State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D. Deputy Cabinet Secretary David R. Catanach, Division Director Oil Conservation Division



September 16, 2015

Ms. Julie Harris ARP Production Company, LLC Park Place Corporate Center One 1000 Commerce Drive 4th floor Pittsburgh, PA 15275

RE: Packer Setting Depth Exception

VPR E-99 (30-007-20378) H-5-31N-19E-Colfax Administrative Order SWD-850 Entrada/Glorieta Formations

Dear Sir or Madame:

Reference is made to your request on behalf of ARP Production Company, LLC (OGRID 300097, "ARP") received by the Division on September 1, 2015, for the above named well. ARP applied for exception to the requirement in permit SWD-850 to set the packer or polish bore receptacle at 6703 feet – and provided notice to the surface owner and in the newspaper.

ARP has requested to allow the polished bore receptacle on the end of the 3-1/2 inch tubing to be set into the top of the 5 inch liner at approximately 6345 feet. The existing disposal sands are located from 7095 to 7175 feet within the Entrada formation and from 7470 to 7580 feet in the Glorieta formation. The open-hole interval extends from 6824 feet to 7690 feet and has in it, a perforated, uncemented 3-1/2 inch liner.

It is our understanding that ARP has maintained the current packer setting depth based on prior setting depths used by the previous operator of the injection well. This setting depth is advantageous in allowing disposal of higher volumes at lower pressures. The evidence presented shows the Dakota formation is located behind cemented casing and the footage below 6345 feet is not productive of natural gas. Further, ARP is not asking for permission to perforate the Dakota for additional disposal.

For the reasons stated in the application and because it appears that correlative rights are protected, waste will not occur and this modification will not endanger any fresh water aquifer or the environment, the exception is granted. The packer location within this well shall not be set higher

Packer Setting Depth Exception Atlas Resource Partners, L.P. September 16, 2015 Page 2 of 2

than 6345 feet and the cemented casing in this well shall not be perforated for disposal unless the operator receives written approval from the Division Director.

The Division Director may rescind this exception if it becomes apparent that the injected fluid is not being confined to the permitted interval or is endangering any fresh water aquifer.

Sincerely,

DAVID R. CATANACH

Director

DRC/wvjj

cc: Oil Conservation Division – Santa Fe District Office

SWD-850

Well File API 30-007-20378

VPR E-99 WATER DISPOSAL WELL WELLBORE DIAGRAM

LEASE: Vermejo Park Ranch LOC: 1392' FNL: 885' FEL

BHL: Vertical Well CURRENT STATUS: WDW WELL: VPR E-99 WD\ Field: Stubblefield Canyon

SEC: 5 GL: 8593'

T/R: T31N, R19E

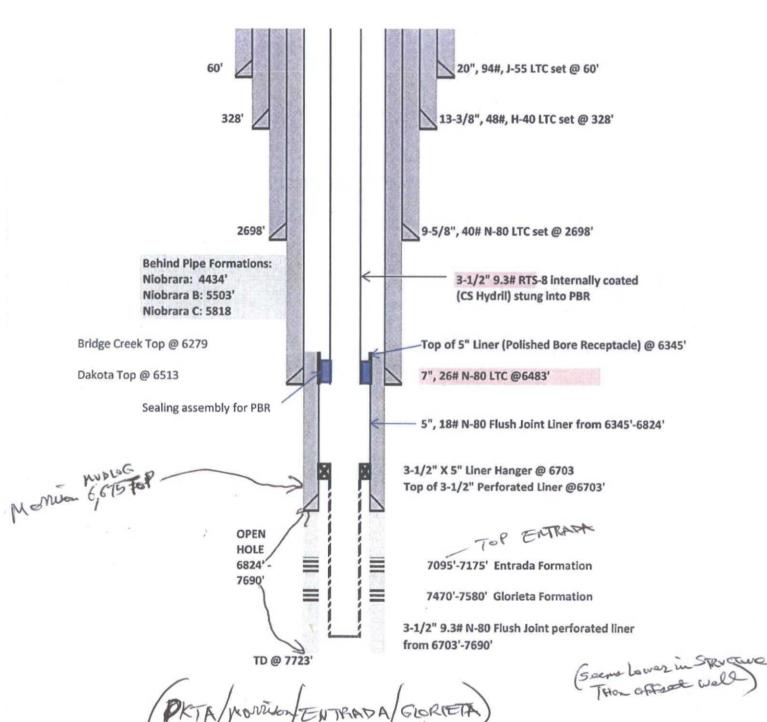
CTV/ST: Colfax, New Mexico

API NO: 30-007-20378

SPUD: 7/3/02 COMPL: 1/3/03

TD: 7723'

