

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED  
OMB NO. 1004-0137  
Expires: March 31, 2007Lease Serial No.  
NMSF0803791a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Otherb. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Reserv.

Other \_\_\_\_\_

2. Name of Operator  
ConocoPhillips Co.3. Address  
P.O. Box 2197, WL3-6085 Houston Tx 772523.a Phone No. (Include area code)  
(832)486-2463

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*

At Surface Sec 7 T29N R6W NENW 400FNL 2620FWL

At top prod. interval reported below

At total depth

14. Date Spudded  
12/07/200515. Date T.D. Reached  
12/20/200516. Date Completed  
☐ D & A ☒ Ready to Prod.  
02/22/2006

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and no.

NMMN 78416A

8. Lease Name and Well No.

San Juan 29-6 Unit 11B

9. API Well No.

30-039-29276

10. Field and Pool, or Exploratory  
Blanco Mesaverde11. Sec., T., R., M., on Block and  
Survey or Area Sec 7 T29N R6W12. County or Parish  
Rio Arriba13. State  
NM17. Elevations (DF, RKB, RT, GL)\*  
678518. Total Depth: MD 6158  
TVD19. Plug Back T.D.: MD 6146  
TVD20. Depth Bridge Plug Set: MD  
TVD21. Type of Electric & Other Mechanical Logs Run (Submit copy of each)  
CBL; TDT; GR/CCL22. Was well cored? ☒ No ☐ Yes (Submit analysis)  
Was DST run? ☒ No ☐ Yes (Submit analysis)  
Directional Survey? ☒ No ☐ Yes (Submit copy)

## 23. Casing and Liner Record (Report all strings set in well)

| Hole Size | Size/Grade | Wt. (#/ft.) | Top (MD) | Bottom (MD) | Stage Cementer Depth | No. of Sk. & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled |
|-----------|------------|-------------|----------|-------------|----------------------|-----------------------------|-------------------|-------------|---------------|
| 13.5      | 9.625 H40  | 32.3        | 0        | 234         |                      | 225                         |                   | 0           |               |
| 8.75      | 7 J-55     | 20          | 0        | 3478        |                      | 570                         |                   | 0           |               |
| 6.25      | 4.5 J-55   | 10.5        | 0        | 6148        |                      | 310                         |                   | 3330        |               |
|           |            |             |          |             |                      |                             |                   |             |               |
|           |            |             |          |             |                      |                             |                   |             |               |
|           |            |             |          |             |                      |                             |                   |             |               |

## 24. Tubing Record

| Size  | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|-------|----------------|-------------------|------|----------------|-------------------|------|----------------|-------------------|
| 2.375 | 5845           |                   |      |                |                   |      |                |                   |

## 25. Producing Intervals

## 26. Perforation Record

| Formation           | Top  | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|---------------------|------|--------|---------------------|------|-----------|--------------|
| A) Blanco Mesaverde | 4436 | 5955   | 4436' - 4465'       | .34  | 30        | Open         |
| B)                  |      |        | 4690' - 4863'       | .34  | 39        | Open         |
| C)                  |      |        | 5452' - 5536'       | .34  | 44        | Open         |
| D)                  |      |        | 5715' - 5955'       | .34  | 49        | Open         |

## 27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

| Depth Interval | Amount and Type of Material   |
|----------------|---|
| 4436' - 4465'  | 20# linear 70Q Slickfoam; 56,500# 16/30 BradySand; 710,300 SCF N2; 606 bbls. fluid.     |
| 4690' - 4863'  | 20# linear 70Q Slickfoam; 125,000# 16/30 BradySand; 1,182,800 SCF N2; 957 bbls fluid.   |
| 5452' - 5536'  | 60Q Slickfoam w/lg/mg FR; 100,000# 20/40 BradySand; 1,211,500 SCF N2; 1192 bbls. fluid. |
| 5715' - 5955'  | 60Q Slickfoam w/lg/mg FR; 175,000# 20/40 BradySand; 2,070,000 SCF N2; 2006 bbls. fluid. |

## 28. Production - Interval A

| Date First Produced | Test Date         | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|-------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| 2/22/06             | 2/20/06           | 24           | →               | .5      | 2244    | 12.6      |                       |             | Flows from Well   |
| Choice Size         | Tbg. Press. Flwg. | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas : Oil Ratio       | Well Status |                   |
| 1/2                 | SI 340            | 670          | →               |         |         |           |                       | GSI         |                   |

## Production - Interval B

| Date First Produced | Test Date         | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|-------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                   |              | →               |         |         |           |                       |             |                   |
| Choke Size          | Tbg. Press. Flwg. | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas : Oil Ratio       | Well Status |                   |
|                     | SI                |              | →               |         |         |           |                       |             |                   |

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## 28b. Production - Interval C

| Date First Produced | Test Date                  | Hours Tested | Test Production<br>→ | Oil BBL | Gas MCF | Water BBL | Oil Gravity<br>Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------------|--------------|----------------------|---------|---------|-----------|--------------------------|-------------|-------------------|
| Choke Size          | Tbg. Press.<br>Flwg.<br>SI | Csg. Press.  | 24 Hr. Rate<br>→     | Oil BBL | Gas MCF | Water BBL | Gas : Oil Ratio          | Well Status |                   |

## 28c. Production - Interval D

| Date First Produced | Test Date                  | Hours Tested | Test Production<br>→ | Oil BBL | Gas MCF | Water BBL | Oil Gravity<br>Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------------|--------------|----------------------|---------|---------|-----------|--------------------------|-------------|-------------------|
| Choke Size          | Tbg. Press.<br>Flwg.<br>SI | Csg. Press.  | 24 Hr. Rate<br>→     | Oil BBL | Gas MCF | Water BBL | Gas : Oil Ratio          | Well Status |                   |

## 29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Vented

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones or porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

| Formation | Top | Bottom | Descriptions, Contents, etc. | Name           | Top<br>Meas. Depth |
|-----------|-----|--------|------------------------------|----------------|--------------------|
|           |     |        |                              | Nacimiento     | 1460.9             |
|           |     |        |                              | Ojo Alamo      | 2699.0             |
|           |     |        |                              | Kirtland       | 2909.7             |
|           |     |        |                              | Fruitland      | 3364.4             |
|           |     |        |                              | Pictured Cliff | 3671.9             |
|           |     |        |                              | Otero/Chacra   | 4680.4             |
|           |     |        |                              | Cliffhouse     | 5449.5             |
|           |     |        |                              | Menefee        | 5540.7             |
|           |     |        |                              | Pt. Lookout    | 5832.8             |

## 32. Additional remarks (include plugging procedure):

New single well producing from the Blanco Mesaverde. Daily summary report is attached. On 12/9/05, tested surface casing to 1000psi for 30 minutes. Pressure held. On 12/16, tested intermediate casing to 1800psi for 30 minutes. Pressure held.

## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)    ☐ Geological Report    ☐ DST Report    ☐ Directional Survey  
☐ Sundry Notice for plugging and cement verification    ☐ Core Analysis    ☐ Other

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Christina GustartisTitle Regulatory Specialist

Signature

Christina Gustartis

Date

02/24/2006

Title 18 U.S.C. Section 101 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 and false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**INITIAL COMPLETION, 12/30/2005 00:00**

| API/Bottom UWI        | County           | State/Province     | Surface Legal Location | N/S Dist (ft)    | N/S Ref | E/W Dist (ft) | E/W Ref |
|-----------------------|------------------|--------------------|------------------------|------------------|---------|---------------|---------|
| 300392927600          | Rio Arriba       | NEW MEXICO         | NMPM-29N-06W-07-C      | 400.00           | N       | 2,620.00      | W       |
| Ground Elevation (ft) | Latitude (DMS)   | Longitude (DMS)    | Spud Date              | Rig Release Date |         |               |         |
| 6,785.00              | 36° 44' 46.68" N | 107° 30' 13.464" W | 12/7/2005              | 12/21/2005       |         |               |         |

**12/30/2005 07:00 - 12/30/2005 00:00**

**Last 24hr Summary**

Held safety meeting. RU Schlumberger. Pressured up on 4 1/2" CSG to 1500 #. Ran CBL log from 6046' to 3150'. Top of cement @ 3330'. Ran TDT log from 6046' to 2580'. Ran GR/ccl log from 6046' TO surface. RD Schlumberger. Tested 4 1/2" csg to 4050 # for 30 min. Held ok. SWI. RD Woodgroup

**1/15/2006 07:00 - 1/15/2006 12:00**

**Last 24hr Summary**

Held safety meeting. RU Computalog. Perforated the Point Lookout. RIH w/ 3 1/8" 90 degree select fire perforating gun. Perforated from 5715' - 5725' w/ 1/2 spf, 5771' - 5779' w/ 1/2 spf, 5802' - 5820' w/ 1/2 spf, 5841' - 5851' w/ 1/2 spf, 5870' - 5878' w/ 1/2 spf, 5904' - 5914' w/ 1/2 spf, 5928' - 5938' w/ 1/2 spf, 5947' - 5955' w/ 1/2 spf. A total of 49 holes w/ 0.34 dia. SWI. RD Computalog.

**1/16/2006 07:00 - 1/16/2006 16:00**

**Last 24hr Summary**

Held safety meeting. RU Schlumberger. Frac'd the Point Lookout. Tested lines to 5050 #. Set pop off @ 3850 #. Broke down formation @ 3 bpm @ 1788 #. Pumped pre pad @ 30 bpm @ 964 #. Stepped down rate to 25 bpm @ 482 #. Stepped down rate to 20 bpm @ 190 #. Stepped down rate to 15 bpm @ 0 #. ISIP 0 #. Pumped 1000 gals of 15% HCL acid @ 19 bpm @ 0 #. Frac'd the Point Lookout w/ 60 Q slick foam w/ 1 g/mg FR, 175,000 # 20/40 Brady sand, Treated the last 15% of proppant volume with propnet for proppant flowback control, 2,070,000 SCF N2 & 2006 bbls fluid. Avg rate 65 bpm. Avg pressure 2500 #. Max pressure 2580 #. Max sand cons 1.50 # per gal. ISIP 72 #. Frac gradient .44. RU Computalog. RIH w/ 4 1/2" composite plug. Set plug @ 5586'. Tested plug to 4000 #. Held ok. Perforated the Cliffhouse w/ 3 1/8" 90 degree select fire perforating gun. Perforated from 5452' - 5468' w/ 1 spf, 5502' - 5515' w/ 1 spf, 5524' - 5536' w/ 1 spf. A total of 44 holes w/ 0.34 dia. RD Computalog.

**1/17/2006 07:00 - 1/17/2006 18:00**

**Last 24hr Summary**

Held safety meeting. RU Schlumberger. Frac'd the Cliffhouse. Tested lines to 5050 #. Set pop off @ 3850 #. Broke down formation @ 3 bpm @ 1420 #. Pumped pre pad @ 30 bpm @ 1165 #. Stepped down rate to 25 bpm @ 824 #. Stepped down rate to 20 bpm @ 506 #. Stepped down rate to 15 bpm @ 218 #. Stepped down rate to 10 bpm @ 0 #. ISIP 0 #. Pumped 1000 gals of 15% HCL acid @ 14 bpm @ 0 #. Frac the Menefee & Cliffhouse w/ 60 Q slick foam w/ 1 g/mg FR, 100,000 # 20/40 Brady sand, Treated the last 15% of proppant volume with propnet for proppant flowback control, 1,211,500 SCF N2 & 1192 bbls fluid. Avg rate 50 bpm. Avg pressure 2456 #. Max pressure 2630 #. Max sand cons 1.50 # per gal. ISIP 672 #. Frac gradient .44. RU Computalog. RIH w/ 4 1/2" composite plug. Set plug @ 4963'. Tested plug to 4000 #. Held ok. Perforated the Lewis w/ 3 1/8" 90 degree select fire perforating gun. Perforated from 4690' - 4711' w/ 1 spf, 4755' - 4759' w/ 1 spf, 4825' - 4828' w/ 1 spf, 4836' - 4839' w/ 1 spf, 4860' - 4863' w/ 1 spf. A total of 39 holes w/ 0.34 dia. RD Computalog. RU Schlumberger. Frac'd the Lewis. Tested lines to 5050 #. Set pop off @ 3850 #. Broke down formation @ 4 bpm @ 3780 #. Pumped 1000 gals of 15% HCL acid @ 6 bpm @ 2196 #. Frac'd the Lewis w/ 20 # linear 70 Q slick foam 125,000 # 16/30 Brady sand, Treated the last 20% of proppant volume with propnet for proppant flowback control, 1,182,800 SCF N2 & 957 bbls fluid. Avg rate 40 bpm. Avg pressure 2247 #. Max pressure 2515 #. Max sand cons 2 # per gal. ISIP 374 #. Frac gradient .52. Tagged well w/ 3 isotope. tagged pad & .05 # sand w/ Iridium. Tagged the 1# & 2 # sand w/ Scandium. Tagged the 2 # PN w/ Antimony. SWI. RD Schlumberger.

**1/18/2006 07:00 - 1/18/2006 18:00**

**Last 24hr Summary**

Held safety meeting. RU Computalog. RIH w/ 4 1/2" composite plug. Set plug @ 4512'. Tested plug to 4000 #. Held ok. Perforated the Navajo City w/ 3 1/8" 90 degree select fire perforating gun. Perforated from 4436' - 4465' w/ 1 spf. A total of 30 holes w/ 0.34 dia. RD Computalog. RU Schlumberger. Frac'd the Navajo City. Tested lines to 5050 #. Set pop off @ 3850 #. Broke down formation @ 3 bpm @ 3510 #. Pumped pre pad @ 30 BPM @ 2468 #. Pumped 1000 gals of 15% HCL acid @ 6 bpm @ 869 #. Frac'd the Navajo City w/ 20 # linear 70 Q slick foam 56,500 # 16/30 Brady sand, Treated the last 20% of proppant volume with propnet for proppant flowback control, 710,300 SCF N2. 606 bbls fluid. Avg rate 30 bpm. Avg pressure 2694 #. Max pressure 3490 #. Max sand cons 2 # per gal. ISIP 4433 #. Frac gradient .52. Tagged well w/ 3 isotope. tagged pad & .05 # sand w/ Iridium. Tagged the 1# & 2 # sand w/ Scandium. Tagged the 2 # PN w/ Antimony. SWI. RD Schlumberger. Start flowback.

**2/1/2006 07:00 - 2/1/2006 17:00**

**Last 24hr Summary**

SICP= 480#

PJSM w/ crews. Discussed days events and ways to prevent incidents. Filled out and reviewed JSA. Key Energy SOP review. Check location for hazards and LELS. WO Dawn Trucking to MI rig equipment. PJSM w/ Dawn Trucking, L&R Roustabouts, & crews. Discussed hazards of spotting equipment. Spot equipment. Spot Key 15. RU unit, air package, & rig pump. Pump 40 bbl 2% KCL water to kill well. Install test hanger. ND Lower Frac Stack. NU BOPE. Schedule Riley Industrial to clean FB Tank, 2.5' to 3' sand in FB Tank. Secure well. SDFN.

**2/2/2006 07:00 - 2/2/2006 17:00**

**Last 24hr Summary**

SICP= 180#

PJSM w/ crews. Discussed days events and ways to prevent incidents. Filled out and reviewed JSA. Key required SOP review. RU Key Energy high pressure pump. RU floor & tbg. tools. Load BOPE w/ water, flush all lines. Test BOPE, 200# low, 2500# high on blind & pipe rams. Test good. Witnessed by M. Pantojas w/ Key Energy. RU Flowline to FB tank. BWD. Pump 2% KCL water to kill well. POOH w/ test hanger. MU BHA consisting of 2-3/8" 1/2 MS re-entry guide, 1.81" FN, & 2-3/8" 4.7# J-55 Production Tbg. TIH, PU & tally off float. Tag for fill above CBP @ 4512'. Tag fill @ 4478' ( Perfs uncovered, 34' above CBP @ 4512') PUH to 4335', LD 5 jts tbg. Secure well. Drain & blow down equipment. SDFN.

**2/3/2006 07:00 - 2/3/2006 17:00**

**Last 24hr Summary**

SICP= 300#

PJSM w/ Crews. Discussed days events and ways to prevent incidents. Filled out and reviewed JSA. SOP review. BWD. PJSM w/ H&H Wireline, and crews. Discussed hazards while RU & running Slickline. RU slickline unit. RIH to retrieve SL plug. RD slickline unit. PU 5 jts tbq., TIH to tag fill above CBP @ 4512'. Tag fill @ 4488'. (Perfs @ 4436'-4465' uncovered, 44' on CBP). Break circ. w/ air-mist. CO fill to PBTD w/ 1150 cfm air & 8bph mist & Cl. Cut mist, Dry up hole w/ air. RU Flowline w/ 1/2" choke on surf. Flow test Navajo City up tbq for 4 hrs. Flow test is as follows:

2-3/8" tbq. set @ 4449'

Navajo City perfs 4436'- 4465'

1/2" choke coef.= 6.6

FTP= #

SICP= #

Navajo City production= MCFPD

BWPD

BOPD

Sand

Test witnessed by M. Pantojas w/ Key Energy.

Pump 2% KCL to kill tbq. LD 3 jts on float. Secure well. Drain & blow down equipment. SDFWE.

**2/6/2006 07:00 - 2/6/2006 17:00**

**Last 24hr Summary**

SICP= 500#

PJSM w/ crews. Discussed days events and ways to prevent incidents. Filled out and reviewed JSA. Key SOP review. BWD. Kill well w/ 30 bbls 2% KCL. TOO H w/ tbq standing back. MU BHA consisting of 3-7/8" Junk Mill, 2-3/8" 8rd x 2-3/8" reg. Bit Sub, & 2-3/8" 4.7# J-55 Production tbq. TIH w/ BHA & 2-3/8" tbq. Tag fill above CBP @ 4512'. Tag fill @ 4503'. RU power swivel. Break circ. w/ air-mist. Unload hole, CO fill to CBP @ 4512'. DO CBP. Circ. debris clean. Continue to TIH to tag fill in Lewis above CBP @ 4963'. Tag fill @ 4926' ( Lewis perfs uncovered, 37' on CBP). CO fill to CBP @ 4963' w/ 1150 cfm air & 8 bph mist w/ Cl. Circ. hole clean. RD power swivel. TOO H w/ BHA & 14 jts tbq standing back. Secure well. Drain & blow down equipment. SDFN.

**2/7/2006 07:00 - 2/7/2006 17:00**

**Last 24hr Summary**

SICP= 450#

PJSM w/ crews. Discussed days events and ways to prevent incidents. Filled out and reviewed JSA. Reviewed Key SOPs. BWD. Kill well w/ 20 bbls 2% KCL. Continue TOO H w/ tbq. standing back. MU BHA consisting of 1/2 MS re-entry guide, 1.81" FN, 2-3/8" 4.7# J-55 production tbq. TIH w/ BHA & tbq. tag fill above CBP @ 4963'. Tag fill @ 4953', 10' on CBP. Brk circ. w/ air-mist. Unload hole. CO fill. Circulate hole clean. PUH to 4777'. RU 2" flow line w/ 1/2" choke @ surface. Open well flowing up tbq. for 4 hrs. Flow test is as follows:

2-3/8" tbq set @ 4777'

Lewis perfs= 4690'-4863'

FTP= 0 to 40#; unable to stabilize psi, making fluid in slugs.

SICP= 420#

336 BWPD

0 BOPD

Lite Sand

Kill tbq w/ 2% KCL. RD flow line. PUH to 4335'. Secure well Drain & blow down equipment. SDFN

**2/8/2006 07:00 - 2/8/2006 17:00**

**Last 24hr Summary**

SICP= 500#

PJSM w/ crews. Discussed days events and ways to prevent incidents. Filled out and reviewed JSA. Review Key SOP. BWD. Kill well w/ 20 bbls 2% KCL. TIH w/ 14 jts tbq. tag fill above CBP @ 4963'. No fill. Break circ. w/ air-mist. Unload hole. Circ. hole clean. Dry up hole w/ air. PUH to 4777'. RU 2" flow line w/ 1/2" choke on surf.. Flow test Lewis up tbq. for 4 hrs. Test is as follows: 2-3/8" tbq set @ 4777'

Lewis perfs= 4690' to 4863'

1/2" choke coef. = 6.6

FTP= 110#

SICP= 235#

Lewis production= 726 MCFPD

103.2 BWPD

0 BOPD

No Sand

Test witnessed by M Pantojas w/ Key Energy.

Kill well w/ 20 bbls 2% KCL. RD Flow line. PUH to 4335', standing back 8jts tbq. Secure well. Drain & blow down equipment. SDFN.

**2/9/2006 07:00 - 2/9/2006 17:00**

**Last 24hr Summary**

SICP= 420#

PJSM w/ crews. Discussed days events and ways to prevent incidents. Filled out and reviewed JSA. BWD. TIH w/ 19 jts. tbq to tag fill on CBP @ 4963'. Tag fill @ 4961'. Unload hole & CO fill w/ air-mist. Cut mist, dry up hole. PUH to 4367' w/ 19 jts tbq. standing back. Unload hole. SWI equalize pressure. PJSM w/ H&H Wireline, Protechnics, and crews. RU Slickline unit. RIH w/ EOT locator. Find EOT @ 4362'. POOH w/ Slickline. RU. RIH w/ Protechnics CPL & Spectra Scan log to 4913'. Record & Report SBHP & Temp. for 15 min. Flow well up tbq. w/ 1/2" choke on surf. PUH & log across NC /Lws interval (4436'-4863') w/ Spectra Scan. FTP= 80#, SICP= 220#. Fluid level= 3750'. Run CPL over NC/Lws. Log w/ 8 passes @ set speeds from 4913' to 4386'. Test witnessed by Tyrone Daye w/ Protechnics. SWI. POOH w/ Protechnics logs. Retrieve data. Spinner survey not working properly. No Useable data. RD service companies. Pumped 30 bbls 2% KCL to kill well. Secure well. Drain & blow down equipment. SDFN

**2/10/2006 07:00 - 2/10/2006 17:00**

**Last 24hr Summary**

SICP= 400#

PJSM w/ crews. Discussed days events and ways to prevent incidents. Filled out and reviewed JSA. Reviewed Key SOP. BWD. TIH w/ 19 jts. tbg. tag for fill. No fill. Unload, dry up hole w/ air. PUH w/ 19 jts to 4362'. Unload hole w/ air. SWI. Equalize psi ( Csg. & tbg.) PJSM w/ H&H Wireline, Protechnics, & crews. RU, RIH w/ wireline, find EOT & CBP. POOH w/ wireline. RU, RIH w/ Protechnics CPL tool to 4913'. Record & report SBHP (491#) & SBHT (151#). Flow well up tbg. w/ 1/2" choke on surf. FTP= #, SICP= #. Run CPL log across LWS/NC interval (4436'-4863') w/ 8 passes @ set speeds. SWI. Equalize psi. POOH w/ Protechnics CPL & Slickline. RD service companies. Retrieve data. Secure well. Drain & blowdown equipment. SDFWE.

**2/13/2006 07:00 - 2/13/2006 17:00**

**Last 24hr Summary**

SICP= 400#

PJSM w/ crews. Discussed days events and ways to prevent incidents. Filled out and reviewed JSA. Reviewed Key SOP. Change out drilling line on rig. BWD. Pump 30 bbl 2% KCL to kill well. TOO H w/ BHA & 106 jts 2-3/8" tbg. Shut down due to high winds. WO winds to die down to continue TOO H. NO change. Secure well. Drain & blow down equipment. SDFN.

**2/14/2006 07:00 - 2/14/2006 17:00**

**Last 24hr Summary**

SICP= 360#

PJSM w/ crews. Discussed days events and ways to prevent incidents. Filled out and reviewed JSA. Reviewed Key SOP. BWD. Pumped 20 bbl 2% KCL to kill well. Continue to TOO H w/ BHA & 2-3/8" tbg. MU BHA as follows: 3-7/8" 3-Bladed Junk Mill, 2-3/8" 8rd x 2-3/8" reg Bit Sub, 2-3/8" 4.7# J-55 Production tbg. TIH w/ BHA & tbg. Tag fill above CBP @ 4963'. Tag fill @ 4961' (2' on CBP). RU power swivel. CO fill w/ 1150 cfm air & 10 bph mist w/ Cl. DO CBP @ 4963'. Circulate debris clean. Continue TIH tally & PU tbg off float, tag fill in CH @ 5533' 3' perfs covered (5452'- 5536), 53' fill on CBP @ 5586'. Circ. clean. DO CBP @ 5586'. Circ. debris clean. Continue TIH to tag fill above PBTD @ 6046'. Tag 95' fill above PBTD. PUH 100' above perfs @ 4436' w/ 51 jts. Secure well. Drain & blow down equipment. SDFN.

**2/15/2006 07:00 - 2/15/2006 17:00**

**Last 24hr Summary**

SICP= 850#

PJSM w/ crews. Discussed days events and ways to prevent incidents. Filled out and reviewed JSA. BWD. Attempt to break circ. w/ air down tbg. Tbg pressured up. SD air unit. Pumped 30 bbl 2% KCL kill well. POOH w/ 138 jts. to check for plugged mill. Last jt tbg. corkscrewed, mill & bit sub left in hole. Possible DH fire. SD. WO Baker Oil Tool & Drlg collars. Unload fishing tools & drlg. collars. SD due to high winds. Secure well. Drain & blow down equipment. SDFN.

**2/16/2006 07:00 - 2/16/2006 17:00**

**Last 24hr Summary**

SICP=800#

PJSM w/ Baker Oil Tool and crews. Discussed hazards of MU & RIH & POOH w/ Fishing tools. Filled out and reviewed JSAS. BWD. Kill well w/ 60 bbl 2% KCL. MU & TIH w/ BHA as follows: 3-7/8" Overshot, dressed w/ 3-1/16" Spiral Grapple, 3-1/8" Bumper Sub, 3-1/8" Float Sub, 3-1/8" Jars, 6- 3-1/8" Drlg Collars, 3-1/8" Intensifier, 3-1/8" X-O Sub, and 183jts 2-3/8" tbg. Tag fish, Latch onto fish, Jar free. POOH w/ BHA, DC, & 183 jts 2-3/8" tbg. NO fish. TIH w/ BHA, DC, & 138 jts 2-3/8" tbg. Unload Flow Tank cables & Saddle Clamps off hotshot truck. Secure well. Drain & blow down equipment. SDFN.

**2/17/2006 07:00 - 2/17/2006 17:00**

**Last 24hr Summary**

SICP= 800#

PJSM w/ Baker Oil Tool and crews. Discussed days events and ways to prevent incidents. Discussed hazards involved w/ running fishing tools in & out of hole. BWD. Pump 40 bbls 2% KCL kill well. Continue TIH w/ 3-7/8" Overshot dressed w/ 3-1/16" Spiral Grapple, 3-1/8" Bumper Sub, 3-1/8" Float Sub, 3-1/8" Jar, 6- 3-1/8" Drlg. Collars, 3-1/8" Intensifier, 3-1/8" XO Sub, and 183 jts 2-3/8" tbg. Tag fill @ 5918'. 33' fill. RU power swivel. CO fill to fish @ 5951'. Tag fish. attempt to latch on fish, & jar free. Overshot not able to latch on fish. RD power swivel. POOH w/ fishing tools, drlg. collars, and 2-3/8" tbg. LD fishing tools. Release Baker Oil Tool. SD TIH due to gusting winds. Change out 4" nipple on flowback due to wash out. Secure well..Drain and blow down equip. SDFN.

**2/18/2006 07:00 - 2/18/2006 17:00**

**Last 24hr Summary**

SICP= 750#

PJSM w/ crews. Discussed days events and ways to prevent incidents. Filled out and reviewed JSA. BWD. Pumped 40 bbls 2% KCL kill well. MU BHA as follows: 2-3/8" 1/2 MS re-entry guide, 1.81" FN, 189 jts 2-3/8" 4.7# J-55 Prod. Tbg. TIH w/ BHA & tbg. Drifting. to tag fill. Tag fill @ 5949'. Break circ. w/ air-mist. CO fill to 5951' w/ 1150 cfm air- 12 bph mist & Cl. Circ. clean. Well making to much sand to get flow test. SD air unit. PUH to 4336', LD 51jts 2-3/8" tbg. due to gusting winds. Secure well. Drain & blow down equipment. SDFWE.

2/20/2006 07:00 - 2/20/2006 17:00

**Last 24hr Summary**

SICP= 650#

PJSM w/ Crews. Discussed days events and ways to prevent incidents. Filled out and reviewed JSA. Reviewed SOP. Repair Flowback tank connections. BWD. Pump 40 bbls 2% KCL to kill well. PU 51 jts 2-3/8" tbg. off float, drifting. Tag fill @ 5946' CO fill w/ 1150 cfm- 10bph mist & Cl.Circ. clean. SD air unit. Pump 20 bbls 2% KCL kill tbg. LD 4 jts tbg. Pump off expendable check. Blow well around. RU 2" flowline w/ 1/2" choke on surf. Flow test MV up tbg w/ 1/2" choke on surf. for 4 hrs. ( For Allocation.) Test is as follows:

2-3/8" Production tbg Set @ 5850'

MV perms.= 5452'- 5955'

1/2" choke coef= 6.6

FTP= 340#

SICP= 670#

MV Production = 2244 MCFPD

12.6 BWPD

1/2 BOPD

Lite Sand

Test witnessed by M. Pantojas w/ Key Energy.

Secure well. Drain & blowdown equipment. SDFN

2/21/2006 07:00 - 2/21/2006 17:00

**Last 24hr Summary**

SICP= 640#

PJSM w/ crews. Discussed days events and ways to prevent incidents. Filled out and reviewed JSA. Review Key SOP. BWD. Pump 10 bbls to kill tbg. RD 2" Flowline. PU 4 jts 2-3/8" tbg. Tag for fill. Tag fill @ 5949' ( 2' fill). CO fill to 5951' (Junk Mill & Bit Sub left in hole) w/ air-mist. LD 5 jts 2-3/8" tbg. MU tbg hanger w/ pump thru check. Land EOT @ 5845' w/ 1/2 MS Re-entry Guide, 1.81" FN, 183 jts 2-3/8" 4.7# J-55 Production tbg., 1-2-3/8" (6") Pup Jt., 2- 2-3/8" (10") Pup Jts., 1- 2-3/8" 4.7# J-55 Production Tbg. Lock down all pins. ND BOP. NU tbg. Master Valve. Test Seals. Unload well. Purge air from csg. & tbg. RD Key 15. Secure Well. SDFN.

2/22/2006 07:00 - 2/22/2006 17:00

**Last 24hr Summary**

PJSM w/ Dawn Trucking, L&R Services, and Crews. Discussed hazards involved w/ moving rig and equipment from one location to the next and ways to prevent incidents. Released Rig from SJ 29-6 #11B.Road Key 15 & equipment to the SJ 28-7 #227F.

Well Name: San Juan 29-6 #11B  
 API #: 30-039-29276  
 Location: 400' FSL & 2620' FWL  
Sec. 7 - T29N - R6W  
Rio Arriba County, NM  
 Elevation: 6785' GL (above MSL)  
 Drl Rig RKB: 13' above Ground Level  
 Datum: Drl Rig RKB = 13' above GL

Patterson Rig: #747  
 Spud: 7-Dec-05  
 Spud Time: 22:00  
 Date TD Reached: 20-Dec-05  
 Release Drl Rig: 21-Dec-05  
 Release Time: 0:00

11" 3M x 7 1/16" 5M Tubing Head  
 11" 3M x 11" 3M Casing Spool  
 9-5/8" 8 RD x 11" 3M Casing Head

**Surface Casing** Date set: 8-Dec-05  
 Size 9 5/8 in  
 Set at 234 ft # Jnts: 5  
 Wt. 32.3 ppf Grade H-40  
 Hole Size 13 1/2 in Conn STC  
 Excess Cmt 125 %  
 T.O.C. SURFACE

☒ New  
☐ Used

Csg Shoe 234 ft  
 TD of 12-1/4" hole 241 ft

Notified BLM @ \_\_\_\_\_ hrs on \_\_\_\_\_  
 Notified NMOCD @ \_\_\_\_\_ hrs on \_\_\_\_\_

**Intermediate Casing** Date set: 15-Dec-05  
 Size 7 in 82 jts  
 Set at 3478 ft 0 pups  
 Wt. 20 ppf Grade J-55  
 Hole Size 8 3/4 in Conn STC  
 Excess Cmt 150 % Top of Float Collar 3434 ft  
 T.O.C. SURFACE Bottom of Casing Shoe 3478 ft  
 Pup @ \_\_\_\_\_ ft TD of 8-3/4" Hole 3480 ft  
 Pup @ \_\_\_\_\_ ft

☒ New  
☐ Used

Notified BLM @ 18:00 hrs on 14-Dec-05  
 Notified NMOCD @ 18:00 hrs on 14-Dec-05

**Production Casing:** Date set: 20-Dec-05  
 Size 4 1/2 in 144 jts  
 Set at 6148 ft 1 pups  
 Wt. 10.5 ppf Grade J-55  
 Hole Size 6 1/4 in Conn STC  
 Excess Cmt 50 % Top of Float Collar 6146 ft  
 T.O.C. (est) 3278 Bottom of Casing Shoe 6148 ft  
 Marker Jt @ 5326 ft TD of 8-3/4" Hole 6158 ft  
 Marker Jt @ \_\_\_\_\_ ft  
 Marker Jt @ \_\_\_\_\_ ft  
 Marker Jt @ \_\_\_\_\_ ft

☒ New  
☐ Used

Notified BLM @ \_\_\_\_\_ hrs on \_\_\_\_\_  
 Notified NMOCD @ \_\_\_\_\_ hrs on \_\_\_\_\_

Top of Float Collar 6146 ft  
 Bottom of Casing Shoe 6148 ft

TD of 8-3/4" Hole: 6158 ft

**Surface Cement**

Date cmt'd: 8-Dec-05  
 Lead : 225 sx Class G Cement  
 + 3% Calcium Chloride  
 + 0.25 lb/sx D029 Flocele  
1.21 cuft/sx, 272.25 cuft slurry at 15.6 ppg  
 Displacement: 15.0 bbls fresh wtr  
 Bumped Plug at: 10:00 hrs  
 Final Circ Press: 65 psi @ 0.5 bpm  
 Returns during job: YES  
 CMT Returns to surface: 29 bbls  
 Floats Held: No floats used  
 W.O.C. for 6.00 hrs (plug bump to start NU BOP)  
 W.O.C. for 19.00 hrs (plug bump to test csg)

**Intermediate Cement**

Date cmt'd: 16-Dec-05  
 Lead : 360 sx Class G Cement  
 + 3% Econolite  
 + 10.00 lb/sx Phenoseal  
2.88 cuft/sx, 1036.8 cuft slurry at 11.5 ppg  
 Tail : 210 sx 50/50 POZ : Class G Cement  
 + 2% Bentonite  
 + 6 lb/sx Phenoseal  
1.33 cuft/sx, 279.3 cuft slurry at 13.5 ppg  
 Displacement: 139 bbls  
 Bumped Plug at: 03:00 hrs w/ 1500 psi  
 Final Circ Press: 800 psi @ 2.0 bpm  
 Returns during job: YES  
 CMT Returns to surface: 47 bbls  
 Floats Held: X Yes \_\_\_ No  
 W.O.C. for NA hrs (plug bump to start NU BOP)  
 W.O.C. for 16.00 hrs (plug bump to test csg)

**Production Cement**

Date cmt'd: 20-Dec-05  
 Cement : 310 sx 50/50 POZ : Class G Cement  
 + 3% Bentonite  
 + 0.2% CFR-3  
 + 0.8% Halad®-9  
 + 0.1% HR-5  
 + 3.5 lb/sx Phenoseal  
1.45 cuft/sx, 449.5 cuft slurry at 13.0 ppg  
 Displacement: 97.7 bbls  
 Bumped Plug: 18:00 hrs w/ 1500 psi  
 Final Circ Press: 350 psi @ 2.0 bpm  
 Returns during job: None Planned  
 CMT Returns to surface: None Planned  
 Floats Held: X Yes \_\_\_ No

Schematic prepared by:  
 Michael P. Neuschafer, Drilling Engineer  
 22-December-2005

**COMMENTS:**

|                 |   |
|-----------------|---|
| 9-5/8" Surf:    | No float equipment was run. Ran a guide shoe and an aluminum baffle plate 1 jt above the guide shoe @ 190'. Displaced top wiper plug with water. Shut in casing head and WOC before backing out landing jt. CENTRALIZERS @ 220', 143', 100', 57'.<br>Total: 4 |
| 7" Intermediate | DISPLACED W/ 139 BBLS. FRESH WATER. CENTRALIZERS @ 3435', 3390', 3304', 3218', 3131', 3045', 191', 104', 61'. TURBOLIZERS @ 2959', 2916', 2873', 2830', 2787', 2744'.<br>Total: 9<br>Total: 6   |
| 4 1/2" Notes:   | None  |