

Initial Application Part I

Received 8/14/20

This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete

WCIS7-200814-C-1080

Revised March 23, 2017

RECEIVED: 8/14/20	REVIEWER:	TYPE: SWD	APP NO: pDHR2023137001
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & 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

Applicant: Longfellow Energy, LP **OGRID Number:** 372210
Well Name: Angus Federal 17 SWD 1 **API:** 30-015-
Pool: SWD; Canyon **Pool Code:** 96184

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
- A. Location – Spacing Unit – Simultaneous Dedication
 NSL NSP (PROJECT AREA) NSP (PRORATION UNIT) SD
- B. Check one only for [I] or [II]
- [I] Commingling – Storage – Measurement
 DHC CTB PLC PC OLS OLM
- [II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR

SWD-2390

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.
- A. Offset operators or lease holders
 B. Royalty, overriding royalty owners, revenue owners
 C. Application requires published notice
 D. Notification and/or concurrent approval by SLO
 E. Notification and/or concurrent approval by BLM
 F. Surface owner
 G. For all of the above, proof of notification or publication is attached, and/or,
 H. No notice required

FOR OCD ONLY	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	Application Content Complete

3) **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

 Print or Type Name

Brian Wood

 Signature

8-14-20

 Date

505 466-8120

 Phone Number

brian@permitswest.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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. OPERATOR: LONGFELLOW ENERGY, LP
ADDRESS: 16803 NORTH DALLAS PARKWAY, ADDISON TX 75001
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: ANGUS FEDERAL 17 SWD 1
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).

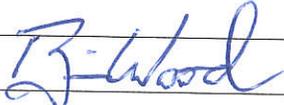
*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

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: AUG. 12, 2020

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: _____

Side 2

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

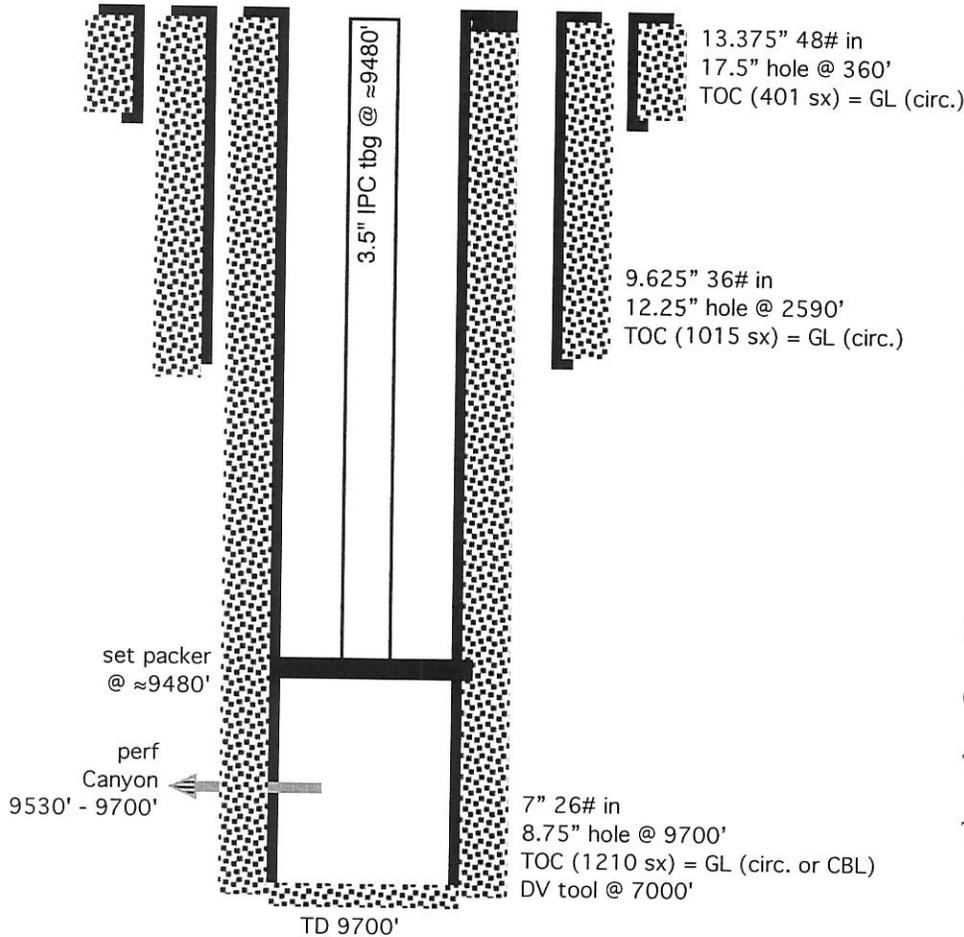
OPERATOR: LONGFELLOW ENERGY, LP

WELL NAME & NUMBER: ANGUS FEDERAL 17 SWD 1

WELL LOCATION: 610' FSL & 705' FEL P 17 17 S 29 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: 401 sx. *or* _____ ft³
 Top of Cement: GL Method Determined: CIRCULATE

Intermediate Casing

Hole Size: 12.25" Casing Size: 9.625"
 Cemented with: 1015 sx. *or* _____ ft³
 Top of Cement: GL Method Determined: CIRCULATE

Production Casing

Hole Size: 8.75" Casing Size: 7"
 Cemented with: 1210 sx. *or* _____ ft³
 Top of Cement: GL Method Determined: CIRC. OR CBL
 Total Depth: 9700'

Injection Interval

9530 feet to 9700'

(Perforated or Open Hole; indicate which)

■■■■■■■■■■

INJECTION WELL DATA SHEET

Tubing Size: 3.5" J-55 9.3# Lining Material: INTERNAL PLASTIC COAT

Type of Packer: ASI-X

Packer Setting Depth: ≈9480'

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: CANYON

3. Name of Field or Pool (if applicable): SWD; CANYON (96184)

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. NO

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

OVER: SEVEN RIVERS (1145'), QUEEN (1725'), GRAYBURG (2100'),
SAN ANDRES (2205'), GLORIETA (3854'), YESO (3913')

UNDER: MORROW (10500')

LONGFELLOW ENERGY, LP
ANGUS FEDERAL 17 SWD 1
610' FSL & 705' FEL
SEC. 17, T. 17 S., R. 29 E., EDDY COUNTY, NM

PAGE 1

- I. Plan is to drill a 9700' deep SWD; Canyon (96184) saltwater disposal well. Disposal will be from 9530' to 9700' in the Canyon. Well is on BLM surface and minerals. See Exhibit A for a USGS map and C-102 form.
- II. Operator: Longfellow Energy, LP (OGRID 372210)
Operator phone number: (972) 590-9900
Operator address: 16803 North Dallas Parkway, Addison TX 75001
Contact for Application: Brian Wood (Permits West, Inc.)
Phone: (505) 466-8120
- III. A. (1) Lease: BLM NMNM-014847
Lease Size: 1,054.42 acres
Closest Lease Line: 610'
Lease: S2SE4 Section 17, T. 17 S., R. 29 E. et al
- A. (2) Surface casing (13.375", 48#, H-40, LT&C) will be set at 360' in a 17.5" hole and cemented to GL with 401 sacks (100% excess).
- Intermediate casing (9.625", 36#, J-55, LT&C) will be set at 2590' in a 12.25" hole and cemented to GL with 1015 sacks (100% excess).
- Production casing (7", 26#, L-80, BT&C) will be set at 9700' in an 8.75" hole and cemented to GL with 1210 sacks (30% excess). DV tool will be set at \approx 7000'. Bottom 320' of casing will be chrome lined.
- A. (3) IPC tubing (3.5", 9.3#, J-55, BT&C) will be set @ \approx 9480'. (Disposal interval will be 9530' - 9700' TVD.)
- A. (4) A 7" ASI-X packer will be set @ \approx 9480' (or in any event, \leq 100' above the top perforation (9530')).

LONGFELLOW ENERGY, LP
ANGUS FEDERAL 17 SWD 1
610' FSL & 705' FEL
SEC. 17, T. 17 S., R. 29 E., EDDY COUNTY, NM

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- B. (1) Disposal zone will be carbonates in the SWD; Canyon (NMOCD pool 96184). Estimated fracture gradient is ≈ 0.75 psi per foot.
- B. (2) Disposal interval (9530' to 9700') will be perforated.
- B. (3) This will be a new well drilled as a SWD well.
- B. (4) No perforated intervals are in the well.
- B. (5) Next higher oil or gas zone in the area of review is the Yeso. Yeso bottom is at $\approx 5347'$, or $\approx 4176'$ above the Canyon. Morrow is the only producing oil or gas zone in the area of review below the Canyon. Morrow top is at $\approx 10,500'$, or $\approx 642'$ below the bottom of the Canyon. Closest Canyon producer (30-015-30-15-44420) is $\approx 4\text{-}1/4$ miles east. Closest existing SWD; Canyon well (Longfellow's 30-015-29260) is 2.28 miles north in I-5-17s-29e. Closest existing SWD; Cisco-Canyon well (30-015-39771) is 1.44 miles east-northeast in K-15-17s-29e. Longfellow is applying for a SWD; Canyon well (Ozzy State 18 SWD 1) that is 6757' northwest in J-18-17s-29e.

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

V. Exhibit B shows and tabulates 48 wells (43 producers + 4 P&A + 1 injector) within a half-mile radius. Three of the 48 wells penetrate the Canyon, one of the three is P&A. Exhibit C shows 846 existing wells (656 oil or gas + 163 P&A + 23 water injectors or disposers + 3 gas storage + 1 water) within a 2-mile radius.

Exhibit D maps and tabulates all well operators (regardless of depth), leases, and lessors (only NMSLO & BLM) within a half-mile radius. Exhibit E shows all leases (NMSLO, fee, & BLM) within a 2-mile radius.

LONGFELLOW ENERGY, LP
ANGUS FEDERAL 17 SWD 1
610' FSL & 705' FEL
SEC. 17, T. 17 S., R. 29 E., EDDY COUNTY, NM

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VI. Three (Exhibit F) of the 48 wells within a half-mile penetrated the Canyon (9523' - 9857'). Two of the penetrators are active gas or oil wells. The third is P&A and a diagram of its wellbore is in Exhibit F.

