

ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]  
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication  
 NSL  NSP  SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement  
 DHC  CTB  PLC  PC  OLS  OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
 WFX  PMX  SWD  IPI  EOR  PPR
- [D] Other: Specify SWD-486
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or  Does Not Apply
- [A]  Working, Royalty or Overriding Royalty Interest Owners
- [B]  Offset Operators, Leaseholders or Surface Owner
- [C]  Application is One Which Requires Published Legal Notice
- [D]  Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E]  For all of the above, Proof of Notification or Publication is Attached, and/or
- [F]  Waivers are Attached

- IPI  
 - Harvard Petroleum Company, LLC  
 10155  
 we4  
 - James Federal #1  
 30-025-31515  
 Pool  
 - SWD, Delaware  
 96100

2015 JAN 13 A 10:19  
 RECEIVED OOD

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Jeff Harvard		President	10/30/14
Print or Type Name	Signature	Title	Date
		jharvard@hpcnm.com	
		e-mail Address	

**Step Rate Test**



**Cardinal Surveys Company**

**21-Oct-14**

**Harvard Petroleum Corporation**

**Well: James Fed No. 1**

**Field;**

**County: Eddy County, New Mexico**

**SC70628**

**File No. 21933**

**FINAL RATE @ 11,480 BPD, SURFACE 3,715 PSI, NO PARTING PRESSURE**

**Downhole PSI Tool Ser. No. CSC2604**  
**Surface PSI Gauge Ser. No. CSC 2701**  
**Tool @ 4,874'**

	<b>Start</b>	<b>End</b>	<b>Rate</b>	
1	11:15 AM	3:30 PM	0	4,874
2	3:30 PM	4:00 PM	1440	
3	4:00 PM	4:30 PM	2160	
4	4:30 PM	5:00 PM	2880	
5	5:00 PM	5:30 PM	4320	
6	5:30 PM	6:00 PM	5720	
7	6:00 PM	6:30 PM	8600	
8	6:30 PM	7:00 PM	11480	
9	7:00 PM	7:15 PM	<b>0 15 MIN. FALL OFF</b>	
10				
11				
12				
13				
14				
15				
16				
17				
18				

