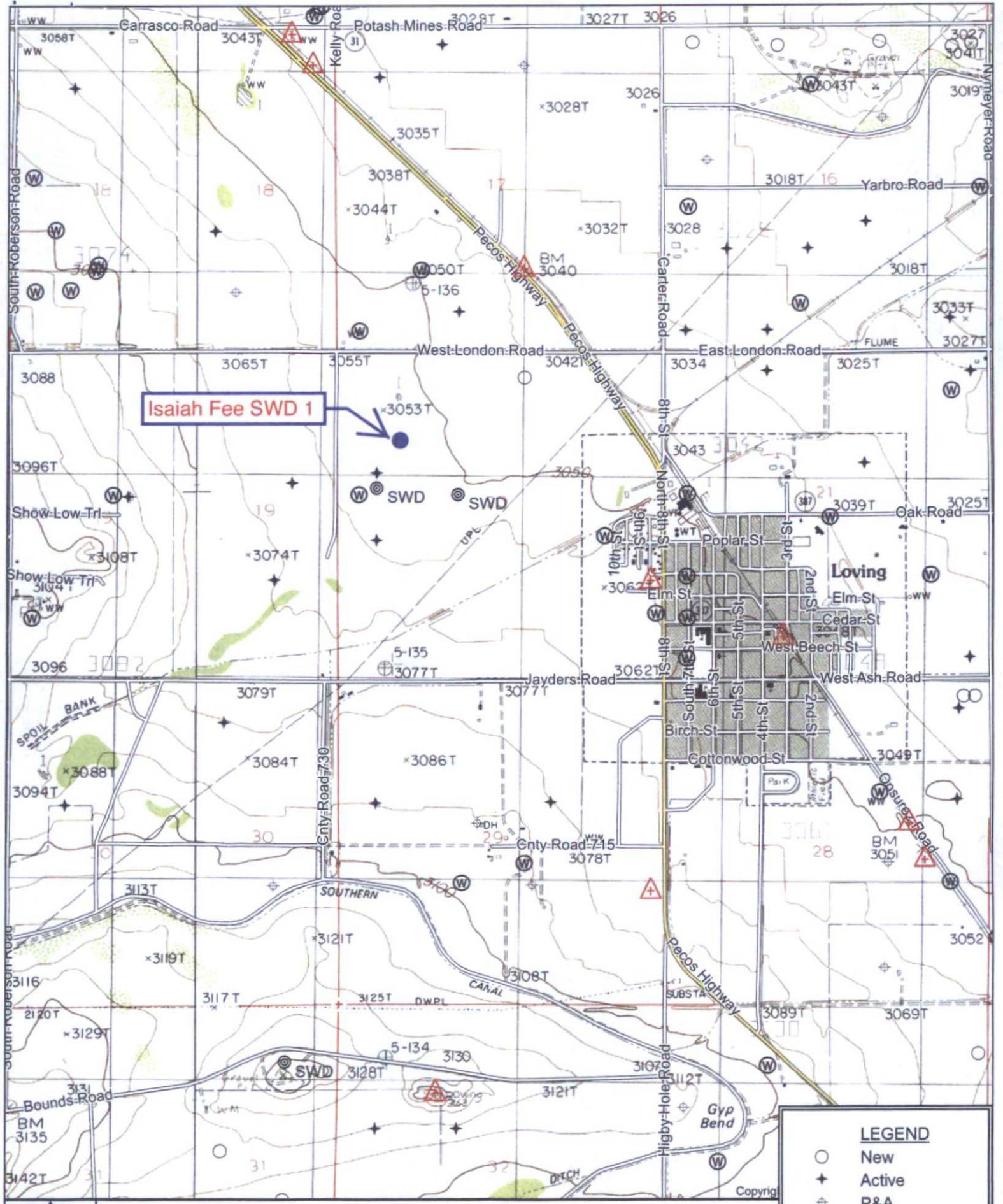
30-015-43742

X. DLL, GR/N density, and CBL logs will be run.

XI. Based on February 12-13 and May 17, 2016 field inspections, one active water well is within a one-mile radius and it was sampled. A second well, 1.3 miles from the proposed disposal well, was also sampled.

XII. Closest Quaternary fault (Guadalupe) is \approx 53 miles southwest (Exhibit K). Based on a review (Exhibit H) by geologist Dr. Dennis Powers, Basic Energy Services, LP is not aware of any geologic or engineering data that may indicate the Devonian is in hydrologic connection with any underground sources of water. Hundreds of feet of evaporites prevent that from occurring. Deepest water well within a 2-mile radius is 260' (Exhibit I). There are 129 approved Devonian saltwater disposal wells and 11 approved Devonian water injection wells in New Mexico.

XIII. A legal ad (see Exhibit L) was published on April 26, 2016. Notice (this application) has been sent (Exhibit M) to the surface owner (Henry McDonald) and lessees or operators (BC, Chevron, COG, Legacy, Mewbourne, Oxy USA WTP) within a half-mile.



Isaiah Fee SWD 1

3053T
3074T
SWD
SWD

- LEGEND**
- New
 - + Active
 - ⊕ P&A
 - ⊙ INJ
 - ⊙ SWD
 - ⊙ Water

Quad: LOVING
Scale: 1 inch = 2,000 ft.

EXHIBIT A



Copyright

APR 25 2016

DISTRICT I
1825 N. FRENCH DR., HOBBBS, NM 88240
Phone: (505) 393-6181 Fax: (505) 393-0720

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 748-1283 Fax: (505) 748-9720

OIL CONSERVATION DIVISION

RECEIVED

Revised August 1, 2011

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-8178 Fax: (505) 334-6170

1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Submit one copy to appropriate
District Office

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 478-3460 Fax: (505) 478-3462

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015- 43742	Pool Code 96101	Pool Name SWD; Devonian
Property Code 316145	Property Name ISAIAH FEE SWD	Well Number 1
OCRID No. 246368	Operator Name BASIC ENERGY SERVICES, LP	Elevation 3057.8'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	20	23-S	28-E		1435	NORTH	1008	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

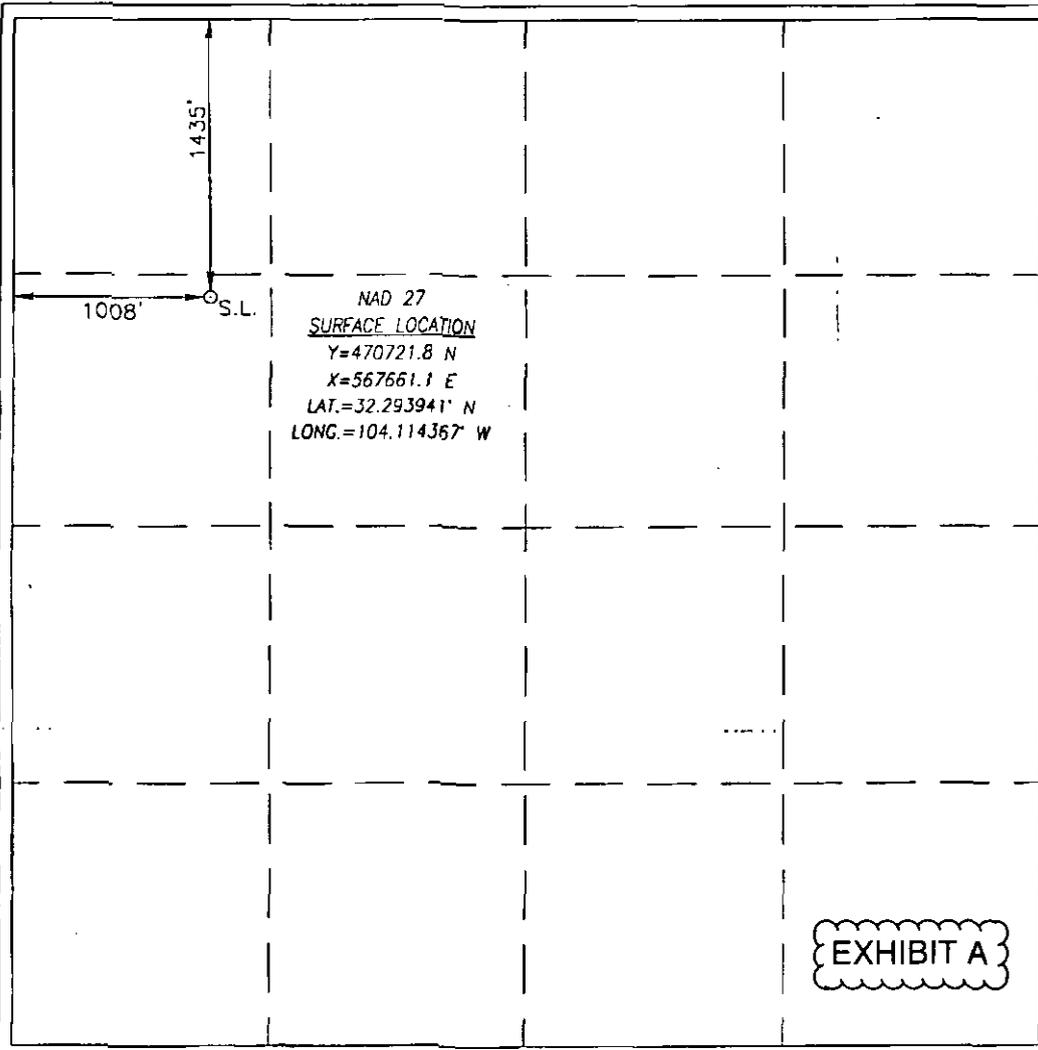


EXHIBIT A

OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.

Brian Wood 4-24-16
Signature Date
Brian Wood
Printed Name
brian@permitswest.com
E-mail Address

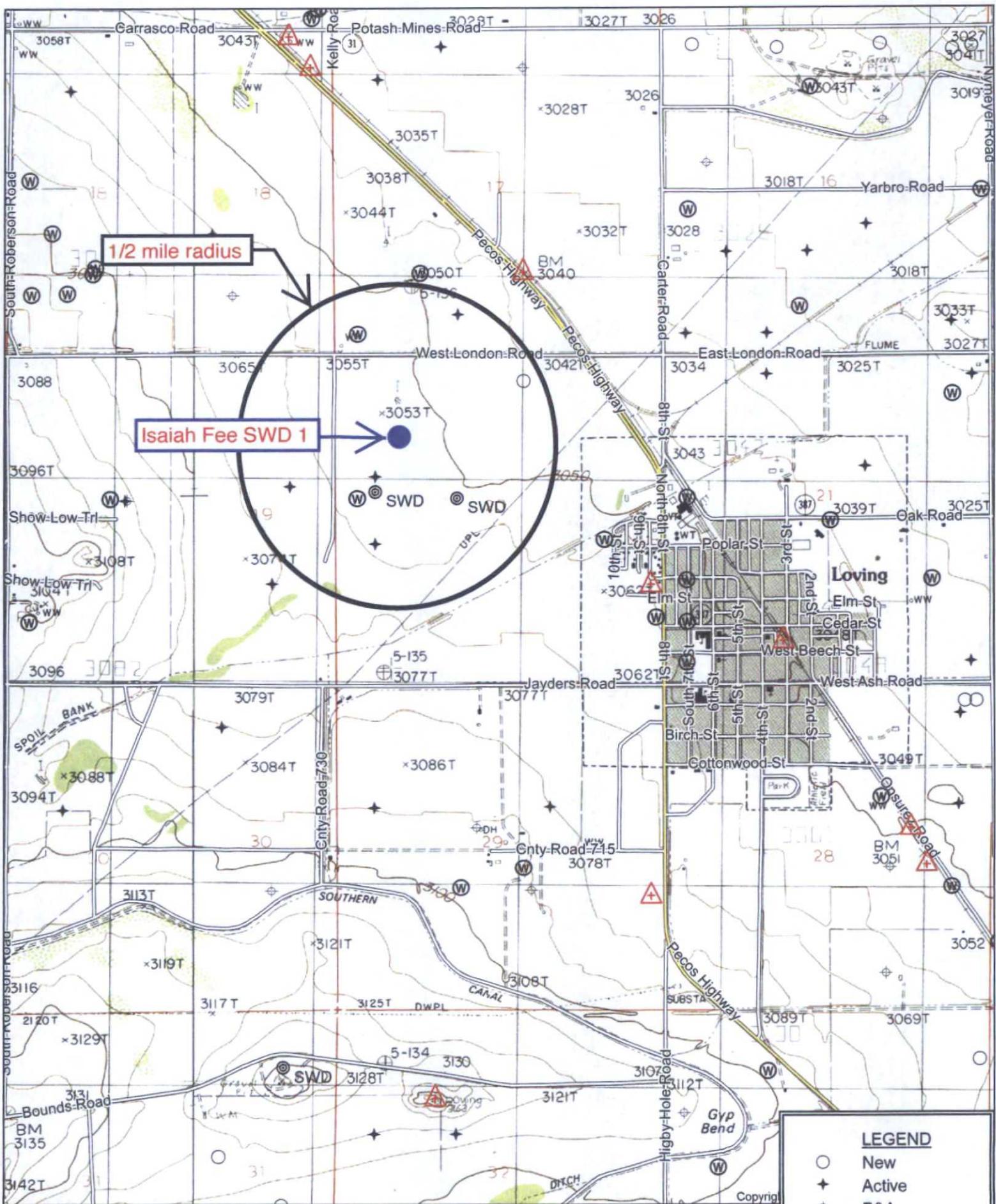
SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

APRIL 18, 2016
Date of Survey

Signature & Seal of Professional Surveyor

Chad L. Harcrow 4/21/16
Certificate No. CHAD HARCROW 17777
W.O. # 16-289 DRAWN BY: AF