- VII. 1. Average injection rate will be $\approx 15,000$ bwpd.
Maximum injection rate will be 20,000 bwpd.
2. System will be closed and open.
3. Average injection pressure will be ≈ 1500 psi. Maximum injection pressure will be 1906 psi ($= 0.2$ psi/ft \times 9530' (highest perforation)).
4. Water source will be produced water from Permian Basin wells. Exhibit G tabulates T. 17 S., R. 28 & 29 E. produced water analyses from New Mexico Produced Water Quality Database v.2. No compatibility problems have been reported from the closest (2.28 miles north) SWD; Canyon well (30-015-29260). A minimum 13,717,187 barrels have been disposed to date in 20 years of operation.
5. Canyon has not been found productive of oil and gas within a mile. Sample (Exhibit H) from a Canyon; SWD well (30-015-22146) 12 miles southwest in N-7-19s-28e showed chlorides at 32,000 mg/l.

VIII. The Canyon is a dolomite and is an estimated 335' thick in this well. Closest possible underground source of drinking water above the proposed disposal interval are the red beds from $\approx 65'$ to $\approx 225'$. Deepest water well within 2-miles is 131'. The >1.5 -mile thick interval between the bottom of the red beds and the top of the Canyon include multiple layers of shale, salt, and anhydrite.

State Engineer records (Exhibit I) show the only water well within 2-miles is 1.55 miles southeast in K-22-17s-29e. It was sampled (Exhibit I) January 7, 2020. Angus Federal 17 SWD 1 is 13 miles northwest of the Capitan and 15 miles southwest of the Ogallala.

No underground source of drinking water is below the proposed disposal zone. Produced water is currently being injected in 47 wells (Abo, Glorieta, Grayburg, Queen, San Andres, Seven Rivers, and Yeso) and disposed in 18 wells (Canyon, Cisco, Glorieta, Penn, Upper Penn, Strawn, and Yeso) within 17s-29e.

LONGFELLOW ENERGY, LP
ANGUS FEDERAL 17 SWD 1
610' FSL & 705' FEL
SEC. 17, T. 17 S., R. 29 E., EDDY COUNTY, NM

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Formation tops are:

Quaternary = 0'
Rustler = 225'
Salado = 310'
Yates = 895'
Seven Rivers = 1073'
Queen = 1650'
Penrose = 1907'
Grayburg = 2071'
San Andres = 2205'
Glorieta = 3854'
Yeso = 3913'
Tubb = 5347'
Lower Abo = 7040'
Wolfcamp = 7240'
Cisco = 8750'
Canyon 9523'
Proposed Disposal Zone = 9530' - 9700'
TD: 9700'
Strawn = 9908'

- IX. The well will be stimulated with acid to clean out scale or fill.
- X. CBL will be run if cement does not circulate to surface on the long string.
- XI. No water well is within a mile. A water well 1.55 miles southeast was sampled (Exhibit I) on January 7, 2020.
- XII. Longfellow Energy, LP is not aware of any geologic or engineering data (Exhibit J) that may indicate the Canyon is in hydrologic connection with any underground source of water. Twelve SWD; Canyon wells are active in New Mexico.

LONGFELLOW ENERGY, LP
ANGUS FEDERAL 17 SWD 1
610' FSL & 705' FEL
SEC. 17, T. 17 S., R. 29 E., EDDY COUNTY, NM

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XIII. Legal ad (Exhibit K) was published in the Artesia newspaper on July 23, 2020. Notice (this application) is being sent (Exhibit L) to the surface owner (BLM), lessors, lessees of record, operating right holders, and well operators within a half-mile.

TOPO! map printed on 12/20/19 from "Untitled.tpo"

