submitted in lieu of Form 3160-5

**UNITED STATES**
**DEPARTMENT OF THE INTERIOR**
**BUREAU OF LAND MANAGEMENT**

Sundry Notices and Reports on Wells

RECEIVED
NOV 28 2007
Bureau of Land Management
Farmington Field Office

1. **Type of Well**
GAS

2. **Name of Operator**
ConocoPhillips

3. **Address & Phone No. of Operator**
PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. **Location of Well, Footage, Sec., T, R, M**
Sec., T—N, R—W, NMPM

**Unit J (NWSE), 1650' FSL & 1650' FEL, Sec. 14, T28N, R7W NMPM**

5. **Lease Number**
SF-079289

6. **If Indian, All. or Tribe Name**

7. **Unit Agreement Name**
San Juan 28-7 Unit

8. **Well Name & Number**
San Juan 28-7 Unit #136

9. **API Well No.**
30-039-07408

10. **Field and Pool**
**Basin Dakota**

11. **County and State**
Rio Arriba, NM

**12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA**

| **Type of Submission:** | **Type of Action:** | | |
|---|---|---|---|
| ☒ Notice of Intent | ☐ Abandonment | ☐ Change of Plans | ☒ Other : BH Repair |
| ☐ Subsequent Report | ☐ Recompletion<br>☐ Plugging<br>☐ Casing Repair | ☐ New Construction<br>☐ Non-Routine Fracturing<br>☐ Water Shut-off | |
| ☐ Final Abandonment | ☐ Altering Casing | ☐ Conversion to Injection | |

RCVD NOV 30 '07
OIL CONS. DIV.
DIST. 3

**13. Describe Proposed or Completed Operations**

**Conocophillips intends to repair the BH according to the attached procedure**

**14. I hereby certify that the foregoing is true and correct.**

Signed _____ Philana Thompson Title Regulatory Tech Date 11/28/2007

(This space for Federal or State Office use)
APPROVED BY Original Signed: Stephen Mason Title _____ Date NOV 29 2007
CONDITION OF APPROVAL, if any:

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

NMOCD

ConocoPhillips

**SAN JUAN 28-7 #136 GR/DK**
**Bradenhead REPAIR**
Latitude : N 36° 39' 30", Longitude: W 107° 32' 20"

Prepared by: Soledad Moreno Production Engineer 10/30/2007

**Scope of work:** Repair leak in Bradenhead. Pull & inspect tubing. Replace damaged joints as necessary. Run noise log and CBL to locate source of shallow Bradenhead leak and TOC behind the 8 5/8" intermediate string. Determine depth to perforate squeeze-holes (approximately 300') & cement-squeeze to repair Bradenhead leak. Drill-out cement. Circulate wellbore clean. Test casing. Return well to production.

**Estimated cost:** $153,493
**Estimated rig days:** 15

**Well data**

**API:** 30039074080000
**Location:** 1650 FSL & 1650 FEL, Unit J, Section 014, T28N, R7W
**PBTD:** 7,876'
**TD:** 7,889'
**Perforations:** 7,448' – 7,526' (GR)
7,453' – 7,564' (GR)
7,608' – 7,880' (DK)
7,617' – 7,738' (DK)
7,750' – 7,867' (DK)

**Well history:** The SJ 28-7 #136 was completed in 1963. It failed the Braden Head test on 8/15/2007. It was retested and also failed, with a pressure on the bradenhead of 197 psi. (see attached BH re-test on 10/23/2007 it blew down to 120 psi after 1h 30 min). There was an attempt to inject sealant at the wellhead to verify a possible seal leak at the WH. It did not work (see attached email communication)

