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	[C] 🛛 App	lication is One Which	h Requires Publish	ed Legal Notice	
	[D] Division Noti	fication and/or Conc Bureau of Land Management	urrent Approval by - Commissioner of Public L	y BLM or SLO ands, State Land Office	
	[E] 🛛 For	all of the above, Proc	of of Notification of	r Publication is At	ached, and/or,
	[F] 🗌 Wai	vers are Attached			
[3]	SUBMIT ACCURATE A APPLICATION INDICATION		INFORMATION	REQUIRED TO	PROCESS THE TYPE OF

[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.

Signature

Richard Mrlik

Print or Type Name

Manager-High Plains Operating Company, LLC9/24/07TitleDate

rmrlik@intertie.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

APPLICATION FOR AUTHORIZATION TO INJECT

	ATTENCETION FOR AUTHORIZATION TO INDECT
I.	PURPOSE: Secondary Recovery Pressure Maintenance XX_Disposal Storage Application qualifies for administrative approval? XX_Yes No
II.	OPERATOR: High Plains Operating Company, LLC
	ADDRESS: 2130 Fillmore Street, #211 San Francisco, CA 94115
	CONTACT PARTY: Richard Mrlik PHONE: 415-567-0446
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?YesXXNo 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 ATTACHED EXHIBIT.
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 ATTACHED EXHIBIT.
VII.	Attach data on the proposed operation, including: SEE ATTACHED EXHIBIT.
	 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 ATTACHED EXHIBIT.
IX.	Describe the proposed stimulation program, if any. SEE ATTACHED EXHIBIT.
*X. *XI.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). LOGS PREVIOUSLY FILED. 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 ATTACHED EXHIBIT.
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. SEE ATTACHED EXHIBIT.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form. SEE ATTACHED EXHIBIT.
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: Richard Mrlik TPTLE: Manager, High Plains Operating Company, LLC
	SIGNATURE: DATE: September 24, 2007

E-MAIL ADDRESS: rmrlik@intertie.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.

WELL NAME & NUMBER: Eagle Springs 8 Federal #1	API #: 30-043-20949	
WELL LOCATION: 263' FNL & 2545' FEL of Section 8-T19	9N-R4W of the NMPM; Sandoval County, NM. See well location and acreage dedication	See well location and acreage dedication
plat that follows. WELLBORE SCHEMATIC	TTEM	WELL CONSTRUCTION DATA
See original Synergy wellbore schematic. HPOC current		
schematic and well log on	Hole Size: 12 1/4"	Casing Size: 9 5/8"
following pages.	Cemented with: 270 sks, circulated.	<i>or</i> ft ³
	Top of Cement: Surface	Method Determined:
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	Hole Size:	Casing Size:
	Cemented with:	orf1 ³
	Top of Cement:	Method Determined:
	Product	Production Casing
	Hole Size: 8 3/4"	Casing Size: 7"
	Cemented with: 1085 sks	<i>or</i> ft ³
	Top of Cement: 2400'	Method Determined: Bond log
	Total Depth: 5740'	
HPOC seeks approval to inject from 5600' to plugged back to total depth of 5725'. Current perforations are from 5668' to		Injection Interval
5712', however HPOC may desire to perforate additional section below 5600' in the future.	al Perforaté Lower Entrada from 5668'	68' to 5712'
	(Perforated or Oper	(Perforated or Open Hole; indicate which)

.

INJECTION WELL DATA SHEET

OPERATOR: High Plains Operating Company, LLC (HPOC)

8 Federal #1 WELL NAME & NUMBER: Eagle Sprin

A DI #: 20 042 70040

Side 1

from the Entrada zone at the Eagle Springs 8 Federal 2M ("Fed 2M"). The Fed 2M was deepened in July 07 using nitrogen (versus mud) as the drilling the Fed 2M, separating the oil and water at the surface, and injecting the produced Entrada water back into the Fed 1. To reduce its upfront risk during fluid and only the top 3 - 5 feet of the Entrada was penetrated. HPOC seeks to assess its novel completion technique by producing oil and water from Lining Material: Not lined. HPOC plans to conduct an extended 1-year production test the 1-year test period, HPOC requests a temporary variance of utilizing lined tubing for injecting into the Eagle Springs 8 Federal 1. Tubing Size: 2 7/8"

Type of Packer: 7" Arrowset 1 Retrievable Casing Packer

Packer Setting Depth: 5579'

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

Additional Data

1. Is this a new well drilled for injection? Yes

XX No

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

The well was originally drilled and completed as an oil well producing from perforations in the top of the Entrada sandstone.

- 2. Name of the Injection Formation: Lower Entrada
- Name of Field or Pool (if applicable): Arena Blanca Entrada Southeast (96899) ς.
- 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. 4.

Entrada originally produced in this well from perforations at 5534' to 5547'. Plugged on 11/22/2005 (Plug #1A from 5400' to 5547') with 11.5 bbls cement.

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

The top of the Entrada (see #4 above for perfs) did produce in this wellbore, and will be produced in the offset Eagle Springs 8 Federal #2M well

DISTRICT | 1625 M. Prench Dr., Hobbs, N.M. 68240

DISTRICT II 1301 W. Grand Ave., Artesin, N.M. 88210

(DISTRICT II) 1000 Rio Brezos Rd., Aztec, N.M. 87410

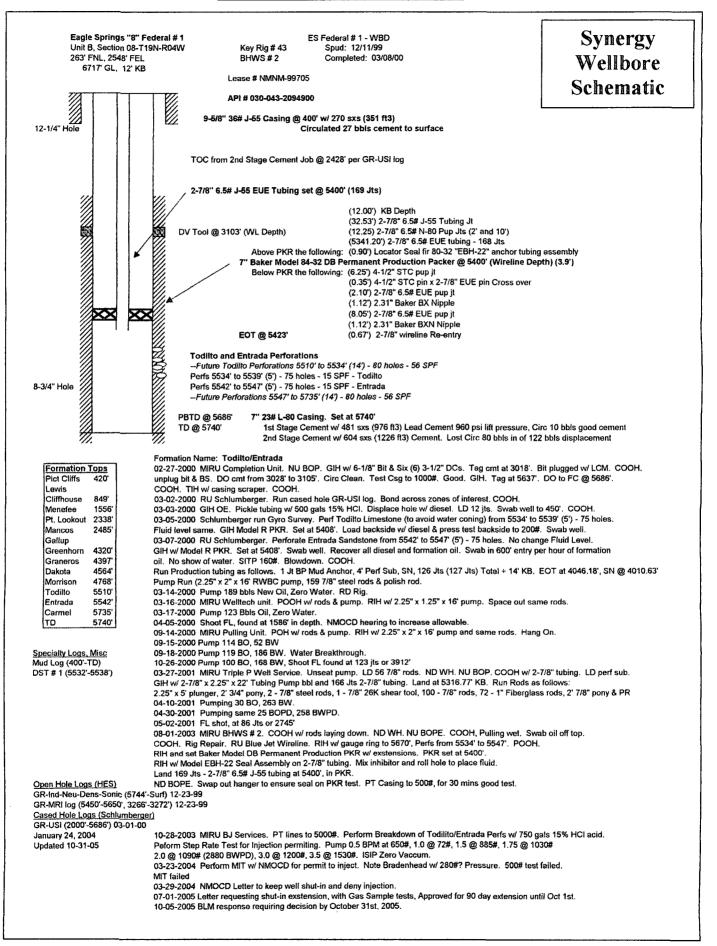
DISTRICT IV 1220 South St. Francis Dr., Santa Fo, NM 07505