104.10000° W WGS84 104.08333° W

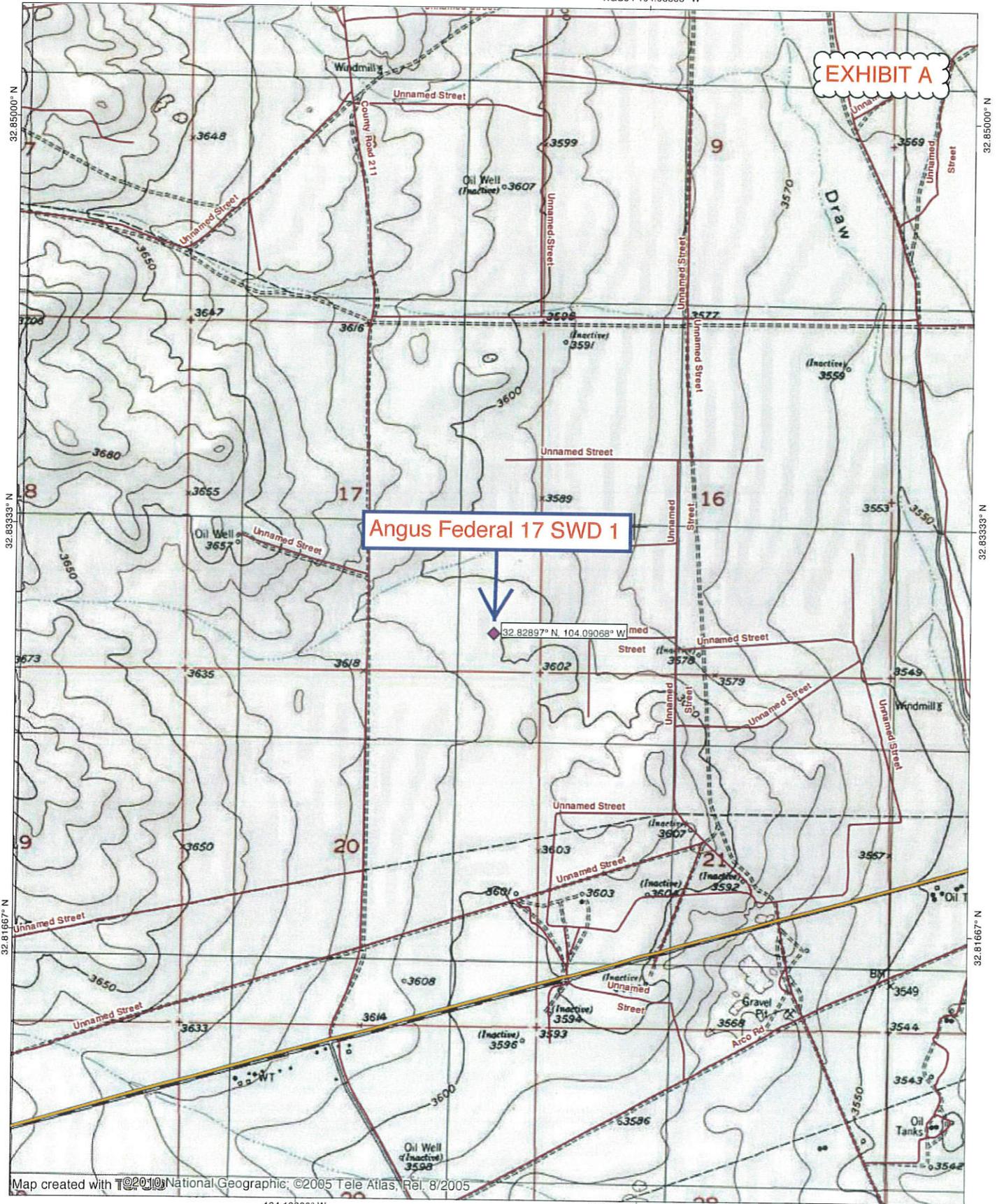


EXHIBIT A

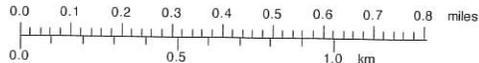
Angus Federal 17 SWD 1



32.82897° N, 104.09068° W

Map created with T@2010 National Geographic. ©2005 Tele Atlas, Rel. 8/2005

104.10000° W WGS84 104.08333° W



12/20/19

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

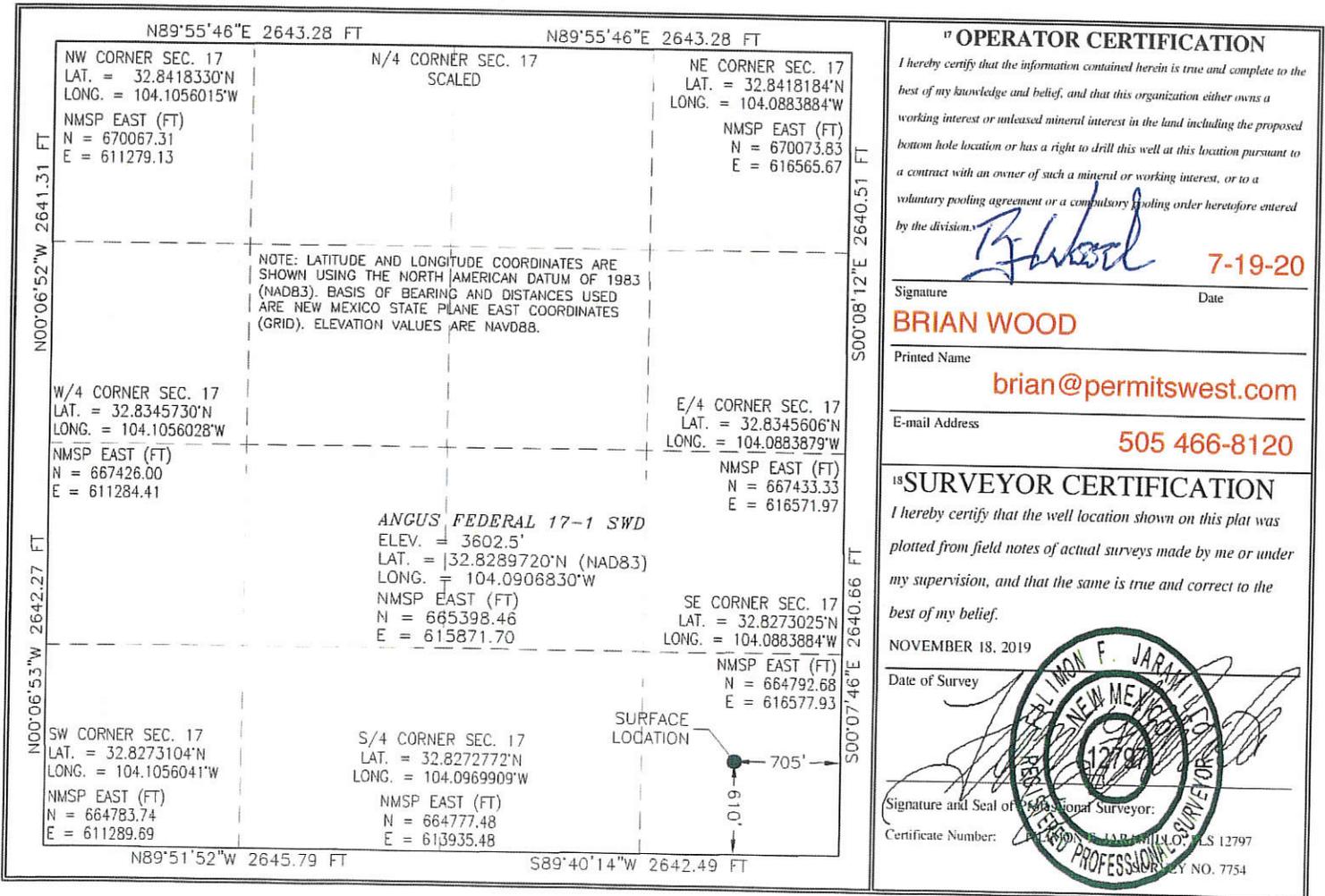
EXHIBIT A

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-		² Pool Code 96184		³ Pool Name SWD; CANYON					
⁴ Property Code		⁵ Property Name ANGUS FEDERAL 17 SWD			⁶ Well Number 1				
⁷ OGRID No. 372210		⁸ Operator Name LONGFELLOW ENERGY, LP			⁹ Elevation 3602.5				
¹⁰ Surface Location									
UL or lot no. P	Section 17	Township 17 S	Range 29 E	Lot Idn	Feet from the 610	North/South line SOUTH	Feet from the 705	East/West line EAST	County EDDY
¹¹ 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
¹² Dedicated Acres		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ 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.



SORTED BY DISTANCE FROM ANGUS FEDERAL 17 SWD 1

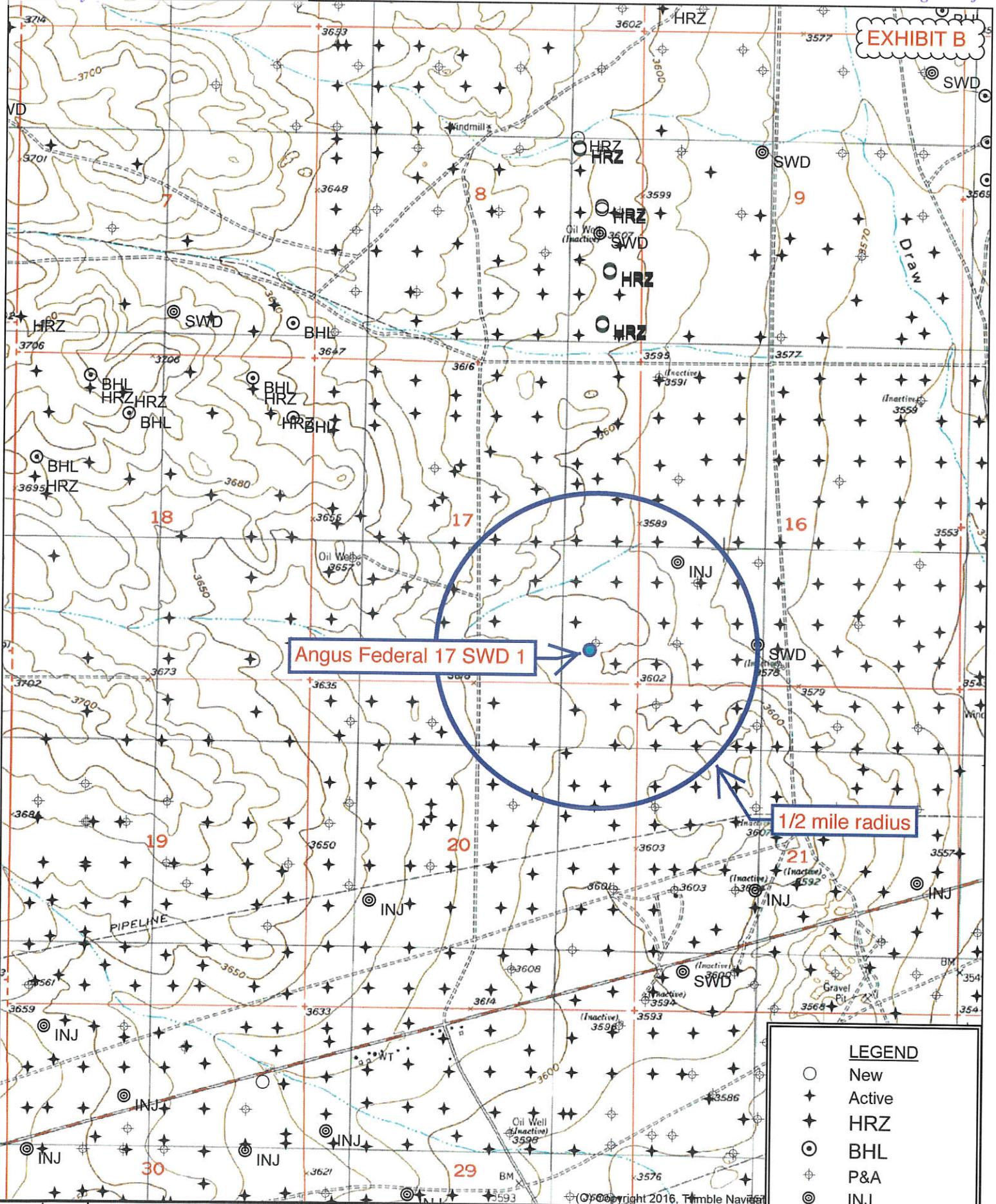
API	OPERATOR	WELL	STATUS	UNIT-SECTION-T17S-R29E	TVD	ZONE @ TD	FEET FROM ANGUS FEDERAL 17 SWD 1
3001534283	Cimarex of CO	Muskegon 17 Federal 002	P&A	P-17	10915	Mississippian	115
3001531260	Longfellow	Phillips 17 Federal 001	O	P-17	4805	Yeso	430
3001531446	Longfellow	Phillips 17 Federal 003	O	P-17	4427	Yeso	530
3001533069	Longfellow	State 20 B 014	O	A-20	4327	Yeso	1051
3001537752	Spur	Folk State 006	O	I-17	5055	Yeso	1052
3001530920	Longfellow	State 20 B 003	O	A-20	4969	Yeso	1075
3001538091	Spur	Folk State 008	O	I-17	5128	Yeso	1117
3001535986	Spur	G J West Coop Unit 179	O	M-16	5494	Tubb	1143
3001537564	Spur	G J West Coop Unit 235	O	M-16	5522	Tubb	1278
3001538092	Spur	Folk State 012	O	J-17	5105	Yeso	1358
3001520126	Mack	G J West Coop Unit 049	P&A	M-16	2570	San Andres	1436
3001503020	Leonard & Levers	State B 1266 001	P&A	J-21	3507	San Andres	2134
3001536228	Spur	G J West Coop Unit 189	O	L-16	5446	Tubb	1507
3001531261	Longfellow	Phillips 17 Federal 002	O	O-17	4506	Yeso	1593
3001530918	Longfellow	State 20 B 001	O	A-20	5020	Yeso	1673
3001538090	Spur	Folk State 007	O	I-17	5463	Tubb	1703
3001537751	Spur	Folk State 005	O	I-17	5043	Yeso	1743
3001536938	Spur	G J West Coop Unit 236	O	M-16	5500	Tubb	1791
3001535576	Spur	G J West Coop Unit 154	O	M-16	5600	Tubb	1805
3001531052	Longfellow	State 20 B 007	O	B-20	5000	Yeso	1815
3001530922	Longfellow	State 20 B 005	O	B-20	4584	Yeso	1837
3001537753	Spur	Folk State 010	O	J-17	5167	Yeso	1861
3001537233	Spur	Folk State 009	O	J-17	5130	Yeso	1886
3001520124	Spur	G J West Coop Unit 048	O	D-21	4225	Yeso	1926
3001535456	Spur	G J West Coop Unit 152	O	D-21	5515	Tubb	1956
3001520199	Spur	G J West Coop Unit 058	I	L-16	2600	San Andres	1975

