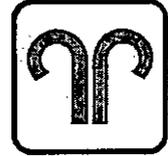


# RAM Energy LLC

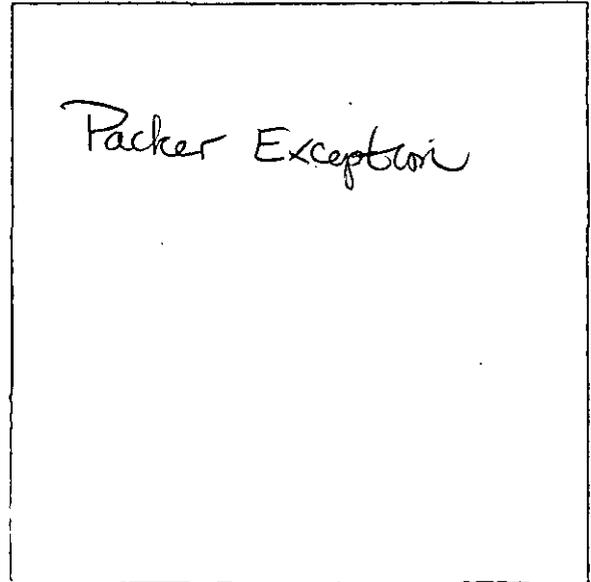
5100 East Skelly Drive, Suite 600  
Tulsa, Oklahoma 74135  
918.947.6300 Fax 918.794.3363



Mr. Phillip Goetze  
State of New Mexico  
Oil Conversation Division  
1220 South Saint Francis Drive  
Santa Fe, New Mexico 87505

June 23, 2016

RE: West Dollarhide Queen Sand Unit Well No. 008  
2,310' FNL-810' FEL  
Section 30-T24S-R38E  
Lea County, New Mexico  
API # 30-025-12261



Dear Mr. Goetze,

I am writing to you to request an exception to the Underground Injection Control Program Manual 11.6C Packer setting depth rule for the above referenced well. Per our conversation I am sending the WBD and a copy of the approved Form C-103 for the work we have done so far on the well.

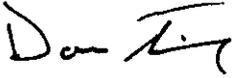
The WDQSU Well No. 008 is a water injection well. RAM Energy acquired the well from Chaparral Energy, L.L.C. effective November 5, 2014. It failed a Bradenhead test this year and RAM Energy was attempting to fix the well. This is the first time RAM tripped the tubing out of the well. On June 17, 2016 when we tripped the tubing out of the well we ruptured five joints of tubing while hydro testing the tubing. While tripping the tubing back in the hole the packer set down at 3,600' (111' above the top perforation). After several attempts to get thru the obstruction we laid one joint down and added a 12' tubing sub and set the packer 3,589' (122' above the top perforation). We loaded the casing annulus and pressure tested to 540 psi. We held the pressure for thirty minutes with no bleed off. We then contacted the NMOCD but could not get ahold of anybody so we rigged the rig down to wait on orders.

RAM is requesting that we are allowed to keep the packer set at 3,589' and put the well back in service after we re-run the Bradenhead test with the NMOCD field inspector out of Hobbs, New Mexico.

If there is any additional information you need please contact me at my office number at 918-947-6310 at extension 6310.

Thank you for your help.

Sincerely,

A handwritten signature in black ink, appearing to read "Don Tierney". The signature is fluid and cursive, with the first name "Don" and last name "Tierney" clearly distinguishable.

Don Tierney  
Senior Operations Engineer

Submit 1 Copy To Appropriate District Office  
 District I - (575) 393-6161  
 1625 N. French Dr., Hobbs, NM 88240  
 District II - (575) 748-1283  
 811 S. First St., Artesia, NM 88210  
 District III - (505) 334-6178  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV - (505) 476-3466  
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
 Energy, Minerals and Natural Resources  
**HOBBBS OCD**  
**JUN 08 2016**  
**RECEIVED**  
 CONSERVATION DIVISION  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

Form C-103  
 Revised July 18, 2013

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other Injector <input type="checkbox"/>	7. Lease Name or Unit Agreement Name West Dollarhide Queen Sand Unit
2. Name of Operator Ram Energy LLC	8. Well Number 008
3. Address of Operator 6100 E. Skelly Dr., Suite 600 Tulsa, OK 74135	9. OGRID Number 309777
4. Well Location Unit Letter <u>H</u> : <u>2310</u> feet from the <u>North</u> line and <u>810</u> feet from the <u>East</u> line. Section <u>30</u> Township <u>24S</u> Range <u>38E</u> NMPM <u>Lea</u> County <input checked="" type="checkbox"/>	10. Pool name or Wildcat Dollarhide Queen Sand
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3164' GR	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input checked="" type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Prepare to MIRU work over rig.  
 Determine why well failed Bradenhead test.  
 Repair as needed.  
 Field operations will be conducted using closed loop system.

Per Underground Injection Control Program Manual  
 11.6 C Packer shall be set within or less than 100

Condition of Approval: notify  
 OCD Hobbs office 24 hours

Spudset of the uppermost injection perfs or open hole. Release Date:

prior of running MIT Test & Chart

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE CSwan TITLE Regulatory Administrator DATE 06/07/2016

Type or print name Connie Swan E-mail address: CSSwan@swanderlandok.com PHONE: 918 621-6533

APPROVED BY: Marys Brown TITLE Dist Supervisor DATE 6/8/2016  
 Conditions of Approval (if any):

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

Form C-105  
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease  
State  Fee   
5. State Oil & Gas Lease No.