**B2 adapters are required on all wells other than pumping wells.**

**Artificial lift on well:** Plunger

**Estimated reservoir pressure:** 1400 psi DK

**Well failure date: 10/23/2007 (BH re-test failure)**

**Current rate:** 10 mcfd **Estimated post-remedial rate:** a minimum of 64 mcfd normal rate

**Earthen pit required:** Yes

**Special requirements:** Several joints of 2-3/8" tubing for replacement of any scaled or worn joints.

**BAE production engineer:** Soledad Moreno, Office: 505-324-5104, Cell: 505-320-8529
**BAE backup engineer:** Jim Arroyo, Office: 505-599-3477, Cell: 505-320-2568
Dryonis Pertuso, Office: 505-599-3409, Cell: 505-320-6568
**MSO:** Pat Stawinski, Cell: 505-486-1920, Pager: 505-949-0541
**Lead:** Matt Crane, Office: 505-324-5138, Cell: 505-320-1400
**Area foreman:** Terry Bowker, Office: 505-599-3448, Cell: 505-320-2600, Pager: 505-949-0367

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**SAN JUAN 28-7 #136 GR/DK**
**Bradenhead REPAIR**
Latitude : N 36° 39' 30", Longitude: W 107° 32' 20"

**PBTD: 7,876' KB**
**KB: 13'**

**Procedure**

1. Hold safety meeting. Comply with all NMOCD, BLM and ConocoPhillips safety and environmental regulations. Test rig anchors and build blow pit prior to moving in rig.

2. MIRU. Record tubing, casing, and bradenhead pressures, and record in WellView. RU blow lines from casing valves and begin blowing down casing pressure. Kill well with 2% KCL if necessary. ND wellhead and NU BOP.

3. Release donut and remove. TIH with tubing to tag for fill, note depth of any fill in WellView (tbg landed @ 7,608' KB **(CIBP @7,694').**

4. TOOH with 7,595' of 2-3/8" tubing and additional joints needed to reach PBTD. (Detail below). Visually inspect tubing out of hole. Make note of corrosion or scale. Report findings in WellView.

   240- 2-3/8" 4.7# J-55 EUE Tubing
   1- 2-3/8" x 1.78" Seating Nipple
   1- 2-3/8" Perf Sub

5. MIRU wireline unit. Run gauge ring to +/- 7,398'. NU lubricator and RIH with CIBP for 5-1/2" casing. Set the CIBP at +/- 7,398' (50' above perforations).

6. Pressure test casing (CBIP) above DK perforations to 500 psi for 30 minutes. Record pressure and any leak off. If the pressure test holds, continue with procedure. If it does not hold, contact Superintendent and Production Engineer for further instructions.

7. Run a CBL to surface to confirm TOC (originally obtained by Temperature Survey in 1963). Deliver CBL to production engineer and expense superintendent to determine if noise log is necessary. If noise log will be run: RU loggers and run noise log from CIBP to surface to identify shallow water source. Make two runs w/ noise log: one w/ bradenhead valve closed and one w/ bradenhead valve open.

8. NU wireline. Perforate 2 squeeze holes @180° spacing through the ~~4~~ 5 ½ " production casing at about 7,070' (depending on CBL results, cement top should be at 7,170,').

9. RIH w/Packer and set +/- 50' above Squeeze Perfs. Ensure ~~4~~ 5 1/2" x ~~7~~ 8 ¾" annulus is open to pit. Establish circulation rate. Notify Superintendent and Production Engineer if well does not circulate and wait on orders.

10. POOH w/Packer.

11. RIH w/Cement Retainer and set +/- 50' above Squeeze Perfs.

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**SAN JUAN 28-7 #136 GR/DK**
**Bradenhead REPAIR**
Latitude : N 36° 39' 30", Longitude: W 107° 32' 20"

12. Tag pre-flush water w/ dye to ensure it is distinguishable from water flowing from bradenhead. Establish circulation rate. Pump 256 sx (or amount determined by engineer after CBL is run) Class A cement (Theoretic volume between 5 ½" and 8 5/8" : 54 bbls or 302 ft^3) with no excess taken into account. Max pump pressure will be 1500 psi (depending on the pressure the Intermediate casing holds) or maximum allowable wellhead pressure, whichever is less. Monitor rate and pressure. Sting out of CR and circulate tubing clean.