PBTD: 7690'



VPR E-099 API # 30-007-20378 Production Potential of Dakota Formation

From June 2, 2015 to June 9, 2015, Atlas Resource Partners conducted squeeze operations on VPR E-099 because it had failed to pass a MIT. The squeeze was successful and the well passed the MIT on June 9. During these operations, it was discovered that the tubing depth was less than originally reported by the previous operator. The tubing was reported to be below the Dakota Formation but was actually above. In order to continue with the current wellbore configuration, Atlas desires to include the Dakota as part of its water disposal interval.

The Dakota formation spans from 6513' to 6713' in the E-099 and exists as a series of sand and shale sequences. Relatively clean sands can be identified at 6513 – 6527, 6565 – 6572, 6578 – 6601, 6612 – 6632, 6639 – 6667, and 6671 – 6679. This wellbore section was logged prior to running intermediate casing, and the hole depth at this time was 6824'. Due to hole conditions, the resistivity and density neutron log were only run from 6660 to the top of intermediate casing at 6483'. Reviewing the log data that is available, there is slight separation between the density and neutron in this interval, but it is not believed that it is significant enough to indicate the commercial presence of gas. The porosity is also low - 5% to 6% through the interval. Reviewing the mud log, there was one notable connection gas kick at the top of the Dakota, but it quickly dissipated and the reported fluids were subsequently water.

Looking at the Dakota Formation on a broader scale, Atlas Energy owns the mineral interest in over 570,000 acres that constitutes our Vermejo Park project. This acreage is primarily located in Colfax County, New Mexico. Thus far, no commercial Dakota production has been established. In an offset to the E-099, the E-034, the Dakota was swab tested and found to be incapable of sustained gas production due to high water production.

In summary it is believed that the Dakota Formation does not have commercial hydrocarbon production potential because:

- Low porosity 5 to 6%
- Lack of significant cross over on density neutron logs
- No sustained gas indication on mud log
- Tested wet in offset well

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

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FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

1.	Application qualifies for administrative approval? X Yes No
П.	OPERATOR: ARP Production Company, LLC
	ADDRESS: 1000 Commerce Drive, 4th Floor, Pittsburgh, PA 15275
	CONTACT PARTY: <u>Carla L. Suszkowski, P.E.</u> PHONE: <u>(412) 489-0311</u>
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. There is no change to this information from the currently permitted information. This administrative application is being submitted simply to add an additional zone due to the existing well conditions encountered during the workover of the well in July, 2015. The wellbore diagram showing the conditions encountered during the workover is attached to this application.
IV.	Is this an expansion of an existing project? Yes 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. There is no change to this informatio from the currently permitted information. This administrative application is being submitted simply to add an additional zone due to the existing well conditions encountered during the workover of the well in July, 2015. The previously submitted map is included with this application.

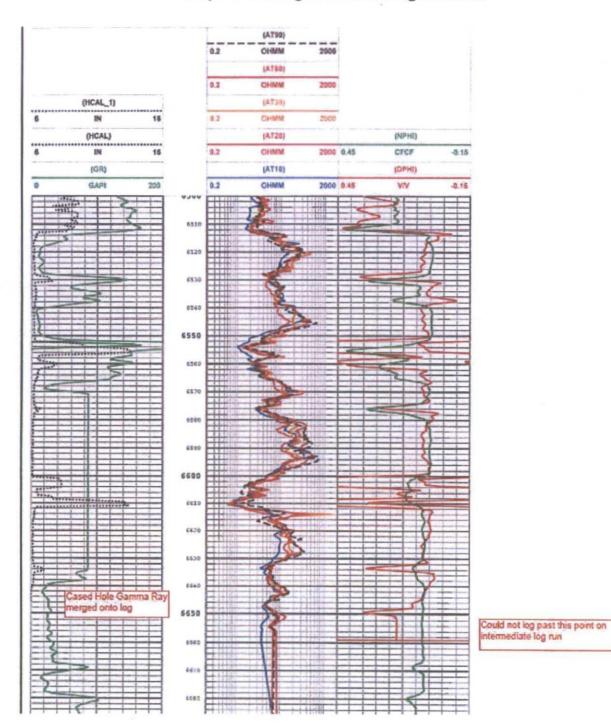
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail. There is no change to the data of wells within the area of review. See the attached information from the previously submitted application.
- VII. Attach data on the proposed operation, including: There is no change to this information from the currently permitted information. This administrative application is being submitted simply to add an additional zone due to the existing well conditions encountered during the workover of the well in July, 2015.
 - 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. There is no change to this information from the currently permitted information. This administrative application is being submitted simply to add an additional zone due to the well conditions encountered during the workover of the well in July, 2015.
- IX. Describe the proposed stimulation program, if any. No stimulation of this well will occur. This administrative application is being submitted simply to add an additional zone due to the existing well conditions encountered during the workover of the well in July, 2015.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). There is no change to this information from the currently permitted information. This administrative application is being submitted simply to add an additional zone due to the existing well conditions encountered during the workover of the well in July, 2015.
- *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. There is no change to this information from the currently permitted information. This administrative application is being submitted simply to add an additional zone due to the existing well conditions encountered during the workover of the well in July, 2015.

- 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. There is no change to this information from the currently permitted information. This administrative application is being submitted simply to add an additional zone due to the existing well conditions encountered during the workover of the well in July, 2015.
- 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

	NAME: Carla L. Suszkowski, P.E.	TITLE: <u>Director, Environmental and Regulatory Affairs</u>
	SIGNATURE: Calla Haishoushi	DATE: 9-1-15
	E-MAIL ADDRESS: csuszkowski@atlasenergy.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

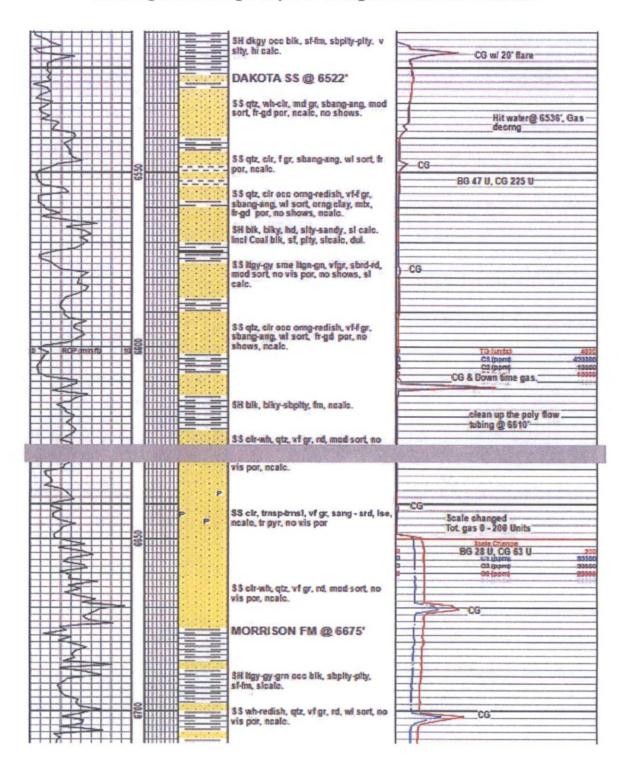
E-099 Open Hole Log Section Through Dakota



Cased Hole Gamma Ray Through Dakota Formation

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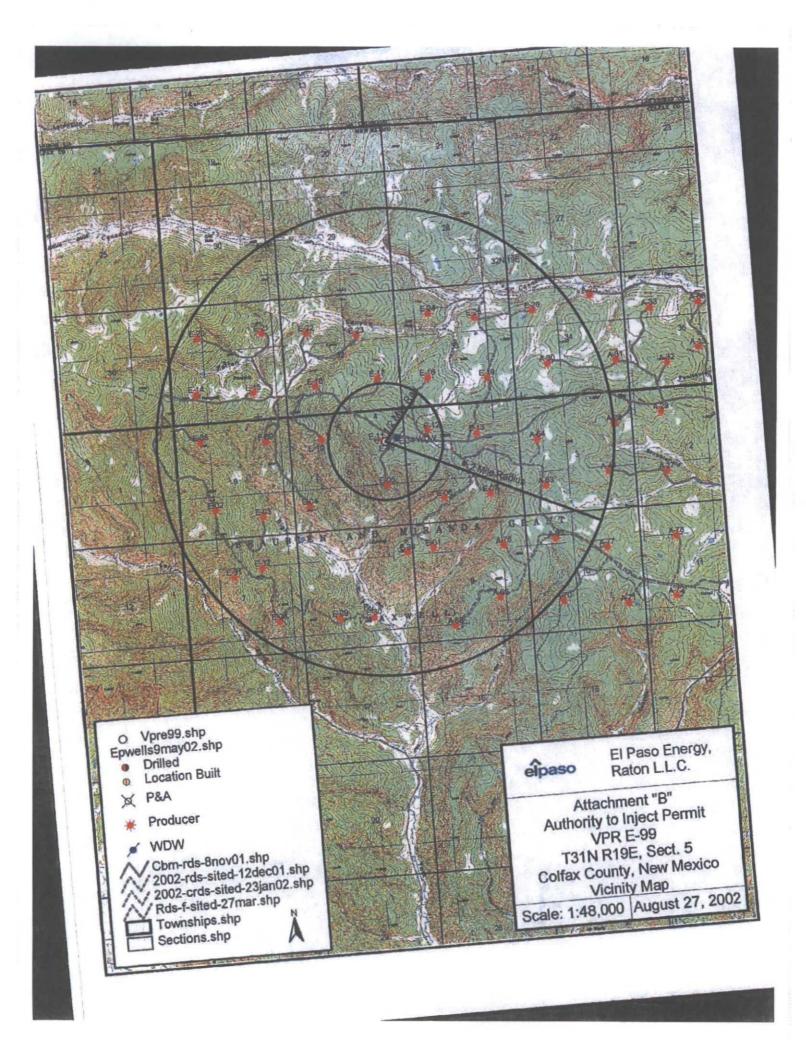
Mud Log and Geologic Report Through the Dakota Formation



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VPR E 99 MAP WITH 1/2-MILE RADIUS AND 2-MILE RADIUS AND EXISTING WELLS



DATA OF WELLS WITHIN AREA OF REVIEW

El Paso Energy Raton, L.L.C. Vermejo Park Ranch "E", Well #34 Water Disposal 1268.5' FNL & 368.2' FEL Section 5, T31N, 19E Colfax County, New Mexico

Attachment C: Data of Well Within Area of Review

WELL DATA:

1. Well Name: Vermejo Park Ranch "E" Well #34 (Water Disposal)

Location: 1268.5' FNL & 368.2' FEL, Sec 05, T31N, R19E, Colfax County, NM

2. Operator: El Paso Energy Raton, L.L.C. (Same as Applicant)

3. Casing & Cementing (Drilling Procedure and Wellbore/Well Location Schematic Attached)

Existing:

Casing Size	Setting Depth	Sacks Cement	Hole Size	Top of Cement
16"	330° KB	223 sx	18"	Surface
10 3/4"	2,675' KB	833 sx	13 1/2"	Surface
7 5/8"	6038' KB	812 sx	9 7/8"	Into 10 3/4" Casing Annulus
5 1/2"	7,133' KB	160 sx	6 3/4"	Into 7 5/8" Casing Annulus
3 ½"	7,110'- 7,614'	Not cemented	4 3/4"	Not cemented

- 4. Tubing: 3 1/2". 9.3 ppf, L-80, JMLS, RTS 8, 2.867" Drift/ 4.5" OD @ +/- 6,706"
- 5. Packer: 5 1/2" x 3 1/2" nickel plated Loc Set w/ carbide slips @ =/- 6,706!
- 6. Open Formation: The Entrada and Glorieta Sandstone
- 7. Injection Interval: Entrada Sandstone 6,730'- 6,830'; Glorieta Sandstone 7,090'- 7,160'
- 8. Original Purpose of Well: Drilled for the purpose of disposing of produced formation water.
- 9. No other perforated intervals.

NOTICE OF LANDOWNER



Park Place Corporate Center One 1000 Commerce Drive, 4th Floor Pittsburgh, PA 15275 Phone: (412) 489-0006

Facsimilte: (412) 865-3176

August 10, 2015

Vermejo Park Ranch P.O. Drawer E Raton, New Mexico 87740

> Subject: Application for Authorization to Inject VPR E 99 – API No. 30-007-20378 ARP Production Company, LLC

ARP Production Company, LLC (ARP) is providing you notice by way of this letter that ARP is submitting an Application for Authorization to Inject at the VPR E 99 disposal well, currently in use. This permit application is being submitted due to the existing conditions in the well that were encountered during workover operations at the well in July, 2015. The only change is to add another formation for injection (the Dakota, top depth 6513'), due to the fact that the existing packer was not set at the depth that was previously reported. No change in maximum injection volume or injection pressure is being requested.

If you have any questions, or require any additional information, please contact me at 412-489-0311.

Very truly yours,

ARP PRODUCTION COMPANY, LLC

Carla L. Suszkowski, P.E.

Director of Environmental and Regulatory Affairs

□ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. □ Print your name and address on the reverse so that we can return the card to you. □ Attach this card to the back of the mailpiece, or on the front if space permits.	A Signature A Signature A Received by (Printed Name) D. Is delivery address different from item 1?
1. Article Addressed to: Vermeyo Park Ranch P. O. Box/Trawer E.	ff YES, enter delivery address below: ☐ No
Raton, NM 87740	3. Service Type ☐ Cortified Mail* ☐ Priority Mail Express* ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ Collect on Delivery 4. Restricted Delivery? (Extra Fee) ☐ Yes
2. Article Number (Transfer from service label) 7014 0150	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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PROOF OF PUBLICATION

PROOF OF PUBLICATION AFFIDAVIT

Huerfano World Journal 500 Main St. P. O. Box 346 Walsenburg, CO 81089

I, Brian Orr, of lawful age, being duly sworn upon oath, deposes and says that I am the Publisher of the Huerfano World Journal, which has a general circulation therein: that the same is a weekly publication that is a "legal newspaper" as that phrase is defined in CRS § 24-70-103 for the City of Walsenburg, for the County of Huerfano, in the State of Colorado; and has been published continuously and uninterruptedly in said County of Huerfano for a period of more than one year and for more than flifty-two consecutive weeks prior to the first publication of the annexed legal notice; that said newspaper has been admitted to the United States mail as a second-class matter under the provisions of the Act of March 3, 1879, or any amendment thereto and that said newspaper is duly qualified to publish legal notices and advertisements within the meaning of the laws of the State of Colorado, and more particularly Chapter 109, Colorado Revised Statues 1963 and amendments thereto; and that the attachment hereto contains a true and correct copy of what was actually published in said legal newspaper in consecutive issues on the following dates:

ITEM

Notice of Application for Flood Injection Were Pears: +		_ day of	Angust -	2015
		_ day of		2015
	. —————————————————————————————————————	_ day of		2015
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Publication fee: \$ 23.76

Publisher, Huerfano Journal

State of Colorado County of Huerfano

S. Gretchen Sporleder Orr

Notary Public

My Commission expires: December 26, 2016. Commission # 20084042715



Legal Notice

Name/Organization: Atlas Resource Partners, L.P. c/o Julia Cibulas EHS Administrator

Address: 1000 Commerce Drive, 4th Floor, Pittsburgh, PA 15275 (412-489-0565)

Legal document name: Notice of Application for Fluid Injection Well Permit

Dates to run: Aug. 13, 2015

Rate: 54 lines @.44¢ per line = \$23.76

(cost determined by number of columns times number of lines times number of insertions)

1 column 2 columns 3 columns Notice of Application for Fluid Injection Well Permit

ARP Production Company, LLC, 1000 Commerce Drive, 4th Floor, Pittsburgh, Pennsylvania is seeking administrative approval from the New Mexico Oil Conservation Division to add injection into another geologic formation in their Vermeis Park Ranch E No. 99 water disposal well. The well is located in Section 05, Twp 31N, parties 19E, Coltax County, New Mexico. The proposed new disposal zone includes the Dakota at 6513. There is no change to the currently permitted injection volume or Injection pressure.

Interested parties must file objections or request for hearing with the Oil Conservation Division, 1220 S. St. Francis, Santa Fe, New Mexico 57505 within 15 days of this notice.

Carla L. Suszkowski, P.E. ARP Production Company, LLC, 1000 Commerce Drive, 4th Floor Pittsburgh, PA 15275 412) 289-0311

Mexico Legals

REQUEST FOR BID

Colfax County, PO Box 1498, 230 N. 3rd St., Raton, NM 87740 is soliciting Request for Bids from qualified persons, firms and/or corporations for one or more Brush Trucks. Bid packages are available online at www.co.colfax.nm.us or may be picked up from the County Manager's office. Telephone number (575) 445-9661 ask for John Vaidez-Silva, or by writing to the above address requesting the information.

Sealed bids must be submitted by the deadtine date of August 31, 2015, no later than 3:00 PM, MST/MDT. Proposals submitted after that date and time shall not be accepted. Please reference Request for Bid #2015-08, dead line date and time on the bottom left hand corner of the

Notice of Application for Fluid Injection Well Permit

ARP Production Company, LLC, 1000 Commerce Drive, 4th Floor, Pittsburgh, Pennsylvania is seeking administrative approval from the New Mexico Oil Conservation Division to add injection into another geologic formation in their Vermejo Park Ranch E No. 99 water disposal well: The well is located in Section 05; Twp 31N, Range 19E, Colfax County, New Mexico. The proposed new disposal zone includes the Dakota at 6513. There is no change to the currently permitted injection volume or injection pressure.

Interested parties must file objections or request for hearing with the Oil Conservation Division, 1220 S. St. Francis, Santa Fe, New Mexico 87505 within 15 days of this notice.

Carla L. Suszkowski, P.E. ARP Production Company, LLC 1000 Commerce Drive, 4th Floor Pittsburgh, PA 15275 (412) 289-0311

NOTICE OF PUBLIC HEARING

The Municipality of Raton, New Mexico, wishes to inform all interested parties that a public hearing will be held:

Date Time August 24, 2015 August 31, 2015

The purpose of this public hearing will be to report on past CDBG program activities and to receive public input on community development needs and suggestions for future CDBG projects.

The Community Development Block Grant (CDBG) Program was established under Title Lof the Housing and Community Development Act of 1974, as amended, in order to assist communities in providing essential community facilities, providing desent housing for residents, promoting economic development and maintaining a suitable fiving environment. The State of New Mexico estimates the 2016 appropriation of \$9,000,000, to be distributed statewise on a competitive basis.

State and national objectives of the 2016 CDBG Program require that assistance be made available for activities that principally benefits persons of low and moderate income.

Applications are limited to a maximum of \$500,000, except for planning applications which have a limit of \$50,000.

Eligible activities and categories will be described. All interested parties are invited to attend, to submit project ideas, to provide supporting data and testimony, and other pertinent information.

With sufficient notice, a translator will be provided for non-English speaking residents.

Those unable to attend the public hearing may send written comments to:

CDBG Grant Program Requests Attention Jason Phillips Post Office Box 910

Raton, New Mexico 87740

NOTICIA AL PUBLICO

El Pueblo/Ciudad/Condado de Raton, Nuevo Mexico, desea anunciar sobre las juntas publicaspara informar a los interesados en le proceso de solicitude del program de CDBG del ano 2016. Las juntas seran los siguientes dias:

Fecha 24 de Augusto, 2015 31 de Augusto, 2015

El proposito de esta audiencia publica sera para informar sobre las actividades pasadas del programa CDBG y para recibir comentarios del publico sobre las necesidades de desamblio comunitario y sugerencias para futuros proyectos de CDBG. Esta junta considerara propuestas de proyectos para aplicación de 2016 fondos del fundo del proyectos de considerara propuestas de proyectos para aplicación de 2016 fondos del mumunity Development Block grant (CDBG) fue establecido en 1974 bajo el Title Uriousing & Community Development Act. El estado de Nuevo Mexico ha recibido fondos en la cantidad de

\$9,000,000.00.

El programma de Community Development Block Grant de 2016 para asistif comunidades y a residentes de pocos o moderados recursos. El programma de community Development Block Grant de 2016 para asistif comunidades y a residentes de pocos o moderados recursos. El programma esta administration, Local Government Division. El publico esta invitado a hacer presentaciones, peticiones y recomendaciones al consejo acerca de los proyectors que se quieran apicar pera el proximo cíclo de CDBG nondos: El maximo total por cada aplicacion es \$50,000, excepto aplicaciones en la categoria de un plan de proyecto que tienen limite fijo de \$50,000.

Si usted o su organizacion tienen un proyecto que pueda ser elegible para consideration, usted esta invitado a hacer su presentación y petition en esta reunion publica. Para los residentes que no hablan ingles; y requierer un interpreto, contacten a la cilcina de administration, una

Para la gente que no puede atender la reunion publica, sus comentarios se recibiran el la siguente direction: CDBC Grant Program Requests Attention Jason Phillips Post Office Box 910 Raton, New Mexico 87740

PROOF THAT THE DAKOTA FORMATION IS NOT HYDROCARBON BEARING