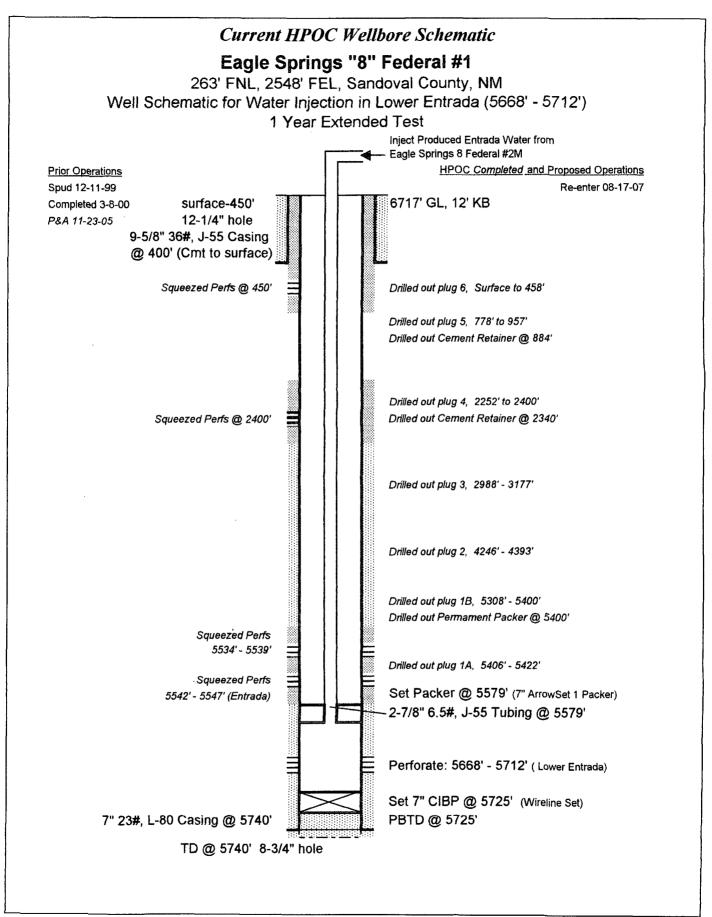
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

