

5/01/2017 DATE IN	SUSPENSE	RECEIVED ENGINEER	5/02/2017 LOGGED IN	SAD TYPE	PM 4/17/2225015 APP NO
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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



API:30-025-34628

Grama C 8817 JV-P #1

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]

[A] Location - Spacing Unit - Simultaneous Dedication

☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[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,
We will forward copies of the signed "green card" PS Form 3811 certifications as soon as all are received back.

[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.

Kayla McConnell
Print or Type Name

Kayla McConnell
Signature

Regulatory Analyst
Title

4/25/2017
Date

kmcconnell@btaoil.com
e-mail Address



CARLTON BEAL, JR.
BARRY BEAL
SPENCER BEAL
KELLY BEAL
BARRY BEAL, JR.
STUART BEAL
ROBERT DAVENPORT, JR.

BTA OIL PRODUCERS, LLC

104 SOUTH PECOS STREET
MIDLAND, TEXAS 79701-5021
432-682-3753
FAX 432-683-0311

GULF COAST DISTRICT
TOTAL PLAZA
1201 LOUISIANA STREET, STE. 570
HOUSTON, TEXAS 77002
713-658-0077 FAX 713-655-0346

ROCKY MOUNTAIN DISTRICT
600 17TH STREET, STE. 2230 SOUTH
DENVER, COLORADO 80202
303-534-4404 FAX 303-534-4661

April 24, 2017

Re: Amended Application for Authorization to Inject
8817 JV-P Grama -C- #1
30-025-34628
660' FSL & 660' FWL
Section 16, T22S, R34E
Lea County, New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION
OIL CONSERVATION DIVISION
Attn: Mr. Michael McMillan
1220 South St. Francis Drive
Santa Fe, NM 87505

Dear Mr. McMillan,

BTA Oil Producers, LLC hereby seeks approval for Authorization to Inject at the above referenced location. We are proposing to reenter this well and convert to injection. We plan to utilize this well as a commercial disposal.

Enclosed herewith is our Application Packet.

BTA has notified all offset Operators and the Surface Owner of our intentions by certified mail. We will forward copies of the signed "green card" PS form 3811 certifications as soon as all are received back.

BTA has also published a Legal Notice in the Hobbs Daily News-Sun. The Affidavit of Publication is attached.

Should further information be required to approve this application, please advise.

Respectfully,

Kayla McConnell
BTA Oil Producers, LLC

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance X Disposal _____ Storage
Application qualifies for administrative approval? X Yes _____ No
- II. OPERATOR: BTA OIL PRODUCERS, LLC
ADDRESS: 104 SOUTH PECOS, MIDLAND, TX 79701
CONTACT PARTY: KAYLA MCCONNELL PHONE: 432-682-3753
- 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 X No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
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: KAYLA MCCONNELL TITLE: REGULATORY ANALYST
SIGNATURE: Kayla McConnell DATE: 4/25/2017
E-MAIL ADDRESS: KMCCONNELL@BTAOIL.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: BTA OIL PRODUCERS, LLC

WELL NAME & NUMBER: 8817 JV-P Grama -C- #1

WELL LOCATION: 660' FSL & 660' FWL
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA
Surface Casing

(See Attached Wellbore Schematic)

Hole Size: 26" Casing Size: 20"
Cemented with: 1800 sx. or ft³
Top of Cement: Surface Method Determined: Cmt Circ.

Intermediate Casing

Hole Size: 12-1/4" Casing Size: 9-5/8"
Cemented with: 2000 sx. or ft³
Top of Cement: Surface Method Determined: Cmt Circ.

Production Casing

Hole Size: 8-3/4" / 6-1/8" Casing Size: 7" / 5"
Cemented with: 1440 / 205 sx. or ft³
Top of Cement: 980' Method Determined:

Total Depth: 13,391' / PB 7,000'

Injection Interval

5630' feet to 6840' (Perforated)

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 4 - 1/2" Lining Material: Internally Plastic-coated

Type of Packer: Arrowset 1X

Packer Setting Depth: ±5610'

CIBP @ ±13145', cap w/40' cmt
CIBP @ ±13040', cap w/40' cmt

CIBP @ ±12800' cap w/40' cmt

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

CIBP @ ±11250', cap w/40' cmt (Proposed)

CIBP @ ±7040', cap w/40' cmt (Proposed)

Additional Data

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

If no, for what purpose was the well originally drilled? Oil & Gas Producer, 1999

2. Name of the Injection Formation: Delaware (Bell Canyon/Cherry Canyon)

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

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. Yes, Morrow 12838' -

13264'

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Delaware 5274', Bone Spring 8468', Strawn 11820', Morrow 12690'

Current Wellbore

Tubing Detail

10,934.32' - 2-7/8" 6.5# N-80 AB Mod
2201.37' - 2-7/8" 6.5# N-80 CS Hydril

KB = 19

X-Mas Tree Top Conn.

Delaware 5274
Bone Springs 8468

@ 1305' - 20" 106.5# K-55 Surf. Csg. Cmtd w/ 1800 Sx Cmt Circ

TOC @ 980' by Temp Survey

@ 5310' - 9-5/8" 40# J-55 & HCK-55 Intern Csg. Cmtd w/ 2000 Sx Cmt Circ

DV Tool @ 6509'

@ 11700' - 7" 29# P-110 Prod. Csg. Cmtd w/ 1400 sx TOC @ 980' by Temp Survey

Pkr @ 12733.4'

TCP Gun

13040'

Morrow Zone Perfs 12,838 - 841'; 12,845 - 854'

CIBP @ 13040'

13125

Morrow Zone Perfs 13,073 - 13,081'; 13,083 - 13,089'

CIBP @ 13145'

