

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 87240
District II
811 South First, Artesia, NM 87210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised March 25, 1999

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505

WELL API NO.	30-039-20460
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>	
6. State Oil & Gas Lease No.	
7. Lease Name or Unti Agreement Name Jicarilla 30	
8. Well No.	5
9. Pool name or Wildcat SWD; MESAVERDE	
10. Elevation (Show whether DR, RKB, RT, GR, etc.) 6855	

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 ☐ OtherSWD

2. Name of Operator
ConocoPhillips Company

3. Address of Operator P. O. Box 2197, WL3 6106 Houston TX 77252

4. Well Location
Unit Letter B : 800 feet from the North line and 1850 feet from the East line
Section 32 Township 25N Range 4W NMPM County Rio Arriba

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐
OTHER: Step Rate Test ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOBS ☐
OTHER: ☐

12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting and proposed work). SEE RULE 1103. For Multiple Completions: Attach diagram of proposed completion or recompletion.

ConocoPhillips Company proposes to perform a new step rate test on the above-mentioned well as per the attached procedure.

NOTIFY AZTEC OGD
IN TIME TO WITNESS

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

SIGNATURE Yolanda Perez TITLE Sr. Regulatory Analyst DATE 08/13/2003

Type or print name Yolanda Perez

(This space for State use)

APPROVED BY Charles TITLE _____ DATE _____

Conditions of approval, if any:

NOTIFY AZTEC OGD
IN TIME TO WITNESS

DEPUTY OIL & GAS INSPECTOR, DIST. 40

AUG 18 2003

Telephone No. (832)486-2329

CONOCOPHILLIPS PROCEDURE TO STEP RATE TEST THE JICARILLA 30 – 5 SALT WATER DISPOSAL WELL

Well Name: Jicarilla 30 –5 **API#** 30-039-2046000

Location: SE, 800' FNL & 1850 FEL, Sec 32 – T25N-R4W
Latitude: 36° 21' 40.932" North
Longitude: 107°, 16', 21.216" West

Status: The current surface injection pressure limitation as per the EPA is 934 psig. At current pressures, we are able to inject approximately 2 bowpd. At current injection rates, this SWD is not economic and may need to be plugged and a new injection well established nearby. During the initial step rate test for this well, the injection zones were tested in two intervals. As a result of the initial test, surface pressure limitations were set at the limit of 934 psig. Based on injection history, it is assumed that pore pressure around the wellbore has increased significantly to more than 3200 psi. The higher pore pressure will cause the parting pressure of the reservoir rock to increase. This project is to perform a new step rate test on the injection interval, and to seek approval from the EPA for an increased pressure allowance to salvage the well.

Summary of proposed work: Shut down injection facility for at least 24 hours prior to performing test. MIRU pump truck (and possibly extra water tanks) and perform a new step rate test to determine the current reservoir parting pressure.

KB Elev: 6423
TD: 7478 (before P&A of lower zone)

GL Elev: 6855
PBTD: 6406

Current Injection Zones: MesaVerde

Existing Casing, Tubing and Packer Information

	OD (in)	Depth (ft)	ID (inches)	Weight (#/ft)	Grade
Surface	8.6	244	8.1	24	k-55
Production	4 1/2	7478	4.050	10.5	k-55
Tubing (plastic coated)	2 3/8	4618	1.995	4.7	j-55
Baker plastic coated AD-1 packer	4	4616	2.375		

MAXIMUM ANTICIPATED STIMULATION SURFACE TREATING PRESS: 5000#

Required Equipment: Pump truck w/ pressure monitoring equipment, flowback equipment

Safety

Safe operations are of utmost importance at all ConocoPhillips properties and facilities. To further this goal, the Project Lead and/or rig Toolpusher at the location shall conduct tailgate safety meetings prior to initiation of work, following each change in tour (to review all operations projected during the tour), and also prior to any critical operations. These tailgate safety meetings shall be attended by all Company, contract and service personnel then present at the location. All parties shall review proposed upcoming steps, procedures and potentially hazardous situations. Occurrence of these meetings shall be recorded in the Daily Report.

All personnel arriving on location shall check in with the Project Lead or rig toolpusher. Safety glasses, hard hats and hard-soled shoes will be worn on location.