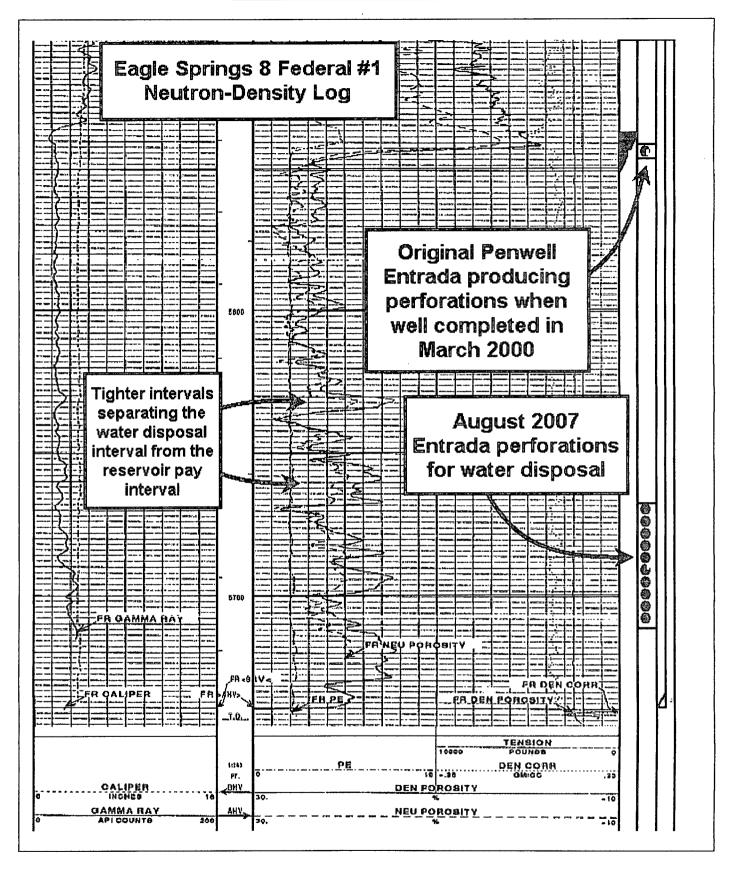
□ AMENDED REPORT

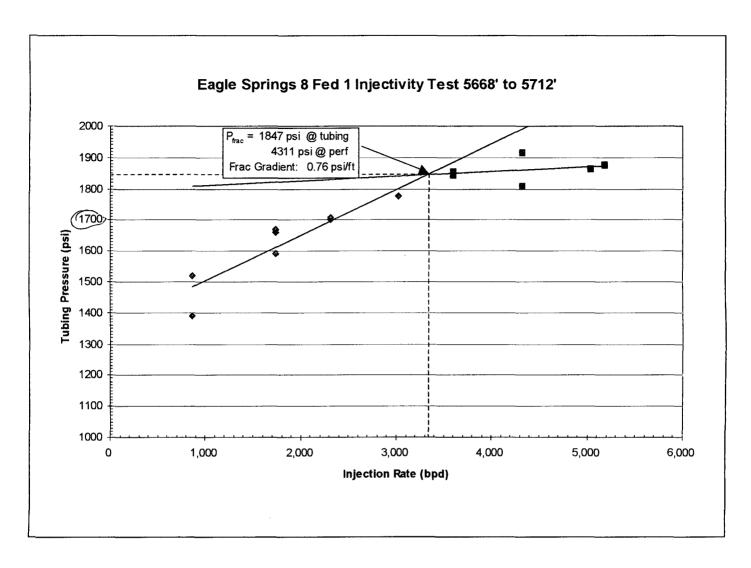
WELL LOCATION AND ACREAGE DEDICATION PLAT

	AP1 Number 30-043-20949			*Pool Code 96899 ARENA B					"Pool Name LANCA ENT		OUTHEAS	т
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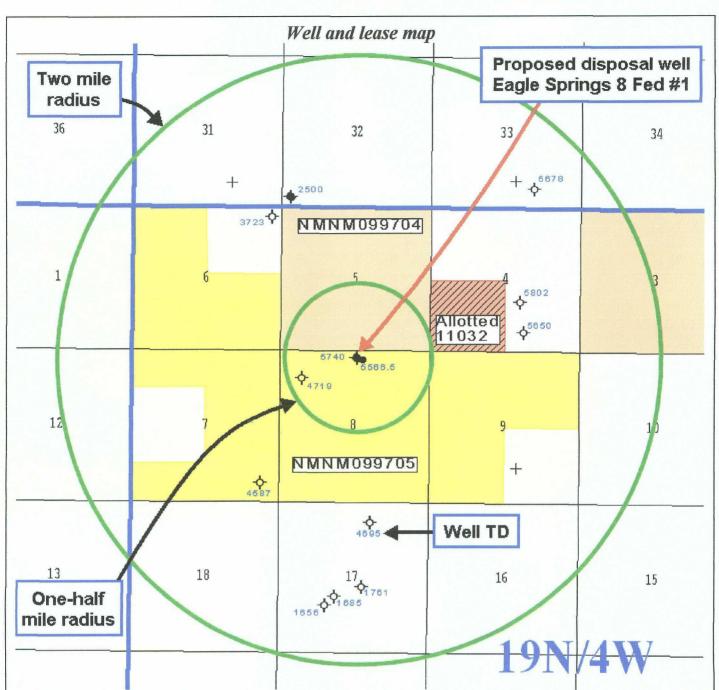








EXHIBITS TO ACCOMPANY APPLICATION FOR AUTHORIZATION TO INJECT, SECTION V.



High Plains Operating Company, LLC (HPOC) has re-entered the Eagle Springs 8 Federal #1 well and is ready to complete as a salt-water disposal well. Approximately 300' to the east, HPOC deepened the Eagle Springs 8 Federal #2M from 3850' to 5566.6' and has completed this well as an Entrada Producer. HPOC plans to produce from the #2M well and dispose of the produced water into the #1 well. High Plains is the lessee of Federal leases NM\NM99705 and NM\NM99704.

EXHIBITS TO ACCOMPANY APPLICATION FOR AUTHORIZATION TO INJECT, SECTION VI.

Well Data, Entrada Penetration within Area of Review

Well Name:

Eagle Springs 8 Federal #2M

API Number:

30-043-20950

Well Type: Oil

Date Drilled:

Originally drilled in January 2001 to 3850'. Deepened in June of 2007 to 5566.5' in the Entrada.

Well Location:

330' FNL & 2275' FEL of section 8-T19N-R4W of the NMPM, Sandoval County, NM

Well Depth:

5566.5'

Well Completion Record:

Entrada open hole completion in August 2007 from 5556' to 5566.5'. No stimulation. Swabbed 22 barrels of oil and 119 barrels of water per day.

Construction/Casing and Liner Record

				Stage Cementer	No. of Sks &
Hole Size	<u>Size/Grade</u>	Wt (lb/ft)	<u>Tops-Base</u>	<u>Depth</u>	Type of Cement
12 1/4"	9 5/8"/J-55	36	0-353	n/a	250 sks
8 3/4"	7"/J-55	23	0-3850	3215'	75 sks & 280 sks
6 1/4"	4 1/2"/J-55	10.5	3080-5519	n/a	360 sks clss "G"

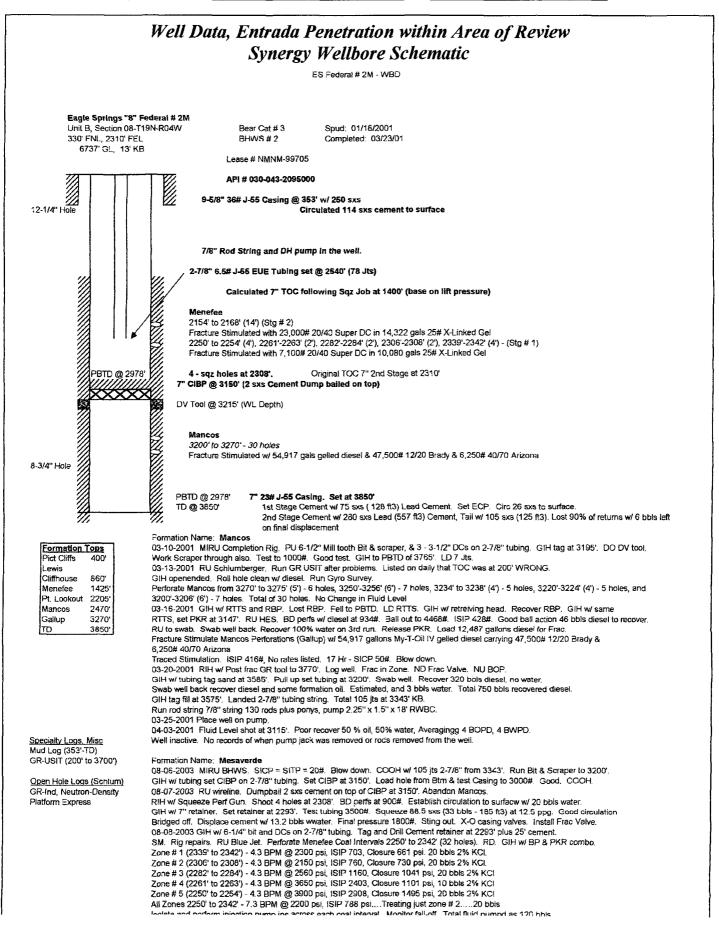
Narrative:

The Eagle Springs 8 Federal #2M was originally drilled by Penwell Energy in January of 2001 to a total depth of 3850' to test the Mancos/Gallup interval. A completion report was filed dated May 24, 2001 indicating potential of 17 barrels of oil and 10 barrels of water from the "Gallup Siltstone" perforated from 3200' to 3275'. Reported total cumulative production in May and June of 2001 for this well was 185 barrels of oil. Effective January 1, 2003, Synergy Operating took over as operator and in August of 2003 set a bridge plug at 3150' over the Mancos/Gallup perforations to move uphole and test the "Menefee Coals." Synergy perforated over a gross interval from 2250' to 2342' and from 2152' to 2168', fracture stimulated both intervals and recovered 100% water. These Menefee zones never produced any reported quantities of hydrocarbons and the well was eventually plugged in November of 2005. High Plains Operating Company, LLC filed an APD with the BLM in early 2007 and deepened this well to a total depth of 5566.5' in the Entrada.