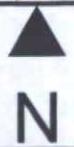
1/2 mile radius

Isaiah Fee SWD 1

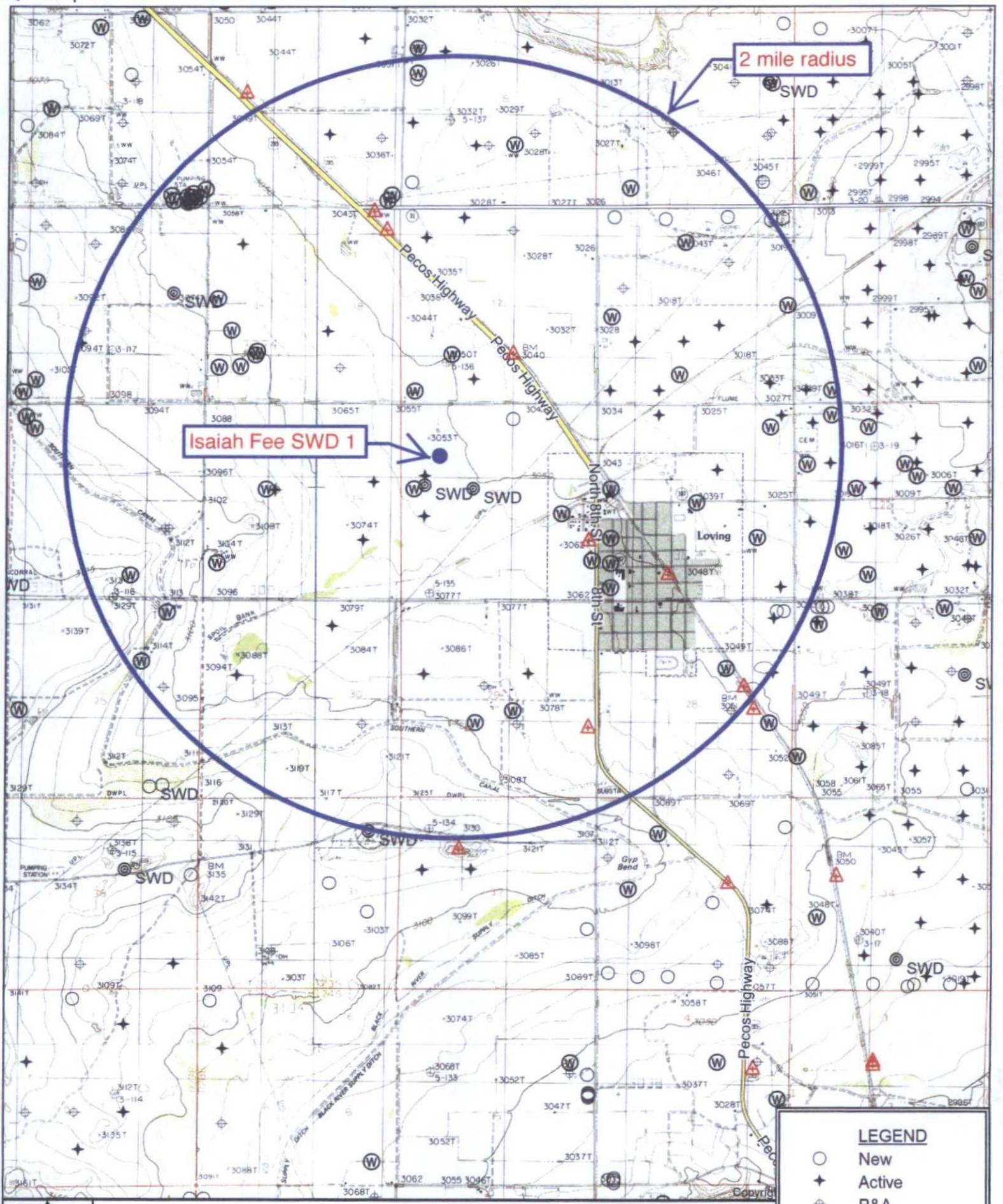
LEGEND	
○	New
+	Active
⊕	P&A
⊙	INJ
⊗	SWD
⊕	Water

Quad: LOVING
Scale: 1 inch = 2,000 ft.

EXHIBIT B



Copyright



2 mile radius

Isaiah Fee SWD 1

LEGEND	
○	New
+	Active
⊕	P&A
⊙	INJ
⊙	SWD
⊙	Water

Quad: LOVING
Scale: 1 inch = 3,333 ft.

EXHIBIT C



PO Box 2428
805 N. Richardson
Roswell, NM 88202
Telephone (575) 625-0599
Fax (575) 625-0687

REPORT

PROSPECT: Isaiah Fee SWD 1

Producing Well Information for 1/2 Mile Radius
Township 23 South, Range 28 East, N.M.P.M.

This plat is not to scale, well locations are estimated. For more precise placement, see the attached written report.

Yellow = proration units for producing wells

Blue = proration units for active APD's, but the well has not been drilled

+ Salt Water Disposal

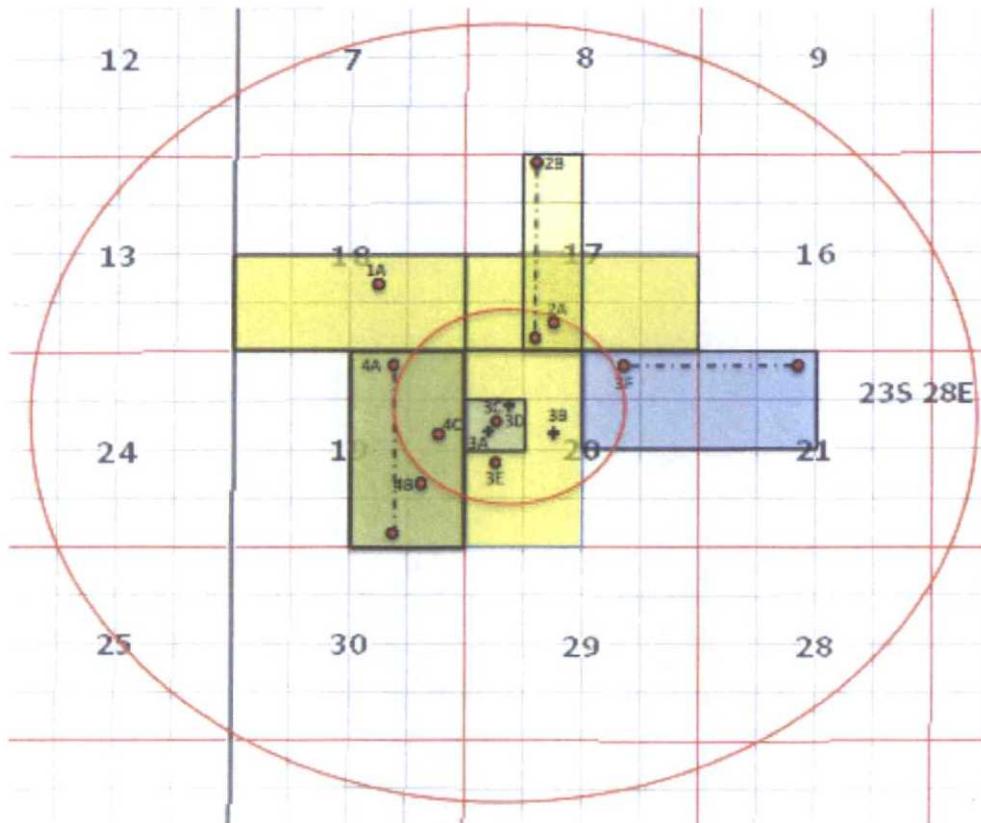


EXHIBIT D

REPORT

PROSPECT: Isaiah Fee SWD 1

Producing Well Information for Delaware Formation

RECORD DATE: 4/5/2016
REPORT DATE: 4/6/2016

LANDMAN: Sarah Spears

1. T23S-R38E Section 18: SE/4SE/4

A) Carter Gas Com #001

API: 30-015-22779

320.0 ac proration = S2

Location:

SHL: 1,980' FSL & 1,980' FEL

Spud Date:

7/28/1979

Depth:

MD: 12,664'

PB: 11,965'

Producing:

Atoka

(11,176' - 11,203')

Operator:

Chevron U.S.A., Inc.

P.O. Box 2100

Houston, TX 77252

2. T23S-R38E Section 17: S/2SW/4, SWSE

A) Carter #001

API: 30-015-24105

320.0 ac proration = S2

Location:

SHL: 660' FSL & 1,980' FWL

Spud Date:

1/20/1992

Depth:

MD: 12,600'

PB: 11,475'

Producing:

Atoka

(11,368' - 11,381')

Operator:

COG Operating, LLC

One Concho Center

600 W. Illinois Ave

Midland, TX 79701

B) Carter Farms A Fee Com #003H

API: 30-015-41758

Horizontal 160.0 proration

Location:

SHL: 330' FNL & 1,680' FWL

BHL: 330' FSL & 1,680' FWL

Spud Date:

5/24/2014

Depth:

MD: 13,638'

PB: 13,516'

Producing:

3rd Bone Spring

(9,745' - 13,516')

Operator:

OXY USA WTP Limited Partnership

PO Box 50250

Midland, TX 79710

EXHIBIT D

3. T23S-R38E Section 20: W2, W2NE

A) Belco #001

API: 30-015-25141
Salt Water Disposal = SWNW
Location:
660' FWL & 2,200' FNL

Operator:

Basic Energy Services, LP
P.O. Box 10460
Midland, TX 79701

B) Belco #002

API: 30-015-25433
Salt Water Disposal = SENW
Location:
2,310' FNL & 1,980' FWL

Operator:

Basic Energy Services, LP
P.O. Box 10460
Midland, TX 79701

C) Isaiah Fee SWD #001

New Not Drilled
API: 30-015-43472
Salt Water Disposal = SWNW
Proposed Location
1,435' FNL & 1,008' FWL
Estimated Spud Date:
Upon approval
Proposed Depth:
Montoya
14,600'

Operator:

Basic Energy Services, LP
P.O. Box 10460
Midland, TX 79701

D) Cronos Fee #001

API: 30-015-35569
320.0 ac proration = W2
Location:
SHL: 1,950' FNL & 660' FWL
Spud Date:
6/13/2007
Depth:
MD: 12,650'
PB: 11,815'
Producing:
Cisco
(10,660'–10,783')

Operator:

BC Operating, Inc.
P.O. Box 50820
Midland, TX 79710

E) Lakey Com #001

API: 30-015-23551
320.0 ac proration = W2
Location:
SHL: 2,280' FSL & 660' FWL
Spud Date:
11/13/1989
Depth:
MD: 12,600'
PB: 12,265'
Producing:
Bone Springs
(5,900' – 6,411')

Operator:

BC Operating, Inc.
PO Box 50820
Midland, TX 79710

EXHIBIT D

F) Whitesnake 20 21 W2BC Fee #001H

New Not Drilled
API: 30-015-43497
Horizontal 160.0 proration =
NWNE Sec 20, NENW Sec 21
Proposed Location:
SHL: 354' FNL & 2,395' FEL
BHL: 330' FNL & 2,310' FWL
Estimated Spud Date:
1/20/2016
Proposed Depth:
Wolfcamp
14,615'

Operator:
Mewbourne Oil Company
PO Box 5270
Hobbs, NM 88241

4. T23S-R38E Section 19: NE/4, N/2SE/4

A) Mariner Fee #001H

New Not Drilled
API: 30-015-43016
Horizontal 320.0 ac proration = E2
Location:
SHL: 250' FNL & 1,650' FEL
BHL: 330' FSL & 1,650' FEL
Estimated Spud Date:
12/1/2015
Proposed Depth:
Wolfcamp
15,550'

Operator:
BC Operating, Inc.
PO Box 50820
Midland, TX 79701

B) Mercury Fee #001

API: 30-015-34241
320.0 ac proration = E2
Location:
SHL: 1,650' FSL & 990' FEL
Spud Date:
8/2/2005
Depth:
MD: 12,730'
PB: 12,634'
Producing:
Morrow
(12,730' - 12,634')

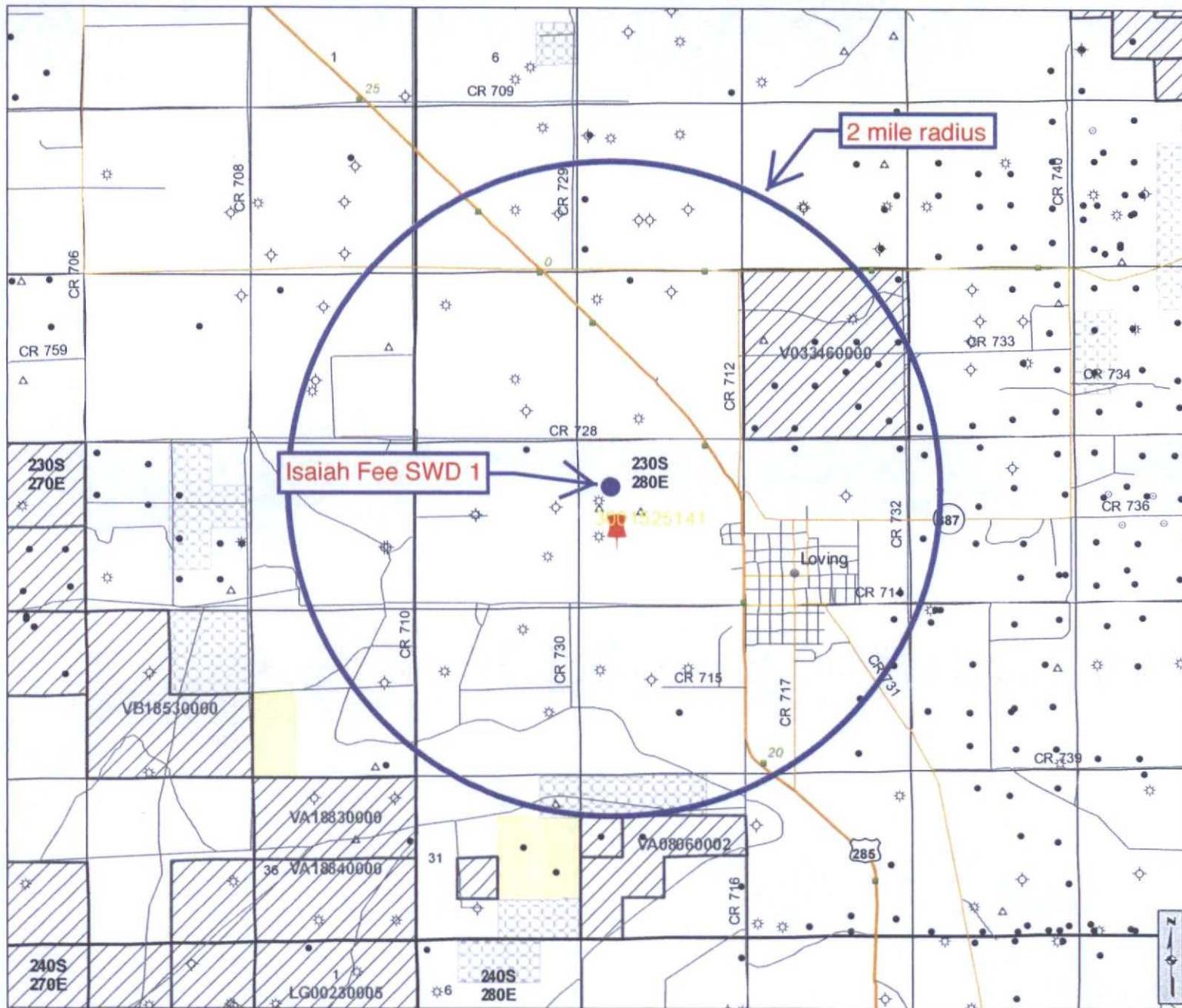
Operator:
BC Operating, Inc.
P.O. Box 50820
Midland, TX 79710