TCP Gun w/
stress frac

13125

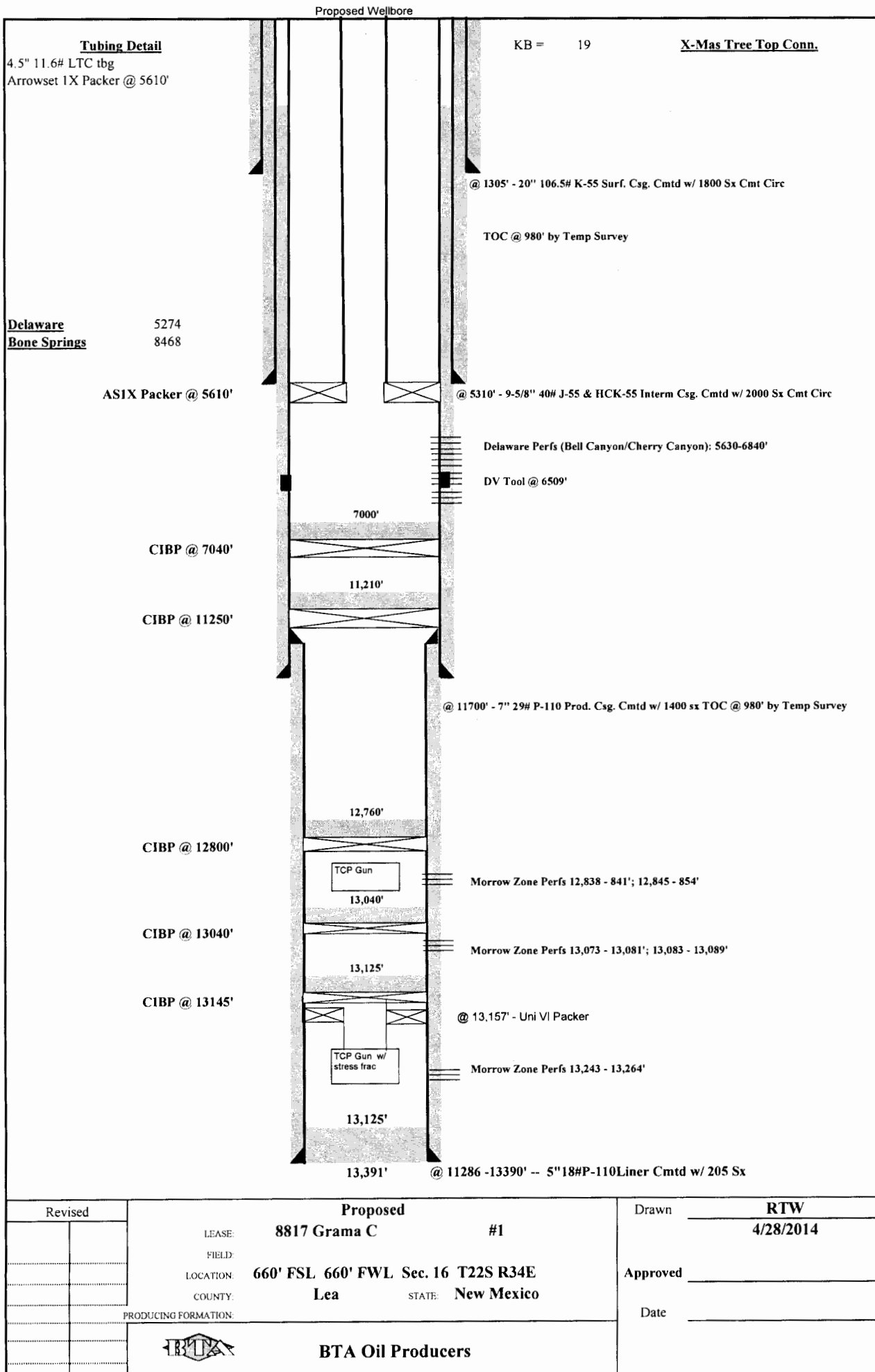
@ 13,157' - Uni VI Packer

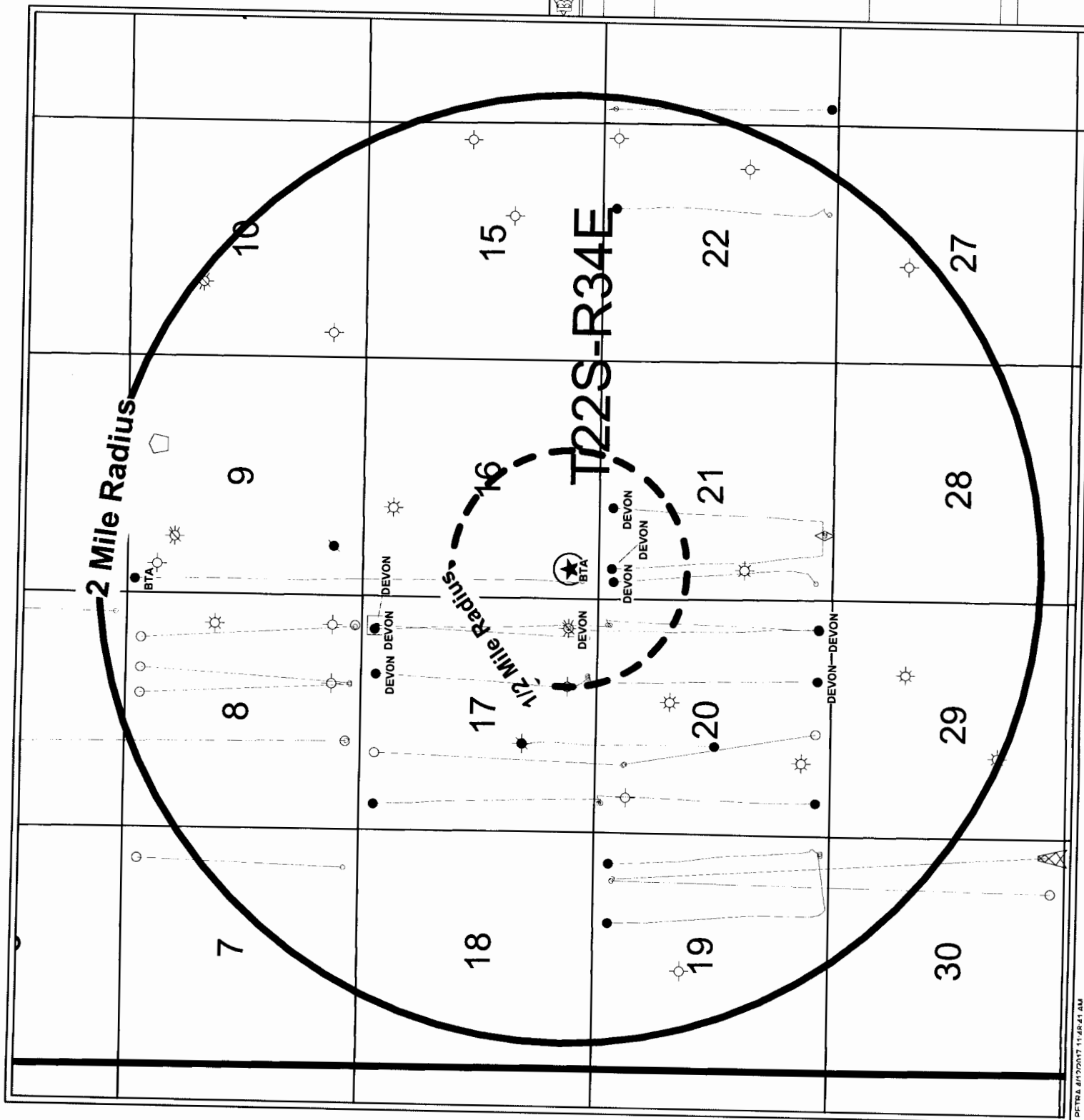
Morrow Zone Perfs 13,243 - 13,264'

13,391'

@ 11286 - 13390' -- 5"18#P-110Liner Cmtd w/ 205 Sx

Revised		Gas Well		Drawn	TJW
		LEASE:	8817 Grama C		6/3/2008
		FIELD:			
		LOCATION:	660' FSL 660' FWL Sec. 16 T2S R34E	Approved	
		COUNTY:	Lea		
		STATE:	New Mexico	Date	
		PRODUCING FORMATION:			
		 BTA Oil Producers			