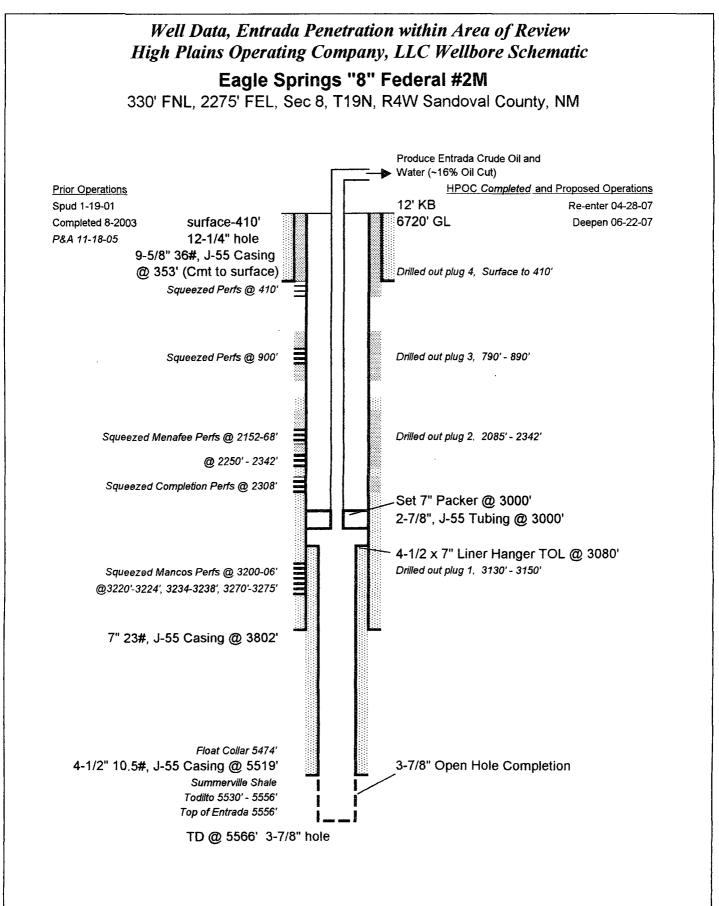
APPLICATION FOR AUTHORIZATION TO INJECT, SECTION VI.

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APPLICATION FOR AUTHORIZATION TO INJECT, SECTION VI.



APPLICATION FOR AUTHORIZATION TO INJECT, SECTION VI.



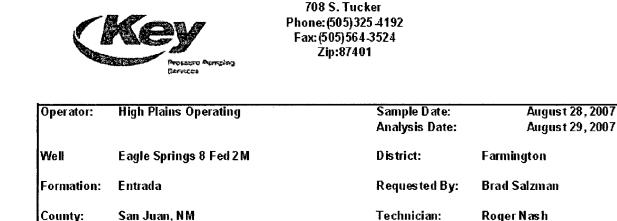
APPLICATION FOR AUTHORIZATION TO INJECT; SECTION VII.

Operational Data

Depth:

- 1. Average daily injection rate: 450 bbls; Maximum daily injection rate: 900 bbls; Average annual volume of fluids to be injected: Approximately 165,000 bbls.
- 2. The system will be a closed system.
- 3. Average injection pressure: 400 psi; Maximum injection pressure: 1100 psi.
- 4. Reinjecting produced water from the same formation (Entrada).
- 5. The Entrada formation injection zone is productive of oil within one mile of proposed injection well. Water analysis of produced water from the Eagle Springs 8 Federal #2M follows.

Key Pressure Pumping Services Water Analysis Result Form Farmington, NM.

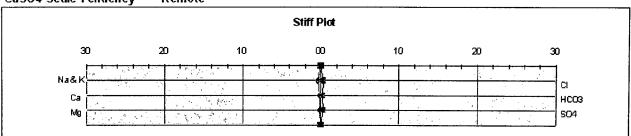


PHYSICAL AND CHEMICAL DETERMINATION

SPECIFIC GRAVITY:	1.010	84 (°F) S.G. (Corrected):	1.010
рН:	~7.77	MAGNESIUM:	19 ppm
RESISTIVITY:	0.74 ohm/mete	r CALCIUM:	32 ppm
IRON:	0.10 ppm	BICARBONATES:	242 ppm
H2 S:	0 ppm	CHLORIDES:	2772 ppm
POTASSIUM:	15 ppm	SODIUM :	1824 ppm
SULFATES:	173 ppm	TDS:	5077 ppm

Source:

CaCO3 Scale Tendency = Remote CaSO4 Scale Tendency = Remote



Data contained in this document is based on the best information & most current test procedures and materials available. No liability is expressed or implied.

1" connection

APPLICATION FOR AUTHORIZATION TO INJECT; SECTION VIII.

The injection zone in this wellbore is the basal portion of the Jurassic Entrada sandstone, which is a windblown deposit of thinly laminated, cross-bedded material. The lower Entrada is deposited regionally across the San Juan Basin. The sand grains are predominantly fine-graned, subrounded and highly frosted quartz. The lower Entrada has streaks of porosity in the 22% to 24% range with good horizontal permeability. Interbeds of tighter rock will reduce the vertical permeability and keep the injection zone separated from the productive Entrada reservoir approximately 100' higher.

The regional thickness of the Entrada is about 100'. Where dunes occur, they sit on this regional lower Entrada and the overall Entrada thickness increases. In this wellbore, the total Entrada thickness is approximately 190', with the top of the Entrada at a depth of 5542'.

The water produced with the oil in this Entrada reservoir has total dissolved solids below 10,000 mg/l. The nearest overlying formation containing drinking water is the Ojo Alamo sandstone, which is at the surface in this area with a base at approximately 100'. No known sources of drinking water are below the Entrada.

EXHIBITS TO ACCOMPANY

APPLICATION FOR AUTHORIZATION TO INJECT; SECTION IX.

The current proposed injection perforations from 5668' to 5712' were treated with 500 gals of 15% HCL and flushed with 33 bbls of water.

EXHIBITS TO ACCOMPANY

APPLICATION FOR AUTHORIZATION TO INJECT; SECTION XI.

There are no fresh water wells within one mile of the proposed injection well.

EXHIBITS TO ACCOMPANY

APPLICATION FOR AUTHORIZATION TO INJECT; SECTION XII.

High Plains Operating Company, LLC does hereby state that we have examined all 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.

M

APPLICATION FOR AUTHORIZATION TO INJECT; SECTION XIII.

As of this 25th day of September 2007, High Plains Operating Company, LLC has delivered in person a copy of this application to the following, with acknowledgment of receipt documents:

SURFACE OWNER

United States Department of the Interior Bureau of Land Management Attn: Jim Lovato 1235 La Plata Highway, Ste. A Farmington, NM 87401

OFFSET MINERAL OWNER—UNLEASED NAVAJO ALLOTTED

Federal Indian Minerals Office Jim Stockbridge—Director-Farmington Indian Minerals Office Agent for Navajo Allottees 1235 La Plata Highway, Ste. B Farmington, NM 87401

PROOF OF PUBLICATION

As of this 17 day of September 2007, High Plains Operating Company, LLC has sent a notice for publication to the following:

Albuquerque Journal (to be published in the September 19, 2007 edition)

NOTICE. High Plains Operating Company, LLC, Attn: Richard Mrlik, 2130 Fillmore St., #211, San Francisco, CA 94115, 415-567-0446 is making application to the New Mexico Oil Conservation Division for administrative approval to dispose of produced water into the Entrada formation through perforations from 5668' to 5712' measured depth in the Eagle Springs 8 Federal #1 well located 263' FNL and 2545' FEL of section 8-T19N-R4W, Sandoval County, NM. The maximum expected injection rate is 2800 bbls of water per day and the maximum expected injection pressure is 1100 psi. Interested parties may file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, NM 87505 within 15 days of the date of publication of this notice.