C) Guitar Estate Com #001

API: 30-015-23215
320.0 ac proration = E2
Location:
SHL: 2,100' FNL & 710' FEL
Spud Date:
4/2/1980
Depth:
MD: 12,580'
PB: 12,539'
Producing:
Morrow
(12,410' - 12,509')

Operator:
Legacy Reserves Operating, LP
P.O. Box 10848
Midland, TX 79702

EXHIBIT D



- Cartographic Features**
- County Boundaries
 - County Seats
 - City, Town or Village
 - SLO District Offices
 - SLO District Boundary
 - Hwy Mileposts
 - Interstate
 - US Hwy
 - NM Hwy
 - Local Road
 - Continental Divide
- Federal Minerals Ownership**
- All Minerals
 - Coal Only
 - Oil and Gas Only
 - Oil, Gas and Coal Only
 - Other Minerals
- State Trust Lands**
- Surface Estate
 - Subsurface Estate
 - Surface and Subsurface Estate
- State Leases**
- Oil and Gas Leases
 - Agricultural Leases
 - Commercial Leases
 - Minerals Leases
 - Not Available for Oil and Gas Leasing
 - Oil and Gas Leasing Influenced by Restriction
- Oil and Gas Related Features**
- Oil and Gas Unit Boundary
 - Participating Areas in Units
 - Geologic Regions
 - Volcanic Vents
 - NMOC D Order R-111-P Potash Enclave Outline
- NMOCD Oil and Gas Wells**
- CO₂
 - Gas
 - Injection
 - Miscellaneous
 - Oil
 - Salt Water Disposal
 - Water
 - DA or PA

**New Mexico State Land Office
Oil, Gas and Minerals**

0 0.2 0.4 0.8 1.2 1.6 Miles
 Universal Transverse Mercator Projection, Zone 13
 1983 North American Datum

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

Created On: 3/6/2016 11:46:02 AM

EXHIBIT E



www.nmstatelands.org



Basic
battery

32.29451, 104.11807

access

32.29452, 104.1154

32.29452, 104.11435

Isaiah Fee
SWD 1

104.11489

32.29163, 104.1154

32.29363, 104.11435



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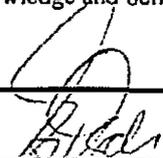
TO: <u>Jerry Woodward</u>	LABORATORY NO. <u>15-09-365</u>
ADDRESS: <u>2810 Savoy Place, Midland, TX 79705</u>	SAMPLE RECEIVED: <u>9/29/15</u>
COMPANY: <u>Smart Chemical</u>	RESULTS REPORTED: <u>9/29/15</u>
LEASE: <u>(Basic Energy Services)</u>	AREA: <u>Carlsbad, NM</u>

FORMATION:

DESCRIPTION OF SAMPLES				
No. 1	Submitted water sample - taken 9/28/15 from Belco State #1 SWD.			
No. 2	Submitted water sample - taken 9/28/15 from Belco State #2 SWD.			
No. 3				
No. 4				
Chemical and Physical Properties (milligrams per liter)	No. 1	No. 2	No. 3	No. 4
Specific Gravity @ 60°F.	1.1120	1.1110		
pH When Sampled				
pH When Received	8.6	8.6		
Bicarbonate as HCO ₃	915	1,281		
Total Hardness, as CaCO ₃	23,600	23,400		
Calcium, as Ca	8,000	8,000		
Magnesium, as Mg	875	826		
Sodium and/or Potassium	64,318	59,932		
Sulfate, as SO ₄	725	608		
Chloride, as Cl	113,630	106,529		
Iron, as Fe	6.9	4.2		
Barium, as Ba	0	0		
Total Dissolved Solids, Calculated	189,483	178,255		
Hydrogen Sulfide	0.0	0.0		
Resistivity, ohms/m @ 77°F.	0.060	0.062		
Carbonate, as CO ₃	1,020	1,080		
Hydroxide, as OH	0	0		
Corrosiveness	Moderate	Moderate		
Barium Sulfate Scalling Tendency	None	None		
Calcium Carbonate S.I. @ 77° F. (Stiff-Davis)*	3.73	3.72		
Calcium Carbonate S.I. @ 122° F. (Stiff-Davis)*	4.41	4.36		
Calcium Sulfate Scalling Tendency	None	None		

* Calcium Carbonate S.I. - A positive fig. signifies a scalling potential proportionate to the magnitude of the number, and a negative fig. signifies no scalling potential.

REMARKS: The undersigned certifies the above to be true and correct to the best of his knowledge and belief.



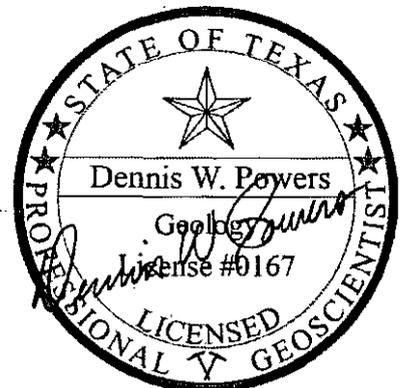
 By: Greg Ogden, B.S.



Brief Examination of Geology
at and Around Proposed Location of
Isaiah Fee #1 SWD,
T23S, R28E, section 20,
near Loving, NM

Dennis W . Powers, Ph.D.
Consulting Geologist
Anthony, TX

May 2, 2016



This report is confidential to Basic Energy
Services

EXHIBIT H

Isaiah Fee #1 SWD Geology Evaluation Loving NM

Summary

Isaiah Fee #1 will be located in the NW¼, section 20, T23S, R28E, just northwest of Loving, NM. A mainly carbonate interval, up to ~1000 ft thick, below the Devonian Woodford Shale is the intended injection zone. Other SWD wells in the area show this interval, commonly termed "Devonian" in OCD orders, has relatively low natural gamma, high density, and several hundred feet of rock displaying relatively high log porosity. Two well logs through most or all of the Devonian to the west-northwest and east-southeast were used to estimate a depth to top of Devonian of ~13,600 ft below ground level. A well near the Isaiah Fee location was used separately to extrapolate depths; the top of Devonian may be ~60 ft shallower.

Structure contours on top of Mississippian rock around the Isaiah Fee location show no evidence of faulting. The top of Delaware Mountain Group and top of Bone Spring were examined to support permitting the nearby Belco #1 SWD, and no evidence of faulting was found.

Data for rocks below the Devonian are scarce around Isaiah Fee. Humble Federal Wiggs #1 (30-015-01137) is ~10.6 miles southwest of Isaiah Fee. The Wiggs well (TD 14,865 ft) penetrated Woodford, ~1000 ft of "Devonian," Montoya and Simpson (Groups), and upper Ellenburger Formation. The Wiggs well shows zones of high natural gamma just below Devonian and above Ellenburger, and these should provide additional isolation from Ellenburger. Elsewhere, the shales of the Simpson are interpreted as a seal over Ellenburger fields.

A short geophysical log cross-section near Isaiah Fee clearly shows thick, continuous anhydrite and halite beds of the Castile that provide excellent isolation of shallow ground water from natural upward migration of fluids injected below Castile.

General Information

I was contacted by email by David Alvarado early April 2016 to conduct a geological evaluation of the area at and around the proposed location for Isaiah Fee #1 SWD well (Figure 1, base map; yellow star) in the NW¼, section 20, T23S, R28E. The principal geological formation of interest is the carbonate interval immediately below the Woodford. The location is ~1.5 mile west-northwest of Loving, NM.

Groundwater Isolation

A previous report (Powers, 2016) evaluated the area at and around the nearby Belco #1 well (API 30-015-25141), with emphasis on isolation of groundwater. In that report, elevation maps on the top of Delaware Mountain Group and top of Bone Spring showed no indications of faulting at either horizon. The report also included cross-section geophysical log evidence of continuous halite and anhydrite beds of the Permian Castile Formation (included in Appendix). Shallow groundwater is protected from below by the evaporites, and there is no evidence of faults to provide a natural pathway for fluids from deeper to the ground water.

Data Availability

Broadhead (2006) provides data on depth to top of Mississippian (Barnett Shale) in sufficient detail around T23S, R27-28E to construct an elevation map (Figure 1, TopMiss & ContoursTopMiss layers). There is no evidence to support faulting at this horizon. The top of Mississippian is the deepest horizon known with sufficient data to evaluate local faulting around the proposed SWD location.

The Oil Conservation Division (OCD) of the New Mexico Energy, Minerals, and Natural Resources Department maintains electronic records and geophysical logs for drillholes in

Isaiah Fee #1 SWD Geology Evaluation Loving NM

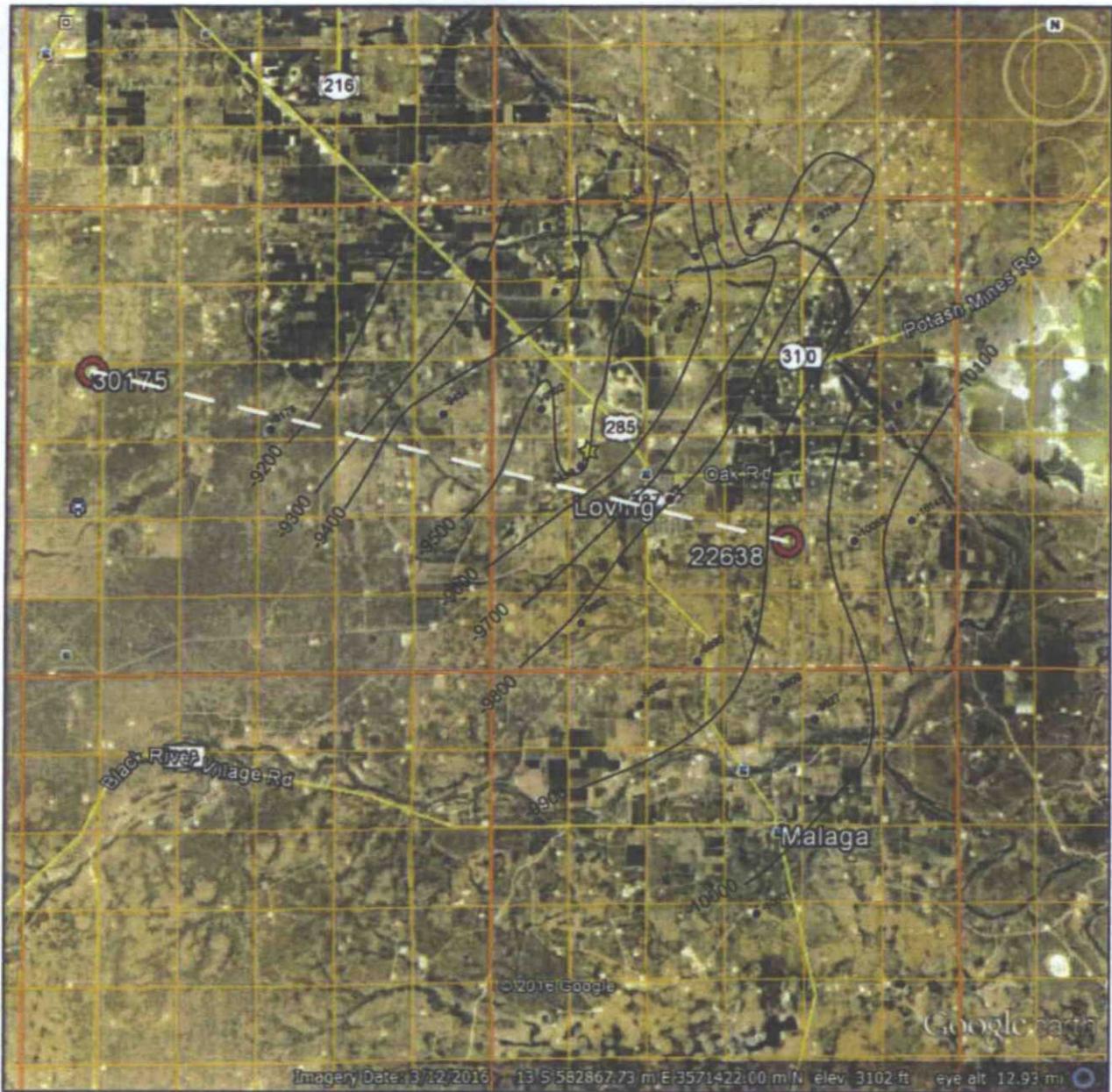


Figure 1. Base map (Google Earth) with township and section outlines. Yellow star near center marks approximate location of Isaiah Fee #1. TopMiss layer displays elevation data for top of Mississippian based on Broadhead (2006). ContoursTopMiss layer displays the 100 ft contours hand drawn for the elevation of top of Mississippian. SectionThruDevonian layer includes the white dashed line for the estimates of depth to “Devonian” using data from the Mewbourne wells with logs (red circles).