EXHIBIT B

SORTED BY DISTANCE FROM ANGUS FEDERAL 17 SWD 1

API	OPERATOR	WELL	STATUS	UNIT-SECTION-T17S-R29E	TVD	ZONE @ TD	FEET FROM ANGUS FEDERAL 17 SWD 1
3001537436	Spur	G J West Coop Unit 250	O	D-21	5545	Tubb	2008
3001537565	Spur	G J West Coop Unit 234	O	L-16	5588	Tubb	2015
3001527345	Mack	G J West Coop Unit 112	P&A	B-16	4353	Yeso	2044
3001540265	Spur	G J West Coop Unit 325	O	L-16	5724	Tubb	2087
3001533215	Longfellow	State 20 B 019	O	B-20	4550	Yeso	2247
3001530921	Longfellow	State 20 B 004	O	H-20	4916	Yeso	2283
3001533097	Longfellow	State 20 B 015	O	H-20	4312	Yeso	2292
3001537397	Spur	Folk State 011	O	J-17	5150	Yeso	2295
3001537516	Spur	Folk Federal 038	O	K-17	5070	Yeso	2368
3001526750	Conoco Phillips	Muskegon 17 State 001	G	N-17	10880	Chester	2378
3001527360	Spur	G J West Coop Unit 115	O	D-21	4758	Yeso	2393
3001536170	Spur	Folk Federal 008	O	H-17	5462	Tubb	2400
3001536309	Spur	G J West Coop Unit 198	O	N-16	5476	Tubb	2440
3001536052	Spur	G J West Coop Unit 181	O	L-16	5454	Tubb	2443
3001536994	Spur	G J West Coop Unit 237	O	N-16	5500	Tubb	2458
3001527359	Spur	G J West Coop Unit 114	O	E-21	5518	Tubb	2528
3001533205	Longfellow	State 20 B 020	O	G-20	4325	Yeso	2574
3001536702	Spur	G J West Coop Unit 217	O	E-16	5464	Tubb	2605
3001526397	Mack	Muskegon 20 State 001	G	H-20	10957	Mississippian	2605
3001536862	Spur	Folk Federal 010	O	H-17	5550	Tubb	2616
3001527362	Spur	G J West Coop Unit 117	O	C-21	4920	Yeso	2629
3001536240	Spur	G J West Coop Unit 195	O	K-16	5456	Tubb	2639
3001527295	Spur	Folk Federal 003	O	G-17	5050	Yeso	2664

EXHIBIT B



Angus Federal 17 SWD 1

1/2 mile radius

LEGEND	
○	New
+	Active
✦	HRZ
⊙	BHL
⊕	P&A
⊗	INJ
⊚	SWD
⊛	Brine
⊜	Water

Quad: RED LAKE SE
Scale: 1 inch = 2,000 ft.



EXHIBIT C

Angus Federal
17 SWD 1

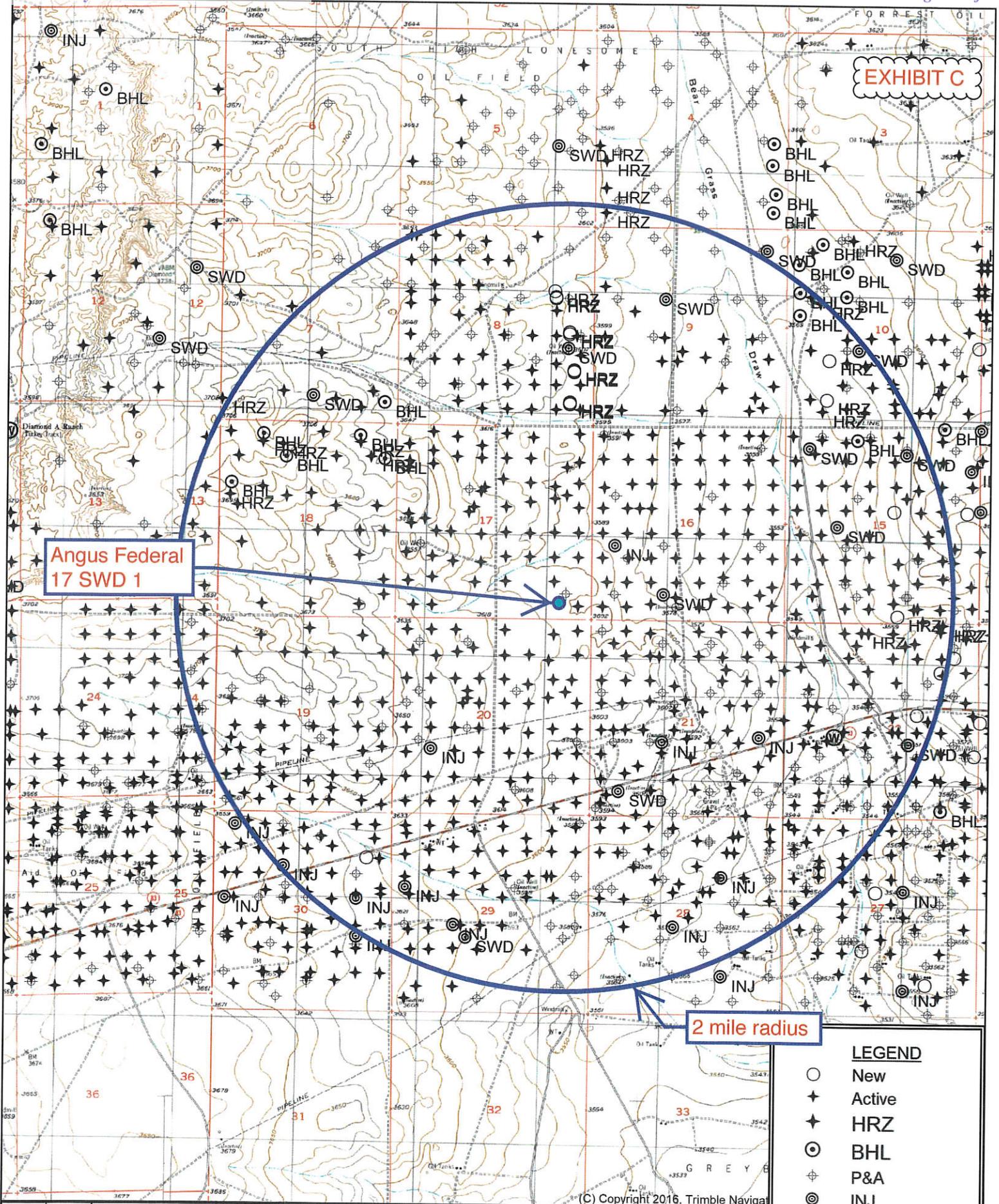
2 mile radius

- LEGEND**
- New
 - ★ Active
 - ✦ HRZ
 - ⊙ BHL
 - ⊕ P&A
 - ⊗ INJ
 - ⊙ SWD
 - ⊙ Brine
 - ⊙ Water

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



(C) Copyright 2016, Trimble Navigat





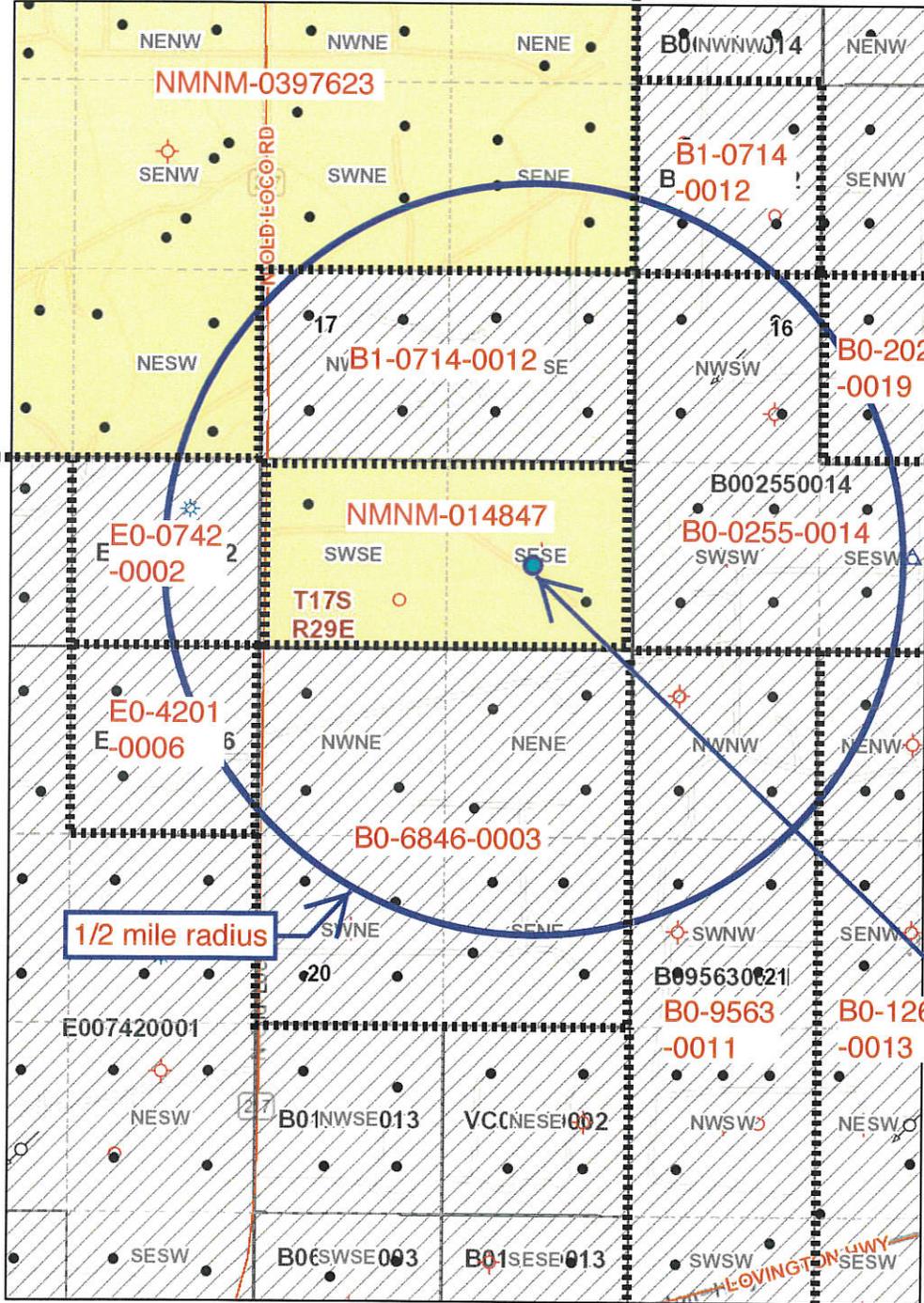
New Mexico State Land Office

EXHIBIT D

Oil, Gas, and Minerals Leases and Wells

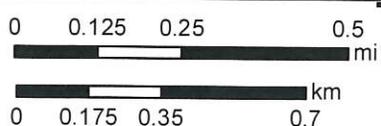
Legend

- Townships
- Sections
- Subdivisions
- Active Wells**
- Water Storage
- Miscellaneous
- ▲ Salt Water Disposal
- Injection
- Carbon Dioxide
- Gas
- Oil
- Inactive Wells**
- Plugged / Dry / Abandoned
- Cancelled / Not Drilled
- Highway Mileposts
- Detailed Roads
- Oil and Gas Leases
- Federal Minerals Ownership**
- All Minerals
- Coal Only
- Oil and Gas Only
- Oil, Gas and Coal Only
- Other Minerals



1/2 mile radius

Angus Federal 17 SWD 1



Disclaimer:
 The New Mexico State Land Office assumes no responsibility or liability for, or in connection with the accuracy, reliability or use of the information provided herein with respect to State Land Office data or data from other sources.