13. RDMO cementers. WOC. Check that Bradenhead pressure is at zero. Check intermediate pressure.

14. Run a CBL to surface to confirm TOC. TOC should be at aprox 5,700' (at least a 100' overlapping with intermediate casing cement (which is at 5,625'-5,800')

15. NU wireline Perforate 2 squeeze holes @180° spacing; holes should go through both strings: the 5 ½" production casing and the 8 5/8" intermediate casing, at about 5,525' (depending on CBL results, cement top is supposed to be at 5,625').

16. RIH w/Packer and set +/- 50' above Squeeze Perfs. Ensure 5 1/2" x 8 5/8" annulus is open to pit. Ensure 8 5/8" x 13 3/8" annulus is open to pit. Establish circulation rate. Notify Superintendent and Production Engineer if well does not circulate and wait on orders.

17. POOH w/Packer.

18. RIH w/Cement Retainer and set +/- 50' above Squeeze Perfs.

**NOTE: Step 15 will be modified depending on CBL results. Current step is written assuming there is cement from 3,170' to 3,377' in the intermediate (between 8 5/8" x 13 3/8" casing).**

19. Tag pre-flush water w/ dye to ensure it is distinguishable from water flowing from bradenhead. Establish circulation rate. Pump 1228 (400+828) sx (or amount determined by engineer after CBL is run) Class A cement (Theoretic volumes between 5 ½" and 8 5/8": 84 bbls or 472 ft^3, and between 8 5/8" and 13 3/8": 174 bbls or 978 ft^3) with no excess taken into account. Max pump pressure will be 500 psi (depending on the pressure the Intermediate casing holds) or maximum allowable wellhead pressure, whichever is less. Monitor rate and pressure. Sting out of CR and circulate tubing clean.

20. RDMO cementers. WOC. Check that Bradenhead pressure is at zero. Check intermediate pressure.

21. Run a CBL to surface to confirm TOC. TOC should be at aprox 3,170' without discontinuities between the 5 ½" and 8 5/8" and it should be at aprox 3,377' between the 8 5/8" and the open hole.

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Latitude : N 36° 39' 30", Longitude: W 107° 32' 20"

22. NU wireline Perforate 2 squeeze holes @180° spacing; holes should go through both strings: the 5 ½" production casing and the 8 5/8" intermediate casing, at about 3,070' (depending on CBL results).

23. RIH w/Packer and set +/- 50' above Squeeze Holes. Ensure 5 1/2" x 8 5/8" annulus is open to pit. Ensure 8 5/8" x 13 3/8" annulus is open to pit. Establish circulation rate. Notify Superintendent and Production Engineer if well does not circulate and wait on orders

24. POOH w/Packer.

25. RIH w/Cement Retainer and set +/- 50' above Squeeze Holes.

26. Tag pre-flush water w/ dye to ensure it is distinguishable from water flowing from bradenhead. Establish circulation rate. Pump 1790 (515+1275) sx (or amount determined by engineer after CBL is run) Class A cement (Theoretic volumes between 5 ½" and 8 5/8": 268 bbls or 1505 ft^3, and between 8 5/8" and 13 3/8": 108 bbls or 608 ft^3) with no excess taken into account. Max pump pressure will be 500 psi (depending on the pressure the Intermediate casing holds) or maximum allowable wellhead pressure, whichever is less. Monitor rate and pressure. Sting out of CR and circulate tubing clean

27. If water flow and pressure is eliminated, continue per procedure. If pressure is present or water flow is continued, contact Superintendent and Production Engineer.

28. PU appropriate bit and TIH to drill out retainer and excess cement left in casing. TOOH.

29. After drilling out cement and before drilling out CIBP, pressure test each squeeze to 500 psi for 30 min. Drill out CIBP and clean out to 7,926' (50' below bottom DK perforations). Call Superintendent and Production Engineer if pressure test fails.