Isaiah Fee #1 SWD Geology Evaluation Loving NM

the state. The information available locally is extensive as drilling has been significant in the area of the SWD for many years. Nevertheless, within T23S, R27-28E, the only geophysical logs known penetrating significantly below the Woodford were supplied to David Alvarado by Mewbourne Oil Company for their new SWDs. These are Top Gun Fed SWD #1 (30-015-31075; sec 18, T23S, R27E) and Layla 27 SWD #1 (30-015-22638; sec 27, T23S, R28E). These drillholes penetrated to 13,780 ft and 15,000 ft, respectively.

Geophysical Log Interpretation

A principal objective here is to estimate the depth to the base of the Woodford at the Isaiah Fee #1 location. This would be the minimum depth to reach the intended Devonian injection zone. Another objective is to define underlying units and make an estimate of potential interconnections with Ellenburger.

As wells near the Isaiah location do not penetrate the Woodford, other means were necessary to estimate depths. Logs for the two Mewbourne SWDs are the substantive evidence for estimating depth and thickness of potential injection intervals below Woodford at the Isaiah Fee #1 location.

For the Top Gun well, only the Mewbourne-supplied CNL-GR log is available; neither OCD nor commercial sources I subscribe to have other logs for this well. The Top Gun log begins at 12,000 ft depth (Figure 2). To provide estimates of stratigraphic horizons above 12,000 ft at the Top Gun location, geophysical logs from 30-015-20587 and 30-015-20868 were examined. These wells are nearly identical distances west and east, respectively, of the Top Gun SWD.

The well log for the Layla SWD to current depth is a cement bond log. The natural gamma portion

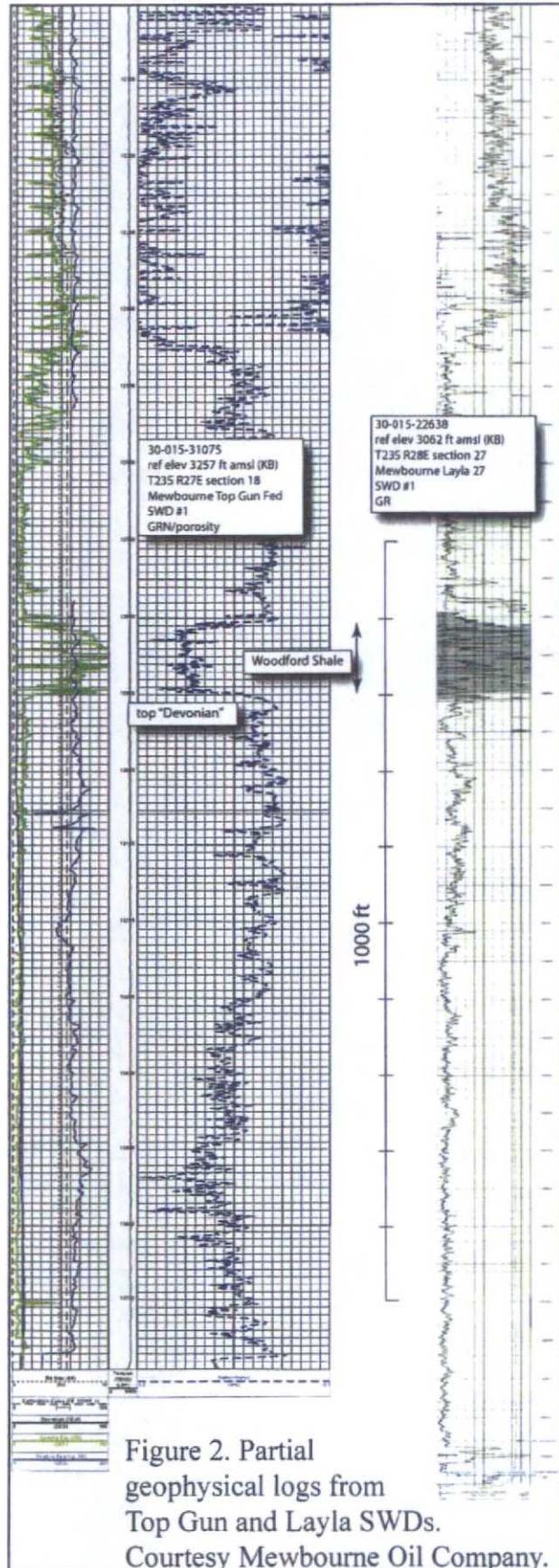


Figure 2. Partial geophysical logs from Top Gun and Layla SWDs. Courtesy Mewbourne Oil Company.

Isaiah Fee #1 SWD Geology Evaluation Loving NM

of that log was used (Figure 2) for correlation. Logs taken to 13,100 ft before deepening are available for shallower stratigraphic picks that are less easily defined by the cement bond log.

Geophysical logs from 30-015-35569, next to the Isaiah Fee location, provide data for strata to a depth of 12,650 ft, sufficient to define an informal stratigraphic horizon ("datum") above the Woodford. This horizon can be identified at the Top Gun and Layla SWDs to infer depths at the Isaiah Fee location. (Figure 3).

The geophysical logs from 30-015-10842 (Pardue "31" Com 1; section 31, T23S, R28E) penetrate the Woodford from 13,602-13,733 ft (ref elev KB 3130 ft). The log below that to TD (13,915 ft) is labelled "Sil." The short (~150 ft) zone below Woodford has low natural gamma and high acoustic velocity, indicating carbonate.

Woodford and Devonian at Isaiah Fee #1

Figure 3 illustrates the reference point used to estimate tops and depths at Isaiah Fee #1.

"Datum" is a stratigraphic horizon that is expressed (and identified) in many well logs in the area (Figure 3). It is in the lower Atoka and above the Morrow limestone and clastics. The "datum" is used as a prominent marker relative to the Woodford; it was used (Figure 4) as the principal reference point at Isaiah Fee #1.

At Top Gun, no log is available shallow enough for estimating "datum." The two logs bracketing the well west and east (see previous section) have elevations for "datum" of -7689 ft and -7884 ft, respectively. They are nearly due east and west of Top Gun and equidistant; the average of -7787 ft elevation was assigned to "datum" at Top Gun (Figure 4).

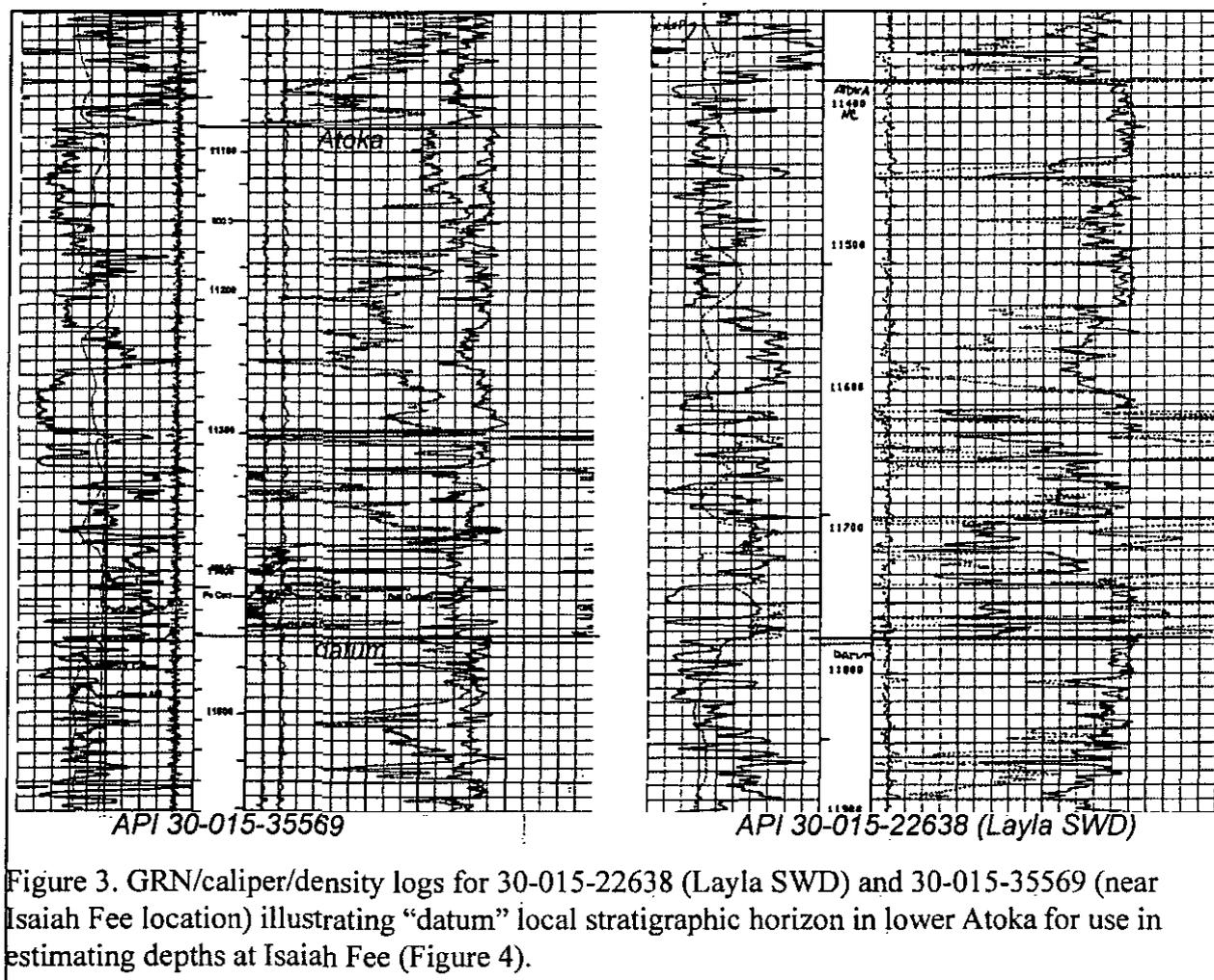
A straight line dip was assumed for the top of Devonian (base of Woodford Shale) between Top Gun and Layla. Because Isaiah Fee is nearly along a straight line between these two SWDs, the depths for "datum" and top of Devonian were calculated based on the proportional distance from Isaiah to each SWD. They are represented by the projected elevation of -8441 ft for "datum" and -10523 ft estimated for Devonian. The actual elevation of "datum" in the nearby well (30-015-25569) is -8379 ft, a positive (higher) elevation of 62 ft. A regional map (Haigler and Cunningham, 1972) shows an elevation of ~-10,700 for top of "undifferentiated Silurian and Devonian."

The surface elevation at the Isaiah Fee location is estimated from topography to be ~3078 ft amsl. The depth to top of Devonian (the injection interval) is estimated to be 13,600 ft using straight line dip calculations. Given the difference (+62 ft) between actual "datum" elevation and straight line dip calculations, the top of the injection interval may be closer to 13,540 ft deep.

The open hole injection interval at Layla is ~1,000 ft thick and begins ~40 ft below base of Woodford. The Top Gun open hole interval is unclear, as no completion report was found on the OCD site. The log depth of the well is 13,780 ft (driller depth 13,770 ft). The log header shows a 5.5-inch casing depth of 13,770 ft, but that is possibly temporary. The Top Gun drilling plan calls for a casing at 12,900 ft, which is base of Woodford, for all practical purposes. If the injection interval is 12,900-13,780 ft, the total open hole interval is 880 ft at Top Gun.

The top of the injection interval should be relatively easy to determine while drilling by monitoring cuttings and drilling character because of the sharp change from shale to carbonate.

EXHIBIT H



The porosity log from Top Gun indicates the interval from ~400-800 (near base) below Woodford is highest in porosity. Both natural gamma logs are higher in the upper ~300 ft below Woodford and lower in the lower logged interval, although natural gamma increases significantly near TD of the Layla well. Overall, there is a large interval with higher porosity for injection.

Stratigraphic Units

The stratigraphic units examined here have generally well defined equivalents in outcrops in southeastern New Mexico and west Texas. Nomenclature used in the subsurface in

southeastern New Mexico and west Texas for these lower Paleozoic units varies regionally, from geologist to geologist, and through the history of subsurface exploration and development in the region. Names vary from traditional lithostratigraphic usage (e.g., Woodford Shale, Ellenburger Formation) to system (e.g., Devonian or Siluro-Devonian) that normally are used for intervals of geologic time.