Data pertaining to New Mexico State Trust Lands are provisional and subject to revision, and do not constitute an official record of title. Official records may be reviewed at the New Mexico State Land Office in Santa Fe, New Mexico.

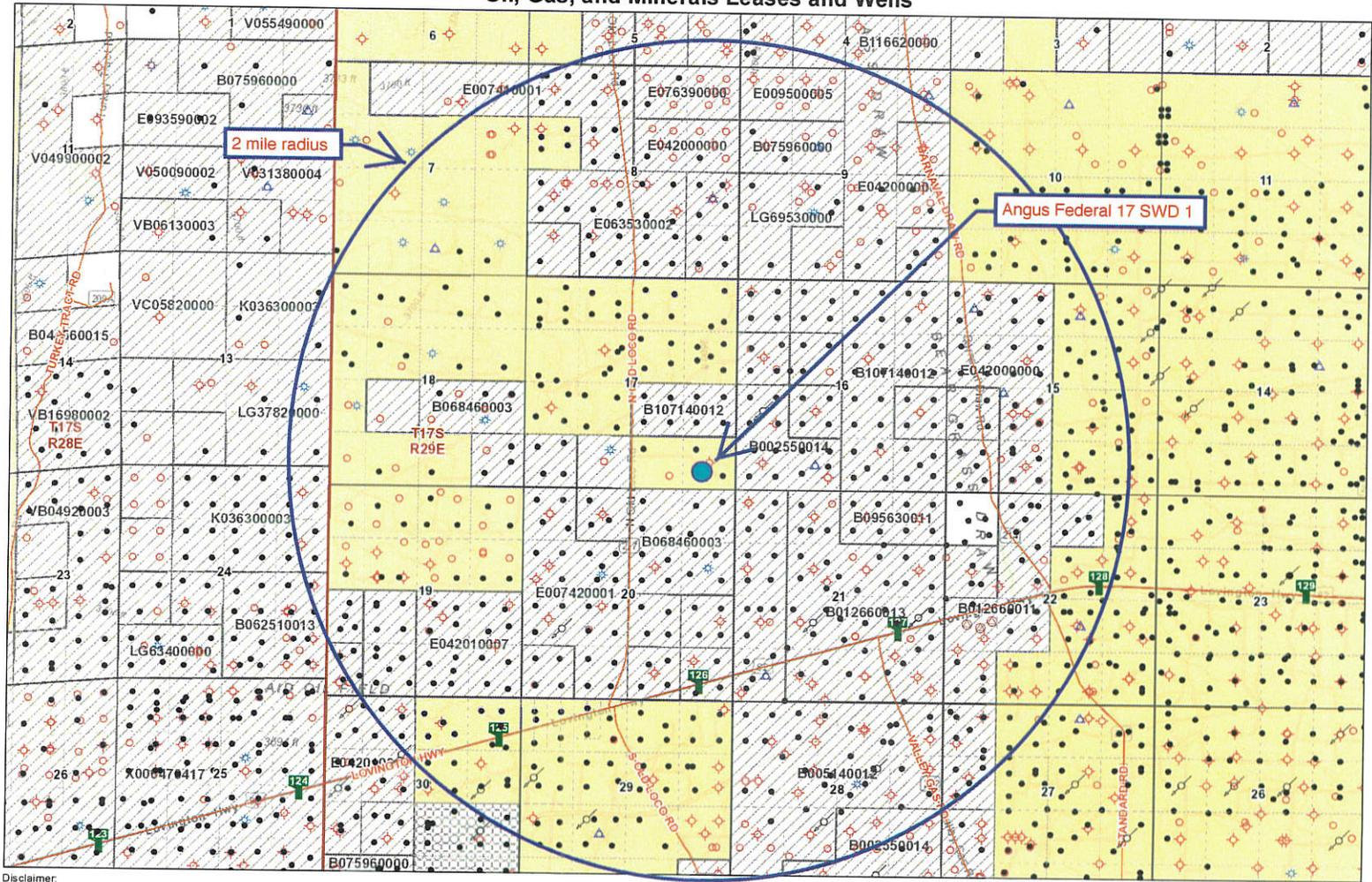
ANGUS FEDERAL 17 SWD 1 AREA OF REVIEW LEASES

Aliquot Parts in Area of Review T 17 S., R. 29 E.	Lessor	Lease	Lessee of Record	Well Operators (none Canyon)
SWNW Sec. 16	NMSLO	B1-0714-0012	COG	Spur
NESW Sec. 16	NMSLO	B0-2023-0019	ZPZ	Spur
NWSW & S2SW4 Sec. 16	NMSLO	B0-0255-0014	SEP	Spur & ConocoPhillips
S2NE4 & NESW Sec. 17	BLM	NMNM-0397623	SEP	Spur & ConocoPhillips
N2SE4 Sec. 17	NMSLO	B1-0714-0012	COG	Spur & ConocoPhillips
SESW Sec. 17	NMSLO	E0-0742-0002	XTO	ConocoPhillips
S2SE4 Sec. 17	BLM	NMNM-014847	ConocoPhillips	Longfellow & ConocoPhillips
NE4 Sec. 20	NMSLO	B0-6846-0003	Longfellow	Longfellow & Mack
NENW Sec. 20	NMSLO	E0-4201-0006	Longfellow	Longfellow & Mewbourne
NENW Sec. 21	NMSLO	B0-1266-0013	SEP	Spur
W2NW4 Sec. 21	NMSLO	B0-9563-0011	SEP	Spur



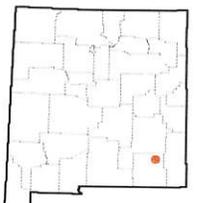
New Mexico State Land Office

Oil, Gas, and Minerals Leases and Wells



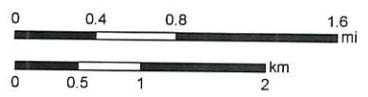
- Legend**
- Townships
 - Sections
 - Subdivisions
 - Active Wells**
 - Water Storage
 - Miscellaneous
 - Salt Water Disposal
 - Injection
 - Carbon Dioxide
 - Gas
 - Oil
 - Inactive Wells**
 - Plugged / Dry / Abandoned
 - Cancelled / Not Drilled
 - Highway Mileposts
 - Detailed Roads
 - Oil and Gas Leases
 - Federal Minerals Ownership**
 - All Minerals
 - Coal Only
 - Oil and Gas Only
 - Oil, Gas and Coal Only
 - Other Minerals

EXHIBIT E



Disclaimer:
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Map Created: 7/30/2020

CANYON PENETRATORS SORTED BY DISTANCE FROM ANGUS FEDERAL 17 SWD 1

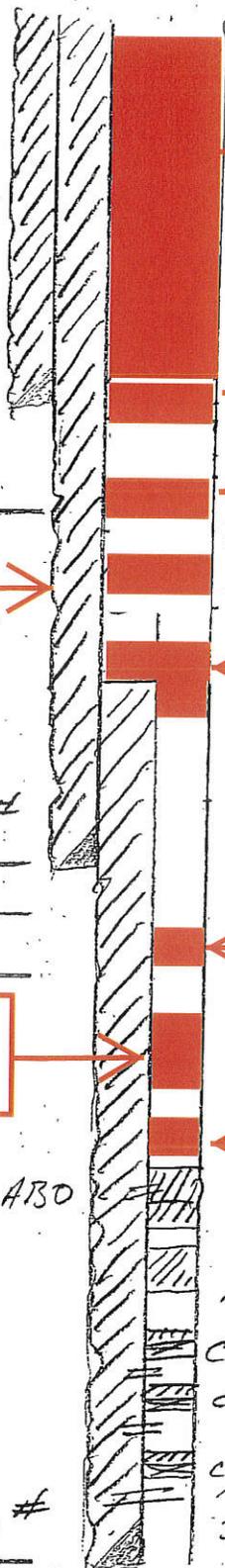
WELL	SPUD	TVD	ZONE @ TD	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
Muskegon 17 Federal 002	3/26/06	10915	Mississippian	P & A	17.5	13.375	254	520 sx	Surface	Circ 8 sx
30-015-34283					12.25	9.625	4515	2430 sx	no report	N/A
P-17-17S-29E					8.75	5.5	10915	1430 sx	3769	CBL
Muskegon 17 State Com 001	9/29/91	10880	Chester	Gas	17.5	13.375	468	475 sx	Surface	Circ 75 sx
30-015-26750					12.25	9.925	2588	1725 sx	Surface	Circ 350 sx
N-17-17S-29E					8.75	5.5	10880	2554 sx	1198	no report
Muskegon 20 State Com 001	8/28/90	10957	Mississippian	Gas	17.5	13.375	445	1055 sx	Surface	Circ 20 sx
30-015-26397					12.25	8.625	2594	1450 sx	Surface	Circ 159 sx
H-20-17S-29E					7.875	5.5	10957	700 sx	8140	Temp Survey

{EXHIBIT F}

1/-

HOLE SIZE 17.5"

SALT SECTIONS TOP 405
BASE 990
RIIP _____



H-40
CASING SIZE 13 3/8 48#
TD 254

HOLE SIZE 12 1/4"

25 sx 1940' - 2140'
25 sx 2140' - 2195'
25 sx 2195' - 2305'

TOC 3769

J-55
CASING SIZE 9 5/8 40#
TD 4515

HOLE SIZE 8 3/4"

50 sx plug 6778' - 7101'
25 sx plug 7101' - 7101'
40 sx plug 7101' - 7290'

ABO

4800 200' plug straw
10000
CIWA + 35' cmt @ 10180
CIWA 10320 + 35' cmt
CIWA 10500
35' cmt

P-110
CASING SIZE 5 1/2 17#
TD 10915

fished out 1074' 5-1/2" csg

60' - Surf

95 sx plug
3' - 225'

CAVE / KARST

SPEC. WATER

TOC SURF
INT
PROD

60 sx plug
225' - 320'

75 sx plug
918' - 1130'

FORMATIONS Yates 895

SA 2205

Gloria 5325

ABO 7040

WC 7240

ST 9908

AT 10110

MR 10500

Miss 10740

25 sx plug 5225' - 5425'

30 sx plug 9393' - 9755'

DVT

PERFORATIONS 10545 - 10597

10350 - 10435

10222 - 10226

7040 - 7238

Muskegon 17 Federal Com 2
30-015-34283
660 FSL & 660 FEL 17-17s-29e
Spud 3-26-06
P&A 4-21-09

PRODUCED WATER ANALYSES (in mg/l) T. 17 S., R. 28 and 29 E.