BTA OIL PRODUCERS, LLC

8817 JV-P Grama C #1

SWD Conversion

660TSL & 660FWL S16-T22S-R34E

Lea County, New Mexico

WELL SYMBOLS

- ★ Proposed Location
- Permitted Location
- Drilling Well
- Drilled, Waiting on Completion
- Oil Well
- Gas Well
- Dry Hole
- Plugged & Abandoned Oil Well
- Plugged & Abandoned Gas Well
- Storage
- Pilot Hole

REMARKS

8817 JV-P Grama C #1 Highlighted in Yellow
 1/2 Mile Radius Indicated in Red Dash
 2 Mile Radius Indicated in Red
 Only Wells Within 2 Mile Radius Shown on Map
 Labeled Operators on Wells Within 1/2 Mile
 See Exhibit "A" For Well List

By: JHB

0 2.883

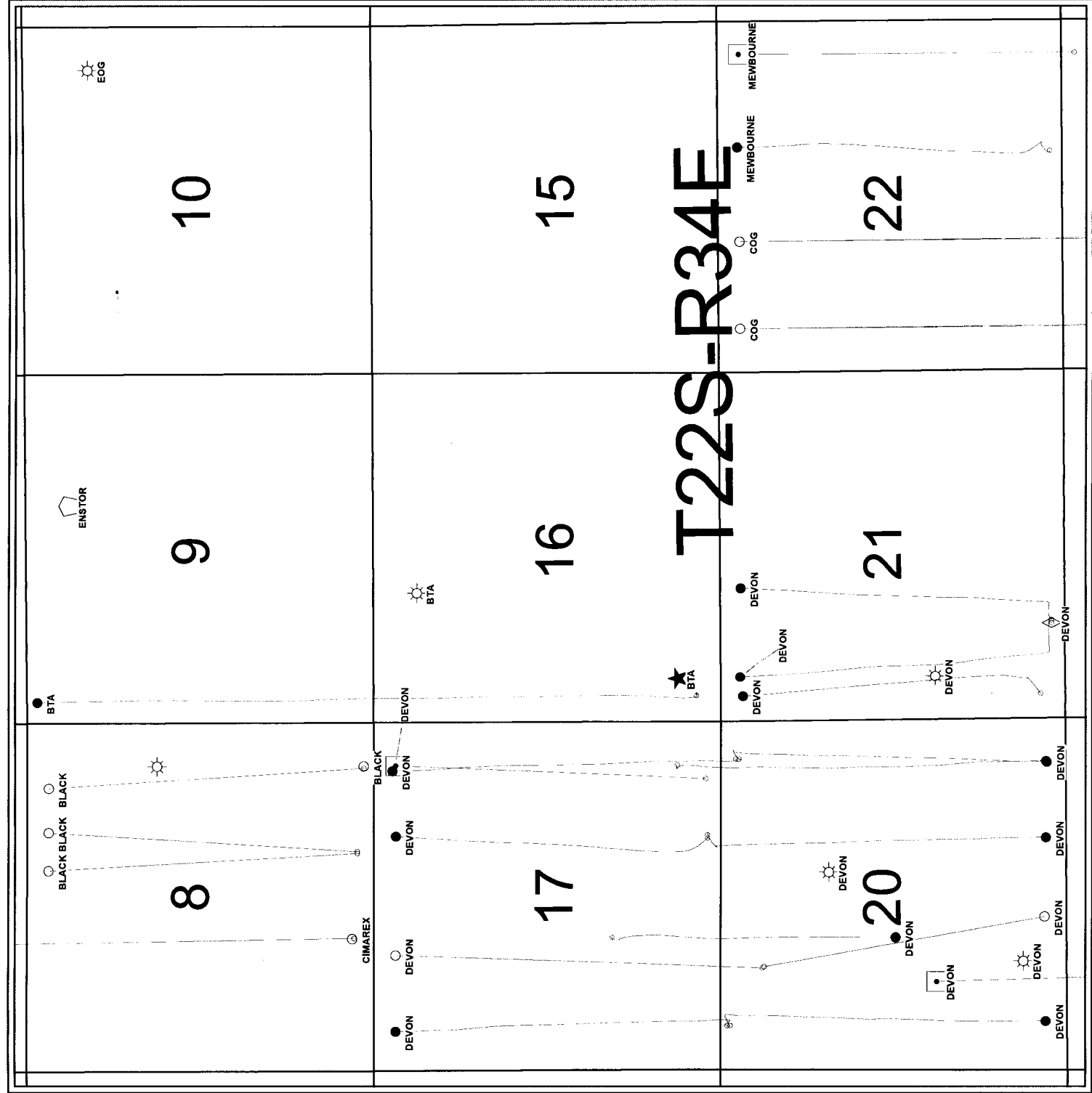
FEET

BTA Oil Producers LLC
Application for Authorization to Inject
8817 JV-P Grama C #1
660' FSL & 660' FWL
Section 16, T22S, R34E
Lea County, New Mexico

Attachment to C-108

V.