The Woodford has been attributed to late Devonian to early Mississippian age. Some authors (e.g., Canter et al., 1992) attribute it only as Devonian, as do LeMone (1992) and (Raatz, 2005) for the equivalent Percha Shale in south-central NM. These are by no means the

Isaiah Fee #1 SWD Geology Evaluation Loving NM

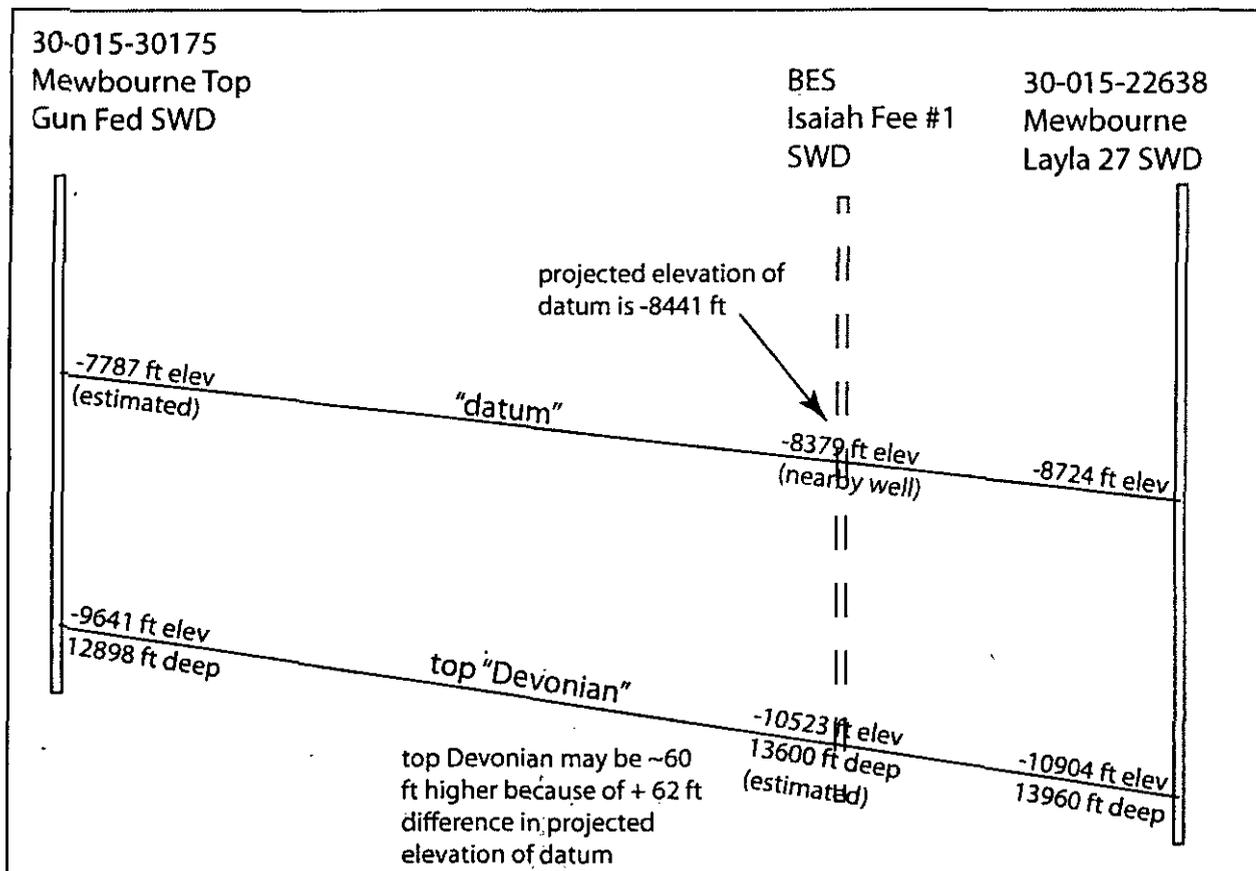


Figure 4. Straight line correlations between Top Gun and Layla SWDs provide an initial estimate of elevation of a common "datum" and the top of "Devonian" (base of Woodford Shale). Well 30-015-35569 near Isaiah provides a check on the straight line projection for "datum."

only age assignments for the shales that were widely deposited over an interval of time from middle-late Devonian to early Mississippian.

Because of the precedent set with the Mewbourne wells, the interval is here simply termed Devonian.

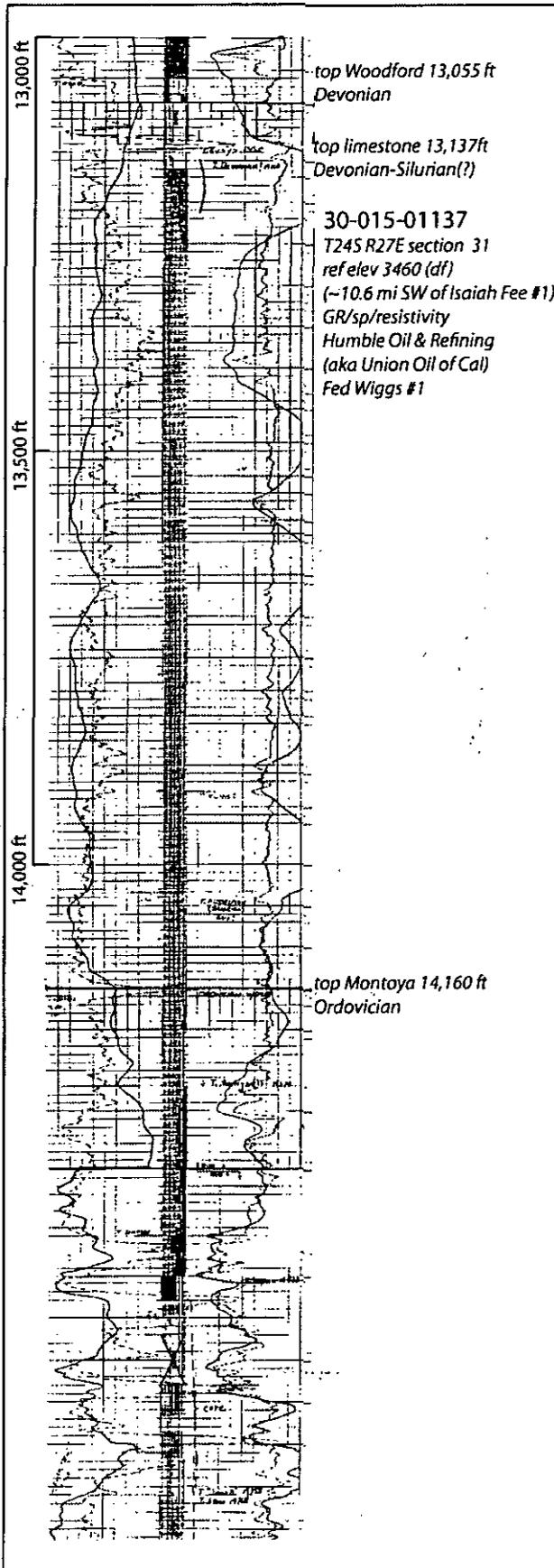
The carbonate interval below the Woodford and above the upper Ordovician Montoya Group (or Formation) in this area was labelled Siluro-Devonian (Roswell Geological Society, 1962) in well correlation diagrams that included the Humble Wiggs Fed 1 well (API 30-015-01137) in section 31, T24S, R27E. Part of the log from the Wiggs well is reproduced here (Figure 5). Other regional cross-sections of the time and later followed this practice or labelled part or all of the interval as Fusselman Formation (Silurian).

Separation of Injection Interval from Ellenburger

Previous orders by OCD (e.g., SWD-1561, 7/15/15) for similar SWD wells do "... not allow disposal into the Ellenburger formation (lower Ordovician) or lost circulation intervals directly on top and obviously connected to this formation."

Various investigators have detailed outcrop and subsurface evidence of paleokarst features

Isaiah Fee #1 SWD Geology Evaluation Loving NM



of lower Paleozoic rocks in west Texas and to a lesser degree in New Mexico. Examples include LeMone (1992; Early-Middle Silurian Fusselman Formation and Late Ordovician Cutter Formation of the Montoya Group) for outcrops in the Franklin Mountains; Entzminger and Loucks (1992; Wristen Formation in Gaines and Yoakum Counties, TX); Mazzulo and Mazzulo (1992; Fusselman Formation, west Texas); and Canter et al. (1992; Silurian Wristen Formation or northern Permian Basin).

High-porosity intervals or zones, including those with paleo-karst, may exhibit lost circulation, but that does not demonstrate connection with another unit (e.g., Ellenburger). An interval below a major unconformity, such as below the Woodford, may well show paleokarst and porosity associated with that unconformity. The existing natural gamma logs of the two display some increased natural gamma immediately below the Woodford that might be attributable to some infiltration during early deposition of Woodford shales. Nevertheless, the natural gamma for several hundred feet below this upper Devonian does not display any significant increased natural gamma that might be attributable to paleokarsting and clay or clastic infiltration.

Well-known fabrics associated with paleokarst are generally identified with core rather than logs. The main question is not whether there is increased porosity but whether there is connection with Ellenburger.

Figure 5. Lower portion of geophysical log from 30-015-01137 (Humble Oil & Refining Fed Wiggs #1) located in section 31, T24S, R27E, ~10.6 miles southwest of Isaiah Fee location. This appears to be the nearest logged well reaching Ellenburger Formation.

Isaiah Fee #1 SWD Geology Evaluation Loving NM

The log of the Layla well shows a zone of considerably increased natural gamma just above TD. Because of the limited additional depth, it is not certain if this is the top of Montoya Group. The Wiggs Federal well (30-015-01137) is interpreted to include ~1000 ft of Siluro-Devonian rocks, similar to the interval penetrated in each of the Mewbourne wells. Below that, the Montoya and Simpson each reveal higher natural gamma of magnitude roughly similar to the Woodford. In the Wiggs well, total thickness between Siluro-Devonian and Ellenburger is ~600 ft. Regional cross-sections indicate this interval is likely to be about the same thickness at the Isaiah location. These intervals cumulatively would help isolate the injection interval from the Ellenburger.

In a broad review of the Ellenburger as a reservoir rock, Loucks (2003?) described the fractured karst of the Ellenburger and cited work (op. cit., p. 28) indicating the source rocks for the Ellenburger are putatively from the Simpson where Simpson is present. Loucks (op. cit., p. 29) also indicated these shales are the seals for the Ellenburger in Central Basin fields.

Conclusions

The carbonates immediately below the Woodford Shale show a thick interval of relatively high porosity in the Top Gun geophysical log and should provide excellent injection prospects. The top of the carbonate is estimated to be ~13,540-13,600 ft deep at the Isaiah Fee #1 location.

Previous work demonstrated that shallow surface ground water is protected from deeper injected fluids by thick Castile evaporites of extremely low permeability. A log cross-section of Castile (Powers, 2016) near the Isaiah Fee location is attached within the Appendix.

Lower Paleozoic rocks (e.g., Ellenburger, Simpson and Montoya Groups) are well known regionally for paleokarst and some interconnections. The Simpson may be source rock for some of the Ellenburger production known mainly from far east of this location. In addition, the Simpson is considered a seal for Ellenburger fields on the Central Basin Platform. The Wiggs log (Figure 5) provides evidence of intervals of higher natural gamma (similar in magnitude to Woodford) between Ellenburger and "Devonian;" these zones, interpreted as shales or shaly, should inhibit connections to the Ellenburger.

Notes for Figure 1

Figure 1 has multiple layers labelled in the caption and accessible in the pdf.

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Isaiah Fee #1 SWD Geology Evaluation Loving NM

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- Raatz, W.D., 2005, Devonian shelf to basin facies distributions and source rock potential, south-central and southwestern New Mexico: Open-file Report 484, New Mexico Bureau of Geology and Mineral Resources, Socorro, NM.
- Roswell Geological Society, 1962, Panel Diagram of southern and eastern New Mexico showing pre-Mississippian Paleozoic correlations: Stratigraphic Studies Committee, Roswell, NM.

Isaiah Fee #1 SWD Geology Evaluation Loving NM

Appendix
Figure 2 from Powers (2016)
Log Cross-section Through Belco #1 Showing
Continuity of Lower Castile Anhydrite and Halite Beds

Isaiah Fee #1 SWD Geology Evaluation Loving NM

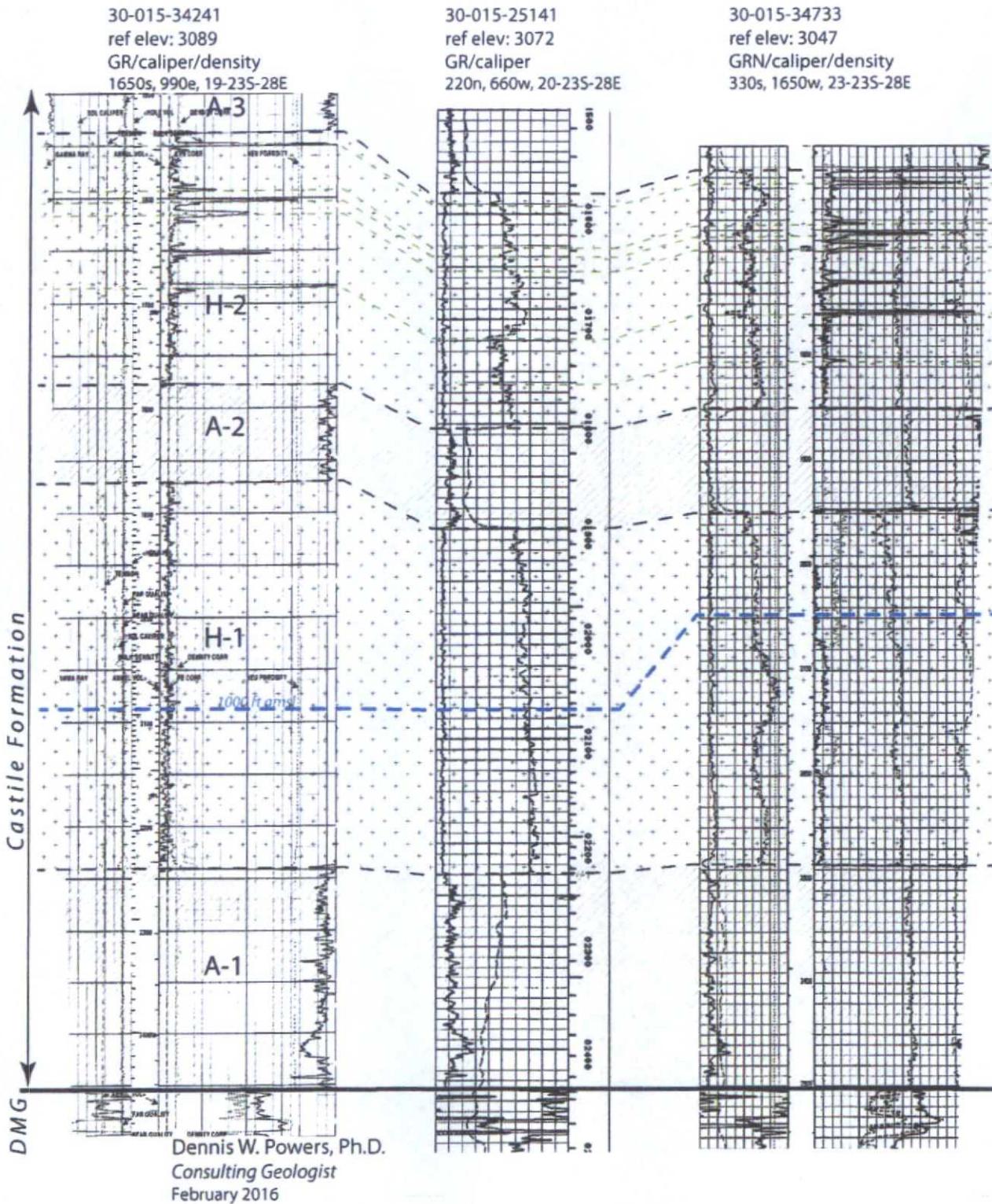


Figure 2. Log cross-section through the Belco #1 (30-015-25141) showing the continuity of lower Castile halite and anhydrite beds in the area. These beds are nearly impermeable and provide confinement or isolation of DMG fluids from shallow groundwater. Top of DMG is used as a common artificial elevation. A = anhydrite, H + halite. (Original from Powers, 2016.)