API	Section	Township	Range	Formation	TDS	Chloride	Bicarbonate	Sulfate
3001501583	27	17S	28E	Abo	224062	135900	378	699
3001501673	32	17S	28E	Abo	34958	19380	2217	1980
3001503083	25	17S	29E	Abo	59305	28980	1677	6934
3001503083	25	17S	29E	Abo	65091	38030	995	2069
3001503183	29	17S	29E	Abo	29400	13700	2520	2800
3001501595	28	17S	28E	Artesia	237482	147300	46	1044
3001501595	28	17S	28E	Artesia	230189	143300	35	925
3001501595	28	17S	28E	Artesia	217219	133800	137	1030
3001501595	28	17S	28E	Artesia	241926	149300	35	1162
3001501595	28	17S	28E	Artesia	30400	12800	2320	4500
3001501595	28	17S	28E	Artesia	222174	137000	109	922
3001501652	31	17S	28E	Artesia	187566	109300	575	4910
3001530889	32	17S	28E	Artesia	163842	111692	836	44
3001530889	32	17S	28E	Artesia	97568	61161	245	2111
3001530299	33	17S	28E	Artesia	194617	129205	674	4405
3001502886	4	17S	29E	Artesia	38560	21670	668	2157
3001502891	4	17S	29E	Artesia	227185	140700	47	900
3001502912	7	17S	29E	Artesia	267895	166300	47	625
3001502996	16	17S	29E	Artesia	102782	57400	450	5600
3001502996	16	17S	29E	Artesia	120438	71800	989	653
3001502996	16	17S	29E	Artesia	1751	799	200	210
3001502996	16	17S	29E	Artesia	138560	75600	1200	9000
3001503019	21	17S	29E	Artesia	237424			
3001503019	21	17S	29E	Artesia	68550	39100	850	2500
3001503019	21	17S	29E	Artesia	69875	41200	485	1800
3001503019	21	17S	29E	Artesia	132353	78840	332	2628
3001503019	21	17S	29E	Artesia	37260	17200	1610	4800
3001503042	22	17S	29E	Artesia	178711	104425	402	4600
3001503034	22	17S	29E	Artesia	56179	31824	716	2350
3001503042	22	17S	29E	Artesia	146796	88400	69	2030
3001503170	28	17S	29E	Artesia	195904	129855	587	4825
3001531125	28	17S	29E	Artesia	240561	176450	91	1054
3001531125	28	17S	29E	Artesia	174045	120583	433	2087
3001503172	28	17S	29E	Artesia	29210	12500	2370	3950
3001503172	28	17S	29E	Artesia	29961	13360	1387	4284
3001503196	33	17S	29E	Artesia	277375	172900	194	1384
3001530334	33	17S	28E	Glorieta/Yeso	206471	137940	504	4742
3001502866	2	17S	29E	Grayburg/San Andres	1406	780	10	550
3001502873	3	17S	29E	Grayburg/San Andres	109000	63070	339	3538

PRODUCED WATER ANALYSES (in mg/l) T. 17 S., R. 28 and 29 E.

API	Section	Township	Range	Formation	TDS	Chloride	Bicarbonate	Sulfate
3001521279	31	17S	29E	Morrow	35148	19800	1510	450
3001521279	31	17S	29E	Morrow	33627	19300	900	540
3001502933	9	17S	29E	Permo-Penn	310744	192950	179	1259
3001537329	5	17S	28E	Wolfcamp	92636	54800	207	0
3001537429	5	17S	28E	Wolfcamp	84981	50400	171	0
3001538084	5	17S	28E	Wolfcamp	84923	49800	635	0
3001537429	5	17S	28E	Wolfcamp	91974	55168	439	0
3001538084	5	17S	28E	Wolfcamp	93671	54565	427	0
3001538084	5	17S	28E	Wolfcamp	67849	39804	98	2172
3001530915	19	17S	29E	Yeso	192637	130436	822	2724
3001530916	19	17S	29E	Yeso	212361	142111	945	4613
3001530944	19	17S	29E	Yeso	215197	144157	409	4785
3001530917	19	17S	29E	Yeso	213384	142829	448	4903
3001530307	29	17S	29E	Yeso	208172	140286	612	3456
3001530451	29	17S	29E	Yeso	182240	121966	933	3445
3001530307	29	17S	29E	Yeso	200501	133638	822	4560
3001530931	29	17S	29E	Yeso	207695	138951	495	4750
3001530305	29	17S	29E	Yeso	207078	137913	660	5163
3001530694	29	17S	29E	Yeso	194357	152244	1112	5958
3001530575	30	17S	29E	Yeso	9557	3819	806	1616
3001530575	30	17S	29E	Yeso	8483	3308	448	1711

06/18/02 09:08 505 748 4585

YATES PET ENG

002

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

ARTESIA DISTRICT

LABORATORY REPORT

EXHIBIT H

No. W38-92

Date February 14, 1992

TO Mr. Harvey Apple
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210

This report is the property of Halliburton Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the express written approval of laboratory management, it may however, be used in the course of regular business operations by any person of concern and employees thereof receiving such report from Halliburton Services

Submitted by Date Rec. February 14, 1992

Well No. State HU #1 from SWD-841 30-105-22146 Depth Formation Upper Penn

Field County Source Swab

Table with 4 columns: Property, Value, County, Source. Rows include Resistivity, Specific Gravity, pH (7.5), Calcium (3,643), Magnesium (1,588), Chlorides (32,000), Sulfates (1,500), Bicarbonates (854), Soluble Iron (0).

Remarks:

Disposal Zone Formation Water

Respectfully submitted

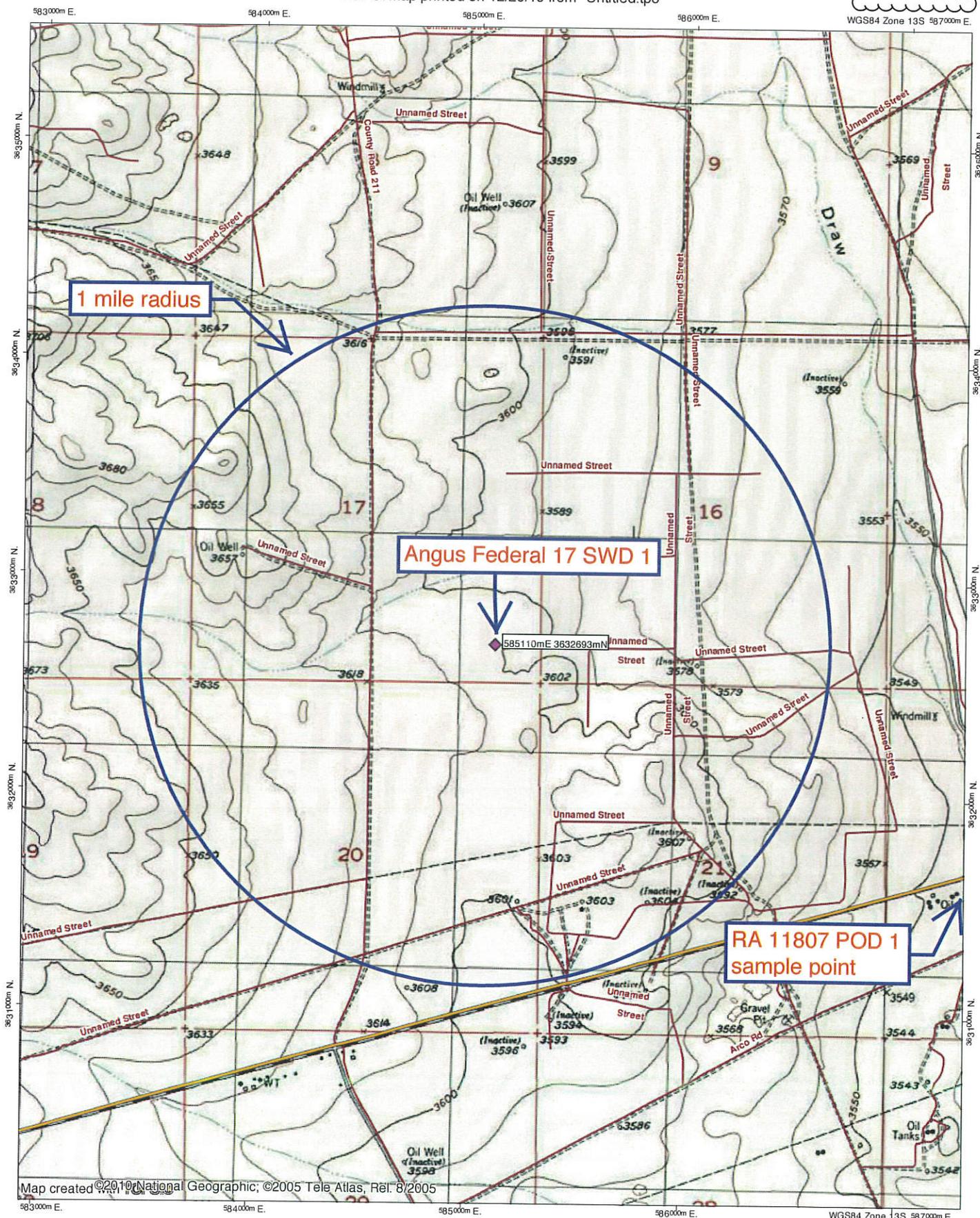
VII. 5.