30. PU appropiate bit, drill out CIBP and clean out to CIBP @ 7,694'. TOOH with tubing and bit.

31. PU and TIH with tubing (detail below). Broach tubing while TIH. Land tubing at 7,770' +/-10'.

    1 – Mule shoe
    1 – 2-3/8" x 1.78" ID Seating Nipple
    +/-240 – 2-3/8" 4.7# J-55 EUE Tubing
    Pup joints as needed to surface.

32. ND BOP, NU wellhead. Notify lease operator that well is ready to be returned to production. RDMO.

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# Schematic - Current

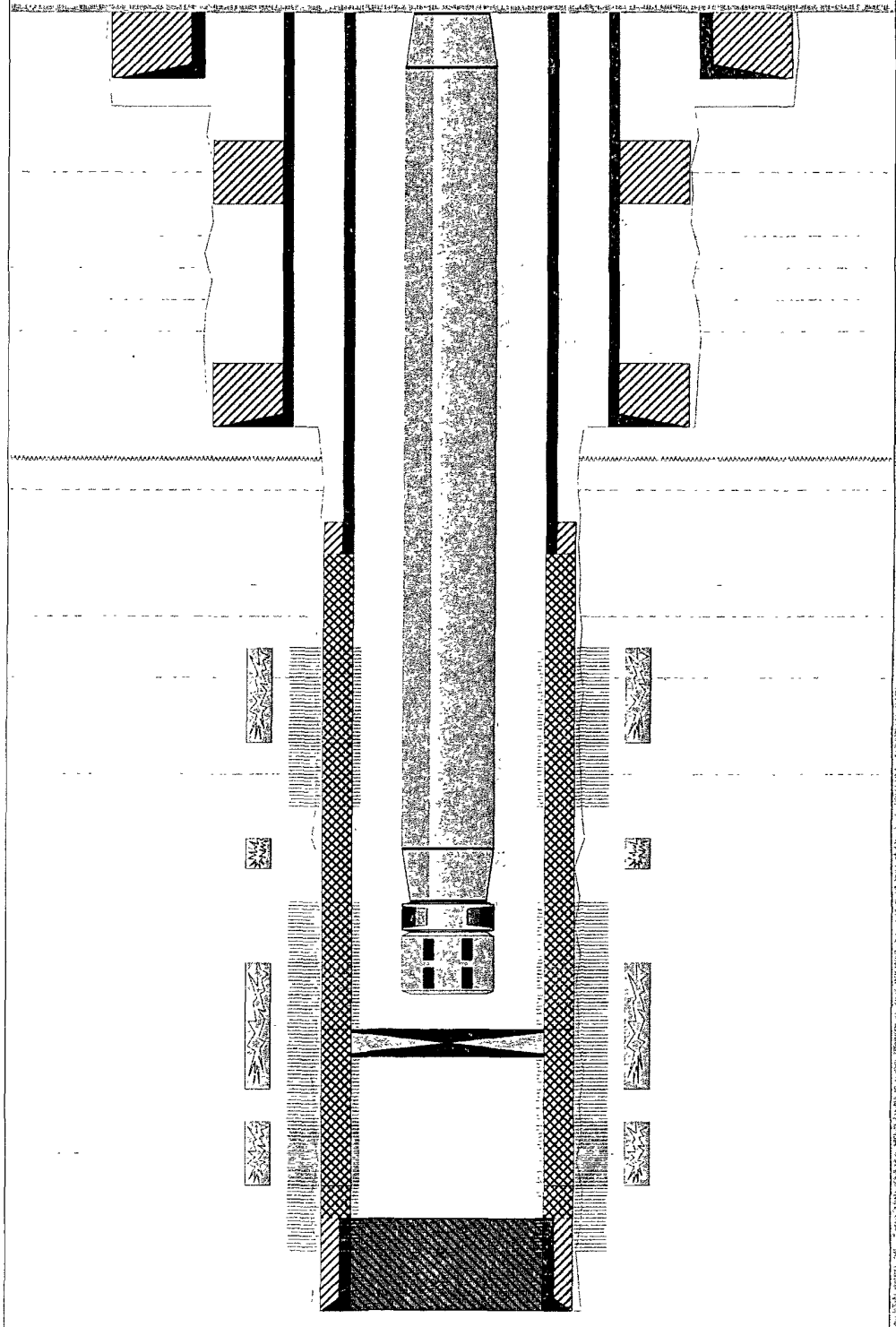
## SAN JUAN 28-7 UNIT 136

**Most Recent Job**

| Job Category | Primary Job Type | Secondary Job Type | Actual Start Date | End Date |
|---|---|---|---|---|
| OTHER | MAINTENANCE/CHEMICAL | SWABBING | 2/10/2004 | |

Well Config: Vertical - Main Hole, 11/27/2007 4:56:31 PM

| ftKB (MD) | ftKB (TVD) | Incl | Schematic - Actual |
|---|---|---|---|
| 0 | | | |
| 13 | | | |
| 362 | | | |
| 363 | | | |
| 365 | | | |
| 3,170 | | | |
| 3,222 | | | |
| 3,377 | | | |
| 4,867 | | | |
| 5,043 | | | |
| 5,397 | | | |
| 5,558 | | | |
| 5,625 | | | |
| 5,799 | | | |
| 5,800 | | | |
| 6,451 | | | |
| 7,108 | | | |
| 7,170 | | | |
| 7,348 | | | |
| 7,353 | | | |
| 7,412 | | | |
| 7,448 | | | |
| 7,450 | | | |
| 7,453 | | | |
| 7,526 | | | |
| 7,535 | | | |
| 7,564 | | | |
| 7,569 | | | |
| 7,587 | | | |
| 7,608 | | | |
| 7,609 | | | |
| 7,617 | | | |
| 7,642 | | | |
| 7,694 | | | |
| 7,695 | | | |
| 7,738 | | | |
| 7,750 | | | |
| 7,806 | | | |
| 7,867 | | | |
| 7,876 | | | |
| 7,880 | | | |
| 7,888 | | | |
| 7,889 | | | |
| 8,575 | | | |
| 8,643 | | | |



# Bradenhead Re-Test Form

Use this form to document all re-test information. Please enter in all information using N/A where appropriate.

| Well Information | |
|---|---|
| Well Name & Number: | 136 |
| API: | |
| Section: | 28-7 |
| Township: | |
| Range: | |

| Test Information | |
|---|---|
| Date of Re-Test: | 10/23/07 |
| Well Status: Prod ~ SI ~ TA | flowing |
| **Initial Pressures** | |
| TBG: 125 | INT: 0 |
| CSG: 196.3 | BH: 197.4 |

## BRADENHEAD

| Test Time | BH | CSG | INT |
|---|---|---|---|
| 5 minutes: | | | |
| 10 minutes: | | | |
| 15 minutes: | | | |
| 20 minutes: | | | |
| 25 minutes: | | | |
| 30 minutes: | | | |
| | | | |
| **End of Test 5 minute SI:** | | | |

| Flow Characteristics | BH | INT |
|---|---|---|
| Steady Flow: | x | |
| Surges: | | |
| Down to Nothing: | | |
| No Flow: | | x |
| Gas: | x | |
| Water: | | |
| Gas & Water: | | |

| Water Flow | |
|---|---|
| Clear | |
| Fresh | |
| Salty | |
| Sulfur | |
| Black | |
| Muddy | |

## Intermediate

| INT | CSG |
|---|---|
| | |
| | |
| | |
| | |
| | |
| | |
| | |

| | |
|---|---|
| | |

9

| MSO Comments/Info |
|---|
| **Remarks after blowing for 1hr 30 min didn't blow down Braden psi was 120 casing 164** |

| Tested By: | Company (BR or COP: | Witness: |
|---|---|---|
| Pat Stawinski | COP | NO |