14. TYPE OF WELL  
OIL WELL  GAS WELL  DRY  OTHER \_\_\_\_\_  
15. TYPE OF COMPLETION  
NEW WELL  WORK OVER  DEEPEN  PLUG BACK  DIFF. RESVR.  OTHER \_\_\_\_\_

7. Unit Agreement Name  
8. Part or Lease Name  
9. Well No.  
10. Field and Pool, or Wildcat

2. Name of Operator **HNG Oil Company**  
3. Address of Operator **P. O. Box 767, Midland, Texas 79701**  
4. Location of Well

Vance "30"  
1  
W. Dollarhide/Devonian

6.12 LETTER **N** LOCATED **430** FEET FROM THE **South** LINE AND **2210** FEET FROM  
16. LINE OF SEC. **30** TWP **24-S** RGE. **38-E** N.M.P.M.  
17. Date Spudded **1-27-72** 18. Date T.D. Reached **2-27-72** 19. Date Compl. (Ready to Prod.) **3-11-72** 20. Elevations (D.F., RKB, RT, GR, etc.) **3102' GL.** 21. Elev. Casinghead **-**

22. Total Depth **7830'** 23. Plug Back T.D. **-** 24. If Multiple Compl., How Many **None** 25. Intervals Drilled by Rotary Tools **0-7830'** Cable Tools **-**

26. Producing interval(s), of this completion - Top, Bottom, Name  
**7718' - 7816' Devonian**  
27. Was Directional Survey Made **No**

28. Type Electric and Other Logs Run  
**Sidewall Neutron Porosity, Dual Induction-Laterolog, Dipmeter Log**  
29. Was Well Cored **No**

30. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	48#	592	17 1/2"	750 sx. Class "C" Neat	None
9 5/8"	40#	3830	12 1/4"	1450 sx. Incor	None
5 1/2"	17#	7830	8 3/4"	650 sx. HOWCO & 250 sx. Incor	None

31. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
None					2 3/8"	7507'	7507'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
7718' - 7816'	Acidized w/7500 gals. 15% HCL Acid

33. 7718' - 20'  
7752' - 56'  
7812' - 16'  
4 - 0.4" O.D. Holes per interval

33. PRODUCTION  
Date First Production **3-13-72** Production Method (Flowing, gas lift, pumping - Size and type pump) **Flowing** Well Status (Prod. or Shut-in) **Producing**  
Date of Test **3-14-72** Hours Tested **24** Choke Size **14/64** Prod'n. For Test Period **200** Oil - Bbl. **200** Gas - MCF **240** Water - Bbl. **Tr.** Gas-Oil Ratio **1200**  
Flow Tubing Press. **400** Casing Pressure **0** Calculated 24-Hour Rate **200** Oil - Bbl. **200** Gas - MCF **240** Water - Bbl. **Tr.** Oil Gravity - API (Corr.) **41.5 @ 60°**

34. Disposition of Gas (Sold, used for fuel, vented, etc.) **Vented** Test Witnessed By **Curtis Smith**

35. List of Attachments  
**Deviation Survey**

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Charles R. Jenkins TITLE **Petroleum Engineer** DATE **3-15-72**  
(Charles R. Jenkins)

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1125.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____ <b>1153'</b>	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____ <b>2695'</b>	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____ <b>3595'</b>	T. Devonian _____ <b>7712'</b>	T. Menefee _____	T. Madison _____
T. Queen _____ <b>3987'</b>	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____ <b>3987'</b>	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinbry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____ <b>6004'</b>	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____ <b>6620'</b>	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
2695	3595	900	Yates				
3595	3987	392	Queen				
3987	6004	2017	San Andres				
6004	6620	614	Tubb				
6620	7440	820	Abo				
7440	7712	272	Woodford				
7715	7819	104	Devonian				

Oil and Gas Commission  
 ALBUQUERQUE, N. M.

KB:

DF: 3169

GL: - 3164

10 3/4 , 28.52#, @285 , 225 sx

### RAM Energy LLC

Well: NDQSU #8 , 88 , 4087.003#8  
 Operator: CRLLC  
 Location: Lea, NM  
 Legal: Sec 30-25S-30E  
 County: Lea, NM  
 Lat/Long:

TOCG 1210'

Topped off 4 1/2 & 7" w/ 118 sx from 1078

Dir:

Spud Date: 10/29/87  
 Drilling Finished:  
 Completion Date: 11/17/87  
 First Production:

Size: 8 3/4

3500'

### HISTORY:

1954 - well completed OH 3674-3741'  
 1987/88 - well deepened & 4.5" csg set @4026'  
 4/1988 Start Inj 29-April-88. 400 BWPD @ 800# surface  
 pres. permitted for 400 BWPD @ 850# 5/5/88

Packer @ 37589'

7 , 20x17#, @3674 , 2050sx

- 3711 -3724 Queen
- 3728 -3732 Queen
- 3734 -3742 Queen
- 3752 -3758 Queen
- 3784 -3791 Queen
- 3819 -3823 Queen
- 3840 -3844 Queen

Size: 6 1/8

FD: 4026

4 1/2 , 10.5 #, J-55 @4026 , 970 sx

Input by:  
 Approved by:  
 Last Update:

## Goetze, Phillip, EMNRD

---

**From:** Goetze, Phillip, EMNRD  
**Sent:** Tuesday, March 25, 2014 12:52 PM  
**To:** Billy Nievar  
**Cc:** Kautz, Paul, EMNRD; Dickey, Sylvia, EMNRD; Ezeanyim, Richard, EMNRD; McMillan, Michael, EMNRD  
**Subject:** West Dollarhide Queen Sand Unit - Packer Setting Depth Exceptions  
**Attachments:** WDQSU No 21 \_Packer Excp.pdf; WDQSU No 151\_Packer Excp.pdf

Billy:

Per your request, I have reviewed Chaparral's correspondence dated February 27, 2014, regarding the location of packers for injection wells in the West Dollarhide Queen Sand Unit (WDQSU) Waterflood project. The letter provided information for packer locations in WDQSU Nos. 21, 36, 37, 151, and 133. All five wells were originally cited for having packers located greater than 100 feet from the top perforation of the injection interval. The results of the review are as follows:

1. Administrative orders (Packer Setting Depth Exceptions) were issued for WDQSU Nos. 21 (API 30-025-12270) and 151 (API 30-02530306). Copies of the orders are attached and will be placed in the well files.
2. For wells WDQSU Nos. 36 (API 30-025-12288) and 37 (API 30-025-12302), Chaparral provide well construction information that demonstrated that the packers were located within 100 feet of the top perforations. No administrative orders will be issued for these two wells unless field inspection by the District office finds evidence to the contrary.
3. For well WDQSU No. 133 (API 30-025-30355), Chaparral has indicated that the well will be worked over and placement of the packer will be dependent on obtaining a successful seal. Any issues regarding the setting depth will be resolved with the completion of a successful MIT following tubing and packer installation.

For the wells without an order, a copy of the Chaparral correspondence will be place in the appropriate well files. If you have any questions or need assistance regarding this matter, please contact me at your convenience. PRG

Phillip R. Goetze, P.G.  
Engineering and Geological Services Bureau, Oil Conservation Division  
1220 South St. Francis Drive, Santa Fe, NM 87505  
O: 505.476.3466 F: 505.476.3462  
phillip.goetze@state.nm.us

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

Jami Bailey, Division Director  
Oil Conservation Division



March 25, 2014

Mr. Billy Nievar, PE  
Chaparral Energy LLC  
701 Cedar Lake Blvd  
Oklahoma City, OK 73114

**RE: Packer Setting Depth Exception**

Injection Authority: Division Order R-2356 and Amended Administrative Order  
WFX-570; West Dollarhide Queen Sand Unit Waterflood project

Pool: Dollarhide Queen pool

West Dollarhide Queen Sand Unit Well No. 21

API 30-025-12270

Unit M, Sec 30, T24S, R38E, NMPM, Lea County, New Mexico

Mr. Nievar:

Reference is made to your request on behalf of Chaparral Energy LLC (OGRID 4115; "Chaparral") received by the Division on March 10, 2014, for the above named well. Chaparral applied for exception for setting the packer within 100 feet of the top of the approved injection interval.

It is our understanding that mechanical integrity testing conducted on this well following the replacement of tubing and packer system was only successful with the packer set at a depth of 3560 feet. This location of the packer is approximately 106 feet above the top perforation for the injection interval that begins at 3566 feet. The approved injection interval is from 3666 feet to 3827 feet.

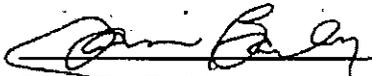
For the reasons stated in the application and because it appears that correlative rights are protected, waste will not occur and this modification will not endanger any fresh water aquifer or the environment, the exception is granted. The packer location within this well shall not be set higher than 106 feet unless the operator receives written approval from the Division Director.

Packer Setting Depth Exception  
Chaparral Energy LLC  
March 25, 2014  
Page 2 of 2

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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,



JAMI BAILEY  
Director

JB/prg

cc: Oil Conservation Division – Hobbs Office  
Administrative Order WFX-570  
Well File API 30-025-30306  
United States Bureau of Land Management – Carlsbad Office

Billy W. Nievar P.E.  
Chaparral Energy LLC  
701 Cedar Lake Blvd  
Oklahoma City, Oklahoma 73114

February 27, 2014

Mr. Phillip Goetz  
Oil Conservation Division  
Energy Minerals and  
Natural Resources Department  
1220 South Saint Francis Drive  
Santa Fe, New Mexico 87505

RECEIVED  
2014 MAR 10 P 1:59

RE: Letter of Violation Dated (10-Oct-13)

Dear Mr. Goetz:

Chaparral Energy received the referenced letter of violation and has prepared a response for parts of the letter. This letter deals with the Packer setting depths for West Dollarhide Queen Sand Unit (WDQSU) Wells No. 021, 036, 037, 151 and 133.

**West Dollarhide Queen Sand Unit No. 021. M-30-245-38E 30-025-12270**

**\*\*Packer Setting depth 106' above top perf. \*\*\*Operator in Violation of NMOCD Permit order WFX-570\*\*\* Operator must seek Approval from Phillip Goetz – OCD Santa Fe Prior to setting Packer more than 100' above top perf\*\*\***

**Response:** In February 1997 this well was placed in Temporary Abandonment Status by setting a CIBP at 3,600'. In April 2010 Chaparral was required to remove the well from TA status. Usually it takes two to three days of work to remove the CIBP and run the injection tubing and packer. Due to down hole well conditions this well took 8 days of time. We had difficulty in locating a packer seat. Well records show this well has 7.0" casing cemented up to 720' and 4-1/2" casing cemented to surface inside the 7.0" casing. On April 20, 2010 we had set the packer at 3,583' and did a 500 psi annulus pretest. On April 21, 2010 we placed packer fluid in the annulus flanged up the well and the annulus leaked. We tested at 61' higher and had a leak. Pulled 10' higher and it held. We had to use tubing subs to keep the packer at this depth. This ended up with the packer at 3,560'. The top perforation is at 3,666'. The annulus tested ok on April 21, 2010 with the packer set at 3,560'. Due to the well conditions Chaparral requests that NMOCD grant approval of setting the injection packer more than 100' above the top perforation. See (Attachment A) attached well bore schematic and Well History.

**West Dollarhide Queen Sand Unit No. 036. I-31-245-38E 30-025-12288**

**\*\*Packer Setting depth 132' above top perf. \*\*\*Operator in Violation of NMOCD Permit order WFX-570\*\*\* Operator must seek Approval from Phillip Goetz – OCD Santa Fe Prior to setting Packer more than 100' above top perf\*\*\***

**Response:** It appears the previous wellbore schematic with a packer setting depth of 3,442' is in error. The correct setting depth should be 3,478.25'.

This well was drilled and completed in November 1952. 7.0" casing was set at 3,670' and cemented with 1,400 sx cement. In 1988 the well was deepened to 3,969', 4-1/2" casing was then run and cemented to surface at 3,950'. After the workover the top perforation was placed at 3,574'. When the well was initially placed on injection in 1988 the injection packer was placed at 3,472'. In a workover conducted by Oxy in March 1993 the packer was set with 113 joints at 3511.08. Chaparral has worked on the well one time since it was placed on injection. In June 2008 a tubing leak developed in the injection string. Thus a workover was required to repair the well. During the workover the 4-1/2" casing collapsed at the surface, right under the wellhead. The 4-1/2", 7.0" and 9-5/8" casings were all repaired during the workover. One joint of injection tubing was removed that had a hole in the tubing. 112 jts injection tubing and the packer were run back into the well and set at 3,478'. This places the packer 96' above the top injection perforation.

This setting depth was determined after a diligent search of the well file. A tubing detail of the injection tubing was located for the March 1993 workover conducted by Oxy. From this information and the workover conducted by Chaparral in 2008 we were able to determine the proper setting depth of the packer. The depth was determined by averaging the joint tally as listed in the Oxy March 25, 1993 workover report. Thus using an average of 30.95' for each joint of tubing and having one joint removed. Chaparral ran 112 jts in the well on June 6, 2008. Then adding the length of the Seating Nipple 1.10' the Packer of 2.75' and Kelly bushing depth of 8.00' totals up to 3,478.25'. This depth places the packer within 96' of the top perforation. See (Attachment B) attached well bore schematic and Well History. Thus with this additional information WDQSU No. 36 should not be in Violation of NMOCD Permit Order WFX-570.

**West Dollarhide Queen Sand Unit No. 037. L-32-245-38E 30-025-12302**

**\*\*Packer Setting depth 117' above top perf. \*\*\*Operator in Violation of NMOCD Permit order WFX-570\*\*\* Operator must seek Approval from Phillip Goetz – OCD Santa Fe Prior to setting Packer more than 100' above top perf\*\*\***

**Response:** This well was initially drilled and completed in April and May of 1953. 7.0" casing was set at 3,662' and cemented with 200 sx cement. In March 1974 the well was plugged and abandoned. In

March 1981 the well was washed down to 1313' and the well replugged. In August 1989 the well was reentered and deepened to 3,900', 4-1/2" casing was then run and cemented to surface at 3,900'. After the workover the top perforation was set placed at 3,570'. In May 1997 a CIBP was set in the 4-1/2" casing at 3,690'. The last data in the well file indicates the injection packer is set at 3,494'. This places the packer only 76' above the top injection perforation. It appears the Chaparral wellbore schematic is in error. An updated wellbore schematic is attached see (Attachment C).

**West Dollarhide Queen Sand Unit No. 151. M-29-24S-38E 30-025-30306**

**\*\*Packer Setting depth 119' above top perf. \*\*\*Operator in Violation of NMOCD Permit order WFX-570\*\*\* Operator must seek Approval from Phillip Goetz – OCD Santa Fe Prior to setting Packer more than 100' above top perf\*\*\***

**RESPONSE:** This well was drilled by Sirgo Operating Inc. The well was spud on July 24, 1989. The well was drilled to a TD of 3,940'. On July 29, 1989 5-1/2" casing was run and set at 3,940' and cemented to surface with 1000 sx of cement. On August 14, 1989 2-3/8" injection tubing was run in the well and a packer was set at 3,537.8'. Since that time the well has not been pulled or worked on. This packer has been in this position before Chaparral became operator of the WDQSU in November 1, 2003.

It is possible to perform a workover and remove the tubing and packer. Chaparral could attempt to find a packer seat 20' deeper than the packer is located at however, experience in the field has taught us that corrosion can be a problem and could make it difficult in locating a packer seat at a deeper depth.

Due to the well conditions Chaparral requests that NMOCD grant approval of setting the injection packer more than 100' above the top perforation. See (Attachment D) attached well bore schematic and Well History.

**West Dollarhide Queen Sand Unit No. 133. D-31-24S-38E 30-025-30355**

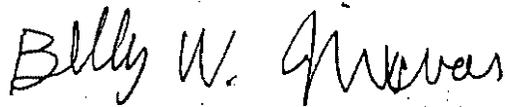
**LAST INJECTION 12/2012: SHUT IN/TA EXPIRED 2007; NO REPORT ON FILE TO DETERMINE STATUS CHANGE OF WELL; TA'D 2006 TBG/PKR IN HOLE; \*\*\*Operator in Violation of NMOCD Rule 19.15.25.12 (APPROVED TEMPORARY ABANDONMENT) \*\*\*\*\* UPON WORKOVER OPERATOR MUST SET PACKER ACCORDING TO OCD PERMIT WFX-570 – NOTE – IF PACKER CANNOT BE SET ACORDINGLY, OPERATOR MUST CONTACT OCD SANTA FE PHILLIP FOR PACKER SETTING APPROVAL.**

**RESPONSE:** The WDQSU No. 133 was spud on February 3, 1990. 5-1/2" casing was run and cemented at 3,950' 850sx. Cement did not circulate. 1,036' of 1" tubing was run outside of the 5-1/2" casing and Cmt'd to surface w/170 sx. The well was completed in February 1990 as an injection well with the packer set at 3,558.04. The top perf is at 3,678'. This places the packer 119' above the top perforation. From Chaparrals records it appears that once the well was placed on injection in February 1990 it has

never been pulled apart. Chaparral took over operations of the WDQSU on November 1, 2003. The well was placed on Temporary Abandonment Status from Jan 24, 2007 to Jan 24, 2008. Chaparral has tested the flow line to the well and it is in working condition. Chaparral has also noticed that the well appears to have a tubing leak. Chaparral is preparing 3160-5 forms for the BLM to repair this well. During the workover Chaparral will make an attempt to set the packer within 100' of the top perforation, test the annulus and see if the annulus will hold. If the annulus will not hold due to rough casing within 100' of the top perforation Chaparral will have to move the packer to a location where the annulus will hold. Chaparral will not know this until work begins on the well. After the well is repaired and the Mechanical Integrity Testing is complete and approved Chaparral would like to return the well to active injection. See (Attachment E) attached well bore schematic and Well History.

The five question and response scenarios listed above deal directly with the letter of violation referenced above. Hopefully this information will successfully answer the questions raised in the letter of violation. If you have further questions please feel free to contact me at 405-426-4040. Also a response to Chaparral from the State of New Mexico is requested regarding these responses.

Sincerely,

A handwritten signature in black ink that reads "Billy W. Nievar". The signature is written in a cursive, slightly slanted style.

Billy W. Nievar P.E.

KB: 3180.5

DF:

GL: 3169

### Chaparral Energy, L.L.C.

Well: West Dollardhide QSU ,151 ,4087.08  
 Operator: CELLC  
 Location: 429 PSL 550 FWL  
 Legal: Sec 30 T24S R 38E  
 County: Lea, NM  
 LAT/Long: 75 /

Dir:

Spud Date: 7-24-89  
 Drilling Finished: 7-28-89  
 Completion Date: 8-16-89  
 First Production:

#### TUBING #1:

Type	#Jts	Size	Wt#/2	Grade	Set#
Production		2-3/8"	4.7		3537.8

#### HISTORY:

## Attachment D

Size: 12-1/4 8-5/8" ,24 #,J 8416 ,250 ex

Packer#3537.8  
3600'

AD 1

Size: 7-7/8"

3656	-3660	Queen	3
3667	-3682	Queen	3
3688	-3715	Queen	3
3722	-3729	Queen	3
3748	-3750	Queen	3
3755	-3757	Queen	3
3760	-3761	Queen	3
3764	-3766	Queen	3
3779	-3789	Queen	3
3803	-3808	Queen	3

OPBD: 3900'

TD: 3940

5-1/2" ,15.5 #,J 83940 ,1000ex

Input by: Zac Stice  
 Approved by:  
 Last Update: 4/18/2007

29

WELL HISTORY

- 7-10-89 Take down fence on front side of pit and lay water line.
- 7-20-89 Re-condition location and pits.
- 7-21-89 Take delivery of 405.30' of 8-5/8" csg. and inj. Well head.
- 7-24-89 Spud well. Drill to 416'. Ran 11 jts of 8-5/8" csg to 416'. Cmt w/ 250 sx class "C" cmt. Circ 100 sx
- 7-25-89 1747'. Made 1331' in 13.75 hours. WOC & test BOP & csg to 800# for 30 min-okay.
- 7-26-89 3005' made 1258' in 22.5 hrs.
- 7-27-89 3380'. Made 375' in 10.5 hrs
- 7-28-89 3940' TD. Made 560' in 18 hrs. Started running 5-1/2" csg
- 7-29-89 Ran 112 jts of 5-1/2" csg. to 3940'. Displace csg. cmt w/Western 800 sx. Lite and tail w/200 sx. Class "C". Circ 190 sx. ND BOP, set slips and cut off csg.
- 8-4-89 Roustabout crew moved tbg from #137 to #151. Put wellhead on csg. Transport picked up oil & water from location. Set dead man anchors.
- 8-7-89 MIRU pulling unit. Tally and RIH w/2-7/8" workstring. Tag PBT @ 3900'. POH w/tbg and RU wireline and log well. CNI, GR from TD-2000'. GR, CBL, CCL from TD to surface. SION. Load hole w/PW.
- 8-8-89 RU and perf lower Queen formation from 3748-50', 55-57', 60-61', 64-66', 79-89', 3803-3808'. RD perf. SION
- 8-9-89 RIH w/2-7/8" x 5-1/2" treating pkr and tbg. RU and spot acid @ 3808'. PU and set pkr @ 3645' and acidize w/2000 gal 15% HCL-NEFE inhibited acid w/ clay stablizer. Block w/1.3 SG ball sealers (12 balls/ 3 bbls). Flush to bottom perms w/PW. Avg rate 4.7 BPM. Avrg press. 1700#, ISIP 1100#, 5 min 1050#, 10 min 1000#, 15 min 900#. Total load to rec is 96 bbls. SI for 30 min. Open well up and bleed pressure. RU and swab back load. Open bypass on pkr. Swab well dry. POH w/pkr and tbg. Install safety valve and SION.
- 8-10-89 RU and perf Upper Queen zone from 3656-60', 67-82', 88-3715', 22-29' 3 SPF 4" guns 171 holes. RIH and set RBP @ 3740'. PU and set pkr @ 3554'. Test to 1500# -okay. RU and acidize w/ 3500 gal 15% HCL-NEFE acid w/clay stabilizer. Blocking w/216 per gal rock salt & 170 ball sealers (5 balls/ 2bbs). Avg rate 4 BPM, avrg pressure 1400#. Flush to bottom perf w/ PW total fluid rec 151 bbls. ISIP 1100#, 5 min 1050#, 10 min 1000#, 15 min 975#. Had good block action. SI 30 min Open and bleed down. SION
- 8-11-89 Continue swabbing. RIH w/ tbg. Tag fill. RU kill truck and circ off ball sealers. Latch onto RBP & unset. POH and LD tbg a& treating tools. Install safety valve and SION. Empty working pit into reserve.
- 8-14-89 RIH w/2-3/8" x 5-1/2" A-1 tension pkr and 112 jts of 2-3/8" IPC tbg. RU kill truck and pump 100 bbls fresh water w/1 drum of pkr fluid. Set pkr @ 3537.81'. Load and test csg to 500# for 30 min. NU inj wellhead. Complete inj line and tie in. SION
- 8-15-89 Repair inj leaks & hook up inj line. Test line and back @ location. Start injecting w/ 250 BPD @ 500# pressure.
- 8-16-89 Injecting 333 BPD/900#.
- 8-14-11 Found leak in inj line @ header in satellite #2. PU loose fluids w/vacuum truck.
- 8-15-11 Dug up & replaced vic clamp. Tapped & protected new clamp. Returned to inj. Went to WH, cleaned 1" connection & re-tightend. Now taking fluid @ 1150#. Cleaned up satellite w/backhoe.

## Goetze, Phillip, EMNRD

---

**From:** Don Tierney <dtierney@ramenergy.net>  
**Sent:** Thursday, June 23, 2016 12:58 PM  
**To:** Goetze, Phillip, EMNRD  
**Subject:** RAM Energy  
**Attachments:** Letter to NMOCD.pdf

Phillip,

I spoke with you yesterday about getting an amendment to the packer setting depth for Rams West Dollarhide Queen Sand Unit Well No. 008. I have attached a letter asking for the packer depth exception, a well bore diagram and the C-103 for the work to be done. If there is any additional information you need, please contact me at any of the phone numbers listed below.

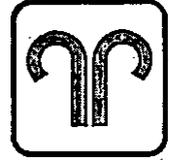
Thanks for your help,

**Don Tierney**  
**Sr. Operations Engineer**  
RAM Energy LLC  
5100 East Skelly Drive  
Suite 600  
Tulsa, OK 74135  
918.947.6310 (Direct)  
918.497.0237 (Cell)  
918.794.3363 (Fax)  
[dtierney@ramenergy.net](mailto:dtierney@ramenergy.net)



# RAM Energy LLC

5100 East Skelly Drive, Suite 600  
Tulsa, Oklahoma 74135  
918.947.6300 Fax 918.794.3363



Mr. Phillip Goetze  
State of New Mexico  
Oil Conversation Division  
1220 South Saint Francis Drive  
Santa Fe, New Mexico 87505

June 23, 2016

RE: West Dollarhide Queen Sand Unit Well No. 008  
2,310' FNL-810' FEL  
Section 30-T24S-R38E  
Lea County, New Mexico  
API # 30-025-12261

Dear Mr. Goetze,

I am writing to you to request an exception to the Underground Injection Control Program Manual 11.6C Packer setting depth rule for the above referenced well. Per our conversation I am sending the WBD and a copy of the approved Form C-103 for the work we have done so far on the well.

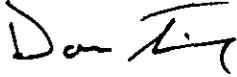
The WDQSU Well No. 008 is a water injection well. RAM Energy acquired the well from Chaparral Energy, L.L.C. effective November 5, 2014. It failed a Bradenhead test this year and RAM Energy was attempting to fix the well. This is the first time RAM tripped the tubing out of the well. On June 17, 2016 when we tripped the tubing out of the well we ruptured five joints of tubing while hydro testing the tubing. While tripping the tubing back in the hole the packer set down at 3,600' (111' above the top perforation). After several attempts to get thru the obstruction we laid one joint down and added a 12" tubing sub and set the packer 3,589' (122' above the top perforation). We loaded the casing annulus and pressure tested to 540 psi. We held the pressure for thirty minutes with no bleed off. We then contacted the NMOCD but could not get ahold of anybody so we rigged the rig down to wait on orders.

RAM is requesting that we are allowed to keep the packer set at 3,589' and put the well back in service after we re-run the Bradenhead test with the NMOCD field inspector out of Hobbs, New Mexico.

If there is any additional information you need please contact me at my office number at 918-947-6310 at extension 6310.

Thank you for your help.

Sincerely,

A handwritten signature in black ink that reads "Don Tierney". The signature is written in a cursive style with a large, sweeping "D" and a stylized "T".

Don Tierney  
Senior Operations Engineer

Submit 1 Copy To Appropriate District Office  
 District I - (575) 393-6161  
 1625 N. French Dr., Hobbs, NM 88240  
 District II - (575) 748-1283  
 811 S. First St., Artesia, NM 88210  
 District III - (505) 334-6178  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV - (505) 476-3460  
 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-103  
 Revised July 18, 2013

**HOBBS OCD**  
**JUN 08 2016**  
**RECEIVED**

WELL API NO. 30-025-12261	<i>Federal</i>
5. Indicate Type of Lease STATE <input type="checkbox"/> BLM <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name West Dollarhide Queen Sand Unit	
8. Well Number 008	
9. OGRID Number 309777	
10. Pool name or Wildcat Dollarhide Queen Sand	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3164' GR	

**SUNDRY NOTICES AND REPORTS ON WELLS**  
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well  Gas Well  Other Injector

2. Name of Operator  
Ram Energy LLC

3. Address of Operator  
6100 E. Skelly Dr., Suite 600 Tulsa, OK 74135

4. Well Location  
 Unit Letter H : 2310 feet from the North line and 810 feet from the East line  
 Section 30 Township 24S Range 38E NMPM Lea County

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK <input checked="" type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Prepare to MIRU work over rig.  
 Determine why well failed Bradenhead test.  
 Repair as needed.  
 Field operations will be conducted using closed loop system.

Per Underground Injection Control Program Manual

11.6 C Packer shall be set within or less than 100

feet of the uppermost injection perfs or open hole. Release Date:

Condition of Approval: notify

OCD Hobbs office 24 hours

prior of running MIT Test & Chart

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE CSwan TITLE: Regulatory Administrator DATE: 06/07/2016

Type or print name Connie Swan E-mail address: CSSwan@swanderlandok.com PHONE: 918 621-6533

For State Use Only

APPROVED BY: Marys Brown TITLE: Dist Supervisor DATE: 6/8/2016  
 Conditions of Approval (if any):

KH:

DF: 3169

GL: - 3164

RAM Energy LLC

Well: WQ050 #8 , #8 , 4087.003#8  
Operator: CELLC  
Location: Lea, NM  
Legal: Sec 30-255-38E  
County: Lea, NM  
LAT/Long: /

10 3/4 , 28.52#, @285 , 225 sz

TOC@ 1210'

Topped off 4 1/2 & 7" w/ 118 sx from 1078

Dir:

Spud Date: 10/29/87  
Drilling Finished:  
Completion Date: 11/17/87  
First Production:

Size: 8 3/4

3500'

HISTORY:

1954 - well completed OH 3674-3741'  
1987/88 - well deepened & 4.5" csg set @4026'

4/1988 Start Inj 29-April-88. 400 BWPD @ 800# surface  
prcs. permitted for 400 BWPD @ 850# 5/5/88

Packers: 3,589'

7 , 20&17#, @3674 , 2050sz

3711 -3724 Queen  
3728 -3732 Queen  
3734 -3742 Queen  
3752 -3758 Queen

3784 -3791 Queen

3819 -3823 Queen

3840 -3844 Queen

Size: 6 1/8

TD: 4026

4 1/2 , 10.5 #, J-55 @4026 , 970 sz

Input by:  
Approved by:  
Last Update:

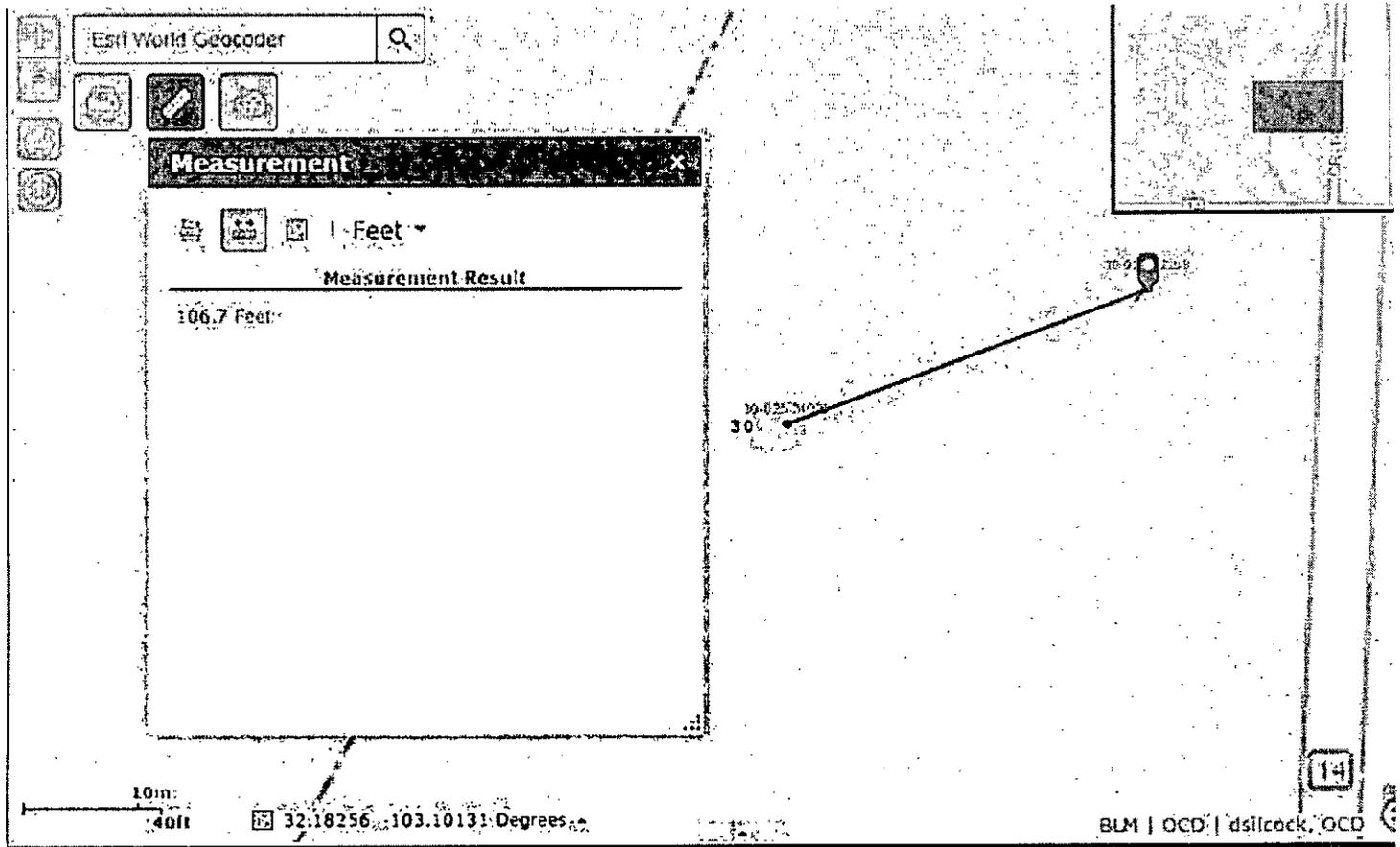
**Goetze, Phillip, EMNRD**

**From:** Travis White <TWhite@whiterockog.com>  
**Sent:** Monday, November 16, 2015 11:36 AM  
**To:** Goetze, Phillip, EMNRD  
**Subject:** White Rock Oil & Gas, LLC - Offset Injection Well

Mr. Goetze,

*N/30/24S 38 E 430 FSL / 2210 FWL*

It was a pleasure speaking with you earlier. Per our conversation on the phone, I'm contacting you in regard to our Vance 30-1 (API # 30-025-24020) well which is seeing bradenhead pressure caused by the offset injection well shown below:



Here is the pertinent information for the injection well in question:

**Well Summary****Report a Problem**

API:	30-025-12268	Old API:	
Current Lease Name:	WEST DOLLARHIDE QUEEN SAND UNIT		
Well #:	020		
County:	LEA		
Survey:	S:30, T:24S, R:38E		
Footage Information:	467' FSL & 2,310' FWL		
Well Name:	WEST DOLLARHIDE QUEEN SAND UNIT 020		
Current Operator:	RAM ENERGY LLC		
Spudded:			
Current Type:	Injector	Current Status:	Injection Well
Total Depth:	3,918	Total Depth Source:	Well Log
Elevation:	3,109	Reference:	GF
<u>Operator History</u>			
<u>Related DI Super Scout Information</u>			

We are concerned about potential liability should this pressure cause a casing leak in our well. We appreciate the OCD's understanding and hope to hear back from you soon in regard to this matter.

Also, I was wondering which day would work best for you if I were to come out there and meet in person. I am free to get out there Wednesday 11/18, Friday 11/20, or Tuesday 11/24. Just let me know what works best for you.

Thanks,

**Travis White**  
 Regulatory Analyst  
**White Rock Oil & Gas**  
 5001 Spring Valley Rd., Ste 100 E  
 Dallas, TX  
 Direct: 214-981-1424  
[TWhite@whiterockog.com](mailto:TWhite@whiterockog.com)



# RAM Energy LLC

5100 East Skelly Drive, Suite 600  
Tulsa, Oklahoma 74135  
918.947.6300 Fax 918.794.3363



RECEIVED OGD

2016 JUL -1 P 2: 55

Mr. Phillip Goetze  
State of New Mexico  
Oil Conversation Division  
1220 South Saint Francis Drive  
Santa Fe, New Mexico 87505

June 23, 2016

RE: West Dollarhide Queen Sand Unit Well No. 008  
2,310' FNL-810' FEL  
Section 30-T24S-R38E  
Lea County, New Mexico  
API # 30-025-12261

Dear Mr. Goetze,

I am writing to you to request an exception to the Underground Injection Control Program Manual 11.6C Packer setting depth rule for the above referenced well. Per our conversation I am sending the WBD and a copy of the approved Form C-103 for the work we have done so far on the well.

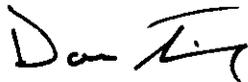
The WDQSU Well No. 008 is a water injection well. RAM Energy acquired the well from Chaparral Energy, L.L.C. effective November 5, 2014. It failed a Bradenhead test this year and RAM Energy was attempting to fix the well. This is the first time RAM tripped the tubing out of the well. On June 17, 2016 when we tripped the tubing out of the well we ruptured five joints of tubing while hydro testing the tubing. While tripping the tubing back in the hole the packer set down at 3,600' (111' above the top perforation). After several attempts to get thru the obstruction we laid one joint down and added a 12' tubing sub and set the packer 3,589' (122' above the top perforation). We loaded the casing annulus and pressure tested to 540 psi. We held the pressure for thirty minutes with no bleed off. We then contacted the NMOCD but could not get ahold of anybody so we rigged the rig down to wait on orders.

RAM is requesting that we are allowed to keep the packer set at 5,589' and put the well back in service after we re-run the Bradenhead test with the NMOCD field inspector out of Hobbs, New Mexico.

If there is any additional information you need please contact me at my office number at 918-947-6310 at extension 6310.

Thank you for your help.

Sincerely,

A handwritten signature in black ink, appearing to read "Don Tierney". The signature is written in a cursive style with a prominent horizontal line above the letters.

Don Tierney  
Senior Operations Engineer

Submit 1 Copy To Appropriate District Office  
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 District II - (575) 748-1283  
 811 S. First St., Artesia, NM 88210  
 District III - (505) 334-6178  
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 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

HOBBS OCD

JUN 08 2016

RECEIVED

Form C-103  
 Revised July 18, 2013

WELL API NO. <b>30-025-12261</b>	Federal
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/> BLM <input checked="" type="checkbox"/>	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name <b>West Dollarhide Queen Sand Unit</b>	
8. Well Number <b>008</b>	
9. OGRID Number <b>309777</b>	
10. Pool name or Wildcat <b>Dollarhide Queen Sand</b>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <b>3164' GR</b>	

**SUNDRY NOTICES AND REPORTS ON WELLS**  
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well  Gas Well  Other  **Injector**

2. Name of Operator  
**Ram Energy LLC**

3. Address of Operator  
**6100 E. Skelly Dr., Suite 600 Tulsa, OK 74135**

4. Well Location  
 Unit Letter H : 2310 feet from the North line and 810 feet from the East line  
 Section 30 Township 24S Range 38E NMPM Lea County

**12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data**

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input checked="" type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
DOWNHOLE COMMINGLE <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>
CLOSED-LOOP SYSTEM <input type="checkbox"/>	OTHER: <input type="checkbox"/>
OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Prepare to MIRU work over rig.  
 Determine why well failed Bradenhead test.  
 Repair as needed.  
 Field operations will be conducted using closed loop system.

**Per Underground Injection Control Program Manual**

**11.6 C Packer shall be set within or less than 100 feet of the uppermost injection perfs or open hole.**

**Condition of Approval: notify  
 OCD Hobbs office 24 hours**

**prior of running MIT Test & Chart**

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE CSwan TITLE Regulatory Administrator DATE 06/07/2016

Type or print name Connie Swan E-mail address: CSSwan@swanderlandok.com PHONE: 918 621-6533

APPROVED BY: Mary Brown TITLE Dist Supervisor DATE 6/8/2016

Conditions of Approval (if any):

"Revised"

KB:

DF: 3169

GL: - 3164

RAM Energy LLC

Well: W0QSU #8 , #8 , 4087.003#8

Operator: CELLC

Location: Lea, NM

Legal: Sec 30-25S-38E

County: Lea, NM

LAT/Long:

10 3/4 , 28.52# , @285 , 225 sx

TOC@ 1210'

Topped off 4 1/2 & 7" w/ 118 sx from 1078

Dir:

Spud Date: 10/29/87

Drilling Finished:

Completion Date: 11/17/87

First Production:

Size: 8 3/4

3500'

**HISTORY:**

1954 - well completed OH 3674-3741'

1987/88 - well deepened & 4.5" csg set @4026'

4/1988 Start Inj 29-April-88. 400 BWPD @ 800# surface pres. permitted for 400 BWPD @ 850# 5/5/88

Packer@ 3,589'

7 , 20&17# , @3674 , 2050sx

3711	-3724	Queen
3728	-3732	Queen
3734	-3742	Queen
3752	-3758	Queen

3784 -3791 Queen

Size: 6 1/8

3819 -3823 Queen

3840 -3844 Queen

TD: 4026

4 1/2 , 10.5 # , J-55 @4026 , 970 sx

Input by:

Approved by:

Last Update:

1011

KB:

DF: 3169

GL: 3164

**Chaparral Energy, L.L.C.**

Well: WDQSU #8 , #8 , 4087.00  
Operator: CELLC  
Location: Lea, NM  
Legal: Sec 30-25S-38E  
County: Lea, NM  
LAT/Long: /

Dir:

Spud Date: 10/29/87

Drilling Finished:

Completion Date: 11/17/87

First Production:

**TUBING #1:**

Type	#Jts	Size	Wt#/f	Grade	Set@
IPC w/ TK69	116	2 3/8	4.7		3620

**HISTORY:**

1954 - well completed OH 3674-3741'

1987/88 - well deepened & 4.5" csg set @4026'

4/1988 Start Inj 29-April-88. 400 BWPD @ 800#-surface pres. permitted for 400 BWPD @ 850# 5/5/88

TOC@ 1210'

Topped off 4 1/2 & 7" w/ 118 sx from 1078

Size: 8 3/4

3500'

Packer@3620

7 ,20&17#, @3674 ,2050sx

3711 -3724 Queen

3728 -3732 Queen

3734 -3742 Queen

3752 -3758 Queen

3784 -3791 Queen

3819 -3823 Queen

3840 -3844 Queen

Size: 6 1/8

ID: 4026

4 1/2 ,10.5 #, J-55 @4026 ,970 sx

Input by: Traci

Approved by:

Last Update: 04/08/10