SURFACE OWNER ACKNOWLEDGEMENT OF APPLICATION RECEIPT

Jim Lovato United States Department of the Interior Bureau of Land Management 1235 La Plata Highway, Ste. A Farmington, NM 87401

High Plains Operating Company, LLC has delivered to Jim Lovato as representative for the United States Department of the Interior–Bureau of Land Management, surface owner, a complete copy of its application with the New Mexico Oil Conservation Division (Form C-108 & exhibits) to inject produced Entrada water in the Eagle Springs 8 Federal #1 (API: 30-043-20949). Receipt of this application is hereby acknowledged.

By: Kelen Pierson

Date: <u>9/25/07</u>

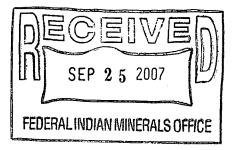
OFFSET MINERAL OWNER—UNLEASED NAVAJO ALLOTTED ACKNOWLEDGEMENT OF APPLICATION RECEIPT

Federal Indian Minerals Office Jim Stockbridge—Director-Farmington Indian Minerals Office Agent for Navajo Allottees 1235 La Plata Highway, Ste. B Farmington, NM 87401

High Plains Operating Company, LLC has delivered to Jim Stockbridge as agent for the Navajo allottees in the southwest quarter of section 4-T19N-R4W, a complete copy of its application with the New Mexico Oil Conservation Division (Form C-108 & exhibits) to inject produced Entrada water in the Eagle Springs 8 Federal #1 (API: 30-043-20949). Receipt of this application is hereby acknowledged.

By the Beeck

Date: 9/25/07



DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II 1301 W. Grand Ave., Artesia, N.M. 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

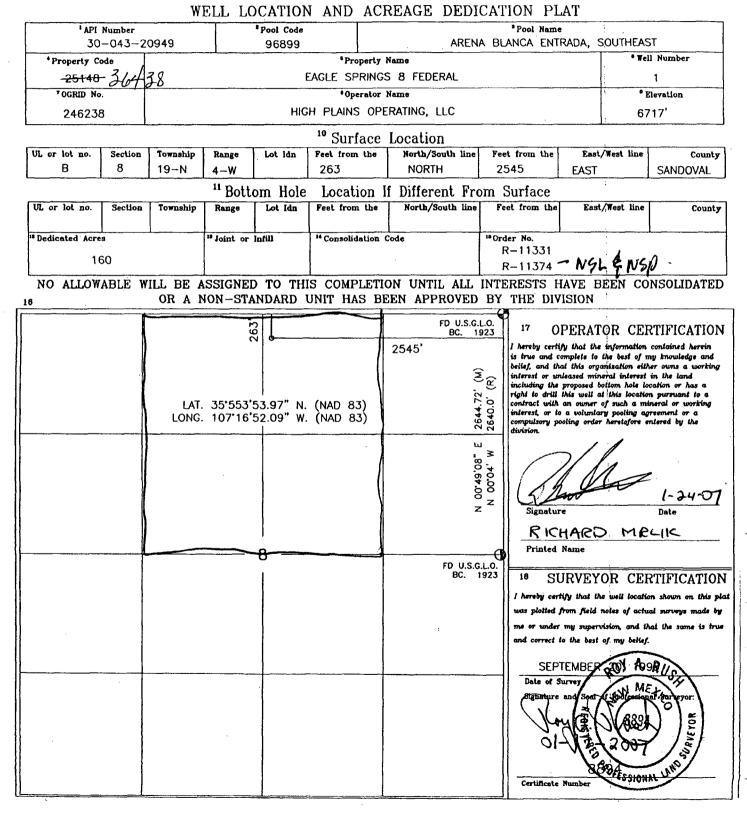
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

DISTRICT IV

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



2

High Plains Operating Company, LLC Eagle Springs "8" Federal #1---Re-entry program

Original API #:	30-043-20949
Original well total dep	th:
	5,740' driller's measured depth,
•	5,744' logger's measured depth
Well location:	NW quarter of the NE quarter of Section 8 Township 19 North Range 4 West
	Sandoval County, New Mexico
Surface location:	263' from the north line and 2,545' from the east line
Bottom hole location:	303.4' FNL and 2,552.4' FEL at a plugged back measured depth of 5,630.0' and a
	true vertical depth of 5,629.63' from Scientific Drilling's Gyro Survey
Federal Lease #:	NM 99705

DRILLING PROGRAM

1.

Synopsis: High Plains Operating Company, LLC plans to re-enter the Eagle Springs "8" Federal #1 well, drill out the plugs, perforate and swab and evaluate the Entrada for productive potential. Depending on swab results, the #1 well will be completed as either an Arena Blanca Entrada, Southeast Pool producing well or as a salt-water disposal well in the lowermost portion of the Entrada formation.

FORMATION TOPS

Actual geological formation tops penetrated in the original #1 well

FORMATION NAME	MEASURED DEPTH
Ojo Alamo Sandstone	Surface
Pictured Cliffs	420'
Cliff House	849'
Menefee	1,556'
Point Lookout Sandstone	2,338'
Mancos	2,485'
Gallup Sandstone	3,270'
Greenhorn	4,320'
Graneros	4,397'
Dakota Sandstone	4,564'
Morrison	4,768'
Todilto	5,510'
Entrada Sandstone	5,542'
Carmel	5,730'
Total Depth	5,740′