No Smoking is allowed on location. The Project Lead will set up a designated smoking area. No individual should have matches, lighters, pipes, cigarettes, or cigars on his person within 75 feet of the well.

Rig area shall be posted with no-smoking signs.

All practices and guidelines contained in the ConocoPhillips Well Control Manual are to be followed unless written exceptions are provided. Note: Wells capable of flowing less than 500 MCFD (Category 1) to atmosphere will require one untested barrier, those wells capable of flowing between 500 MCFD and 3000 MCFD (Category 2) to atmosphere will require two untested or one tested barrier, per the ConocoPhillips Well Control Manual.

Emergency/helicopter response information is attached, including driving directions.

Pre-job Planning

Notify Operator. Operator Name: Vincent Veneno Phone #: (505) 320-0486
 Oper Supv: Terry Bowker Phone #: (505) 599-3448

Notify Operator prior to commencing any work, and after job is completed. Ensure lockout/tagout procedure is followed. If well on plunger lift, ensure timing on plunger capture. Also, if air being used, inform Operator to check oxygen content before putting well back on production. Coordinate any required facility work being done in conjunction with workover.

Contact Procedure Engineer (Tim Tomberlin). Review procedure and call production engineer to discuss as needed. Maintain good communication with engineer on cost, safety, and/or any operational issues.

Coordinate delivery/availability of additional associated equipment. Specific additional equipment needs may include:

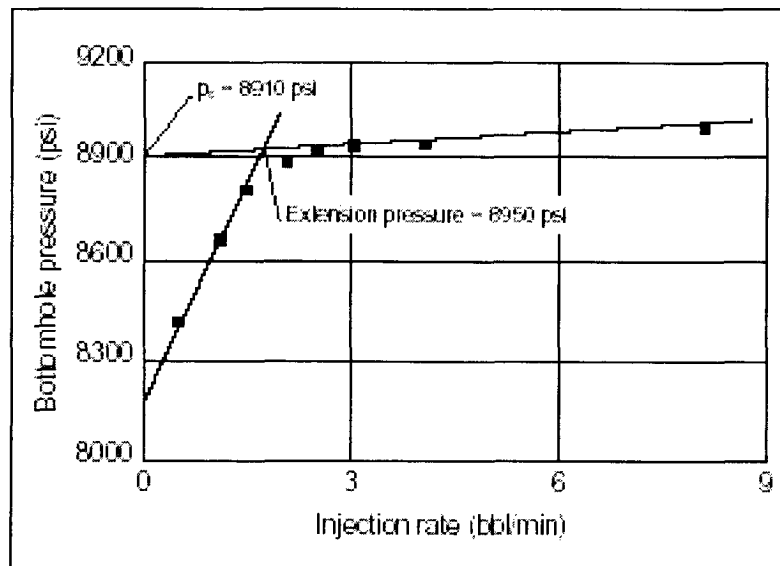
- a. **Pump Truck capable of monitoring low rates (<10 bpm),**
- b. **Surface Pressure recording / monitoring equipment,**
- c. **High-pressure flowmeter for monitoring flowback, and**
- d. **A variable choke for flowback control.**

Rig anchor check/rig placement planning. Ensure Pusher coordinates. **Check all anchors prior to moving in rig.** Verify one-call made within 10 days of rig-up for pit work. **Date last rig-work done on well:** April 19, 2002

Verify data on Helicopter/emergency response plan attached. Validate category of well as per Well Control Manual.

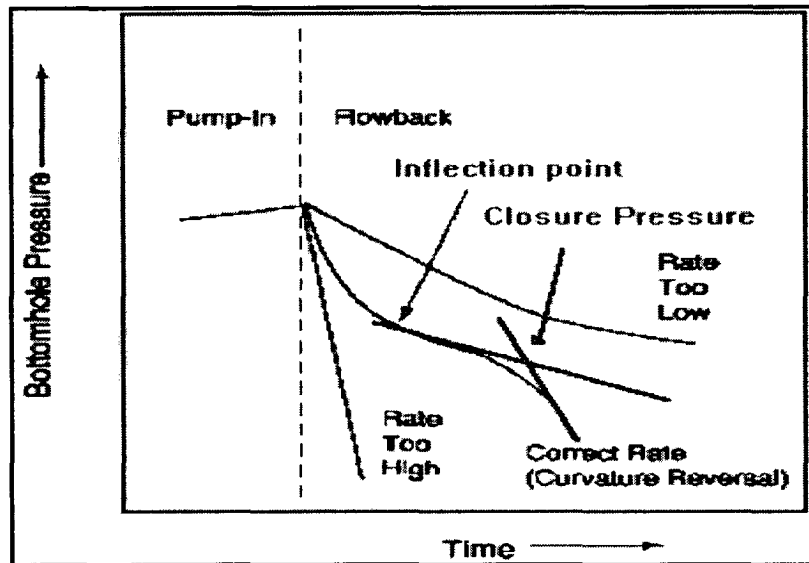
PROCEDURE:

1. Ensure that well is shut in, energy isolated, locked and tagged out at least 24 hours prior to moving in with pump truck.
2. MI & RU pump truck and flowback equipment (project lead is responsible for all safety meetings).
3. Establish constant and consistent communication w/ Houston during Test.
4. Begin pumping clean produced water (S.G. 1.01) into the perforations at 1/2 BPM. This initial volume pumped should be equal to the calculated volume down to the perforations, in order to have a clear value of the hydrostatic pressure at the injection level.
5. Continue increasing the injection rate in small BPM increments (The recommended rates are 0.5, 0.75, 1, 2, 3, 4, 6, 8, 10 or the minimum rate given by the pumping unit). Each step should be maintained the same amount of time (i.e., the time required for the pumps to change and maintain a constant rate and the pressure to be recorded, recommended 30 minutes to ensure wellbore storage is flushed).
6. Graph Injection Rate (X-axis) vs. Pressure (Y-axis). Maintain the pumping until a clear change in slope of the Rate-Pressure curve occurs. Take at least five steps beyond the break point before concluding the test.

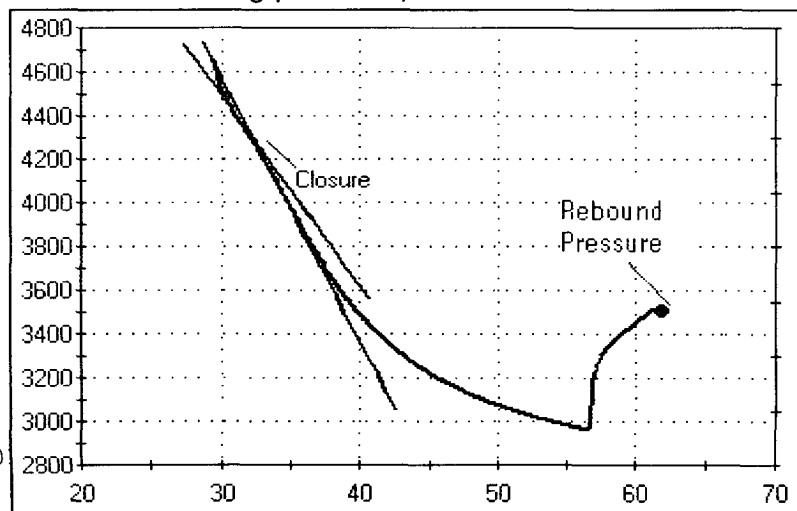


7. Record the pressure and rate information digitally (every second).

8. Flow back should start immediately after the step-rate test. Set Flowback rate approximately at 1/6 to 1/4 of last rate in step rate test, employ a high-pressure flowmeter to ensure a constant rate (the use of a variable choke and a visual display of the flow is recommended to continuously monitor the flow rate and to make any needed changes).
9. Plot Injection Rate (X-axis) vs. Pressure (Y-axis). Be sure that the correct Flowback rate is obtained (look for a inflection point)



10. Continue the flowback and recording pressure until BHP approximately 200 psi above initial Pw. (Use a S.G. of 1.01 for the BHP calculations , consult w/ Houston Staff on Pw and BHP calcs).
11. After the desired pressure is reached, start pumping back at the same rate of last step in step rate test; keep pumping for 5-10 minutes.
12. Flow back should start immediately after the pump in test. Set Flowback rate approximately at 1/6 to 1/4 of the last rate pumped. The pressure decline for this second test is limited to obtain a rebound pressure. The rebound pressure is the near constant pressure that occurs (following a short period of increasing pressure) after shut-in of the flowback test.*



13. Continue recording pressure for at least 15 minutes after shutdown. (Communicate the step rate test information to Houston).
14. Strict quality control of the pressure and rate data should be maintained throughout the test, as the information will be presented to the EPA. All step rate test information should be reported to Houston and recorded in detail in Wellview (ASCII file and treatment report should be given in a floppy disk to the Co.Rep.)