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

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

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column	
C 00312	O		ED	3	3	1	20	23S	28E	583140	3573106*	335	230	70	160	
C 00313			ED	3	3	3	17	23S	28E	583136	3573915*	577	250	75	175	
C 00851	C		ED			3	17	23S	28E	583438	3574217*	847	200	50	150	
C 00911 POD2	C		ED	1	2	4	20	23S	28E	584359	3572911*	1119	69	34	35	
C 00911 POD3	C		ED	1	2	4	20	23S	28E	584359	3572911*	1119	218	60	158	
C 01992	C		ED	3	4	1	19	23S	28E	581929	3573094*	1438	232	45	187	
C 00544	C		ED	3	3	1	21	23S	28E	584762	3573120*	1444		27		
C 02848			ED	3	3	1	21	23S	28E	584762	3573120*	1444	130			
C 03542 POD1	CUB		ED	2	4	4	20	23S	28E	584615	3572530	1529	22	16	6	
C 03542 POD2	CUB		ED	2	4	4	20	23S	28E	584620	3572497	1551	30			
C 00577	C		ED	3	1	3	21	23S	28E	584764	3572714*	1569	35	10	25	
C 00578	C		ED	3	1	3	21	23S	28E	584764	3572714*	1569	28	18	10	
C 00643	C		ED	3	1	3	21	23S	28E	584764	3572714*	1569	76	10	66	
C 00650	C		ED	1	3	3	21	23S	28E	584767	3572508*	1669	32	12	20	
C 02180	C		ED			3	18	23S	28E	581831	3574198*	1718	140	80	60	
C 03922 POD1	C		ED	3	2	3	18	23S	28E	581844	3574230	1722	138	75	63	
C 00539	C		ED	3	3	3	21	23S	28E	584767	3572308*	1781	28	6	22	
C 03779 POD1	C		ED	2	3	3	18	23S	28E	581707	3574103	1788	110	70	40	
C 00520	C		ED	1	1	3	16	23S	28E	584754	3574538*	1830	115	33	82	
C 00521	C		ED	1	1	3	16	23S	28E	584754	3574538*	1830	218	33	185	
C 03082	C		ED	1	3	3	18	23S	28E	581529	3574096*	1949	220	217	3	
C 02697	C		ED			1	3	18	23S	28E	581629	3574401*	1995	220	42	178
C 01477			ED	1	3	3	19	23S	28E	581532	3572484*	2015	127	10	117	
C 00333			ED	3	1	2	18	23S	28E	582325	3575118*	2016	147			
C 00519	C		ED	2	1	1	28	23S	28E	584970	3572100*	2069	250			
C 03762 POD1	CUB		ED	4	4	2	17	23S	28E	585314	3574066	2091	40	31	9	

1 mile = 1610 meters

*UTM location was derived from PLSS - see Help

EXHIBIT I

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

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

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

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

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03472 POD1	C	ED		4	4	4	07	23S	28E	582894	3575479	2151	140	40	100
C 00716	C	ED					21	23S	28E	585471	3573012*	2161	140	69	71
C 00108	CUB	ED		1	1	4	29	23S	28E	583974	3571285*	2184	152	10	142
C 02846 S		ED		4	4	4	07	23S	28E	582926	3575527*	2191	150	40	110
C 01648	C	ED		2	3	29	23S	28E	583667	3571184*	2215	65	15	50	
C 02037	C	ED		2	3	29	23S	28E	583667	3571184*	2215	260			
C 03753 POD1	C	ED		3	3	1	18	23S	28E	581515	3574658	2231	210	60	150
C 00010	CUB	ED		1	2	2	25	23S	27E	581129	3572075*	2564	250	103	147
C 00010 CLW191759	O	ED		1	2	2	25	23S	27E	581129	3572075*	2564	259		
C 00010 ENLGD	CUB	ED		1	2	2	25	23S	27E	581129	3572075*	2564	259		
C 03941 POD2	CUB	ED		3	4	2	13	23S	27E	581152	3574745	2581	32		
C 03941 POD1	CUB	ED		3	4	2	13	23S	27E	581110	3574757	2623	37	19	18
C 00504		ED		3	1	4	08	23S	28E	583939	3575949*	2642	230	40	190
C 00311	C	ED		4	2	1	16	23S	28E	585353	3575152*	2685	163	55	108
C 02004	C	ED		3	4	24	23S	27E	580825	3572378*	2705	232	190	42	
C 03762 POD2	CUB	ED		4	4	2	17	23S	28E	584893	3575598	2711	40	30	10
C 00327	CUB	ED		3	2	4	21	23S	28E	585974	3572728*	2712	212		
C 01885	C	ED		2	2	21	23S	28E	586070	3573640*	2742	104	35	69	
C 03888 POD3	CUB	ED		4	4	4	12	23S	27E	581348	3575495	2909	35		
C 03819 POD4	CUB	ED		4	4	4	12	23S	27E	581306	3575464	2915	35		
C 03888 POD2	CUB	ED		4	4	4	12	23S	27E	581400	3575557	2920	30		
C 03819 POD1	CUB	ED		4	4	4	12	23S	27E	581270	3575463	2941	36		
C 03819 POD2	CUB	ED		4	4	4	12	23S	27E	581270	3575463	2941	34		
C 03819 POD5	CUB	ED		4	4	4	12	23S	27E	581256	3575451	2941	36		
C 03888 POD5	CUB	ED		4	4	4	12	23S	27E	581295	3575494	2945	35		
C 01472	C	ED		2	3	2	28	23S	28E	585730	3571652	2946	162	10	152
C 00010 CLW191724	O	ED		2	3	2	25	23S	27E	580926	3571666*	2957	259		
C 03888 POD1	CUB	ED		4	4	4	12	23S	27E	581295	3575525	2967	35		
C 03819 POD3		ED		4	4	4	12	23S	27E	581256	3575500	2976	35		

*UTM location was derived from PLSS - see Help

EXHIBIT I

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

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

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

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

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03888 POD4	CUB		ED	3	4	4	12	23S	27E	581139	3575462	3033	35		
C 01253			ED	1	3	1	22	23S	28E	586375	3573338*	3035	179	50	129
C 03053	C		ED	3	4	4	12	23S	27E	581122	3575505*	3075	94	14	80
C 03457	C		ED	3	4	4	12	23S	27E	581081	3575530	3122	200		
C 03762 POD3	CUB		ED	4	2	2	16	23S	28E	586203	3574642	3131	40	30	10
C 00309	C		ED	1	3	1	08	23S	28E	583129	3576544*	3176	165	16	149

Average Depth to Water: 46 feet

Minimum Depth: 6 feet

Maximum Depth: 217 feet

Record Count: 61

UTMNAD83 Radius Search (in meters):

Easting (X): 583340

Northing (Y): 3573375

Radius: 3220

EXHIBIT I

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

582000m E.

583000m E.

584000m E.

WGS84 Zone 13S 985000m E.

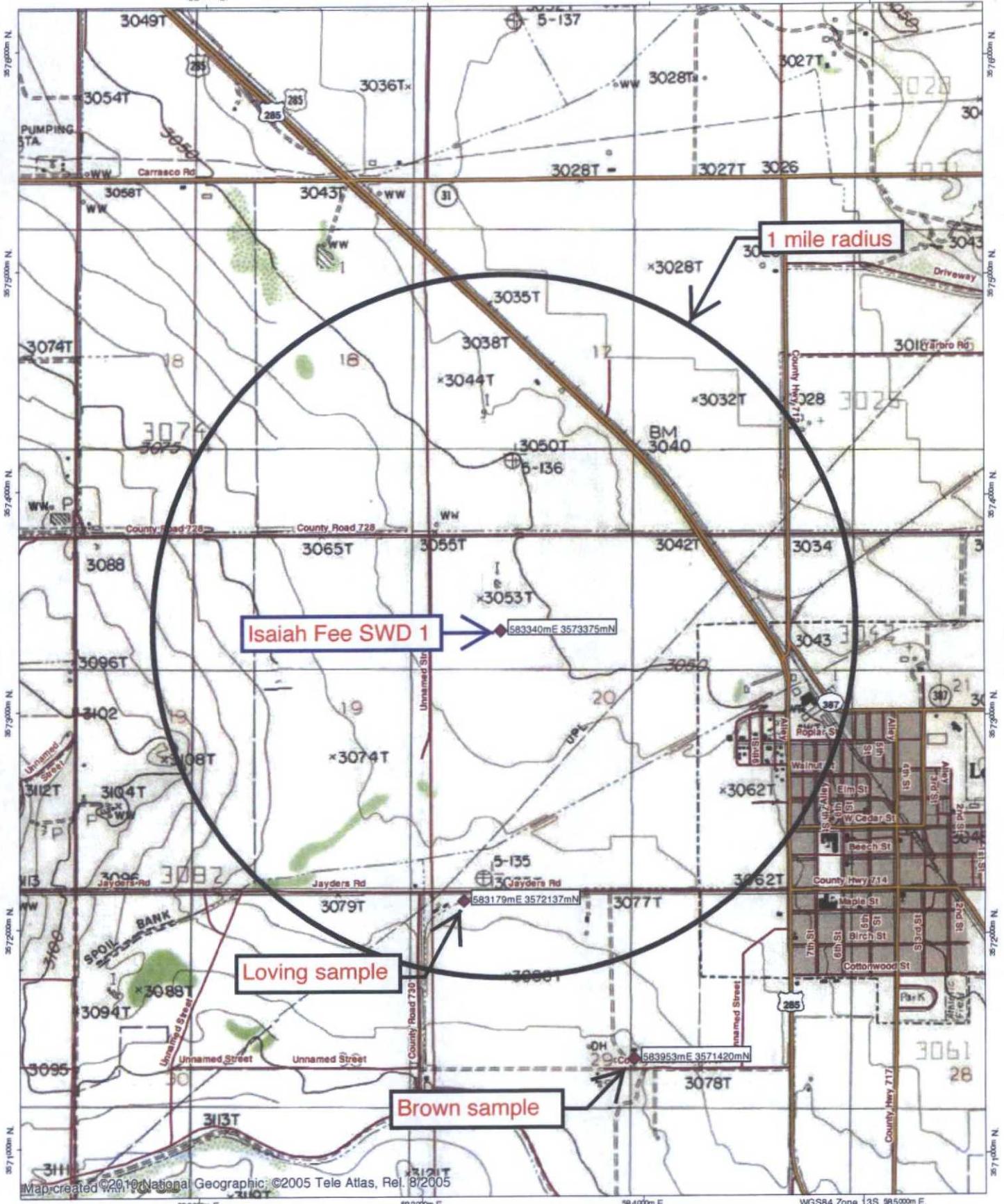


EXHIBIT J

TN+MN
7.5°
05/22/16

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West
Project: Basic Isaiah SWD
Lab ID: 1605A15-001

Client Sample ID: Brown Well
Collection Date: 5/17/2016 11:17:00 AM
Matrix: AQUEOUS
Received Date: 5/23/2016 12:04:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	500	25	*	mg/L	50	5/24/2016 9:27:13 PM
EPA METHOD 1664A						Analyst: tnc
N-Hexane Extractable Material	ND	12		mg/L	1	5/23/2016 4:41:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	1960	20.0	*	mg/L	1	5/25/2016 3:53:00 PM

EXHIBIT J

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West

Client Sample ID: Loving Well

Project: Basic Isaiah SWD

Collection Date: 5/17/2016 11:24:00 AM

Lab ID: 1605A15-002

Matrix: AQUEOUS

Received Date: 5/23/2016 12:04:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	4400	250	*	mg/L	500	5/24/2016 9:39:37 PM
EPA METHOD 1664A						Analyst: tnc
N-Hexane Extractable Material	ND	10		mg/L	1	5/23/2016 4:41:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	10500	200	*D	mg/L	1	5/25/2016 3:53:00 PM