Following Total Instruction Total Instruction Total Filtering 420 0 Instruction 420 Instruction 420 Marcies 433 Marcies 433 Marcies 435 115 Marcies 233 Marcies 437 Cifif Flores 437 433 Marcies 4370 Marcies 437 Marcies 436 110 Marcies 437 Marcies 436 Marcies 437 136 Dakon 436 Marcies 436 Marcies 436 136 Marcien 5542 Marcien 436 136 136 136 Marcien 5542 Marcien 436 136 136 136 Marcien 5542 Marcien 436 136 136 136 Entralia 5542 Marcien 456 104 136 136 Entralia 5542 Marcien	FORMATION TOP ISC Cliffs 420 ISC 849 ISC 849 ISS 849 ISS 849 ISS 842 S542 S542 S542	MEAS. DEPT MEAS. DEPT 55 55 47 43 33 55 47 55 55 47 43 35 55 47 55 55 47 43 55 55 55 55 55 55 55 55 55 55 55 55 55	P VERI.DEFTH
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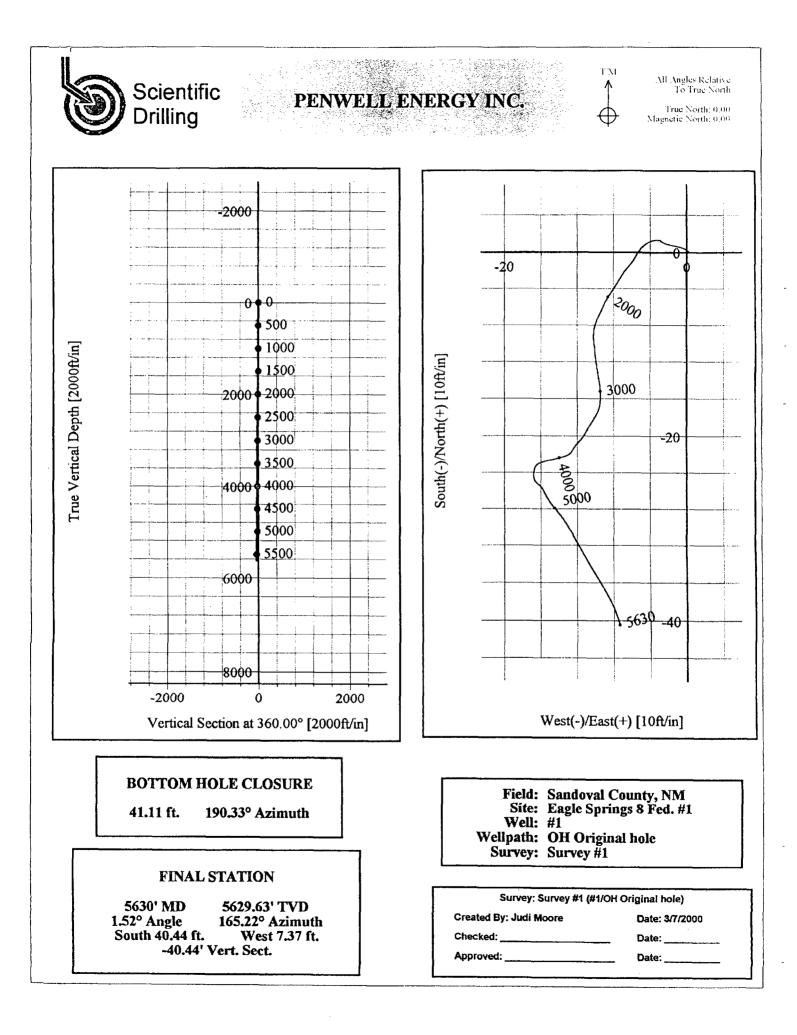
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REQUEST FOR ADMINISTRATIVE APPROVAL FOR NON-STANDARD LOCATION FOR PENWELL ENERGY INC. EAGLE SPRINGS "8" FEDERAL #1 OIL WELL 263' FNL & 2,548' FEL "B" Section 8 – T19N – R4W Sandoval County, New Mexico API # 30-043-20949

- 1. The well is on BLM surface and minerals. The BLM lease number for this well is NM 99705 (Approved 3160-3 attached). The existing location is a non-standard (95' from west quarter- quarter line and 263' from north section line of unit letter "B") location as per OCD oil well rules.
- 2. The attached C-102 shows the well location and proration unit (NW4/NE4 of Sec. 8 which is a standard 40 acre oil-proration unit).
- 3. According to NMOCD records, there is no production within a one (1) mile radius of the location.
- 4. All offset 40 acre proration units are owned by Penwell Energy as per the attached acreage map. All Penwell / SJJV held acreage is colored yellow.
- 5. The location was selected based on a 1998 3-D seismic survey with lines spaced @ quarter mile intervals. A standard drilling unit does not allow drilling at the highest point of the structure as evidenced by the attached 3-D seismic image for this section.
- 6. Directional drilling is not feasible because it is not cost effective for this wildcat well.



	TOP .	TRUE VERT. DEPTH	
GEOLOGIC MARKERS	T	MEAS. DEPTH	222 222 222 222 222 222 222 222
38. GEOL		NAME	Pictured CLiffs Gliff House Menefee Point Lookout Mancos Greenhorn Greenhorn Graneros Dakota Morrison Todilto Entrada Carmel Carmel
inton used, time tool open, tiowing and shut-in pressures, and	DESCRIPTION, CONTENTS, ETC.	Sandstone	<pre>Ran DST #1. Ran 1,500' of diesel for cushion. Tool opened w/fair blow increas- ing to good blow. Tool open 2 hrs. and 23 minutes. Shut tool. Recovered 1432' of diesel, 2635' of oil and no water. IHP of 2,824#, IFP 556#, FFP of 1,448#, FSIP 2,050#, FHP 2,764#.</pre>
drill-stem, tests, including depth interval tested, cushion used recoveries):	BOTTOM	5,735'	5,5521
ucinging deptn ir	TOP	5,542'	5,5381
recoveries):	FORMATION	Entrada Sand	Entrada Sand

SS STATE OF NEW MEXICO County of Bernalillo

Advertising Manager of The Albuquerque Journal, and that this newspaper is been made of assessed as court cost; that the notice, copy of which is hereto Bill Tafoya, being duly sworn, declares and says that he is Classified Section 3, Chapter 167, Session Laws of 1937, and that payment therefore has attached, was published in said paper in the regular daily edition. for of duly qualified to publish legal notices or advertisements within the meaning of Sworn and subscribed to before me, a Notary Public, in and for the County of Bernalillo and State of New Mexico this Q day 50 and the subsequent consecutive publications on on the , of 20 D. first publication being Ò aay of L the 200 times,

PRICE 515

OFFICIAL SEAL Elyn Stoane

STATE OF NEW MI

önmission Expires

Statement to come at end of month.

ACCOUNT NUMBER _

CLA-22-A (R-1/93)

EAGLE SPRINGS 8 FEDERAL # 1 PLUG AND ABANDONMENT SUNDRY 11-28-2005 SUBMITTAL

11-21-2005 Move Rig to Eagle Springs "8" Federal #1 Est inj rate down tubing. Prepare for Plug & Abandonment Operations. Contacted BLM (Sharon) & NMOCD (Left message) regarding cmt operations on 11-21-05 COLE THOMAS (BLM) ON LOCATION DURING ALL PLUGGING OPERATIONS. NMOCD (Monica) also was present during a portion of plugging operations. 11-22-2005 Plug #1 A (5,400'-5,547' Perfs @ 5,534'-5,546') 11.5 bbls cmt. Plug #1 B (5,400'-5,350') 2 bbls cmt top PKR. Plug # 2 (4,420'-4,320', Mix & pump 6 bbls cmt. Plug # 3, (3,188-3,088') Mix & Pumpe 6 bbls cmt. Tag cmt @ 3,029'. Perforate 4 squeeze holes @ 2,400', for Plug # 4. Pump dwn 7" csg & circ fluid out BH. TIH w/ 7" (Baker cmt retainer). Shut down for night. Plug #4 (2,400'-2,275') Set retainer @ 2,354. Mix & Pump 13 bbls cmt. Pump 10 bbls below ret & 3 bbls on top ret. 11-23-2005 Plug # 5 (902'-802'). Set Retainer @ 894', Mix & Pumpe 13 bbls cmt. Pump 10 bbls below ret & 3 bbls on top ret. Plug # 6 (450'-325'). Perforate 4 squeeze holes @ 450'. Pump 32 bbls cmt dwn 7" csg. Circ 2 bbls cmt out BH. Plug # 7 (Instal Dryhole Marker @ surface w/ 5 sxs cmt. RDMO Surface

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STATE OF NEW MEXICO County of Bernalillo SS

Bill Tafoya, being duly sworn, declares and says that he is Classified Advertising Manager of The Albuquerque Journal, and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Session Laws of 1937, and that payment therefore has of been made of assessed as court cost; that the notice, copy of which is hereto attached, was published in said paper in the regular daily edition, for 20 e day 20 27 and the setospequent consecutive publications on ト the first publication being on the 9 V times, 5 C

Sworn and subscribed to before me, a Notary Public, in and for the County of Bernalillo and State of New Mexico this f day of O C t of 20 O f

NOTICE: High Plans Operating compary LLC, Attin Prehard Mi-Ri, 2100 Francor SI, 2211, San F r an c i s c o. C A 9 4 1 1 5. F r an c i s c o. C A 9 4 1 1 5. too to the New Maxico Oli Contive approve to dispose of produced Entrada water hito the Entrada formation from 5600' to 5725 measured depth in the Eagle Springs 8 Febral #1 well bceted 258 NL and 2545 FEL of sector 0. 8-T10N-LHAW, Sandoval County, NM. The maximum exgeted injection pressure is of water per dy and the maximum expected injection pressure is 1700 ppl interested and the maximum expected injection pressure is 1700 ppl interested protections of requests for busish 1220 South 275 South of the attra of the date of publication of this note.

Statement to come at end of month. 20 10 PRICE 51

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ACCOUNT NUMBER C

OFFICIAL SEAL

Elyn Sloane

CLA-22-A (R-1/93)

NEXICO 1610 STATE OF NEW MEXI My Commission Expires:

STATE OF NEW MEXICO County of Bernalillo SS

Bill Tafoya, being duly sworn, declares and says that he is Classified Advertising Manager of **The Albuquerque Journal**, and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Session Laws of 1937, and that payment therefore has been made of assessed as court cost; that the notice, copy of which is hereto attached, was published in said paper in the regular daily edition, for L times, the first publication being on the day of L and the subsequent consecutive publications on

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My Commission 1

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Sworn and subscribed to before me, a Notary Public, in and for the County of Bernalillo and State of New Mexico this

5 day of Cot, of 20 CM

PRICE \$ 15.56

Statement to come at end of month.

ACCOUNT NUMBER <u>C. SC 30</u>

CLA-22-A (R-1/93)

NOTICE. High Plains Operating Company, LLC, Attn: Richard Milik, 2130 Fillmore St., #211, San Fr an ci s c o, C A 94 11 5, 415-567-0446 is making application to the New Mexico Oil Conservation Division for administrative approval to dispose of produced Entrada water into the Entrada formation from 5600' to 5725 measured depth in the Eagle Springs 8 Federal #1 well located 263 FNL and 2545' FEL of section 8-T19N-R4W, Sandoval County, NM. The maximum expocted injection rate is 2800 bbls of water per day and the maximum expected injection pressure is 1700 psi. Interested parties may file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, NM 87505 within 15 days of the date of publication of this notice. Journal: October 6, 2007

Jones, William V., EMNRD

From:	Jones, William V., EMNRD
Sent:	Tuesday, October 02, 2007 2:45 PM
То:	'Butch Butler'
Cc:	Ezeanyim, Richard, EMNRD; Perrin, Charlie, EMNRD
Subject:	SWD Application on behalf of HPOC: Eagle Springs 8 Federal #1 API No. 30-043-20949

Hello Butch: I have reviewed your application and only have the following comments:

Can you show my something official from Charlie in Aztec allowing the uncoated tubing for one year - for our file in this case?

I am assuming the injectivity test was a Step Rate Test or its equivalent and the pressures shown are surface pressures. Based on this, I would allow a maximum surface injection pressure of 1,700 psi - we always reserve a factor of safety below the fracturing point. If you change the tubing to plastic coated after one year, you will need to run another injection test because the friction will be different.

The way I read your application, you want a permit to inject from 5,600 feet to 5,725 feet. Your notice in the paper only mentions the current perforated interval (5668 - 5712) why is that?

I know we talked about this before, and you do have some tighter intervals located just above your injection perfs, but now that the application is here, I must comment: Since your injection well is only slightly deeper and very nearby your producing well, high injection pressures would be unwise.

Of course, some polymer or surfactant injection schemes are used such as this to carry some oil from injector to producer in high water-cut (waterwet) reservoirs. You could talk to an experienced reservoir engineer or a Petroleum Engineering enhanced recovery professor to find out more about that. Have you run any reservoir simulations to see if your injection well nearby will hurt you (or help?).

What is that on the elogs at 4530 and at 4630?

Please reply, so I know you received this email, and I will release this after the 15 day suspence period.

Regards,

William V. Jones PE New Mexico Oil Conservation Division 1220 South St. Francis Santa Fe, NM 87505 505-476-3448

Jones, William V., EMNRD

From:Butch Butler [butch@chaffee.net]Sent:Tuesday, October 02, 2007 5:47 PMTo:Jones, William V., EMNRDSubject:RE: SWD Application on behalf of HPOC: Eagle Springs 8 Federal #1 API No. 30-043-20949

I will rerun the Albuquerque add tomorrow with the entire interval we are seeking approval for, not just where the current perforations are. Will send an updated PDF with the "proof" ASAP.

Will keep you in the loop as we begin our operation.

Take care,

At 04:18 PM 10/2/2007, you wrote:

Butch:

To be consistent with other applications, you should probably re-run the newspaper notice to include the larger injection interval.

I will wait for something from Charlie about the coating - and call him if he does not send something soon.

Good Luck with this project.

Regards,

William V. Jones PE New Mexico Oil Conservation Division 1220 South St. Francis Santa Fe, NM 87505 505-476-3448

From: Butch Butler [<u>mailto:butch@chaffee.net</u>] `
Sent: Tuesday, October 02, 2007 3:54 PM
To: Jones, William V., EMNRD
Cc: Ezeanyim, Richard, EMNRD; Perrin, Charlie, EMNRD; rmrlik@intertie.com; brads@titusconsulting.net
Subject: Re: SWD Application on behalf of HPOC: Eagle Springs 8 Federal #1 API No. 30-043-20949

Hi Will, Richard & Charlie: I will respond to Will's questions in order.

- Regarding Charlie's response to the uncoated tubing, I have nothing official, only an indication from him that when he reviews the application, he would be inclined to give us the 1-year test period with uncoated tubing. Now that you have the application and we also delivered one to Steve Hayden in Aztec, perhaps Charlie would give a more "official" ruling in this matter? What do we need to do here?
- Regarding the injectivity test, these are surface pressures. Understood that when we change to lined tubing, we may need to rerun this test. Our hope is that we will have much lower pressures, i.e. less than 800-900 psi, but we'll see where we end up once we start injecting from the #2M well.
- Regarding the discrepancy with the requested injection depths in the application and the legal pub notice, this is an error on my part due to timing. I did the legal notice prior to my conversation with Will regarding where exactly we specify the interval we are requesting injection for versus the current perforated interval. We would be happy to run the legal notice again in the Albuquerque

Journal specifying 5600' to 5725' if you think this is best. Just let me know.

- Regarding the tight streaks in the Entrada, our hope is that for the near term, we can produce the #2M well at modest rates (by Entrada productive standards) and inject in the #1 well in the current perforations from 5668' to 5712'. If necessary, our next step would be to add perforations from 5634' to 5654' where there is better porosity but still 1 tighter interval from 5630' to 5634'. We believe this tight streak will keep us separated from the producing reservoir at about 5560 in the #2M. We have not done a reservoir simulation at this point. WE HEAR YOUR CAUTION THAT HIGH INJECTION PRESSURES WOULD BE UNWISE! Clearly, this is a concern, but we note that injection was done at the bottom of the Entrada in other Entrada producing fields in wells within the field. Admittedly, these wells were not as close as our two wells, however they were still pretty close (less than 1000' as I recall).
- Regarding the zones at 4530' and 4630', these are Cretaceous sand intervals. The upper interval has better porosity at about 14%, but lower resistivity at about 17 ohmm. The deeper interval (Dakota) has intrigued me as the resistivity is quite high (in the 100 ohmm range) but density porosity is in the 8-10% range. I believe there is gas in this interval, but it might be difficult to commercially extract.

I hope this answers your questions. Let me know on the legal notice and how we should handle an opinion from Charlie on unlined tubing for the 1-year test period. If you need anything else, I'm standing by.

As always, much thanks for your assistance with this matter, b

At 02:44 PM 10/2/2007, Jones, William V., EMNRD wrote:

Hello Butch:

I have reviewed your application and only have the following comments:

Can you show my something official from Charlie in Aztec allowing the uncoated tubing for one year - for our file in this case?

I am assuming the injectivity test was a Step Rate Test or its equivalent and the pressures shown are surface pressures. Based on this, I would allow a maximum surface injection pressure of 1,700 psi we always reserve a factor of safety below the fracturing point. If you change the tubing to plastic coated after one year, you will need to run another injection test because the friction will be different.

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Of course, some polymer or surfactant injection schemes are used such as this to carry some oil from injector to producer in high water-cut (waterwet) reservoirs. You could talk to an experienced reservoir engineer or a Petroleum Engineering enhanced recovery professor to find out more about that. Have you run any reservoir simulations to see if your injection well nearby will hurt you (or

			jection Permit C	necklist 2/8/07	
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		0949 County:			OGRID=Cross
		"45 FEL		N BOR 4W	APOC
Operat	tor Nama: (4.00	PLANE OFFR	TUC GMPANX	Contact RCHa	MRLIK
Operat	for Address: $\underline{2}$	/	F211 DAN TI	RANKISCO CA, 91	
Curren	t Status of Well:	AED Pla	anned Work:	T	Inj. Tubing Size
		Hole/Pipe Sizes	Depths	Cement	Top/Method
. ——	Surface	12/4 95/8	4001	270	CIRC
-	Intermediate				
	Production	83/4 71	5,740	1085	2.400'
	Last DV Tool	·	3103 (CIR	clebour DV)	
	Open Hole/Liner				
	Plug Back Depth	Tr	>= 3740		
Diagra	ms Included (Y/N): E	Before Conversion	After Conversion	onn	
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	Intervals:	Depths	Formation	Producing (Yes/No)	arena BLANKA ENTRADA
	Salt/Potash	· · · · · · · · · · · · · · · · · · ·			
	Capitan Reef				
	Cliff House, Etc:				
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	Bottom Inj Interval Formation Below Water: Depths:	5735 5735 velsy we	IS(Y/N)NO Analy		NO Open Hole (Y/N) NO Deviated Hole (Y/N) Affirmative Statement
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Salt W Notice Other A AOR/R AOR N Well Ta New A	Bottom Inj Interval Formation Below Water: Depths: ater Analysis: Injec : Newspaper(Y/N) Affected Parties: Repairs: NumActiveV lum of P&A Wells able Adequate (Y/N) OR Table Filename tions of Approval:	5735 5735 Vells Vells Vells Repairs? AOR STRS:	Is(Y/N) Analy Is(Y/N) Analy DispWaters (Y/N BUM DispWaters (Y/N BUM Producing i Diagrams Included Sec Sec	I/NA) Types: _Mineral Owner(s) m Injection Interval in A(spRge	NO Open Hole (Y/N) NO Deviated Hole (Y/N) Affirmative Statement Thrada TDS 5 (00) DR RBDMS Updated (Y/N) UIC Form Completed (Y/N)
Salt W Notice Other A AOR/R AOR N Well Ta New A	Bottom Inj Interval Formation Below Water: Depths: ater Analysis: Injec : Newspaper(Y/N) Affected Parties: Repairs: NumActiveV lum of P&A Wells able Adequate (Y/N) OR Table Filename tions of Approval:	5735 5735 Vells Vells Vells Repairs? AOR STRS:	Is(Y/N) Analy Is(Y/N) Analy DispWaters (Y/N BUM DispWaters (Y/N BUM Producing i Diagrams Included Sec Sec	I/NA) Types: _Mineral Owner(s) m Injection Interval in A(spRge spRge	NO Open Hole (Y/N) NO Deviated Hole (Y/N) Affirmative Statement Thrada TDS = 5(00) DR RBDMS Updated (Y/N) UIC Form Completed (Y/N) This Form completed
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Salt W Notice Other A AOR N Well Ta New Au Condit	Bottom Inj Interval Formation Below Water: Depths: ater Analysis: Injec : Newspaper(Y/N) Affected Parties: Repairs: NumActiveV lum of P&A Wells able Adequate (Y/N) OR Table Filename tions of Approval:	JAPE 5725 5735 Vells Voarby Wel tion Zone (Y/N/NA) Surface Owner HIGH PLAINS Nells Repairs? O Repairs? AOR STRS:	Is(Y/N) Analy Is(Y/N) Analy DispWaters (Y/N BUM DispWaters (Y/N BUM Producing i Diagrams Included Sec Sec	I/NA) Types: _Mineral Owner(s) m Injection Interval in A(spRge spRge	NO Open Hole (Y/N) NO Deviated Hole (Y/N) Affirmative Statement This Form completed Data Request Sent