Analyst: Eric Jacobson - Operations Engineer

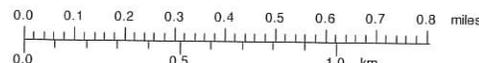
HALLIBURTON SERVICES

TOPO! map printed on 12/20/19 from "Untitled.tpo"

EXHIBIT I



Map created ©2010 National Geographic; ©2005 Tele Atlas, Rel. 8/2005





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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	Code	POD Sub-basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Distance	Depth	WellDepth	Water Column
<u>RA 11807 POD1</u>		RA	ED	1	2	3	22	17S	29E	587360	3631585	2507	131	76	55

Average Depth to Water: **76 feet**
 Minimum Depth: **76 feet**
 Maximum Depth: **76 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 585110

Northing (Y): 3632693

Radius: 3220

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.

12/20/19 4:35 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Analytical Report



Lab Order 2001236

Date Reported: 1/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West

Client Sample ID: RA-11807 Loco GSF

Project: Angus Federal 17 SWD1

Collection Date: 1/7/2020 10:45:00 AM

Lab ID: 2001236-001

Matrix: AQUEOUS

Received Date: 1/8/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 1664B							
N-Hexane Extractable Material	ND	10.4		mg/L	1	1/15/2020 11:43:00 AM	49757

Analyst: KMN

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

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
- PQL Practical Quantitative Limit
- 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 Limit

Analytical Report **EXHIBIT I**
 Lab Order 2001236
 Date Reported: 1/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West **Client Sample ID:** RA-08233 Bogle
Project: Angus Federal 17 SWD1 **Collection Date:** 1/7/2020 11:50:00 AM
Lab ID: 2001236-002 **Matrix:** AQUEOUS **Received Date:** 1/8/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 1664B							
N-Hexane Extractable Material	ND	9.55		mg/L	1	1/15/2020 11:43:00 AM	49757
EPA METHOD 300.0: ANIONS							
Chloride	4200	250	*	mg/L	500	1/10/2020 4:02:07 AM	R65669
SM2540C MOD: TOTAL DISSOLVED SOLIDS							
Total Dissolved Solids	12100	200	*D	mg/L	1	1/13/2020 7:58:00 AM	49723

Analyst: **KMN**

Analyst: **CJS**

Analyst: **JMT**

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

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
- PQL Practical Quantitative Limit
- 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 Limit

Analytical Report



Lab Order 2001236

Date Reported: 1/16/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West

Client Sample ID: RA-11807 Loco GSF

Project: Angus Federal 17 SWD1

Collection Date: 1/7/2020 4:35:00 PM

Lab ID: 2001236-003

Matrix: AQUEOUS

Received Date: 1/8/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	19000	1000	*	mg/L	2E+	1/10/2020 4:14:32 AM	R65669
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: JMT
Total Dissolved Solids	38100	200	*D	mg/L	1	1/13/2020 7:58:00 AM	49723

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
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



WO#: 2001236

16-Jan-20

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Client: Permits West
Project: Angus Federal 17 SWD1

Sample ID: MB-49757	SampType: MBLK	TestCode: EPA Method 1664B								
Client ID: PBW	Batch ID: 49757	RunNo: 65794								
Prep Date: 1/13/2020	Analysis Date: 1/15/2020	SeqNo: 2259838	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	ND	10.0								

Sample ID: LCS-49757	SampType: LCS	TestCode: EPA Method 1664B								
Client ID: LCSW	Batch ID: 49757	RunNo: 65794								
Prep Date: 1/13/2020	Analysis Date: 1/15/2020	SeqNo: 2259839	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	35.0	10.0	40.00	0	87.5	78	114			

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
- PQL Practical Quantitative Limit
- 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 Limit



WO#: 2001236

16-Jan-20

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Client: Permits West
Project: Angus Federal 17 SWD1

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R65669	RunNo: 65669								
Prep Date:	Analysis Date: 1/9/2020	SeqNo: 2256403			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: R65669	RunNo: 65669								
Prep Date:	Analysis Date: 1/9/2020	SeqNo: 2256404			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	97.3	90	110			

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
- PQL Practical Quantitative Limit
- 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 Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.



WO#: 2001236

16-Jan-20

Client: Permits West
Project: Angus Federal 17 SWD1

Sample ID: MB-49723	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 49723	RunNo: 65715								
Prep Date: 1/9/2020	Analysis Date: 1/13/2020	SeqNo: 2257238	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-49723	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: LCSW	Batch ID: 49723	RunNo: 65715								
Prep Date: 1/9/2020	Analysis Date: 1/13/2020	SeqNo: 2257239	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	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
- PQL Practical Quantitative Limit
- 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 Limit

EXHIBIT J

Geologic Assessment
Longfellow Energy L.P.
Angus Federal 17 SWD No. 1
Section 17, Township 17 South, Range 29 East
Eddy County, New Mexico

Cory Walk



B.S., M.S.

Geologist

Permits West Inc.

December 18, 2019



General Information

Longfellow Energy proposes to drill a salt water disposal (SWD) well in the SE 1/4, section 17, T17S, R29E, about 17 miles east of Artesia, NM in the Permian Basin. The proposed injection zone is within the Canyon formation from 9,530'-9,700' below ground surface. This report assesses any potential concerns relating to the connection between the injection zone and known underground potable water sources.

Groundwater Sources

Quaternary Alluvium acts as the principal aquifer used for potable ground water near the Angus Federal 17 SWD #1 location (Hendrickson and Jones, 1952). Nicholson and Clebsch (1961) state, "Potable ground water is not available below the Permian and Triassic unconformity but, because this boundary is not easily defined, the top of the Rustler anhydrite formation is regarded as the effective lower limit of 'potable' ground water." Around the Angus Federal 17 SWD #1, the Rustler Formation lies at a depth of ~350 feet bgs.

Faults and Fractures

The Geologic Map of New Mexico (2003) shows the nearest fault to the SWD location is found 18 miles to the northwest (Figure 1). A large accumulation of northwest trending Basin and Range style normal faults lie ~65 miles from the proposed water injection well. This fault zone is interpreted to be a southeastern extension of the Rio Grande Rift zone (Muehlberger et al., 1978) and is the only area in which deeply penetrating faults exist throughout the region.

A structure contour map of the Precambrian Basement shows the Angus Federal 17 SWD well is approximately 11 miles to the nearest Precambrian basement fault (Figure 1; Modified from Ruppel et al., 2009). However, Montgomery (1997) shows that these faults remain deep below the surface and do not act as conduits between the Pennsylvanian Canyon formation and aquifers near the surface (Figure 2).

Stratigraphy

Well data indicates ~9,180 ft of rock separating the top of the injection zone within the Canyon formation from the previously stated lower limit of potable water at the top of the Rustler anhydrite formation. Within the separating ~9,180 feet of strata include several horizons of impermeable formations including the Rustler anhydrite and Salado halite formations.

Concluding Statement

After examination of publically available geologic and engineering data, there is no evidence of open faults or any other hydrologic connection between the proposed injection zone and any underground sources of drinking water.

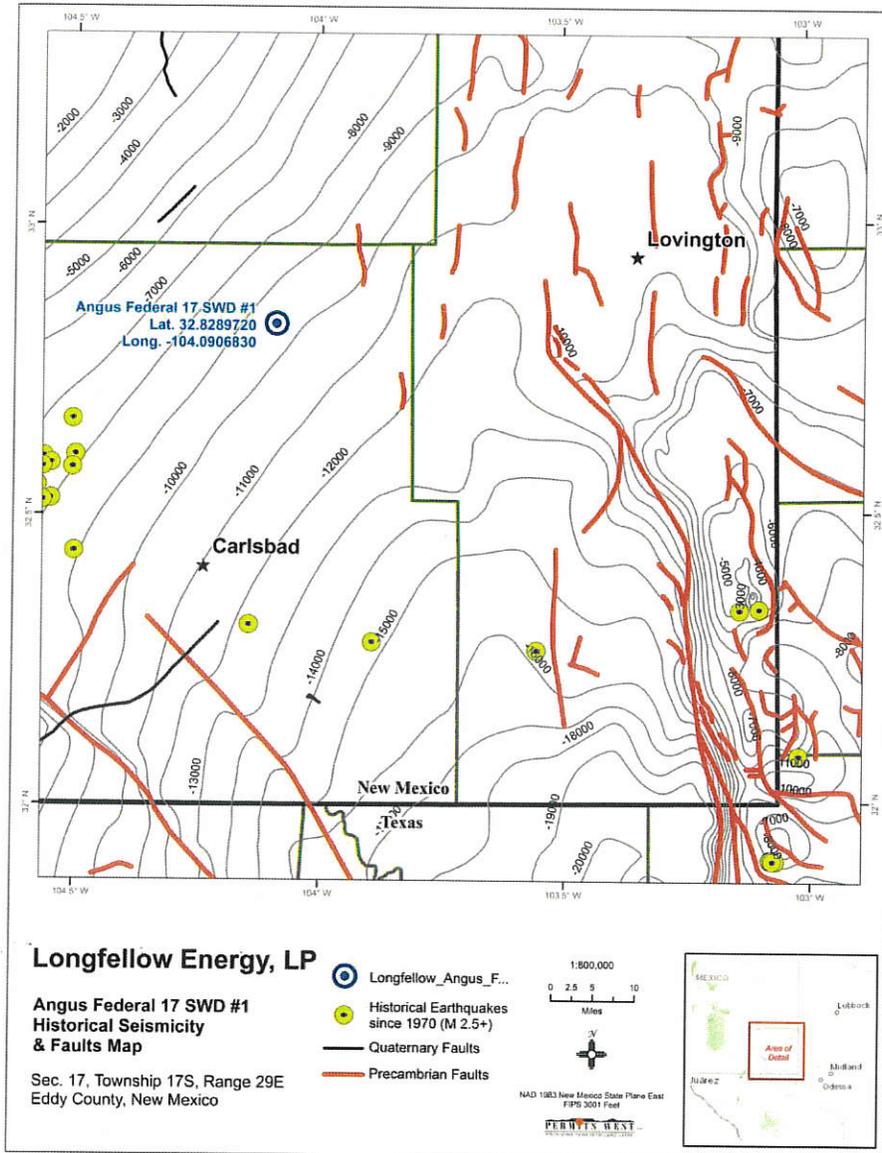


Figure 1. Structural contour map of the Precambrian Basement. Thick red lines represent the locations of deep Precambrian basement faults and black lines represent Quaternary surface faults.

EXHIBIT J

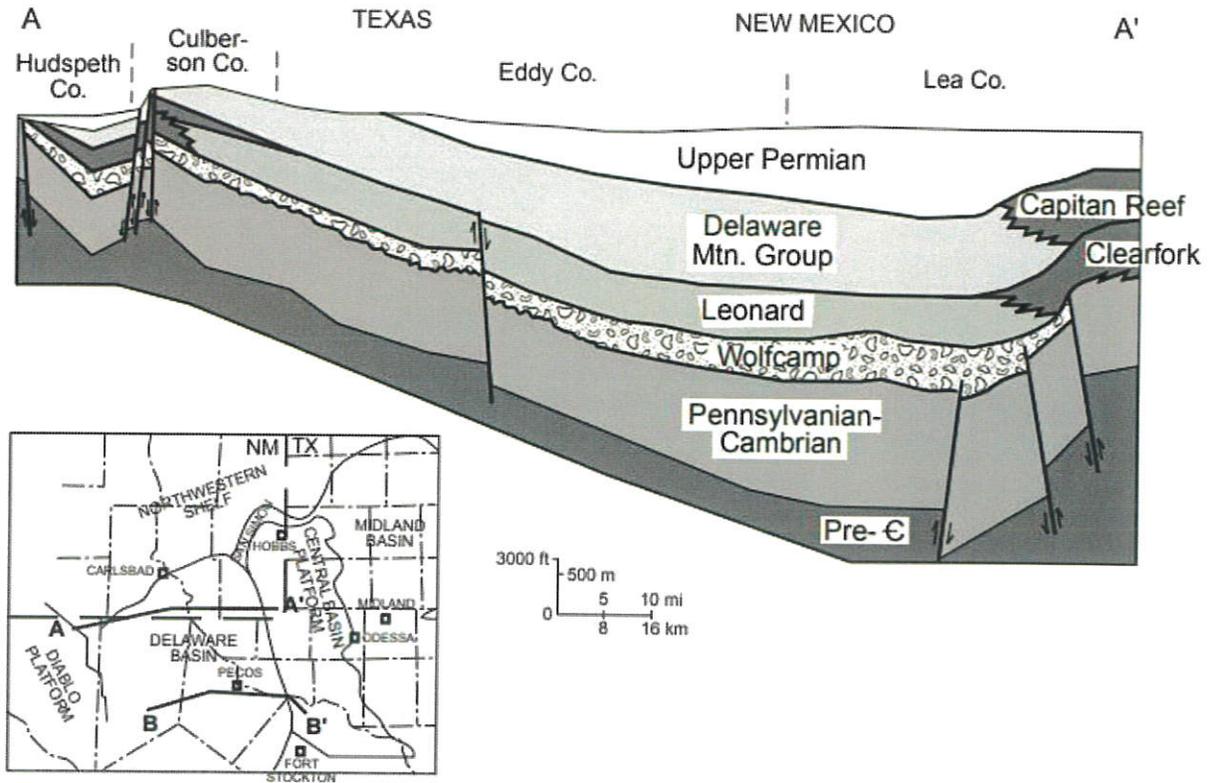


Figure 2. Cross section of the Permian Basin from Montgomery (1997). Notice the basement faults within the basin do not reach the surface and therefore do not act as conduits to near surface aquifers.



References Cited

- Geologic Map of New Mexico, New Mexico Bureau of Geology and Mineral Resources, 2003, Scale 1:500,000.
- Hendrickson, G. E., and Jones, R. S., 1952, Geology and Ground-Water Resources of Eddy County, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Ground-Water Report 3, 179 pp., 6 plates.
- Montgomery, S. L., 1997, Permian Bone Spring Formation: Sandstone play in the Delaware basin: Part I. Slope: AAPG Bulletin, v. 81, p. 1239–1258.
- Muehlberger, W.R., Belcher, R.C., and Goetz, L.K., 1978, Quaternary faulting in Trans-Pecos Texas: Geology, v. 6, p. 337–340.
- Nicholson, A., Jr., and Clebsch, A., Jr., 1961, Geology and ground-water conditions in southern Lea County, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Ground-Water Report 6, 123 pp., 2 plates.
- Ruppel, S.C., 2009, Integrated synthesis of the Permian basin: data and models for recovering existing and undiscovered oil resources from the largest oil-bearing basin: U.S. Oil & Natural Gas Technology, Bureau Economic Geology, The University of Texas at Austin, p. 1-959.

Affidavit of Publication

No. 25501

State of New Mexico Publisher

County of Eddy: Danny Scott *Danny Scott*

being duly sworn says that he is the Publisher

of the Artesia Daily Press, a daily newspaper of General circulation, published in English at Artesia, said county and state, and that the hereto attached

Legal Ad

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 Consecutive weeks/day on the same day as follows:

- First Publication July 23, 2020
- Second Publication _____
- Third Publication _____
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- Seventh Publication _____

Subscribed and sworn before me this 23rd day of July 2020



OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2023

Latisha Romine

Latisha Romine
Notary Public, Eddy County, New Mexico

Copy of Publication: EXHIBIT K

Legal Notice

Longfellow Energy, LP will apply to drill the Angus Federal 17 SWD 1 as a saltwater disposal well. The well will dispose into the Canyon formation from 9,530' to 9,700'. It is staked 6 miles west of Loco Hills and 17 miles east of Artesia, NM at 610 FSL & 705 FEL Sec. 17, T. 17 S., R. 29 E., Eddy County, NM. Maximum disposal rate will be 20,000 bwpd. Maximum injection pressure will be 1,906 psi. 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.

Published in the Artesia Daily Press, Artesia, N.M., July 23, 2020 Legal No. 25501.



August 12, 2020

BLM
620 E. Greene
Carlsbad NM 88220

Longfellow Energy, LP is applying (see attached application) to drill the Angus Federal 17 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: Angus Federal 17 SWD 1 TD = 9700'
Proposed Disposal Zone: Canyon (9530' - 9700')
Location: 610' FSL & 705' FEL Sec. 17, T. 17 S., R. 29 E., Eddy County, NM
Approximate Location: 17 miles east of Artesia, NM
Applicant Name: Longfellow Energy, LP (972) 242-8851
Applicant's Address: 16803 North Dallas Parkway, Addison TX 75001

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

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Marilyn Chase
 PO BOX 693
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 PO Box 1148
 Santa Fe NM 87504
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 1001 Noble Energy Way
 Houston TX 77070
 Longfellow Angus 17 SWD

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Noble Energy Inc c/o Chevron
 6301 Deauville Blvd.
 Midland TX 79706
 Longfellow Angus 17 SWD

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Nona M & Thomas Brewer
 PO BOX 276
 Artesia NM 88210
 Longfellow Angus 17 SWD

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Raven Resources, LLC
 13220 N MacArthur Blvd
 Oklahoma City OK 73142
 Longfellow Angus 17 SWD

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Richard L Chase
 PO Box 1767
 Artesia NM 88211
 Longfellow Angus 17 SWD

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 Richard L Chase
 505 S Bolton Road
 Artesia NM 88210

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 Richard L Chase
 PO BOX 359
 Artesia NM 88211

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 Robert G Chase
 PO BOX 297
 Artesia NM 88214

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Total Postage and Fees \$
 Rover Operating, LLC
 17304 Preston Rd STE 740
 Dallas TX 75252

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 Rover Operating, LLC
 17304 Preston Rd Suite 300
 Dallas TX 75252

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 Sellers & Fulton LLC
 PO Box 1178
 Artesia NM 88214

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 SEP Permian Holding Corp
 920 Memorial City Way STE 1000
 Houston TX 77024

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 920 Memorial City Way STE 1000
 Houston TX 77024

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 Siete Oil & Gas Corp
 PO Box 2523
 Roswell NM 88202

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 Southwest Royalties, Inc
 8 Desha Dr STE 3700
 Midland TX 79705

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Total Postage and Fees \$
 Southwest Royalties, Inc
 PO Box 53570
 Midland TX 79710

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 St. Devote LLC
 919 Milam St STE 2475
 Houston TX 77002

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 Spring TX 77381
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Sent To: Tritex Energy A LP
 15455 Dallas Pkwy STE 600
 Addison TX 75001
 Longfellow Angus 17 SWD

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Sent To: Viersen-OG Co
 8450 S Lewis #200
 Tulsa OK 74136
 Longfellow Angus 17 SWD

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Sent To: Viersen-OG Co
 PO Box 702708
 Tulsa OK 74170
 Longfellow Angus 17 SWD

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Sent To: Warren-Hanson
 PO Box 9
 Glencoe NM 88324
 Longfellow Angus 17 SWD

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Sent To: Westall Oil and Gas, LLC
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 Loco Hills NM 88255
 Longfellow Angus 17 SWD

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 22777 Springwoods Village
 Spring TX 77389
 Longfellow Angus 17 SWD

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Sent To: ZPZ Delaware, LLC
 2000 Post Oak Blvd., #100
 Houston TX 77056
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