Active Operator Well Data							
API #	Operator	Well Name	Well No.	Sec	Twn	Rng	Footage Calls
30025300460001	BMOG LLC	GRAMA RIDGE 8 STATE	1	8	22S	34E	1980'FNL & 660'FEL
30025434670000	CIMAREX ENERGY CO	GRAMA RIDGE WEST 8 STATE	2	8	22S	34E	330'FSL & 1980'FWL
30025435540000	CIMAREX ENERGY CO	GRAMA RIDGE WEST 8 5 FEDERAL	2H	8	22S	34E	280'FSL & 2000'FWL
30025436070000	BLACK MTN OPER LLC	GRAMA RIDGE 8 STATE	002H	8	22S	34E	250'FSL & 1965'FEL
30025436080000	BLACK MTN OPER LLC	GRAMA RIDGE 8 STATE	003H	8	22S	34E	150'FSL & 695'FEL
30025436090000	BLACK MTN OPER LLC	GRAMA RIDGE 8 STATE	004H	8	22S	34E	150'FSL & 665'FEL
30025436100000	BLACK MTN OPER LLC	GRAMA RIDGE 8 STATE	005H	8	22S	34E	250'FSL & 1995'FEL
30025306860000	ENSTOR GRAMA RIDGE	GRAMA RIDGE FEDERAL	1	9	22S	34E	660'FNL & 1980'FEL
30025306860001	ENSTOR GRAMA RIDGE	GRAMA RIDGE FEDERAL 8817 JV-P	1	9	22S	34E	660'FNL & 1980'FEL
30025284420000	EOG RESOURCES INC	GOVERNMENT 'A'	2	10	22S	34E	990'FNL & 660'FEL
30025305610000	BTA OIL PRODUCER LLC	GRAMA 8817 JV-P COM	1	16	22S	34E	660'FNL & 1980'FWL
30025346280000	BTA OIL PRODUCER LLC	8817 JV-P GRAMA 'C'	1	16	22S	34E	660'FSL & 660'FWL
30025434260000	BTA OIL PRODUCER LLC	GRAMA 8817 JV-P FED COM	2H	16	22S	34E	330'FSL & 380'FWL
30025344400100	DEVON ENERGY PROD	GAUCHO UNIT	7H	17	22S	34E	1650'FSL & 1980'FWL
30025347890100	DEVON ENERGY PROD	GAUCHO UNIT	6H	17	22S	34E	660'FSL & 660'FEL
30025411830000	DEVON ENERGY PROD	GAUCHO UNIT	10H	17	22S	34E	200'FSL & 1780'FEL
30025411840000	DEVON ENERGY PROD	GAUCHO UNIT	11H	17	22S	34E	200'FSL & 1730'FEL
30025428140000	DEVON ENERGY PROD	GAUCHO UNIT	23H	17	22S	34E	225'FSL & 870'FEL
30025339300000	DEVON ENERGY PROD	GAUCHO UNIT	4	20	22S	34E	1650'FNL & 2310'FEL
30025345570000	DEVON ENERGY PROD	GAUCHO UNIT	3	20	22S	34E	660'FSL & 1650'FWL
30025415640000	DEVON ENERGY PROD	GAUCHO UNIT	12H	20	22S	34E	275'FNL & 575'FEL
30025415650000	DEVON ENERGY PROD	GAUCHO UNIT	13H	20	22S	34E	225'FNL & 575'FEL
30025415660000	DEVON ENERGY PROD	GAUCHO UNIT	15H	20	22S	34E	100'FNL & 660'FWL
30025415710000	DEVON ENERGY PROD	GAUCHO UNIT	14H	20	22S	34E	150'FNL & 660'FWL
30025433350000	DEVON ENERGY PROD	GAUCHO UNIT	29H	20	22S	34E	635'FNL & 1523'FWL
30025433360000	DEVON ENERGY PROD	GAUCHO UNIT	30H	20	22S	34E	678'FNL & 1549'FWL
30025342660000	DEVON ENERGY PROD	GAUCHO '21' FEDERAL	1	21	22S	34E	1980'FSL & 660'FWL
30025342660001	DEVON ENERGY CORP	GAUCHO '21' FEDERAL	1	21	22S	34E	1980'FSL & 660'FWL
30025342660002	DEVON ENERGY PROD	GAUCHO '21' FEDERAL	1	21	22S	34E	1980'FSL & 660'FWL
30025406260000	DEVON ENERGY PROD	GAUCHO '21' FEDERAL	2H	21	22S	34E	375'FSL & 375'FWL
30025421360000	DEVON ENERGY PROD	GAUCHO '21' FEDERAL	3H	21	22S	34E	200'FSL & 1450'FWL
30025421360100	DEVON ENERGY PROD	GAUCHO '21' FEDERAL	3H	21	22S	34E	200'FSL & 1450'FWL
30025421370000	DEVON ENERGY PROD	GAUCHO '21' FEDERAL	4H	21	22S	34E	200'FSL & 1500'FWL
30025422880000	MEWBOURNE OIL CO	PERRO LOCO 22 B3OB FEDERAL	1H	22	22S	34E	185'FSL & 1980'FEL
30025431640000	COG OPERATING LLC	SQUINTS FEDERAL COM	4H	27	22S	34E	190'FSL & 660'FWL
30025431660000	COG OPERATING LLC	SQUINTS FEDERAL COM	3H	27	22S	34E	190'FSL & 1980'FWL
30025431670000	COG OPERATING LLC	SQUINTS FEDERAL COM	7H	27	22S	34E	190'FSL & 2010'FWL
30025431680000	COG OPERATING LLC	SQUINTS FEDERAL COM	8H	27	22S	34E	190'FSL & 690'FWL
30025433930000	MEWBOURNE OIL CO	PERRO LOCO 22 B2PA FED	1H	27	22S	34E	200'FNL & 500'FEL
30025419780000	DEVON ENERGY PROD	GAUCHO UNIT	20H	29	22S	34E	200'FSL & 1500'FWL



BTA OIL PRODUCERS, LLC
8817 JV-P Grama C #1 Active Operator Map 660FSL & 660FMA, S16-T22S-R34E Lea County, New Mexico
WELL SYMBOLS ★ Proposed Location ○ Permitted Location ● Drilled, Waiting on Completion ☀ Oil Well ☀ Gas Well □ Storage ◇ Pilot Hole
REMARKS Only Active Locations Shown on Map See Exhibit "A" For Well List
By: JHB
0 1,993 FEET

VI.

HALF MILE RADIUS												
API #	Operator	Well Name	Well No.	TD	Sec	Twn	Rng	Footage Calls	Spud Date	Comp Date	Status	Prod Fm
30025346280000	BTA OIL PRODUCER LLC	8817 JV-P GRAMA `C`	1	13391	16	22S	34E	660'FSL & 660'FWL	6/16/1999	9/1/1999	REC-LOC	MORROW
30025434260000	BTA OIL PRODUCER LLC	GRAMA 8817 JV-P FED C	2H	20168	16	22S	34E	330'FSL & 380'FWL	9/25/2016	1/23/2017	OIL	BONESPRING
30025347890000	DEVON ENERGY PROD	GAUCHO UNIT	6	13410	17	22S	34E	660'FSL & 660'FEL	1/7/2000	8/15/2000	PAGW	MORROW
30025347890100	DEVON ENERGY PROD	GAUCHO UNIT	6H	16716	17	22S	34E	660'FSL & 660'FEL	12/30/2012	3/28/2013	OIL	BONESPRING
30025411830000	DEVON ENERGY PROD	GAUCHO UNIT	10H	16126	17	22S	34E	200'FSL & 1780'FEL	8/7/2013	11/27/2013	OIL	BONESPRING
30025411840000	DEVON ENERGY PROD	GAUCHO UNIT	11H	16010	17	22S	34E	200'FSL & 1730'FEL	9/7/2013	11/21/2013	OIL	BONESPRING
30025428140000	DEVON ENERGY PROD	GAUCHO UNIT	23H	15832	17	22S	34E	225'FSL & 870'FEL	12/14/2015		WOC	
30025415640000	DEVON ENERGY PROD	GAUCHO UNIT	12H	14916	20	22S	34E	275'FNL & 575'FEL	12/20/2014	5/4/2015	OIL	BONESPRING
30025415650000	DEVON ENERGY PROD	GAUCHO UNIT	13H	15378	20	22S	34E	225'FNL & 575'FEL	1/24/2015	5/1/2015	OIL	BONESPRING
30025406260000	DEVON ENERGY PROD	GAUCHO '21' FEDERAL	2H	12600	21	22S	34E	375'FSL & 375'FWL	7/10/2012	9/14/2012	OIL	DELAWARE
30025421360100	DEVON ENERGY PROD	GAUCHO '21' FEDERAL	3H	14917	21	22S	34E	200'FSL & 1450'FWL	7/22/2015	12/5/2015	OIL	BONESPRING
30025421370000	DEVON ENERGY PROD	GAUCHO '21' FEDERAL	4H	14890	21	22S	34E	200'FSL & 1500'FWL	7/31/2015	12/10/2015	OIL	BONESPRING

BTA Oil Producers LLC
Application for Authorization to Inject
8817 JV-P Grama C #1
660' FSL & 660' FWL
Section 16, T22S, R34E
Lea County, New Mexico