EXHIBIT J

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1605A15

01-Jun-16

Client: Permits West
Project: Basic Isaiah SWD

Sample ID	MB-25444	SampType:	MBLK	TestCode:	EPA Method 1664A					
Client ID:	PBW	Batch ID:	25444	RunNo:	34437					
Prep Date:	5/23/2016	Analysis Date:	5/23/2016	SeqNo:	1062009	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	ND	10								
Silica Gel Treated N-Hexane Extrac	ND	10								

Sample ID	LCS-25444	SampType:	LCS	TestCode:	EPA Method 1664A					
Client ID:	LCSW	Batch ID:	25444	RunNo:	34437					
Prep Date:	5/23/2016	Analysis Date:	5/23/2016	SeqNo:	1062010	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	38	10	40.00	0	94.0	78	114			
Silica Gel Treated N-Hexane Extrac	21	10	20.00	0	107	64	132			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1605A15

01-Jun-16

Client: Permits West
Project: Basic Isaiah SWD

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R34457	RunNo:	34457					
Prep Date:		Analysis Date:	5/24/2016	SeqNo:	1062706	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R34457	RunNo:	34457					
Prep Date:		Analysis Date:	5/24/2016	SeqNo:	1062707	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.0	90	110			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1605A15

01-Jun-16

Client: Permits West
Project: Basic Isaiah SWD

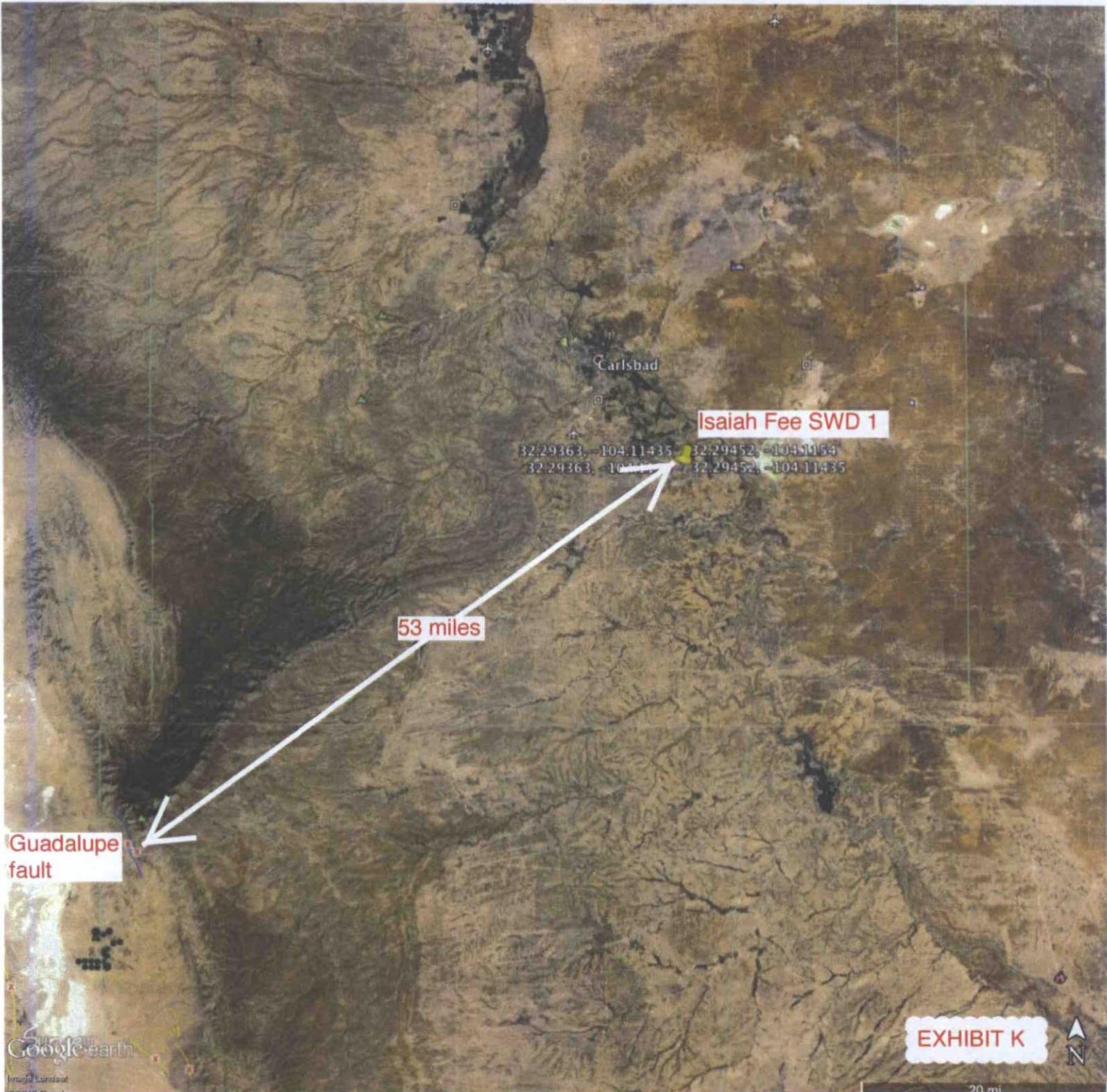
Sample ID	MB-25475	SampType:	MBLK	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	PBW	Batch ID:	25475	RunNo:	34475					
Prep Date:	5/24/2016	Analysis Date:	5/25/2016	SeqNo:	1063156	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	LCS-25475	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	LCSW	Batch ID:	25475	RunNo:	34475					
Prep Date:	5/24/2016	Analysis Date:	5/25/2016	SeqNo:	1063157	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	20.0	1000	0	101	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified





Guadalupe fault

Carlsbad

Isaiah Fee SWD 1

53 miles

32.29363, -104.11435
32.29452, -104.1164
32.29363, -104.11435
32.29452, -104.11435

Google Earth

EXHIBIT K

20 mi

Affidavit of Publication

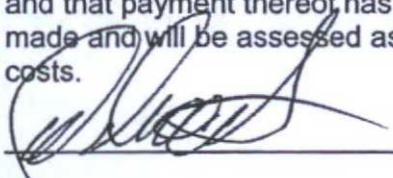
State of New Mexico,
County of Eddy, ss.

Rynni Henderson, being first duly
sworn, on oath says:

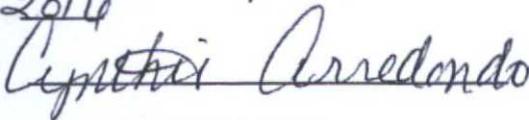
That she is the Publisher of the
Carlsbad Current-Argus, a
newspaper published daily at the
City of Carlsbad, in said county of
Eddy, state of New Mexico and of
general paid circulation in said
county; that the same is a duly
qualified newspaper under the laws
of the State wherein legal notices
and advertisements 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:

April 26 2016

That the cost of publication is **\$50.15**
and that payment thereof has been
made and will be assessed as court
costs.

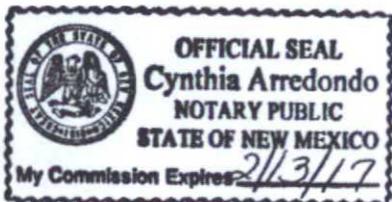


Subscribed and sworn to before me
this 27 day of April,
2016



My commission Expires
2/13/17

Notary Public



April 26, 2016

Basic Energy Services, LP is applying to drill the Isalah Fee SWD 1 as a saltwater disposal well. The well is staked at 1435 FNL & 1008 FWL Sec. 20, T. 23 S., R. 28 E., Eddy County and is 2/3 mile west of Loving, NM. Disposal will be in the Devonian from 13,540' to 14,600'. Maximum injection pressure will be 2,708 psi. Maximum disposal rate will be 20,000 bwpd. Interested parties must file objections or requests for hearing with the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505 within 15 days. Additional information can be obtained by contacting: Brian Wood, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120.

EXHIBIT L

PERMITS WEST, INC.

PROVIDING PERMITS for LAND USERS

37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

June 3, 2016

Henry McDonald
PO Box 597
Loving NM 88256

Basic Energy Services, LP is applying (see attached application) to drill the Isaiah Fee SWD 1 as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposal. This letter is a notice only. No action is needed unless you have questions or objections.

Well: Isaiah Fee SWD 1 TD = 14,600'

Proposed Disposal Zone: Devonian (13,540' - 14,600')

Location: 1435' FNL & 1008' FWL Sec. 20, T. 23 S., R. 28 E., Eddy County, NM

Approximate Location: ≈2/3 mile west of Loving, NM

Applicant Name: Basic Energy Services, LP (575) 746-2072

Applicant's Address: P. O. Box 1375, Artesia NM 88211

Submittal Information: Application for a saltwater disposal well will be filed with the NMOCD. If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

Brian Wood

7015 1730 0001 0168 6567

U.S. Postal Service
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com.

OFFICIAL USE

Certified Mail Fee \$

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To **HENRY M. McDONALD**

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

City, State, ZIP+4® **LOVING NM**

82552-9998

JUN 6 2016

RECOS, NM

EXHIBIT M

June 3, 2016

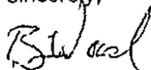
Chevron USA Inc.
 PO Box 2100
 Houston TX 77252

Basic Energy Services, LP is applying (see attached application) to drill the Isaiah Fee SWD 1 as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposal. This letter is a notice only. No action is needed unless you have questions or objections.

Well: Isaiah Fee SWD 1 ID = 14,600'
Proposed Disposal Zone: Devonian (13,540' - 14,600')
Location: 1435' FNL & 1008' FWL Sec. 20, T. 23 S., R. 28 E., Eddy County, NM
Approximate Location: ≈2/3 mile west of Loving, NM
Applicant Name: Basic Energy Services, LP (575) 746-2072
Applicant's Address: P. O. Box 1375, Artesia NM 88211
Submittal Information: Application for a saltwater disposal well will be filed with the NMOCD. If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,



Brian Wood

June 3, 2016

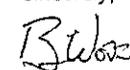
COG Operating, LLC
 600 W. Illinois Ave.
 Midland TX 79701

Basic Energy Services, LP is applying (see attached application) to drill the Isaiah Fee SWD 1 as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposal. This letter is a notice only. No action is needed unless you have questions or objections.

Well: Isaiah Fee SWD 1 ID = 14,600'
Proposed Disposal Zone: Devonian (13,540' - 14,600')
Location: 1435' FNL & 1008' FWL Sec. 20, T. 23 S., R. 28 E., Eddy County, NM
Approximate Location: ≈2/3 mile west of Loving, NM
Applicant Name: Basic Energy Services, LP (575) 746-2072
Applicant's Address: P. O. Box 1375, Artesia NM 88211
Submittal Information: Application for a saltwater disposal well will be filed with the NMOCD. If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,



Brian Wood

5259 9710 0168 6559

U.S. Postal Service™ **CERTIFIED MAIL® RECEIPT**
 Domestic Mail Only

For delivery information, visit our website at www.usps.com®

Certified Mail Fee \$

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Adult Signature Restricted Delivery \$

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Total Postage and Fees \$

Sent To **CHEVRON USA**
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87552-9998

PS Form 3800, April 2015 PSN 7530-02-000-9047 866 Return

EXHIBIT M

5459 9710 0000 5702

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 Street and Apt. No., or PO Box No.
 City, State, ZIP+4® **MIDLAND TX 79701**

Postmark: JUN 6 2016

87552-9998

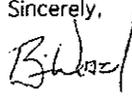
June 3, 2016

Legacy Reserves
 PO Box 10848
 Midland TX 79702

Basic Energy Services, LP is applying (see attached application) to drill the Isaiah Fee SWD 1 as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposal. This letter is a notice only. No action is needed unless you have questions or objections.

Well: Isaiah Fee SWD 1 ID = 14,600'
Proposed Disposal Zone: Devonian (13,540' - 14,600')
Location: 1435' FNL & 1008' FWL Sec. 20, T. 23 S., R. 28 E., Eddy County, NM
Approximate Location: ≈2/3 mile west of Loving, NM
Applicant Name: Basic Energy Services, LP (575) 746-2072
Applicant's Address: P. O. Box 1375, Artesia NM 88211
Submittal Information: Application for a saltwater disposal well will be filed with the NMOCD. If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

 Brian Wood

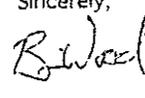
June 3, 2016

BC Operating, Inc.
 PO Box 50820
 Midland TX 79710

Basic Energy Services, LP is applying (see attached application) to drill the Isaiah Fee SWD 1 as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposal. This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.

Sincerely,

 Brian Wood

7015 1730 0001 1000 0621 5102

U.S. Postal Service *BASIC ISAIAH Fee*
CERTIFIED MAIL® RECEIPT
 Domestic Mail Only *SWD 1*

For delivery information, visit our website at www.usps.com

Certified Mail Fee \$

Extra Services & Fees (check box, add fee if appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To **LEGACY**
 Street and Apt. No., or PO Box No.
 City, State, ZIP+4® **MIDLAND**

PECOS NM
 JUN 6 2016
 87552-9998

EXHIBIT M

2539 9910 1000 0621 5102

U.S. Postal Service *BASIC ISAIAH Fee*
CERTIFIED MAIL® RECEIPT
 Domestic Mail Only *SWD 1*

For delivery information, visit our website at www.usps.com

Certified Mail Fee \$

Extra Services & Fees (check box, add fee if appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To **BC OPERATING**
 Street and Apt. No., or PO Box No.
 City, State, ZIP+4® **MIDLAND**

PECOS NM
 JUN 6 2016
 87552-9998

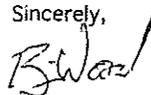
June 3, 2016

Oxy USA WTP LP
 PO Box 50250
 Midland TX 79710

Basic Energy Services, LP is applying (see attached application) to drill the Isaiah Fee SWD 1 as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposal. This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.