**Step Rate Test**  
**21-Oct-14**

**Harvard Petroleum Corporation**  
**Well: James Fed No. 1**  
**Field:**  
**Location: Eddy County, New Mexico**

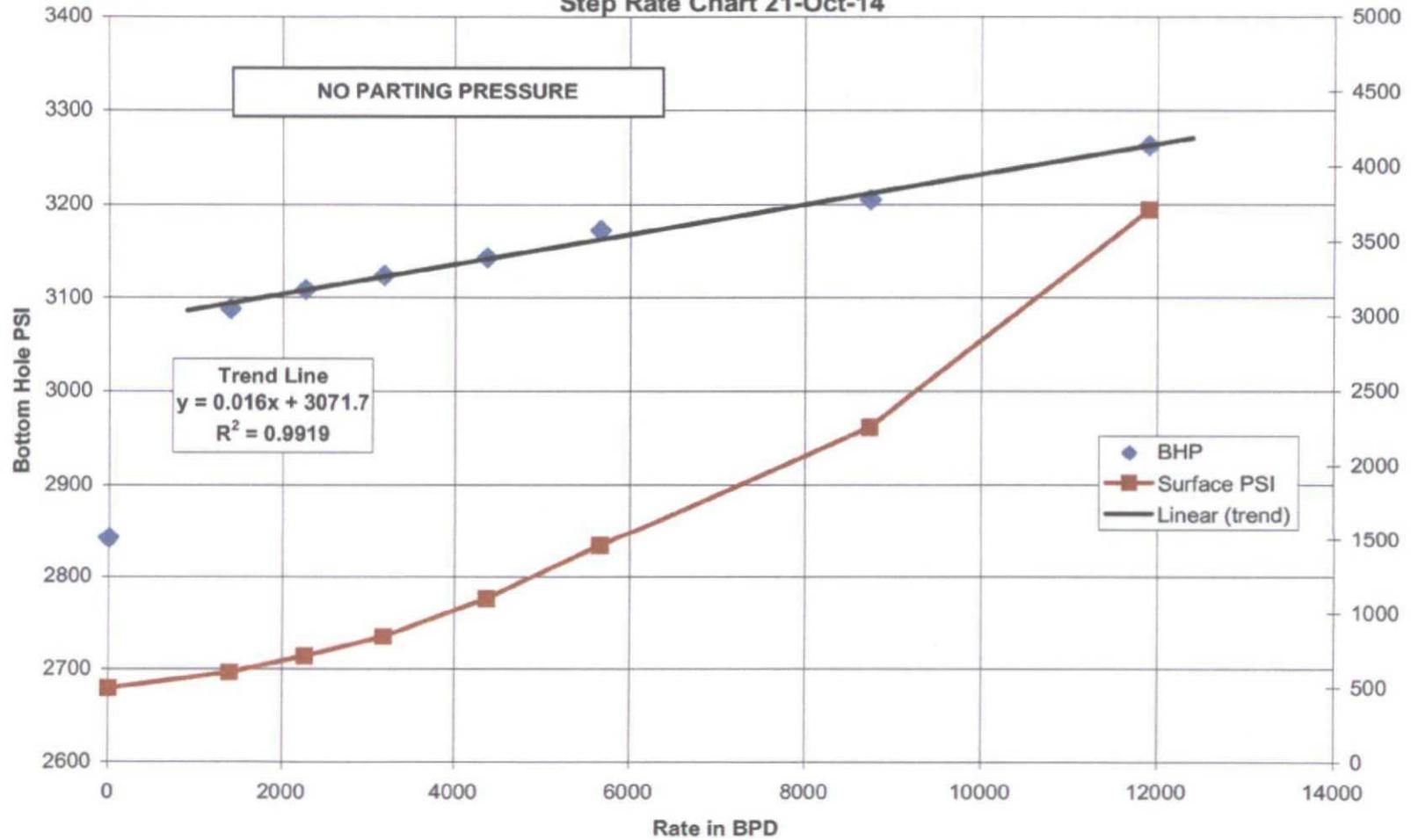


	S Time	E Time	D Time Min	Last Rate BPD	Step BPD	BHP PSIA	Surf PSIA	Cum BBL	Delta BBL	Avg. BPD	Lower Trend	Upper Trend
1	11:15 AM	3:30 PM	255	0	0	2842.5	500	0	0	0		
2	3:30 PM	4:00 PM	30	1440	1440	3087.5	606	29	29	1392	0	
3	4:00 PM	4:30 PM	30	2160	720	3108.6	715	76	47	2256		
4	4:30 PM	5:00 PM	30	2880	720	3123.6	845	142	66	3168		
5	5:00 PM	5:30 PM	30	4320	1440	3143.3	1100	233	91	4368		
6	5:30 PM	6:00 PM	30	5720	1400	3172.1	1460	351	118	5664		
7	6:00 PM	6:30 PM	30	8600	2880	3205.3	2260	533	182	8736		
8	6:30 PM	7:00 PM	30	11480	2880	3262.5	3715	781	248	11904		
9	7:00 PM	7:15 PM	15	0	0	3188.1	900	781	0	0		
10												
11												
12												
13												
14												
15												
16												

upper trend  
lower trend  
Intersect #DIV/0! BPD  
BHP PSI #DIV/0! PSIA

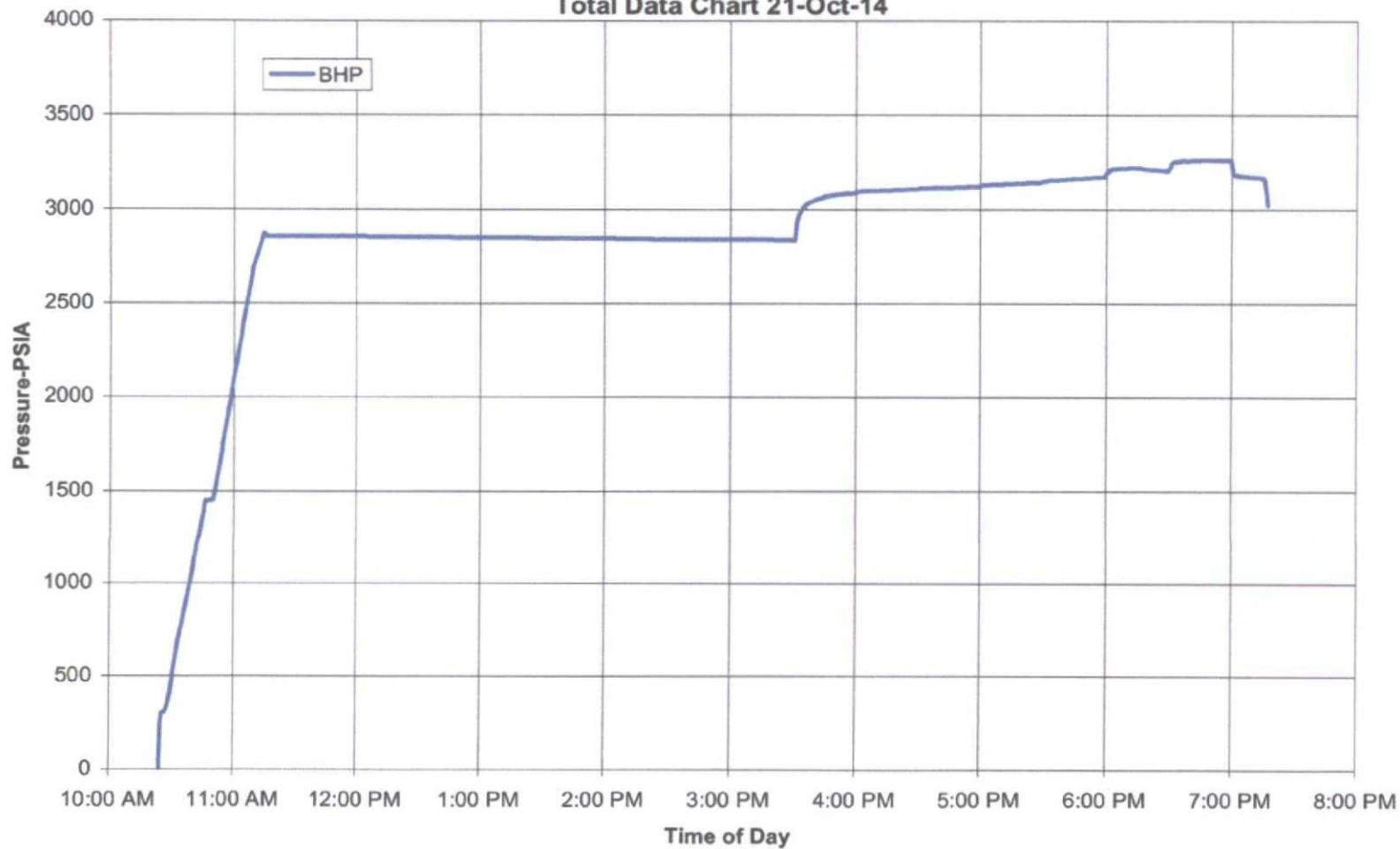


Harvard Petroleum Corporation  
James Fed. No. 1 SWD  
Step Rate Chart 21-Oct-14





Harvard Petroleum Corporation  
James Fed. No. 1 SWD  
Total Data Chart 21-Oct-14



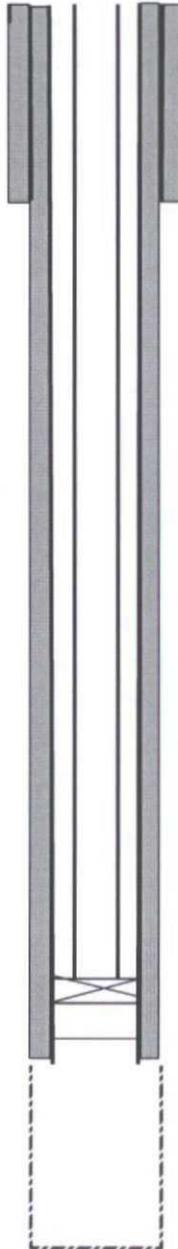


# Harvard Petroleum Company, LLC

## Wellbore Diagram

Well Name: **James Federal #1**  
Field: **W. Triste Draw, Delaware**  
API: **30-025-31515**

Spud Date: **02/19/92**  
Completion Date:  
Last Update: **12/04/14**



**Surface:** 12 1/4" hole, 8 5/8" 24# K55 at 654'  
cmt w/ 400 sx C +2% CaCl, circ 170 sx to pit

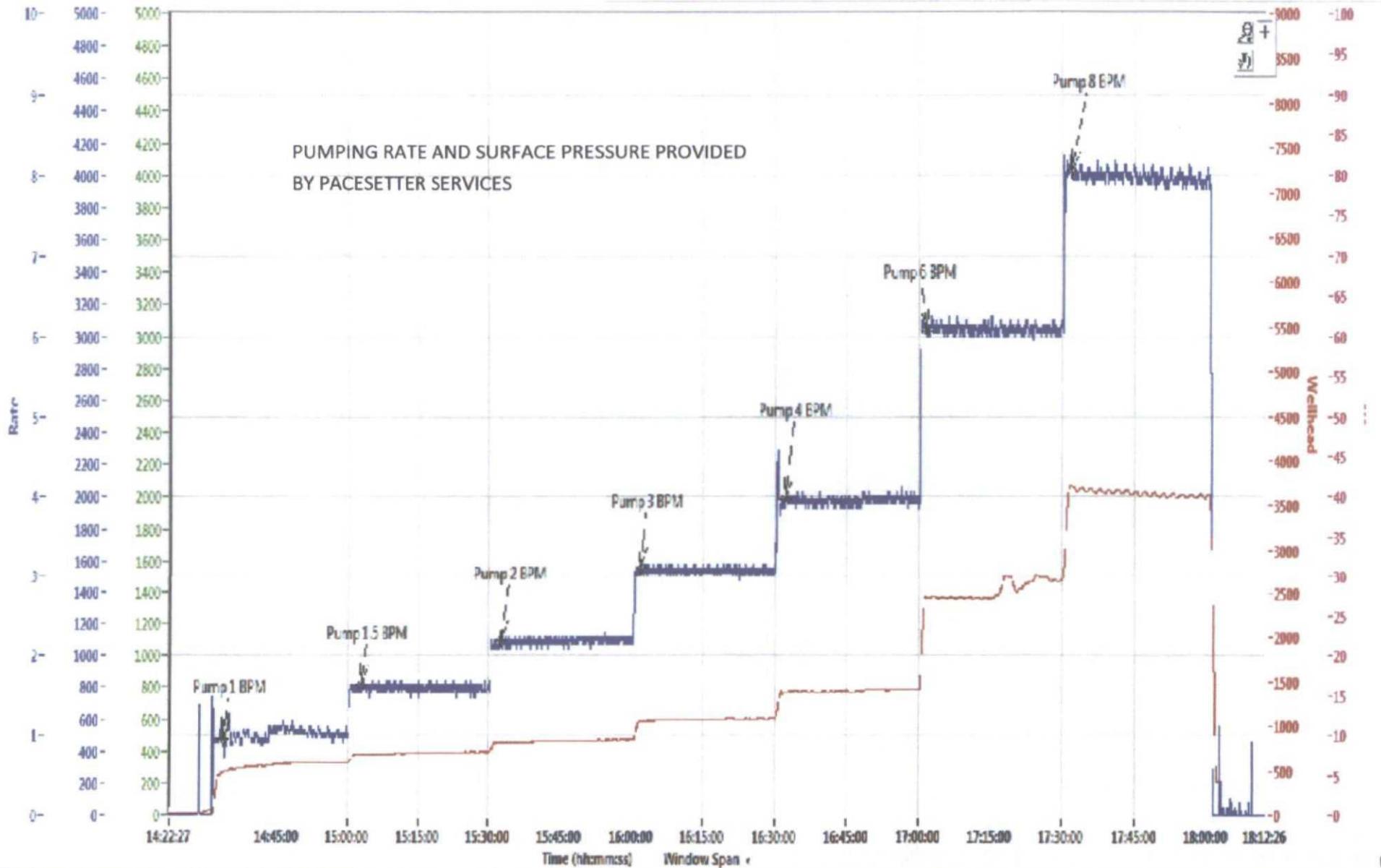
**Production:** 7 7/8" hole, 5 1/2" 17# K55 at 4844'  
cmt w/ 100 sx C w 2% CaCl, TOC @ 4215' CBL

**Tbg and Pkr:** (150) jts, (1) 8' sub, (1) 10' sub 3-1/2" J55 plastic coated tbg  
w nickel coated Arrow Set 1X Packer at 4769'

**End of Casing at 4844'**

**Open Hole TD - 6160'**

0.0 0.0 0.0 17.4 NaN



Refresh Graph

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2014.

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
NM-0559539

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well

Oil Well     Gas Well     Other SWD

8. Well Name and No.

James Federal #1

2. Name of Operator

Harvard Petroleum Company, LLC

9. API Well No.

30-025-31515

3a. Address

PO Box 936, Roswell, NM 88202

3b. Phone No. (include area code)

575-623-1581

10. Field and Pool or Exploratory Area  
W. Triste Draw, Delaware

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Unit O, 810' FSL & 1830' FEL, Sec 29-T23S-R32E NMPM

11. County or Parish, State  
Lea Co., NM

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Step Rate Pressure _____
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	Test Results _____

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

10/20/14 Performed a step rate injection test with Cardinal Surveys Company. See attached test report and results.

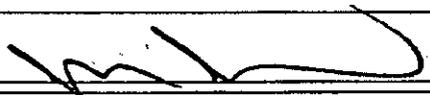
The test results indicate no parting at the last rate of 11480 BPD with a surface pressure of 3715 psi. Therefore request an increase in the NMOCD SWD-486 surface wellhead pressure to no more than 3715 psi.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Jeff Harvard

Title Manager

Signature



Date 10/30/2014

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)



October 30, 2014

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

Subject: Subsequent report of step rate test results & application

Dear Oil Conservation Division:

This letter is to provide you with notification and documentation for the following wells:

- James Federal #1 30-025-31515
- Poker Lake St #1 30-015-04744

Enclosed for each well is the C-103 Subsequent Report of: Step rate pressure test results, Step Rate Test performed by Cardinal Survey Company and an Administrative Application for injection pressure rate increase.

If you have any questions, please do not hesitate to contact me at [jharvard@hpcnm.com](mailto:jharvard@hpcnm.com) or 575-208-7135.

Regards,

Harvard Petroleum Company

Jeff Harvard  
 Managing Member

Enclosures

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	A. Signature X _____ <input type="checkbox"/> Agent <input type="checkbox"/> Addressee	B. Recipient's Print Name _____
1. Article Addressed to:  <i>State of New Mexico            Oil Conservation Division            1220 South St Francis Dr.            Santa Fe NM 87505</i>	C. Date of Delivery _____	D. Is delivery address different from item 1? If YES, enter delivery address below: _____
2. Article Number (Transfer from service label)	3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D. 4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	

PO Box 93  
 Office 575-62

7010 1870 0002 4550 5685

PS Form 3811, August 2001

Domestic Return Receipt

102595-02-M-103



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION



BRUCE KING  
GOVERNOR  
  
ANITA LOCKWOOD  
CABINET SECRETARY

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
15051827-5800

*AMENDED ADMINISTRATIVE ORDER SWD-486*

**APPLICATION OF HARVARD PETROLEUM CORPORATION FOR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO.**

**ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION DIVISION**

Under the provisions of Rule 701(B), Harvard Petroleum Corporation made application to the New Mexico Oil Conservation Division on July 28, 1994, for permission to complete for salt water disposal its James Federal Well No. 1 located 810 feet from the South line and 1830 feet from the East line (Unit O) of Section 29, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico.

**THE DIVISION DIRECTOR FINDS THAT:**

- (1) The application has been duly filed under the provisions of Rule 701(B) of the Division Rules and Regulations;
- (2) Satisfactory information has been provided that all offset operators and surface owners have been duly notified;
- (3) The applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 will be met; and
- (4) No objections have been received within the waiting period prescribed by said rule.

**IT IS THEREFORE ORDERED THAT:**

The applicant herein, Harvard Petroleum Corporation is hereby authorized to complete its James Federal Well No. 1 located 810 feet from the South line and 1830 feet from the East line (Unit O) of Section 29, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico, in such manner as to permit the injection of salt water for disposal purposes into the Bell Canyon (Delaware) formation at approximately 4844 feet to 6160 feet through 2 3/8-inch plastic-lined tubing set in a packer located at approximately 4800 feet.

**IT IS FURTHER ORDERED THAT:**

The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

Prior to commencing injection operations into the well, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing, or packer.

The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well to no more than 969 psi.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the Bell Canyon (Delaware) formation. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Hobbs district office of the Division of the date and time of the installation of disposal equipment and of the mechanical integrity test so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Hobbs district office of the Division of the failure of the tubing, casing, or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

**PROVIDED FURTHER THAT,** jurisdiction of this cause is hereby retained by the Division for the entry of such further order or orders as may be deemed necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of the operator to conduct operations in a manner which will ensure the protection of fresh water or in a manner inconsistent with the requirements set forth in this order, the Division may, after notice and hearing, terminate the injection authority granted herein.

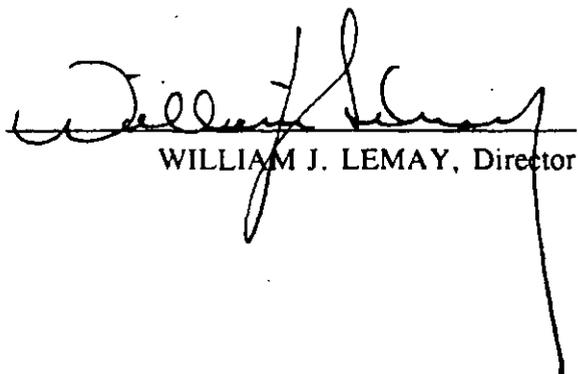
The operator shall submit monthly reports of the disposal operations in accordance with Rule Nos. 706 and 1120 of the Division Rules and Regulations.

*Amended Administrative Order SWD-486*  
*Harvard Petroleum Company*  
*August 25, 1994*  
*Page 3*

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The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject well, provided however, the Division, upon written request by the operator, may grant an extension thereof for good cause shown.

Approved at Santa Fe, New Mexico, on this 25th day of August, 1994.

  
WILLIAM J. LEMAY, Director

WJL/BES/amg

xc: Oil Conservation Division - Hobbs  
US Bureau of Land Management - Carlsbad

# Amended SWD-486/James Federal No. 1 - IPI Application - SRT 2014 Results

Administratively approved for 969 psi;  
 No apparent formation parting pressure in results; final surface pressure of 3715 psi for 8 BPM into 1316-foot open-hole interval;  
 Gradient: 3715 psi/4844 ft = 0.77 psi/ft  
**Recommended maximum surface injection pressure be the prior surface pressure measurement of 2260 psi;**  
 Gradient: 2260 psi/4844 ft = 0.47 psi/ft