VI AOR Well Data

Well Name	Operator	Location	Type of Well	Spud Date	Comp Date	TD PBDT	Comp Interval	Producing Formation	Casing Program			
									Casing	Depth	Amt Cmt	Circ
8817 JV-P Grama C 1 30-025-34628	BTA Oil Producers LLC	1980' FSL & 860' FNL 16-235-34E	Gas	6/16/1999	8/23/1999	13391' MD 13373' PBDT	13323-13264' 12838-13089' (added 10/10)	Morrow CIBP @ 13125' CIBP @ 13040'	20" 9-5/8" 7"	1305 5310 11700	1800 2000 1400	Circ Circ 980
Grama 8817 JV-P Fed Com #2H 30-025-43426	BTA Oil Producers LLC	330' FSL & 380' FWL 16-235-34E	Oil	9/25/2016	1/23/2017	20168' MD 20053' PBDT	10700' - 20031'	Bone Spring	13-3/8" 9-5/8" 5-1/2"	1754 5205 20129	1475 1135 3140	Circ Circ 3465
Gaucha 21 Federal 2H 30-025-40626	Devon Energy Prod Co	375' FSL & 375' FWL 21-225-34E	Oil	7/10/2012	8/30/2012	12600' MD 12543' PBDT	8625-12538'	Delaware	13-3/8" 9-5/8" 5-1/2"	1741 5020 12600	1505 3225 1705	Circ Circ 2673
Gaucha 21 Federal 3H 30-025-42136	Devon Energy Prod Co	375' FSL & 375' FWL 21-225-34E	Oil	7/22/2015	12/5/2015	12600' MD 12543' PBDT	8625-12538'	Delaware	13-3/8" 9-5/8" 5-1/2"	1741 5020 12600	1505 3225 1705	Circ Circ 2673
Gaucha 21 Federal 4H 30-025-42137	Devon Energy Prod Co	375' FSL & 375' FWL 21-225-34E	Oil	7/31/2015	12/10/2015	12600' MD 12543' PBDT	8625-12538'	Delaware	13-3/8" 9-5/8" 5-1/2"	1741 5020 12600	1505 3225 1705	Circ Circ 2673
Gaucha Unit 6 30-025-34789-00 (recomplete to #6H)	Devon Energy Prod Co	660' FSL & 660' FEL 17-225-34E	Gas	1/7/2000	7/30/2000	13410' MD 13999' PBDT	13254-13261' 13077-13096' (added 9/08)	Morrow	20" 9-5/8" 7"	915 5196 12050	1200 1700 1300	Circ Circ Circ
Gaucha Unit 6H 30-025-34789-01 (recomplete from #6)	Devon Energy Prod Co	660' FSL & 660' FEL 17-225-34E	Oil		3/21/2013	16716' MD 16565' PBDT	11730-16542'	Bone Spring	20" 9-5/8" 7" 4-1/2"	915 5196 12050 10577-16700'	1200 1700 1300 620	Circ Circ Circ 10577
Gaucha Unit 10H 30-025-41183	Devon Energy Prod Co	200' FSL & 1780' FEL 17-225-34E	Oil	4/7/2013	11/15/2013	16216' MD 16007' PBDT 11359' TVD 11357' PBDT	11515-15992'	Bone Spring	13-3/8" 9-5/8" 5-1/2"	1653 5100 16126	1490 2070 2610	Circ Circ 3500
Gaucha Unit 11H 30-025-41184	Devon Energy Prod Co	200' FSL & 1730' FEL 17-225-34E	Oil	9/7/2013	11/17/2013	16080' MD 15995' PBDT 11301' TVD 11324' PBDT	11401-15882'	Bone Spring	13-3/8" 9-5/8" 5-1/2"	1714 5116 16110	1030 2195 2385	Circ Circ 5010
Gaucha Unit 12H 30-025-41564	Devon Energy Prod Co	275' FNL & 575' FEL 20-225-34E	Oil	12/20/2014	4/1/2015	14916' MD 10385' TVD	10550-14825'	Wolfcamp	13-3/8" 9-5/8" 5-1/2"	1757 5170 14916	1485 1813 1725	Circ Circ Circ
Gaucha Unit 13H 30-025-41565	Devon Energy Prod Co	225' FNL & 575' FEL 20-225-34E	Oil	2/17/2015	4/12/2015	15300' MD 10330' TVD	10740-15285'	Wolfcamp	13-3/8" 9-5/8" 5-1/2"	1770 5170 15378	1190 1700 1855	Circ Circ Circ

BTA Oil Producers, LLC
Application for Authorization to Inject
8817 JV-P Grama -C- #1
30-025-34628
660' FSL & 660' FWL
Section 16, T22S, R34E
Lea County, New Mexico

Attachment to C-108

VII.

Operation Data

1. Proposed average daily injection volume 5000 BWPD
Proposed maximum daily injection volume 7500 BWPD
2. This will be a closed system.
3. Proposed average daily injection pressure 900 psi
Proposed maximum daily injection pressure 1080 psi
4. Sources of injection water will be produced water from area producers, including but not limited to current and future Delaware, Bone Spring, and Wolfcamp producers in the area. See the attached water analysis.

Disposal Zone Formation Water

5. Injection into the 8817 JV-P Grama -C- #1 will be for disposal of produced water from other wells. The zone identified for disposal is not productive of oil and gas at this location. See the attached Water Analysis, Producing Formation Map and Well Data.

Pro-Kem WATER ANALYSIS REPORT

SAMPLE

Oil Co. : **BTA**
Lease : **Gem**
Well No.: **#5**
Location:
Attention:

Date Sampled : **25-July-2013**
Date Analyzed: **08-August-2013**
Lab ID Number: **Aug0813.002- 4**
Salesperson :
File Name : **Aug0813.002**

ANALYSIS

1. Ph 6.000
2. Specific Gravity 60/60 F. 1.193
3. CACO3 Saturation Index @ 80F
- @140F

1.387 **Severe**
3.227 **Severe**

Dissolved Gasses

- | | MG/L. | EQ. WT. | *MEQ/L |
|---------------------|----------------|---------|--------|
| 4. Hydrogen Sulfide | 0 | | |
| 5. Carbon Dioxide | 150 | | |
| 6. Dissolved Oxygen | Not Determined | | |

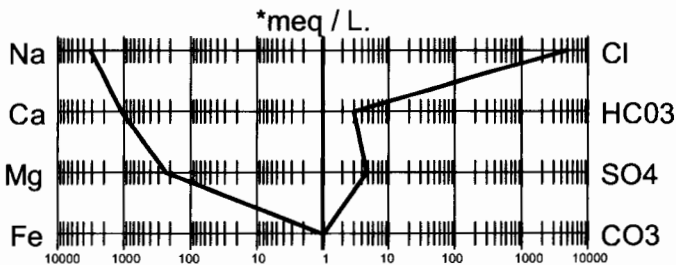
Cations

- | | | | | |
|--------------|--------------------|----------|----------|----------|
| 7. Calcium | (Ca++) | 21,094 | / 20.1 = | 1,049.45 |
| 8. Magnesium | (Mg++) | 2,725 | / 12.2 = | 223.36 |
| 9. Sodium | (Na+) (Calculated) | 71,307 | / 23.0 = | 3,100.30 |
| 10. Barium | (Ba++) | Below 10 | | |

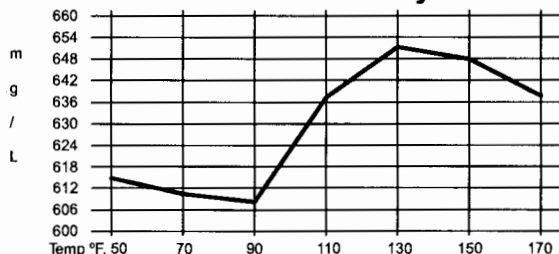
Anions

- | | | | | |
|--------------------------------------|---------|--------------------|----------|----------|
| 11. Hydroxyl | (OH-) | 0 | / 17.0 = | 0.00 |
| 12. Carbonate | (CO3=) | 0 | / 30.0 = | 0.00 |
| 13. Bicarbonate | (HCO3-) | 174 | / 61.1 = | 2.85 |
| 14. Sulfate | (SO4=) | 220 | / 48.8 = | 4.51 |
| 15. Chloride | (Cl-) | 154,965 | / 35.5 = | 4,365.21 |
| 16. Total Dissolved Solids | | 250,485 | | |
| 17. Total Iron | (Fe) | 8.00 | / 18.2 = | 0.44 |
| 18. Manganese | (Mn++) | Not Determined | | |
| 19. Total Hardness as CaCO3 | | 63,897 | | |
| 20. Resistivity @ 75 F. (Calculated) | | 0.001 Ohm · meters | | |

LOGARITHMIC WATER PATTERN



Calcium Sulfate Solubility Profile



PROBABLE MINERAL COMPOSITION

COMPOUND	*meq/L	X	EQ. WT. =	mg/L.
Ca(HCO3)2	2.85		81.04	231
CaSO4	4.51		68.07	307
CaCl2	1,042.10		55.50	57,836
Mg(HCO3)2	0.00		73.17	0
MgSO4	0.00		60.19	0
MgCl2	223.36		47.62	10,636
NaHCO3	0.00		84.00	0
NaSO4	0.00		71.03	0
NaCl	3,099.75		58.46	181,212

* milliequivalents per Liter

Tony Abernathy, Analyst

*Representative Delaware Produced
And Receiving Formation Water*

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

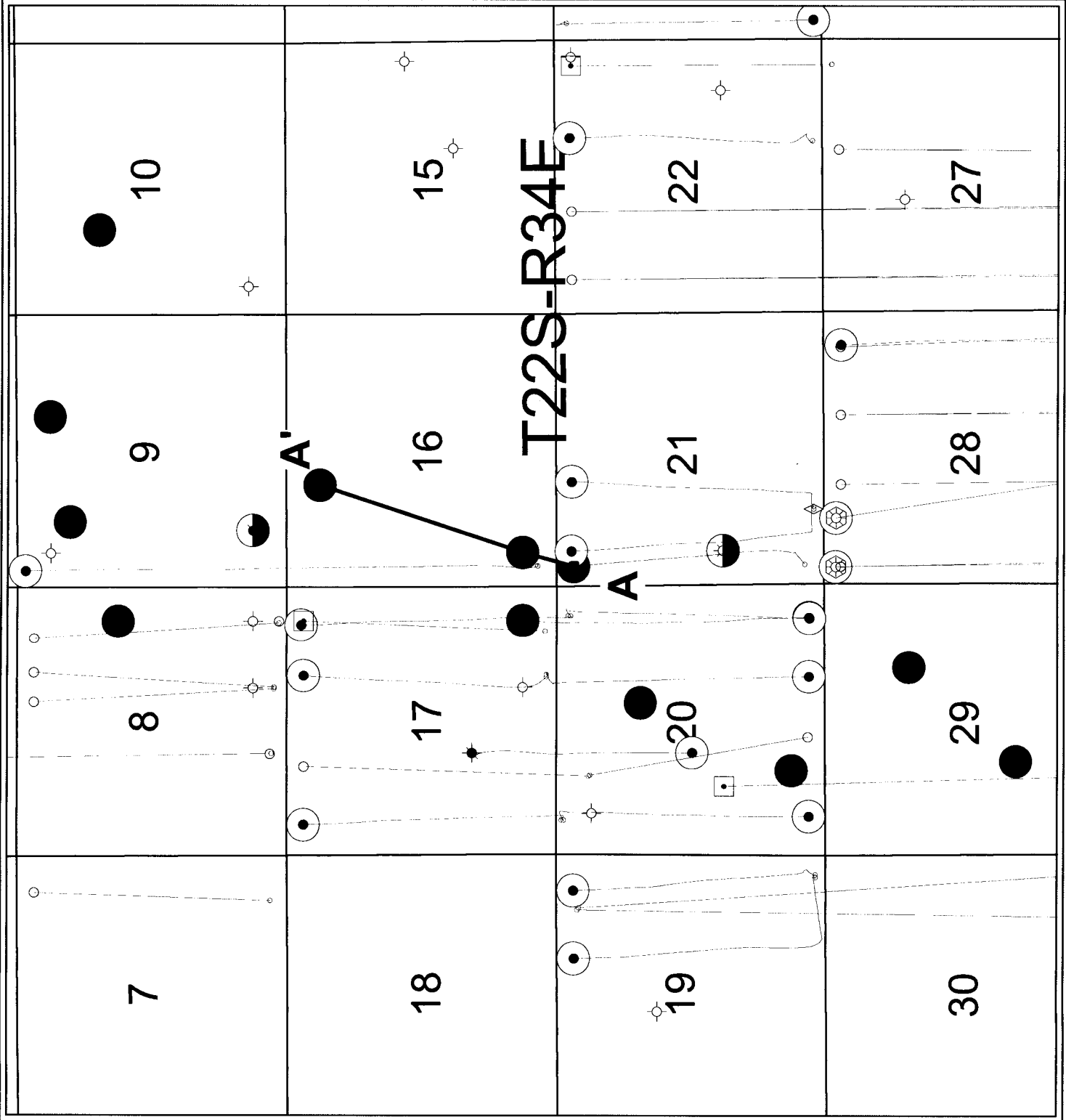
Data obtained from <http://octance.nmt.edu>

BTA Oil Producers, LLC
Application for Authorization to Inject
8006 JV-P Ridge SWD #1
1980' FSL & 1980' FEL
Section 14, T23S, R34E
Lea County, New Mexico

Attachment to C-108

Items X - XII

- X Well logs were filed with the original completion.
- XI No water wells are located in the 2-mile area surrounding the 8817 JV-P Grama C #1.
- XII There is no geological evidence of open faults nor other hydrologic connection between the disposal zone and any underground drinking water sources.



 BTA OIL PRODUCERS, LLC
8817 JV-P Grama C #1
Producing Formation Map 660FSL & 660FWL, S16-T22S-R34E Lea County, New Mexico
ATTRIBUTE MAP Producing Formation Contains "DELAWARE" Producing Formation Contains "BONESPRING" Producing Formation Contains "MORROW"
WELL SYMBOLS Proposed Location Permitted Location Drilling Well Drilled, Waiting on Completion Completing/Completed Oil Well Gas Well Dry Hole Plugged & Abandoned Oil Well Plugged & Abandoned Gas Well Storage Pilot Hole
REMARKS Top of Delaware Stratigraphic Cross Section Shown On Map
By: JHB
0 2,563 5,126 FEET

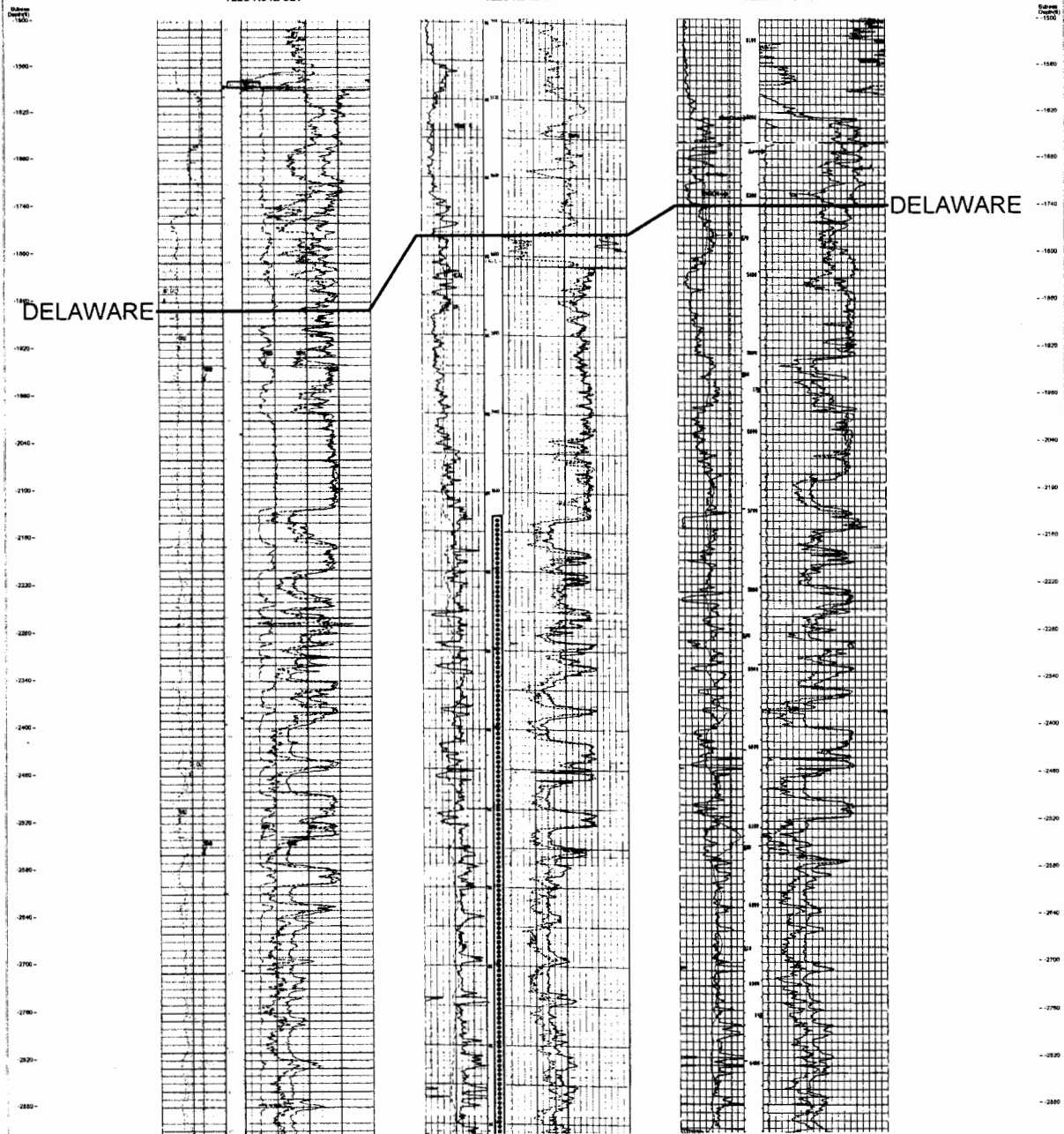
A

DEVON
GAUCHO 21 FEDERAL
21
T22S R34E S21

★
BTA
8617 JV-P GRAMA 'C'
1
T22S R34E S16

☀
BTA
GRAMA 8617 JV-P COM
1
T22S R34E S16

A'



BTA Oil Producers, LLC
Application for Authorization to Inject
8817 JV-P Grama -C- #1
30-025-34628
660' FSL & 660' FWL
Section 16, T22S, R34E
Lea County, New Mexico

Attachment to C-108

VIII Geologic Data

8817 JV-P Grama -C- #1 Geological Discussion Regarding Proposed Disposal Interval

A. Disposal Zone

Injection will be into the Bell Canyon and upper Cherry Canyon members of the Delaware Mountain Group.

The Delaware Mountain Group has a total thickness in excess of 4,000 feet within this locality. It is comprised of alternating units of siltstone, sandstone, and limestone with minor units of shale. The proposed injection intervals in the Bell Canyon and upper Cherry Canyon members exhibit very good porosity as observed on electric logs. These sandstones have made productive oil and gas reservoirs regionally when the formations are associated with structural closures. At the proposed location, however, no closure has been observed. Additionally, electric logs indicate the formation is brine saturated and no shows were observed on the mudlog.

The Delaware Mountain Group was deposited within a deep marine basin. The cleaner sandstone units represent submarine channel/fan sequences deposited down dip of the shelf margin under turbiditic conditions triggered by tectonic activity, gravity slumping or sea level changes. The siltstone, limestone and/or shale units represent the normal deposition that occurs within a marine basin between the catastrophic interruptions of turbiditic events.

B. Fresh Water Sources:

Fresh water is present in Triassic aged reservoirs to a depth of 600 feet.



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

Basin/County Search:

Basin: Carlsbad

County: Lea

Subbasin: Carlsbad

PLSS Search:

Section(s): 1-25

Township: 22N

Range: 34E

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.

4/25/17 9:44 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Attachment to C-108



New Mexico Office of the State Engineer
Active & Inactive Points of Diversion
(with Ownership Information)

No PODs found.

POD Search:

POD Basin: Carlsbad

Basin/County Search:

Basin: Carlsbad

County: Lea

PLSS Search:

Section(s): 1-25

Township: 22N

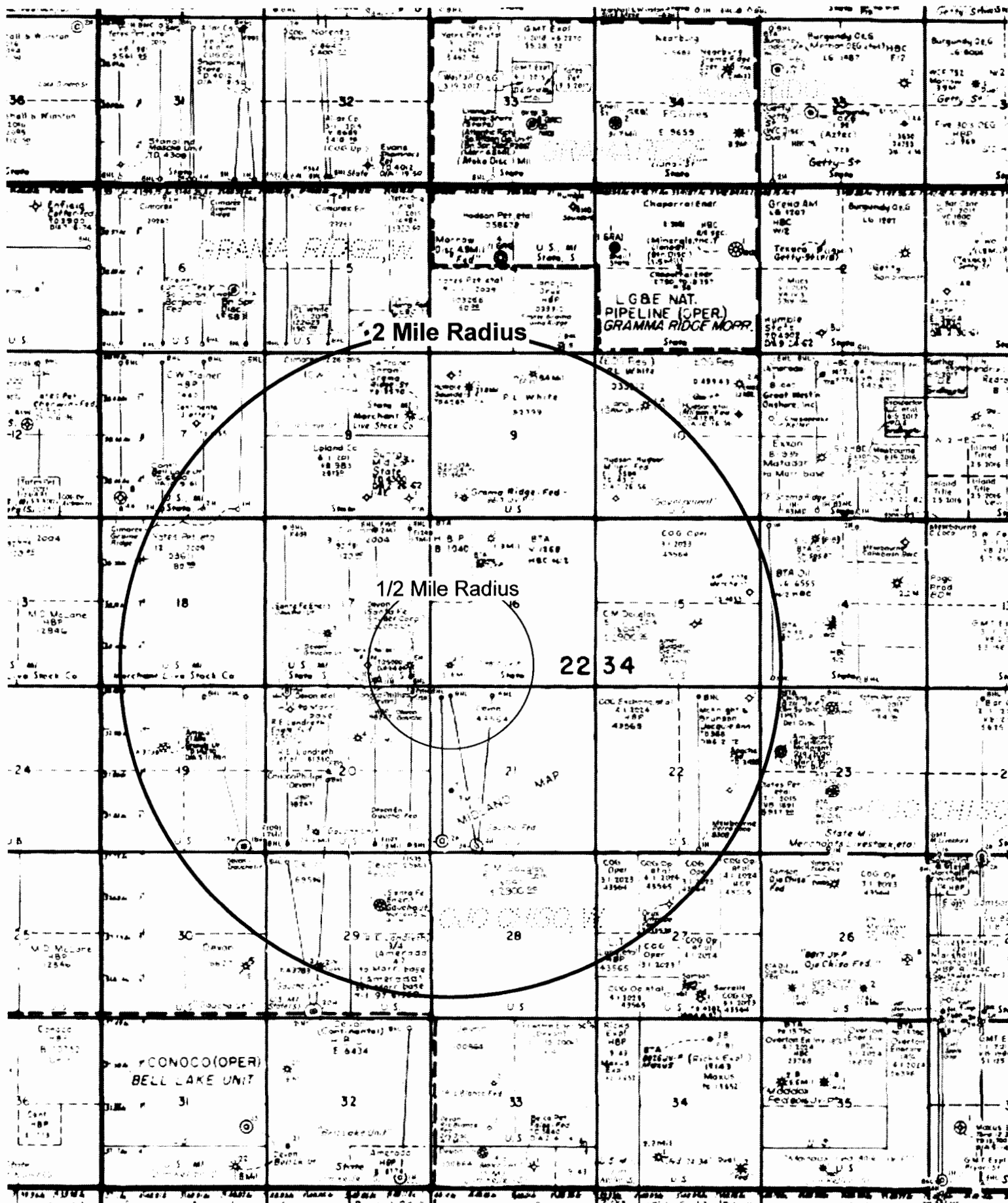
Range: 34E

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.

4/25/17 9:46 AM

ACTIVE & INACTIVE POINTS OF DIVERSION

Attachment to C-108



BTA Oil Producers, LLC - 8817 JV-P Grama C #1
Wells within 1/2 mile and 2 mile radius

BTA Oil Producers LLC
Application for Authorization to Inject
8817 JV-P Grama -C- #1
30-025-34628
660' FSL & 660' FWL
Section 16, T22S, R34E
Lea County, New Mexico

XIII Notice of Offset Operators Within ½ Mile

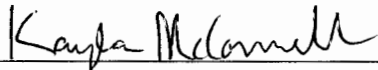
Surface Owner

New Mexico State Land Office
310 Old Santa Fe Trail
Santa Fe, NM 87504

Offset Operator list

Devon Energy Production Co
P. O. Box 250
Artesia, NM 88211

In addition, I hereby certify that notification of BTA's application was mailed via certified mail to the above named parties on the 25th day of April, 2017.


Kayla McConnell

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

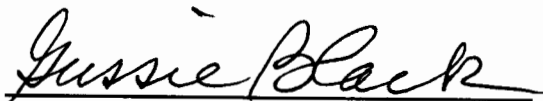
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
April 06, 2017
and ending with the issue dated
April 06, 2017.



Publisher

Sworn and subscribed to before me this
6th day of April 2017.

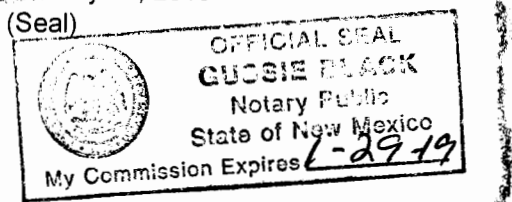


Business Manager

My commission expires

January 29, 2019

(Seal)



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGALS

LEGAL NOTICE April 6, 2017

BTA OIL PRODUCERS LLC, 104 S Pecos, Midland, Texas 79701, will file form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the 8817 JV-P Grama - C- #1 is located 660' FSL & 660' FWL, Section 16, T22S, R34E, Lea County, NM. Disposal water will be sourced from area wells producing from the Bone Spring and Delaware formation. The disposal water will be injected into the Delaware formation at a depth of 5630'-6840', at a maximum surface pressure of 1125 psi, and an average rate of 5000 BWPD.

All interested parties opposing the action must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, NM 87505, within 15 days. Additional information can be obtained by contacting Trace Wohlfahrt, Production Engineer, at 104 S Pecos, Midland, TX 79701, or (432) 682-3753.
#31697

01101299

00191345

PAM INSKEEP
BTA OIL PRODUCERS
104 SOUTH PECOS
MIDLAND, TX 79701

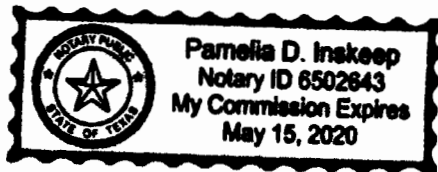
BTA Oil Producers LLC
Application for Authorization to Inject
8817 JV-P Grama -C- #1
30-025-34628
660' FSL & 660' FWL
Section 16, T22S, R34E
Lea County, New Mexico

STATE OF TEXAS

COUNTY OF MIDLAND

BEFORE ME, the undersigned authority on this day personally appeared Kayla McConnell, a Regulatory Analyst with BTA Oil Producers LLC, who being by me duly sworn, deposes and states that the persons listed on the foregoing attached list have been sent a copy on April 25, 2017 of the New Mexico Oil Conservation Division Form C-108 "Application for Authorization to Inject" for the 8817 JV-P Grama C #1, located in Section 16, T22S, R34E, Lea County, New Mexico.

SUBSCRIBED AND SWORN TO before me on this 25th day of April, 2017, to certify which witness my hand and seal of office.



Pamela D. Inskeep
Pam Inskeep
Notary Public, State of Texas