It is assumed that Tim Tomberlin and Steve Skinner will be in communication via phone from Houston throughout the test, if not on location).

* The combination of the upper bound estimate of closure pressure from the step rate test, the lower bound of closure pressure determined from the rebound pressure, and the estimate of closure pressure from flow back provides multiple, independent values that establish a firm basis for defining closure pressure.

Engineer:

Tim Tomberlin Production Eng.

Phone contact #:

office: 832-486-2328
Cell: 281-705-9421

Attachments: Wellview skematic
EMERGENCY RESPONSE SHEET

Well Name: **Jicarilla 30-5**
SE, 800' FNL & 1850 FEL, Sec 32 – T25N-R4W
Latitude: 36° 21' 40.932" North
Longitude: 107°, 16', 21.216" West

Prior to each wellsite operation, a pre-job safety meeting should be held with all personnel on location. ConocoPhillips safety requirements, contingency plans, procedures, equipment layout and hook-up, and all other safety concerns should be discussed thoroughly before the job begins in JSA. Additionally, ensure any and all equipment has proper certification, pressure ratings and compliant inspections. Occurrence of PJSA shall be recorded in Wellview

All personnel arriving on location shall check-in with Project Leader or Rig Supervisor. No additional personnel will be allowed on location post-safety meeting after or during operation discussed in safety meeting has commenced.

No jewelry, of any kind, including watches, is allowed on location.

When spotting equipment on location, only one piece of equipments may move at a time with two ground men as spotters required.

No smoking is allowed on location. Rig area shall be posted with no-smoking signs. Additionally, no person may have matches, lighters, pipes cigarettes or cigars on his person while on location. Project Leader will determine if off-location smoking may be permitted during operations. If off-site smoking is allowed, Project Leader will designate and communicate location of smoking area

All practices and guidelines contained in the hPhillips Well Control Manual and hConoco North America Fracturing Standards Manual are to be followed unless prior approved written exceptions are provided.

EMERGENCY RESPONSE INFORMATION

Air Care 1 (see required information below)	911
Ambulance	911
Fire	911
New Mexico State Police	911
San Juan County Sheriff	911
Rio Arriba County Sheriff	(505) 588 - 7271
United States Forest Service	(505) 632 - 2956
Bureau of Land Management	(505) 599 - 6316
N. M. Oil Conservation Division	(505) 334 - 6178
San Juan Regional Medical Center	(505) 325 - 5011

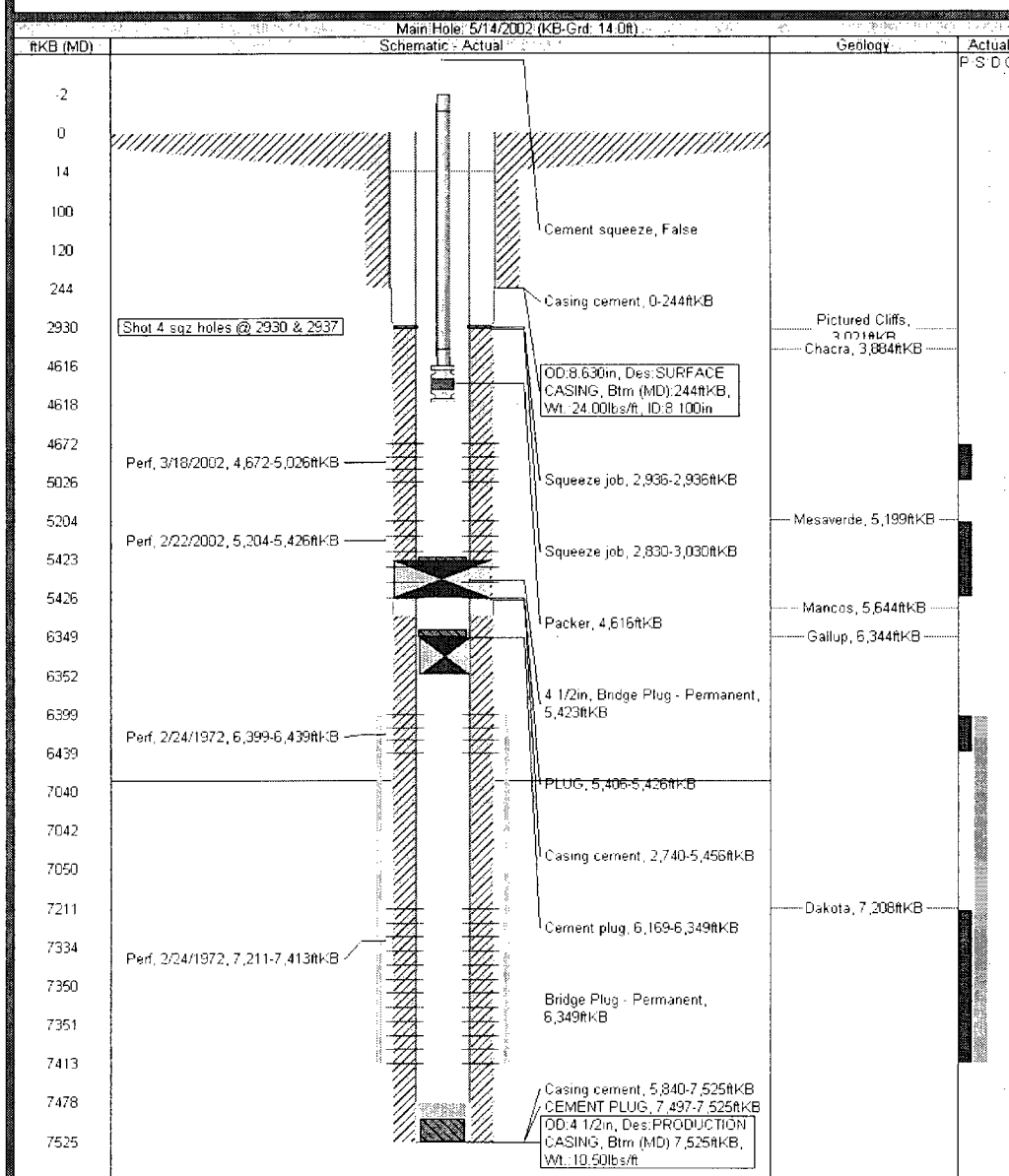
Required Information for Air Care 1

1. Your name
2. Company Name.
3. Cellular number or 2-way radio frequency of someone at the scene.
4. Wind direction and weather conditions at the scene.
5. Type of landing site (location, road, etc.) and any obstacles at landing site.
6. Location in degrees and minutes (above and cover page).
7. Location of scene in relation to landing site (approximate distance and direction).
"Scene is approximately _____ feet in a _____ direction from landing site"
8. Number and condition of injured persons and type of injuries.
9. Condition of location (do hazards still exist?).

JICARILLA 30-5

Current Schematic

API#	Field Name	Area	Operator	County	State/Province
300392046000	WEST LIBERTY GALLUP/PIKOTA	SOUTH		RIO ARriba	NEW MEXICO
KB Elevation (ft)	Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Grnd Distance (ft)	KB-Casing Flange Distance (ft)	Spud Date
6869.00	6855.00	0.00	14.00	6869.00	2/1/1972



CONTRACTORS

SERVICE COMPANY	CONTACT	PHONE
Downhole Service Center	Gene Rongacre	327-5449
Schlumberger	Diego Reyes	325-5096
Baker- Packers, Plugs	Gary Cleaver	325-0216
Baker Fishing Tools	Doug Bower	327-3266
B&R Wireline	Bill Bean	325-2393
Key Energy	Larry Lewis	327-4935
BJ Services	Dispatcher	327-6222
Blue Jet	Danny Seip	325-5584
Energy Air	Al Walker	634-0113/330-2963(c)
Key (water hauling)	H.C. Putnam	327-0416/486-2100(c)
Synergy	Glen Papp	330-1582(c)/327-8798(p)
Oil Conservation Division		334-6178
San Juan Fire Dispatch	Dispatch	334-6622