Sincerely,

 Brian Wood

0579 9910 0168 6570

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Certified Mail Fee \$ 3.30

Extra Services & Fees (check box, add fee if appropriate)

Return Receipt (hardcopy) \$ 2.10

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$ 1.78

Total Postage and Fees \$ 7.78

Sent To OXY USA

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

City, State, ZIP+4® MIDLAND

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

PECOS NM JUN 6 2016 87552-9998

EXHIBIT M

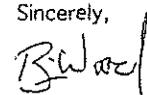
June 3, 2016

Mewbourne Oil Company
 PO Box 5270
 Hobbs NM 88241

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Please call me if you have any questions.

Sincerely,

 Brian Wood

6579 9910 0168 6570

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Extra Services & Fees (check box, add fee if appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To MEWBOURNE

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

City, State, ZIP+4® HOBBS

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

PECOS NM JUN 6 2016 87552-9998

NM OIL CONSERVATION
ARTESIA DISTRICT

APR 25 2016

DISTRICT I
1425 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6181 Fax: (575) 393-9720

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-0780

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Revised August 1, 2011
Submit one copy to appropriate
District Office

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-8178 Fax: (505) 334-8170

AMENDED REPORT

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 478-3460 Fax: (505) 478-3462

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015- 43742	Pool Code 96101	Pool Name SWD; Devonian
Property Code 316145	Property Name ISAIAH FEE SWD	Well Number 1
OGRID No. 246368	Operator Name BASIC ENERGY SERVICES, LP	Elevation 3057.8'

Surface Location

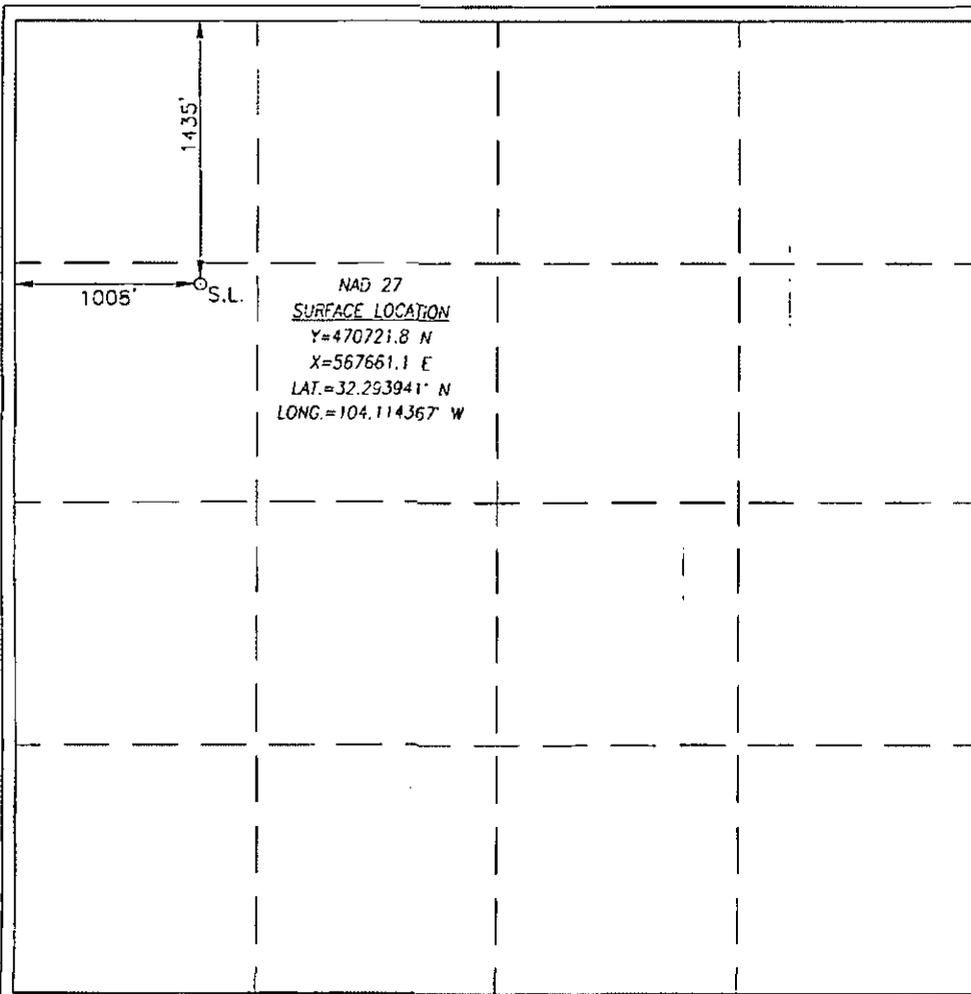
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	20	23-S	28-E		1435	NORTH	1008	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Brian Wood 4-24-16
Signature Date

Brian Wood
Printed Name

brian@permitswest.com
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

APRIL 18, 2016
Date of Survey

Signature & Seal of Professional Surveyor

Chad L. Harcrow
17777
CHAD L. HARCROW
NEW MEXICO
LICENSED PROFESSIONAL SURVEYOR

4/21/16
Certificate No. CHAD HARCROW 17777
W.O. # 16-289 DRAWN BY: AF



ORDER TYPE: WFX / PMX / SWD Number: _____ Order Date: _____ Legacy Permits/Orders: _____

Well No. 1 Well Name(s): Isaiah SWDFEB

API: 30-0 15-43742 Spud Date: TBD New or Old: N (UIC Class II Primacy 03/07/1982)

Footages 1435 FUL Lot _____ or Unit B Sec 20 Tsp 235 Rge 24E County ddy

General Location: 2.2 miles S of Malye Pool: SWD, DeWitt Pool No.: 9610

BLM 100K Map: Carlsbad Operator: Energy Services, LP OGRID: 246308 Contact: Brian Wood, agent

COMPLIANCE RULE 5.9: Total Wells: 13 Inactive: 0 Fincl Assur: Y Compl. Order? N/A IS 5.9 OK? Y Date: 8-01-2016

WELL FILE REVIEWED Current Status: Proposed

WELL DIAGRAMS: NEW: Proposed or RE-ENTER: Before Conv. After Conv. Logs in Imaging: N/A

Planned Rehab Work to Well: run C-13-L from 13540-7000'

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned ___ or Existing ___ Surface	<u>24/20</u>	<u>120</u>	<u>560 (CF)</u>	<u>Surface / U/S 6-1</u>
Planned ___ or Existing ___ Interm/Prod	<u>17 1/2 / 13 3/8</u>	<u>2400</u>	<u>1465</u>	<u>Surface / U/S 6-1</u>
Planned ___ or Existing ___ Interm/Prod	<u>12 1/4 / 9 5/8</u>	<u>4435</u>	<u>6000</u>	<u>Surface / U/S 6-1</u>
Planned ___ or Existing ___ Prod/Liner	<u>8 1/2 / 7</u>	<u>13640</u>	<u>5300</u>	<u>8000 / CB-L</u>
Planned ___ or Existing ___ Liner				
Planned ___ or Existing ___ <input checked="" type="checkbox"/> PERF	<u>13540 / 1462</u>			

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops	Completion/Operation Details:
Adjacent Unit: Litho. Struc. Por.		<u>DV</u>	<u>13540</u>	Drilled TD <u>1462</u> PBDT _____
Confining Unit: Litho. Struc. Por.		<u>MS</u>	<u>12577</u>	NEW TD _____ NEW PBDT _____
Proposed Inj Interval TOP:				NEW Open Hole <input checked="" type="checkbox"/> or NEW Perfs <input type="checkbox"/>
Proposed Inj Interval BOTTOM:				Tubing Size <u>3.5</u> in. Inter Coated? <input checked="" type="checkbox"/>
Confining Unit: Litho. Struc. Por.				Proposed Packer Depth <u>13500</u> ft <input checked="" type="checkbox"/>
Adjacent Unit: Litho. Struc. Por.				Min. Packer Depth <u>13440</u> (100-ft limit)
				Proposed Max. Surface Press. <u>2708</u> psi
				Admin. Inj. Press. <u>2708</u> (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P N/A Noticed? _____ BLM Sec Ord WIPP Salt/Salado T: 40 B: 240 NW: Cliff House fm _____

FRESH WATER: Aquifer Quaternary Max Depth 7515 HYDRO AFFIRM STATEMENT By Qualified Person

NMOSE Basin: Carlsbad CAPITAN REEF: thru adj NA No. Wells within 1-Mile Radius? 9 FW Analysis Y

Disposal Fluid: Formation Source(s) Barnes Spring, MIF 97 Analysis? Y On Lease Operator Only or Commercial

Disposal Int: Inject Rate (Avg/Max BWPD): 154/244 Protectable Waters? _____ Source: _____ System: Closed or Open

HC Potential: Producing Interval? NA Formerly Producing? _____ Method: Logs/DST/P&A/Other _____ 2-Mile Radius Pool Map

AOR Wells: 1/2-M Radius Map? Y Well List? Y Total No. Wells Penetrating Interval: 0 Horizontals? _____

Penetrating Wells: No. Active Wells 0 Num Repairs? _____ on which well(s)? _____ Diagrams? _____

Penetrating Wells: No. P&A Wells _____ Num Repairs? _____ on which well(s)? _____ Diagrams? _____

NOTICE: Newspaper Date April 16 Mineral Owner _____ Surface Owner Henry McDonald N. Date _____

RULE 26.7(A): Identified Tracts? _____ Affected Persons: BL, CHEVRON, OXY, COG N. Date _____

Order Conditions: Issues: Circulate Surface & Intermediate to surface

Add Order Cond: _____

BELOW #1 SWD: PERM 5726-5809
 BELOW #2 SWD: PERM 22540-23615

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
Henry McDonald
PO Box 597
Loving NM 88256

9590 9403 0887 5223 6584 25
Basic - Isayah Fee SWD 1

7015 1730 0001 0168 6587

PS Form 3811, July 2015 PSN 7530-02-000-9058 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *Alonda Perez* Agent Addressee

B. Received by (Printed Name) *Alonda Perez* C. Date of Delivery *6/9/16*

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type Priority Mail Express®
 Adult Signature Registered Mail™
 Adult Signature Restricted Delivery Registered Mail Restricted Delivery
 Certified Mail® Return Receipt for Merchandise
 Collect on Delivery Signature Confirmation™
 Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
Legacy Reserves
PO Box 10848
Midland TX 79702

9590 9403 0887 5223 6583 95
Basic - Isayah Fee SWD 1

7015 1730 0001 0168 6556

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *Paul Bull* Agent Addressee

B. Received by (Printed Name) *Paul Bull* C. Date of Delivery *6-10-16*

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type Priority Mail Express®
 Adult Signature Registered Mail™
 Adult Signature Restricted Delivery Registered Mail Restricted Delivery
 Certified Mail® Return Receipt for Merchandise
 Collect on Delivery Signature Confirmation™
 Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
BC Operating, Inc.
PO Box 50820
Midland TX 79710

9590 9403 0887 5223 6584 01
Basic - Isayah Fee SWD 1

7015 1730 0001 0168 6532

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *K. Reed* Agent Addressee

B. Received by (Printed Name) *K. Reed* C. Date of Delivery *6-9-16*

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type Priority Mail Express®
 Adult Signature Registered Mail™
 Adult Signature Restricted Delivery Registered Mail Restricted Delivery
 Certified Mail® Return Receipt for Merchandise
 Collect on Delivery Signature Confirmation™
 Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery

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- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
Mowbourne Oil Company
PO Box 5270
Hobbs NM 88241

9590 9403 0887 5223 6395 92
Basic - Isayah Fee SWD 1

7015 1730 0001 0168 6563

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *Jackie Lathan* Agent Addressee

B. Received by (Printed Name) *Jackie Lathan* C. Date of Delivery *6-10-16*

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type Priority Mail Express®
 Adult Signature Registered Mail™
 Adult Signature Restricted Delivery Registered Mail Restricted Delivery
 Certified Mail® Return Receipt for Merchandise
 Collect on Delivery Signature Confirmation™
 Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
Chevron USA Inc.
PO Box 2100
Houston TX 77252

9590 9403 0887 5223 6584 18
Basic - Isayah Fee SWD 1

7015 1730 0001 0168 6525

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *Alford Mason* Agent Addressee

B. Received by (Printed Name) *Alford Mason* C. Date of Delivery *6/13/2016*

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type Priority Mail Express®
 Adult Signature Registered Mail™
 Adult Signature Restricted Delivery Registered Mail Restricted Delivery
 Certified Mail® Return Receipt for Merchandise
 Collect on Delivery Signature Confirmation™
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SENDER: COMPLETE THIS SECTION

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
Oxy USA WTP LP
P. O. Box 50255
Midland TX 79710

9590 9403 0887 5223 6584 32
Basic - Isayah Fee SWD 1

7015 1730 0001 0168 6570

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *Alford Mason* Agent Addressee

B. Received by (Printed Name) *Alford Mason* C. Date of Delivery *6/13/2016*

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

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1. Article Addressed to:
COG Operating, LLC
600 W. Illinois Ave.
Midland TX 79701

9590 9403 0887 5223 6395 85
Basic - Isayah Fee SWD 1

7015 1730 0001 0168 6549

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *Chud Sims* Agent Addressee

B. Received by (Printed Name) *Chud Sims* C. Date of Delivery *6/13/16*

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type Priority Mail Express®
 Adult Signature Registered Mail™
 Adult Signature Restricted Delivery Registered Mail Restricted Delivery
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Chevron USA Inc.
PO Box 2100
Houston TX 77252

9590 9403 0887 5223 6584 18
Basic - Isayah Fee SWD 1

7015 1730 0001 0168 6525

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *Alford Mason* Agent Addressee

B. Received by (Printed Name) *Alford Mason* C. Date of Delivery *6/13/2016*

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type Priority Mail Express®
 Adult Signature Registered Mail™
 Adult Signature Restricted Delivery Registered Mail Restricted Delivery
 Certified Mail® Return Receipt for Merchandise
 Collect on Delivery Signature Confirmation™
 Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery