

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ Yes ☒ No

II. OPERATOR: PECOS PRODUCTION COMPANY
ADDRESS: 400 W. ILLINOIS, SUITE 1070, Midland, TX 79701
CONTACT PARTY: William R. Huck PHONE: 432-620-8480

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. SEE ATTACHMENT III

IV. Is this an expansion of an existing project? ☐ Yes ☒ 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. SEE ATTACHMENT V

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. SEE ATTACHMENT VI

VII. Attach data on the proposed operation, including: SEE ATTACHMENT VII

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

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

IX. Describe the proposed stimulation program, if any. SEE ATTACHMENT VII

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

*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. SEE ATTACHMENT VII

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. (See Attachment's)

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: William R. Huck TITLE: VP- Engr & Operations
SIGNATURE: [Signature] DATE: 11-4-04
E-MAIL ADDRESS: billh@pecosproduction.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:

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

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

(Attachment III)

OPERATOR: PECOS PRODUCTION COMPANYWELL NAME & NUMBER: STATE 2 NO. 1WELL LOCATION: 1855' FNL & 660' FWL
FOOTAGE LOCATIONUNIT LETTER E SECTION 2 TOWNSHIP 19S RANGE 30EWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

(SEE ATTACHED)

Hole Size: 17 1/2" Casing Size: 13 3/8"Cemented with: 700 sx. or ft³Top of Cement: SURF Method Determined: CIRCIntermediate CasingHole Size: 11" Casing Size: 8 5/8"Cemented with: 1650 sx. or ft³Top of Cement: SURF Method Determined: CIRCProduction CasingHole Size: 7 7/8" Casing Size: 5 1/2"Cemented with: 900 sx. or ft³Top of Cement: 5706' Method Determined: CBLTotal Depth: 12184'Injection Interval PERF - 2980' feet to 3120'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" J-55 IPC Lining Material: _____

Type of Packer: AD-1 NIDAL COATED _____

Packer Setting Depth: 2930' _____

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

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

2. Name of the Injection Formation: QUEEN

3. Name of Field or Pool (if applicable): SHUGART POOL

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

BONE SPRING F/6986'-6994' & 8886'-8900' - SET 5 1/2" CIBP AT 5919' & 6950'

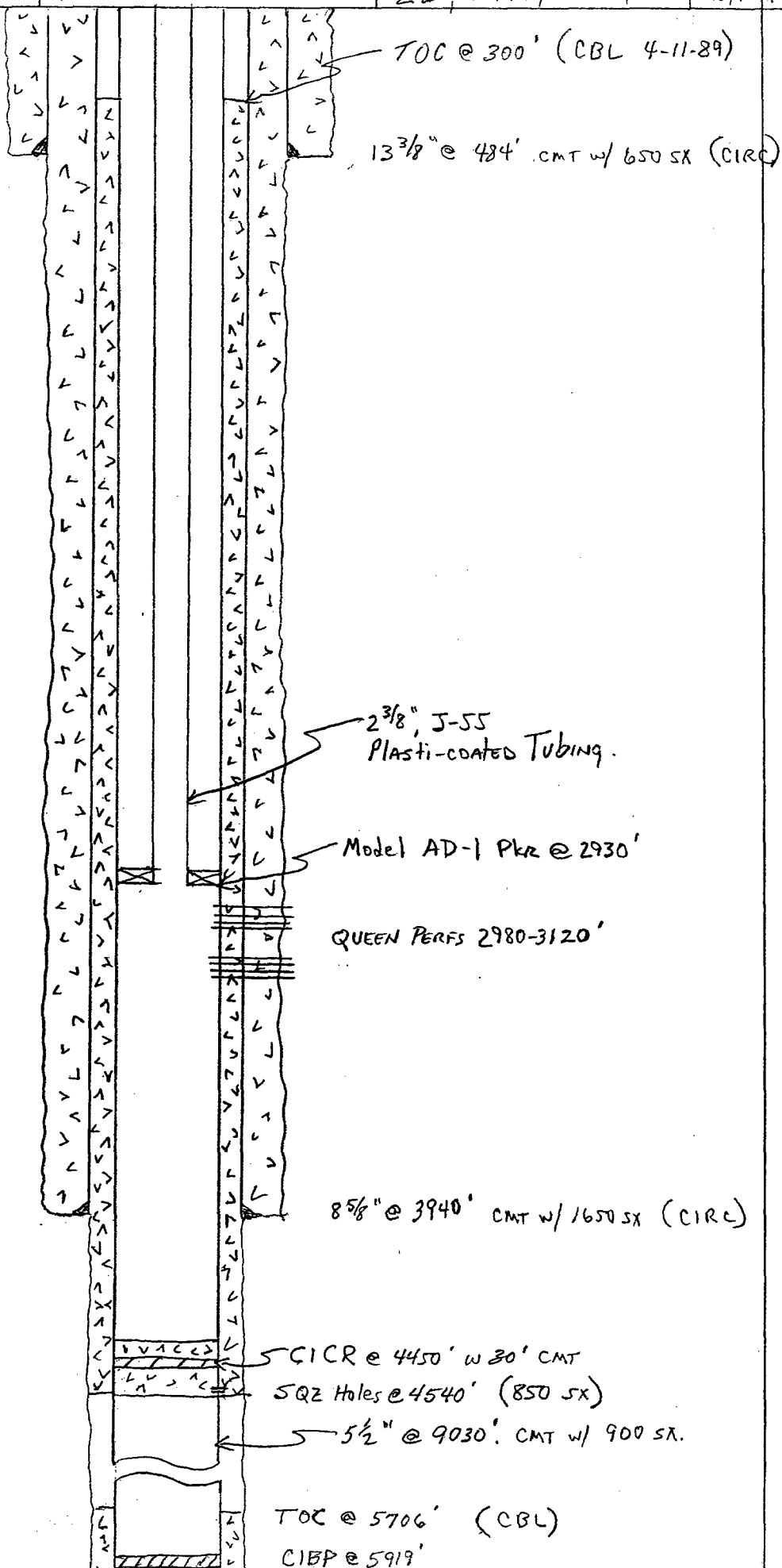
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: UNDERLYING - BONE SPRING

PECOS PRODUCTION Co

API 30-015-25001

LOC:
2E, T-19S, R-30E, Eddy Co, NM

STATE Z No. 1
Proposed Injection
Schematic.



INJECTION WELL DATA SHEET

(Attachment III)

OPERATOR: PECOS PRODUCTION COMPANYWELL NAME & NUMBER: STATE 2 NO. 5WELL LOCATION: 660' FSL & 330' FWL M 2 19S 30E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATA
Surface Casing

(SEE ATTACHED)

Hole Size: 17 1/2" Casing Size: 13 3/8"
Cemented with: 1100 sx. or ft³
Top of Cement: SURF Method Determined: CIRCIntermediate CasingHole Size: 12 1/4" Casing Size: 8 5/8"
Cemented with: 800 sx. or ft³
Top of Cement: SURF Method Determined: CIRCProduction CasingHole Size: 7 7/8" Casing Size: 5 1/2"
Cemented with: 550 sx. or ft³
Top of Cement: SURF Method Determined: CIRC
Total Depth: 3200'Injection Interval PERF - 2899' feet to 2929'

(Perforated or Open Hole; indicate which)

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

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

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

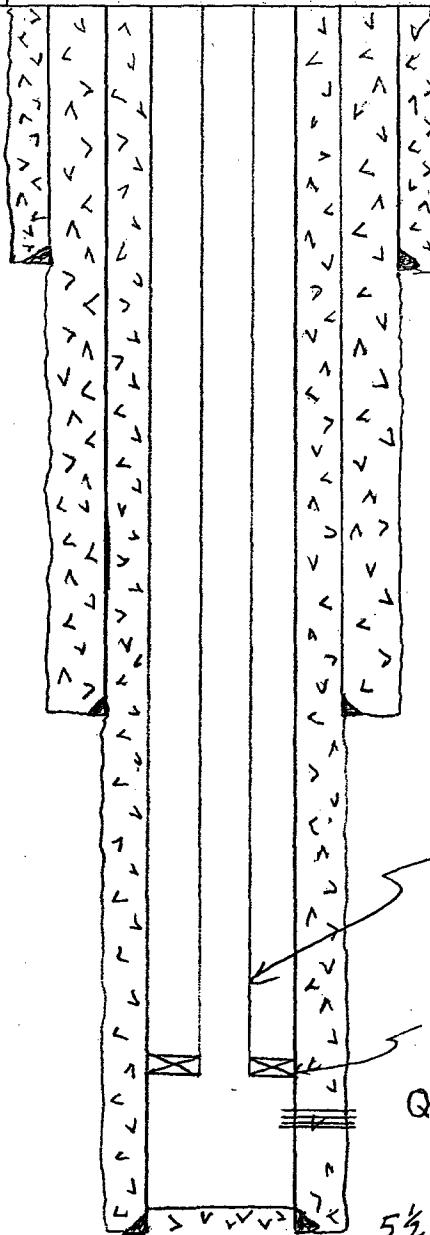
2. Name of the Injection Formation: QUEEN
3. Name of Field or Pool (if applicable): SHUGART POOL
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. NONE
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: NONE

PECOS PRODUCTION Co.

API 30-015-26463

Loc: 2M, T-195, R-30E, Eddy Co.

State 2 No. 5
Proposed Injection
Schematic



13 3/8" @ 685' CMT w/ 1110 SX (CIRC)

8 5/8" @ 1855' CMT w/ 800 SX (CIRC)

2 3/8" J-55, IPC tubing

Model AD-1 PKR @ 2850'

QUEEN PERFS 2899-2929'

5 1/2" @ 3200' CMT w/ 550 SX (CIRC)

INJECTION WELL DATA SHEET

(Attachment III)

OPERATOR: PECOS PRODUCTION COMPANY

WELL NAME & NUMBER: STATE 2 NO. 7

WELL LOCATION: 1980' FSL & 1650' FWL K UNIT LETTER SECTION 2 TOWNSHIP 19S RANGE 30E
FOOTAGE LOCATIONWELLBORE SCHEMATIC

(SEE ATTACHED)

WELL CONSTRUCTION DATASurface Casing

Hole Size: 17 1/2" Casing Size: 13 3/8"
Cemented with: 714 sx. or ft³
Top of Cement: SURF Method Determined: CIRC

Intermediate Casing

Hole Size: 12 1/4" Casing Size: 8 5/8"
Cemented with: 800 sx. or ft³
Top of Cement: SURF Method Determined: CIRC

Production Casing

Hole Size: 7 7/8" Casing Size: 5 1/2"
Cemented with: 550 sx. or ft³
Top of Cement: SURF Method Determined: CIRC

Total Depth: 3133'Injection Interval PERF - 2978' feet to 3023'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" J55 IPC Lining Material: _____
 Type of Packer: AD-1 NIDAL COATED
 Packer Setting Depth: 2910'
 Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? Yes ☒ No ☐
 If no, for what purpose was the well originally drilled? OIL

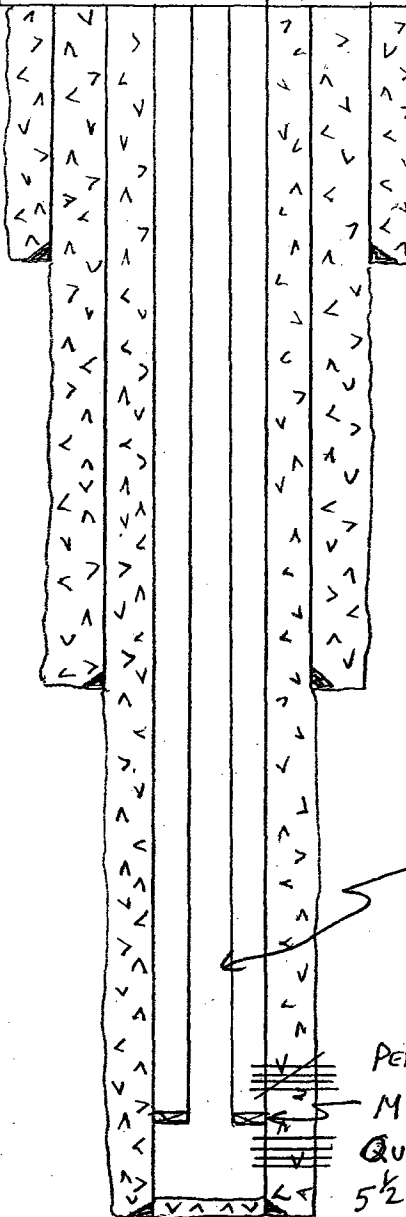
2. Name of the Injection Formation: QUEEN
3. Name of Field or Pool (if applicable): SHUGART POOL
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. NONE
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: NONE

PECOS PRODUCTION

STATE 2 No 7 RE-ENTRY
Proposed Injection
Schematic.

API 30-015-26522

LOC: 2K, T-195, R-30E, Eddy Co, NM



13 3/8" @ 654' CMT w/ 714 SX (CIRC)

8 5/8" @ 1772' CMT w/ 800 SX (CIRC)

2 3/8" J-55, IAC tubing

PERFS 2772-2821' (SQZD w/ 220 SX)

Model AD-1 Pka @ 2910'

QUEEN PERFS 2978-3023'

5 1/2" @ 3133' CMT w/ 550 SX (CIRC)

INJECTION WELL DATA SHEET

(Attachment III)

OPERATOR: PECOS PRODUCTION COMPANYWELL NAME & NUMBER: BENSON 3 FEDERAL NO. 2WELL LOCATION: 330' FNL & 480' FEL A 3 19S 30E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGEWELLBORE SCHEMATIC

(SEE ATTACHED)

WELL CONSTRUCTION DATASurface CasingHole Size: 12 1/4" Casing Size: 8 5/8"
Cemented with: 345 sx. or ft³
Top of Cement: SURF Method Determined: CIRCIntermediate CasingHole Size: NONE Casing Size: NONE
Cemented with: sx. or ft³
Top of Cement: Method Determined: Production CasingHole Size: 7 7/8" Casing Size: 5 1/2"
Cemented with: 840 sx. or ft³
Top of Cement: SURF Method Determined: CIRC
Total Depth: 3300'Injection Interval PERF - 2914' feet to 3056'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" J-55 IPC Lining Material: _____
Type of Packer: AD-1 NIDAL COATED
Packer Setting Depth: 2850'
Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? Yes ☐ No ☒
If no, for what purpose was the well originally drilled? OIL

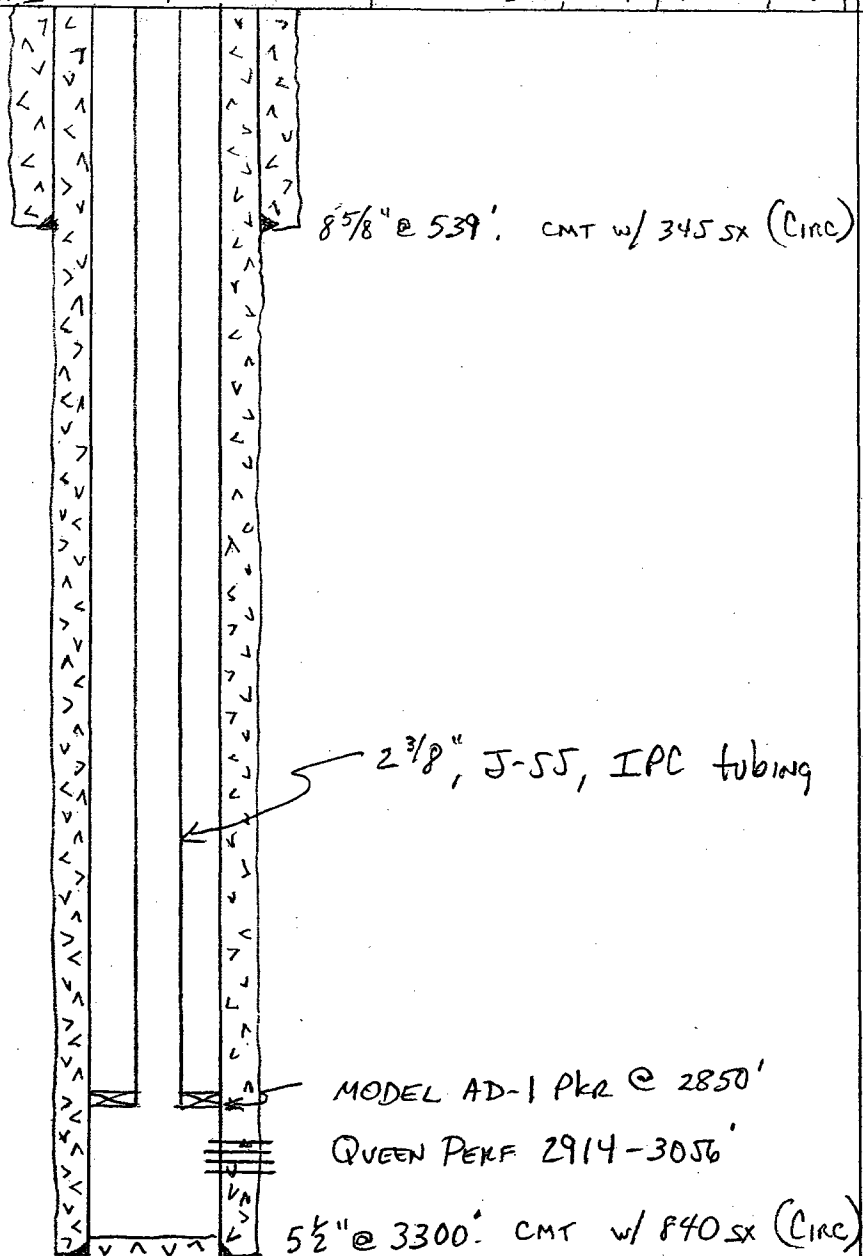
2. Name of the Injection Formation: QUEEN
3. Name of Field or Pool (if applicable): SHUGART POOL
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. NONE

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: NONE

PECOS PRODUCTION
BENSON 3 FEDERAL #2
PROPOSED INJECTION
SCHEMATIC

API 30-015-26260

LOC: 3A, T-19S, R-30E, Eddy Co, NM.



INJECTION WELL DATA SHEET (Attachment III)

OPERATOR: PECOS PRODUCTION COMPANYWELL NAME & NUMBER: BENSON 3 FEDERAL NO. 6WELL LOCATION: 2310' FSL & 330' FEL I 3 19S 30E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

(SEE ATTACHED)

Hole Size: 12 1/4" Casing Size: 8 5/8"
Cemented with: 500 sx. or ft³
Top of Cement: SURF Method Determined: CIRCIntermediate CasingHole Size: NONE Casing Size: NONE
Cemented with: sx. or ft³
Top of Cement: Method Determined: Production CasingHole Size: 7 7/8" Casing Size: 5 1/2"
Cemented with: 960 sx. or ft³
Top of Cement: 60' Method Determined: CBL
Total Depth: 3500'Injection Interval PERF - 2938' feet to 3063'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" J-55 IPC Lining Material: _____

Type of Packer: AD-1 NIDAL COATED _____

Packer Setting Depth: 2870' _____

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

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 _____

2. Name of the Injection Formation: QUEEN _____

3. Name of Field or Pool (if applicable): SHUGART POOL _____

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. NONE _____

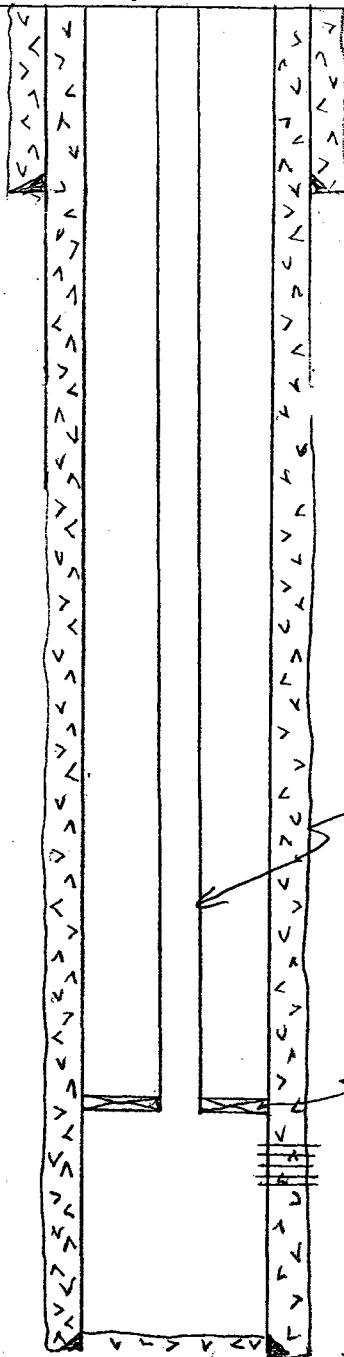
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: NONE _____

PECOS PRODUCTION Co

API: 30-015-26565

LOC: 3T, T-19S, R-30E, Eddy Co, NM

BENSON 3 Fd #6
Proposed Injection
Schematic.



8 5/8" @ 485' cmt w/ 500SX (CIRC)

2 3/8" J-55, IPC tubing.

Model AD-1 Pkr @ 2870'

QUEEN PERF 2938-3063'

5 1/2" @ 3500' cmt w/ 960SX (TOC-60')
CBL

Well Name	Well No.	API	ULSTR	Operator	Type	Total Depth	Surface Size	Surface Depth	TOC	Intermediate Size	Intermediate Depth	Production Size	Production Depth	Perforated Interval	Date Drilled	Date Completed
STATE 2	3	30-015-26155	2 19S 30E NW NW	PECOS PRODUCTION COMPANY	O	0	8 5/8	597	SURF	-	-	5 1/2	3300	SURF 2866-3093	10/1/1989	9/25/1989
STATE 2	2	30-015-25804	2 19S 30E NE NW	PECOS PRODUCTION COMPANY	O	3860	8 5/8	636	SURF	-	-	5 1/2	3860	SURF 3144-3456	10/1/1987	10/22/1987
STATE 2	1	30-015-25001	2E 19S 30E SW NW	PECOS PRODUCTION COMPANY	O	12184	13 3/8	484	SURF	8 5/8	3940	5 1/2	9030	5706 2880-3020 & 3100-3120	5/1/1989	4/22/1989
STATE 2	4	30-015-26332	2L 19S 30E NW SW	PECOS PRODUCTION COMPANY	O	3200	13 3/8	700	SURF	8 5/8	2025	5 1/2	3200	SURF 2928-3063	8/1/1990	6/7/1990
STATE 2	5	30-015-26463	2M 19S 30E SW SW	PECOS PRODUCTION COMPANY	O	3200	13 3/8	685	SURF	8 5/8	1855	5 1/2	3200	SURF 2869-2929	10/1/1990	9/28/1990
STATE 2	6	30-015-26521	2K 19S 30E SE SW	PECOS PRODUCTION COMPANY	O	3200	13 3/8	667	SURF	8 5/8	1830	5 1/2	3200	SURF 2821-2958	12/1/1990	12/15/1990
STATE 2	7	30-015-26522	2K 19S 30E SE SW	PECOS PRODUCTION COMPANY	P&A	3133	13 3/8	654	SURF	8 5/8	1772	5 1/2	3133	SURF 2772-3023	9/18/2003	10/21/2003
STATE 2	8	30-015-26862	2N 19S 30E C SE SW	PECOS PRODUCTION COMPANY	G	12234	13 3/8	673	SURF	8 5/8	3228	5 1/2	12234	4820 11964-11978	10/12/2003	10/21/2003
STATE 2	1	30-015-04588	2L 19S 30E C SE SW	WESTWATER CORPORATION	P&A	3485	8 5/8	766	SURF	-	-	-	-	-	4/9/2000	-
STATE 2	2	30-015-26260	3 19S 30E NE NE	PECOS PRODUCTION COMPANY	O	3300	8 5/8	539	SURF	-	-	5 1/2	3300	SURF 3050-56 & 2914-83	4/9/1990	4/9/1990
BENSON 3 FEDERAL	1	30-015-25718	3 19S 30E NW NE	GRUT PETROLEUM MANAGEMENT COMPANY	G	11250	13 3/8	405	SURF	8 5/8	1995	5 1/2	11250	9000 10886-902	1/24/1987	1/24/1987
BENSON DEEP AAZ FEDERAL	4	30-015-24775	3F 19S 30E	YATES PETROLEUM CORPORATION	G	12116	13 3/8	350	SURF	9 5/8	1900	4 1/2	12116	NA 8053-8066	1/1/1994	1/15/1993
BENSON 3 FEDERAL	3	30-015-26276	3H 19S 30E SE NE	PECOS PRODUCTION COMPANY	O	3250	8 5/8	531	SURF	-	-	5 1/2	3248	SURF 2858-91 & 3080-86	5/1/1990	3/30/1990
BENSON 3 FEDERAL	5	30-015-26597	3G 19S 30E	GRUT PETROLEUM MANAGEMENT COMPANY	P&A	3300	8 5/8	514	SURF	-	-	-	-	-	2/5/1991	-
BENSON 3 FEDERAL	6	30-015-26565	3I 19S 30E NE SE	PECOS PRODUCTION COMPANY	O	3300	8 5/8	985	SURF	-	-	5 1/2	3500	60' 3018-3063 & 2938-2962	4/1/1991	2/18/1991
BENSON 3 FEDERAL	7	30-015-26653	3P 19S 30E	GRUT PETROLEUM MANAGEMENT COMPANY	P&A	3300	8 5/8	510	SURF	-	-	-	-	-	5/7/1991	-
MABEL HALE FEDERAL	3	30-015-24375	11B 19S 30E NW NE	GREAT WESTERN DRILLING COMPANY	P&A	8940	8 5/8	524	SURF	-	-	5 1/2	3088	1300 2590-3156	12/1/1984	11/25/1984
MABEL HALE FEDERAL	2	30-015-24082	11C 19S 30E	GREAT WESTERN DRILLING COMPANY	P&A	8785	8 5/8	707	SURF	-	-	5 1/2	3410	SURF 2889-3156	5/1/1984	5/15/2004
MABEL HALE FEDERAL	4	30-015-26782	11D 19S 30E NW NW	GREAT WESTERN DRILLING COMPANY	P&A	3120	13 3/8	670	SURF	8 5/8	1866	5 1/2	3119	990 2888-3020	9/1/1991	10/9/1991
MABEL HALE FEDERAL	1	30-015-24338	11F 19S 30E SE NW	GREAT WESTERN DRILLING COMPANY	O	12111	13 3/8	378	SURF	8 5/8	3700	5 1/2	12115	5842 8435-8591	9/1/1993	8/16/1993
MABEL HALE FEDERAL	7	30-015-26785	11F 19S 30E SE NW	GREAT WESTERN DRILLING COMPANY	P&A	3160	13 3/8	708	SURF	8 5/8	1900	4 1/2	3160	1120 2825-2955	12/14/1991	10/72/2003
BENSON 34 FEDERAL	1	30-015-25771	34J 19S 30E NW SE	ASPEN OIL INCORPORATED	G	17000	13 3/8	415	SURF	8 5/8	2010	5 1/2	17000	SURF 10696-910	9/1/1997	6/25/1997
GATES FEDERAL	6	30-015-26598	34P 19S 30E SE SE	WESTALL RAY	O	3458	8 5/8	573	SURF	-	-	5 1/2	3458	SURF 2888-3017	4/1/1991	4/4/1991
OXY MISTY FEDERAL	2	30-015-32828	35K 19S 30E	OXY USA	G	12105	13 3/8	680	SURF	9 5/8	4535	5 1/2	12105	5811 11706-11862	9/12/2003	9/18/2003
TRIGG FEDERAL	6	30-015-25755	35K 19S 30E	WESTALL RAY	O	4529	13 3/8	540	SURF	8 5/8	1674	5 1/2	3500	NA 3033-3053	10/1/1987	9/10/1991
TRIGG FEDERAL	9	30-015-26268	35L 19S 30E NW SW	WESTALL RAY	O	4529	13 3/8	510	SURF	8 5/8	1675	5 1/2	4529	SURF 2886-2906 & 2196-2288	11/1/1991	1/19/1991
TRIGG FEDERAL	7	30-015-26888	35M 19S 30E SW SW	WESTALL RAY	O	4540	13 3/8	560	SURF	8 5/8	1785	5 1/2	4536	SURF 3030-3333	9/1/1988	7/19/1988
TRIGG FEDERAL	8	30-015-26287	35M 19S 30E SW SW	WESTALL RAY	O	4500	13 3/8	573	SURF	8 5/8	1743	5 1/2	4500	SURF 2914-3049	2/1/1990	2/8/1990
TRIGG FEDERAL	4	30-015-25719	35N 19S 30E SE SW	WESTALL RAY	SWD	3800	13 3/8	460	SURF	8 5/8	1745	5 1/2	3800	SURF 3584-3604	3/1/1987	2/16/2001
TRIGG FEDERAL	5	30-015-25807	35N 19S 30E SE SW	WESTALL RAY	O	3612	13 3/8	563	SURF	8 5/8	1710	5 1/2	3598	SURF 3056-3076	2/1/1988	1/23/1988
TRIGG FEDERAL	10	30-015-26578	35N 19S 30E SE SW	WESTALL RAY	O	3550	8 5/8	595	SURF	-	-	5 1/2	3550	SURF 3007-3141	10/1/1960	10/9/1960

WELL NAME: HALE FED NO. 3
LOCATION: 1980' FNL & 990' FWL
UNIT E, SEC 1, T19S, R30E
EDDY CO., NEW MEXICO

Current Status: P&A (11/95)

API #: 30-015-24375

10" Hole
8 5/8" 24# @ 524'
Cmt Circ

Perf 5 1/2" @ 60'
Circ cmt to surf between 5 1/2" & 8 5/8"
Leaving 5 1/2" full

Perf 5 1/2" @ 675'
Sqz 60 sx
Tag @ 453'

Perf 5 1/2" @ 2002'
Spot 25 sx plug @ 2054'
Tag @ 1874'

Set 5 1/2" CIBP @ 2550'
Cap w/35' cmt
Load hole w/mud

Set 5 1/2" CIBP @ 3075'
Cap w/35' cmt

Seven Rivers Perfs 2590'-2600'

7 7/8" Hole
5 1/2" 15.5# @ 3088'
425 sx - TOC 1300'

Queen Perfs 3090-3150'

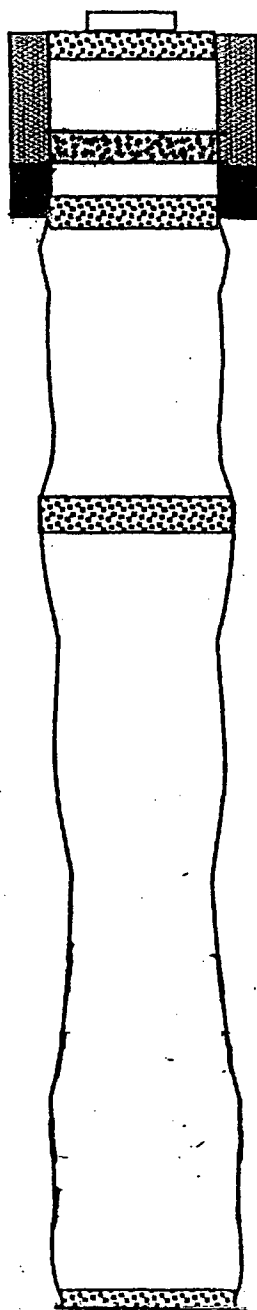
T.D. 3150'

WELL NAME: STATE 2 NO. 1-2
LOCATION: 1980' FSL & 660' FEL
UNIT I, SEC 2, T19S, R30E
EDDY CO., NEW MEXICO

Current Status: P&A (5/60)

API #: 30-015-04588

12" Hole
8 5/8" 24# @ 765'
50 sx - Cmt Circ



SET 5 SX CMT PLUG @ TOP HOLE
W/4' MARKER

SET 10 SX CMT PLUG @ TOP
OF 8 5/8" CSG (580')

SET 10 SX CMT PLUG @ BASE
OF 8 5/8" CSG (765')

PULLED 580' OF 8 5/8" CSG

SET 10 SX PLUG @ 1925'

INTERVALS BETWEEN PLUGS
FILLED W/HEAVY MUD

SET 25 SX CMT PLUG @ TD 3485'

TD 3485'

WELL NAME: STATE 2 NO. 7
LOCATION: 1980' FSL & 1650' FWL
UNIT K, SEC 2, T19S, R30E
EDDY CO., NEW MEXICO

Current Status: P&A (6/91)

API #: 30-015-26522

SET P&A MARKER

Cmt from 2949' to Surface w/350 sx

17 1/2" Hole
13 3/8" 48# J-55 @ 654'
714 sx - Cmt Circ

12 1/4" Hole
8 5/8" 24# J-55 @ 1772'
800 sx - Cmt Circ

Squeezed 7-Rvrs perms 2772-2821'

CIBP @ 2949' (Spot 350 sx)

7 7/8" Hole
5 1/2" 15.5# J-55 # 3133'
550 sx - Cmt Circ

Queen Perfs 2987-3023'

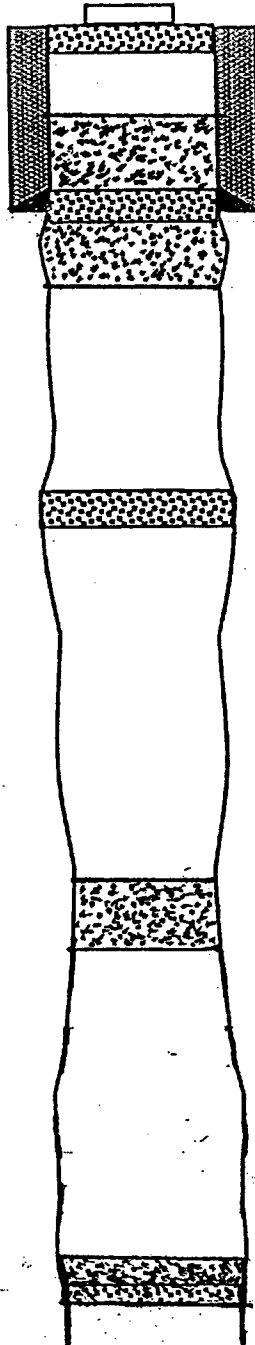
TD 3133'

WELL NAME: BENSON 3 FED NO. 5
LOCATION: 2310' FNL & 1650' FEL
UNIT G, SEC 3, T19S, R30E
EDDY CO., NEW MEXICO

Current Status: P&A (6/91)

API #: 30-015-26597

12 1/4" Hole
8 5/8" 28# @ 514'
310 sx - Cmt Circ



Plug No. 5 f/50'-Surf
w/15 sx cmt

Re-spot Plug No. 4 @ 589'
W/65 sx cmt
Tag @ 233'

Plug No. 4 f/741'-461'
w/100 sx cmt
Tag @ 589'

Plug No. 3 f/1827'-1727'
w/40 sx cmt

Plug No. 2 f/2330'-2230'
w/40 sx cmt

Plug No. 1 f/2988'-2888'
w/40 sx cmt

TD 3300'

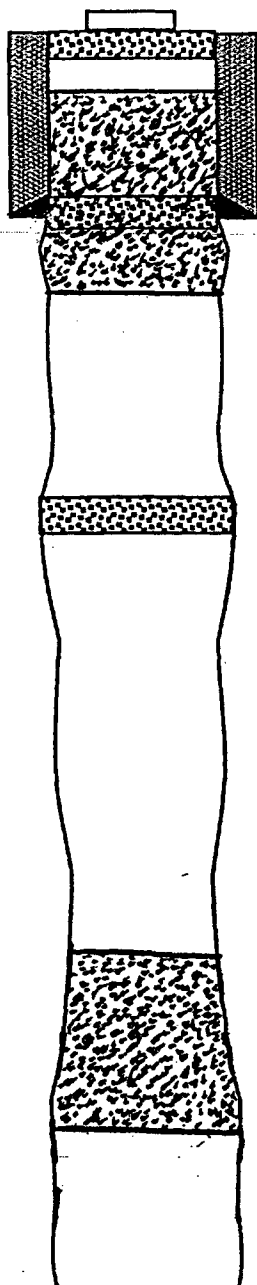
WELL NAME: BENSON 3 FED NO. 7
LOCATION: 1140' FSL & 330' FEL
UNIT P, SEC 3, T19S, R30E
EDDY CO., NEW MEXICO

Current Status: P&A (5/91)

API #: 30-015-26653

SET P&A MARKER

12 1/4" Hole
8 5/8" 28# @ 510'
450 sx - Cmt Circ



Set Plug @ 50'

Set Plug @ 720'
w/40 sx cmt
Tag @ 180'

Set Plug @ 1781'
w/60 sx cmt

Set Plug @ 2950'
w/40 sx cmt
Tag @ 2828'

TD 3300'

WELL NAME: HALE FED NO. 2
LOCATION: 2180' FNL & 2080' FWL
UNIT C, SEC 11, T19S, R30E
EDDY CO., NEW MEXICO

Current Status: P&A (11/95)

API #: 30-015-24082

SET P&A MARKER

12 1/2" Hole
8 5/8" 32# @ 707'
500 sx - Cmt Circ

Spot 38 sx cmt f/60' to Surf

Spot 40 sx cmt @ 761'

Seven Rivers Perfs 2889'-2937'

Queen Perfs 3090-3115'

Penrose Perfs 3324'-3196'

8" Hole
4 1/2" 10.5# @ 3410'
1900 sx - Cmt Circ

Set 4 1/2" CIBP @ 2500'
Cap w/25' cmt
Load hole w/mud

TD 3439'

WELL NAME: MABEL HALE FED NO. 4
LOCATION: 330' FNL & 860' FWL
UNIT D, SEC 11, T19S, R30E
EDDY CO., NEW MEXICO

Current Status: P&A (7/04)

API #: 30-015-26792

SET P&A MARKER

17 1/2" Hole
13 3/8" 48# @ 670'
720 sx - Cmt Circ

Perf @ 60'
Sqz 200 sx to Surf
Spot 20 sx 60' to surf on 13 3/8" csg

12 1/4" Hole
8 5/8" 23# @ 1866'
1455 sx - Cmt Circ

Perf @ 770'
Sqz 40 sx & Tag @ 770' - 619'

Spot 25 sx @ 1924' to 1684'

Spot 25 sx @ 2840' to 2600'

Queen Perfs 2888-2912'
3008'-3020'

7 7/8" Hole
5 1/2" 15.5# @ 3120'
400 sx - TOC 990'

TD 3,120'

WELL NAME: MABEL HALE FED NO. 7
LOCATION: 1650' FNL & 1750' FWL
UNIT F, SEC 11, T19S, R30E
EDDY CO., NEW MEXICO

Current Status: P&A (10/03)

API #: 30-015-26785

SET P&A MARKER

Spot 10 sx @ 60' to Surf

17 1/2" Hole
13 3/8" 48# @ 706'
710 sx - Cmt Circ

Sqz 35 sx & Tag @ 616'
Perf @ 756'

12 1/4" Hole
8 5/8" 24# @ 1900'
1070 sx - Cmt Circ

Spot 15 sx @ 1950' to 1775'

1 Tag CIBP @ 2875' spot 15 sx on top to 2650'

Queen Perfs 2925-2955'

7 7/8" Hole
4 1/2" 10.5# @ 3160'
355 sx - TOC 1120'

Set retainer @ 2990' &
Squeezed 500 sx 2 sq holes 3000'

TD @ 3,160

(FORM C-108) ATTACHMENT VII

- VII. 1. AVERAGE INJECTION DAILY RATE 1000 BWPD
MAXIMUM INJECTION DAILY RATE 2000 BWPD
2. CLOSED INJECTION SYSTEM
3. AVERAGE INJECTION PRESSURE 1000 PSI
MAXIMUM INJECTION PRESS 1500 PSI
4. SOURCE WATER - YATES-SEVEN RIVERS-QUEEN-GRAYBURG
DELAWARE
(ANALYSIS - SEE ATACHED)
-
- IX. PROPOSED STIMULATION PROGRAM - NONE.
- X. LOGS- HAVE BEEN SUBMITTED - ON FILE.
- XI. NO FRESH WATER FROM WATER WELL WITHIN A ONE MILE RADIUS .

ATTACHMENT VIII

Pecos Production Company plans to implement a waterflood project in the Shugart Queen Field by injecting produced water into the fine-grained sands that produce in the Queen Formation. The gross interval is typically about 150' thick and occurs at a measured depth of approximately 2900'-3050'. This interval consists of a productive upper sand that on average is about 80' thick, a middle nonproductive limestone member typically about 60' thick, and a lower producing sand that averages about 10' in thickness.

A check of records from the New Mexico Office of the State Engineer found that the nearest water well located about two miles north of the proposed project was drilled to a total depth of 240' and produces water for livestock watering most likely from Quaternary alluvium gravels.

No known freshwater drinking source underlies the injection interval.

11/09/2004 TUE 10:37 FAX 432 684 4277 ENDURA PRODUCTS CORP

001/005



FACSIMILE TRANSMITTAL SHEET

TO:	FROM:
Bill Huck/Tom Carrens	Kay Bartz
COMPANY:	DATE:
Pecos Production	11/9/04
FAX NUMBER:	FAX NUMBER:
683-1628	432-684-4277
PHONE NUMBER:	PHONE NUMBER:
	432-684-4233
RE:	TOTAL PAGES (INCLUDING COVER SHEET)
	5
☐ URGENT ☒ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY ☐ PLEASE RECYCLE	

NOTES/COMMENTS:

33% State 2, 33% Benson, 33% Munchkin (chi Operating) – Water Analysis
 Benson 3 Federal #6 – Water Analysis
 State 2 Tank Batter – Water Analysis
 Munchkin Federal #1 – Water Analysis

Any questions, please call. Thanks, k

excess
 Aaron, Minor Amounts of Iron in sweet water - should be
 no problem. Natural scaling tendency of Munchkin water
 is actually improved after mixing. Would still require
 pre-treatment w/ scale inhibitor

Bill

Endura Products Corporation

P.O. Box 3394, Midland, Texas 79702
 Phone (432) 684-4233 Fax (432) 684-4277

WATER ANALYSIS

Date 11/9/2004 Endura Rep Mitch Sawyer Code 101017413
 Sampling Point/Date Wellhead 11/5/2004 State
 Company Pecos Production Co. County
 Formation compatibility Lease 33% State 2, 33% Benson, 33% Well
 Munchkin (Chi Operating)

DISSOLVED SOLIDS

<u>CATIONS</u>	mg/l	me/l
Sodium, Na+ (Calc.)	39,330	1,710
Total Hardness as Ca++	13,635	0
Calcium Ca++	10,032	502
Magnesium, Mg++	2,197	183
Barium, Ba++	0	0
Iron (Total) Fe+++*	7	0

ANIONS

Chlorides, Cl-	83,655	2,356
Sulfate, SO4-	1,031	21
Carbonate, CO3-	0	0
Bicarbonates, HCO3-	796	13
Sulfide, S-*	84	5
Total Dissolved Solid	137,132	

OTHER PROPERTIES

pH*	6.790
Specific Gravity, 60/60 F.	1.078
Turbidity	396

SCALING INDICIES

<u>TEMP. F</u>	<u>CA CO3</u>	<u>CASO4*2H2O</u>	<u>CA SO4</u>	<u>BA SO4</u>
80	1.1684	-0.0447	-0.2792	-29.2759
120	1.5255	-0.0513	-0.1053	-29.4807
160	2.0775	-0.0679	0.0507	-29.7106

PERFORATIONS

11/09/2004 TUE 10:37 PAA 432 684 4277 ENDURA PRODUCTS CORP

0003/005

Endura Products Corporation

P.O. Box 3394, Midland, Texas 79702

Phone (432) 684-4233 Fax (432) 684-4277

WATER ANALYSIS

Date 11/9/2004 Endura Rep Mitch Sawyer

Code 101017401

Sampling Point/Date Wellhead 11/5/2004

State New Mexico

Company Pecos Production Co.

County Eddy

Formation

Lease Benson 3 Federal

Well #6

DISSOLVED SOLIDS**CATIONS**

	mg/l	me/l
Sodium, Na+ (Calc.)	28,980	1,260
Total Hardness as Ca++	6,160	0
Calcium Ca++	2,640	132
Magnesium, Mg++	2,146	179
Barium, Ba++	0	0
Iron (Total) Fe+++*	4	0

ANIONS

Chlorides, Cl-	53,500	1,507
Sulfate, SO4-	1,950	41
Carbonate, CO3-	0	0
Bicarbonates, HCO3-	878	14
Sulfide, S-*	136	9
Total Dissolved Solid	90,234	

OTHER PROPERTIES

pH*	6.884
Specific Gravity, 60/60 F.	1.056
Turbidity	452

SCALING INDICIES

<u>TEMP. F</u>	<u>CA CO3</u>	<u>CASO4*2H2O</u>	<u>CA SO4</u>	<u>BA SO4</u>
80	0.4823	-0.2804	-0.4766	-29.1358
120	0.8002	-0.2863	-0.3020	-29.3602
160	1.2910	-0.2886	-0.1317	-29.5874

PERFORATIONS

Endura Products Corporation

P.O. Box 3394, Midland, Texas 79702

Phone (432) 684-4233 Fax (432) 684-4277

WATER ANALYSIS

Date 11/9/2004 Endura Rep Mitch Sawyer

Code 101017403

Sampling Point/Date Heater Treater 11/5/2004

State New Mexico

Company Pecos Production Co.

County Eddy

Formation

Lease State 2 Tank Battery

Well

DISSOLVED SOLIDS**CATIONS**

	mg/l	me/l
Sodium, Na+ (Calc.)	23,575	1,025
Total Hardness as Ca++	3,760	0
Calcium Ca++	1,520	76
Magnesium, Mg++	1,366	114
Barium, Ba++	0	0
Iron (Total) Fe+++*	5	0

ANIONS

Chlorides, Cl-	41,500	1,169
Sulfate, SO4-	775	16
Carbonate, CO3-	0	0
Bicarbonates, HCO3-	1,342	22
Sulfide, S-*	120	8
Total Dissolved Solid	70,203	

OTHER PROPERTIES

pH*	7.248
Specific Gravity, 60/60 F.	1.040
Turbidity	685

SCALING INDICIES

TEMP. F	CA CO3	CASO4*2H2O	CA SO4	BA SO4
80	0.7683	-0.8418	-1.0232	-29.0492
120	1.0749	-0.8502	-0.8512	-29.2797
160	1.5437	-0.8444	-0.6727	-29.5012

PERFORATIONS

Endura Products Corporation

P.O. Box 3394, Midland, Texas 79702

Phone (432) 684-4233 Fax (432) 684-4277

WATER ANALYSIS

Date 11/9/2004 Endura Rep Mitch Sawyer

Code 101017400

Sampling Point/Date Production Heater 11/5/2004

State New Mexico

Company Chi Operating Co.

County Eddy

Formation

Lease Munchkin Federal

Well #1

DISSOLVED SOLIDS**CATIONS**

	mg/l	me/l
Sodium, Na+ (Calc.)	65,550	2,850
Total Hardness as Ca++	32,400	0
Calcium Ca++	26,240	1,312
Magnesium, Mg++	3,756	313
Barium, Ba++	0	0
Iron (Total) Fe+++*	11	1

ANIONS

Chlorides, Cl-	158,500	4,465
Sulfate, SO4-	400	8
Carbonate, CO3-	0	0
Bicarbonates, HCO3-	195	3
Sulfide, S-*	0	0
Total Dissolved Solid	254,652	

OTHER PROPERTIES

pH*	6.459
Specific Gravity, 60/60 F.	1.172
Turbidity	63

SCALING INDICIES

<u>TEMP. F</u>	<u>CA CO3</u>	<u>CASO4*2H2O</u>	<u>CA SO4</u>	<u>BA SO4</u>
80	1.8832	0.0991	-0.2589	-29.4950
120	2.4311	0.0876	-0.0900	-29.6343
160	3.2596	0.0681	0.0631	-29.8430

PERFORATIONS