

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

AUG 04 2010

Farmington Field Office
Bureau of Land Management

Sundry Notices and Reports on Wells

AMENDED

APR 14 2011

1. Type of Well
GAS

2. Name of Operator
CONOCOPHILLIPS COMPANY

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

4. Location of Well, Footage, Sec., T, R, M

Surf: Unit B (NWNE), 1065' FNL & 1850' FEL, Section 27, T28N, R9W, NMPM

5. Lease Number
SF- 077111 -
6. If Indian, All. or
Tribe Name
7. Unit Agreement Name
8. Well Name & Number
Storey C 3
9. API Well No.
30-045-11613
10. Field and Pool
Basin DK
11. County and State
San Juan Co., NM



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

Type of Submission
☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment

Type of Action
☒ Abandonment

☐ Recompletion

☐ Plugging

☐ Casing Repair

☐ Altering Casing

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut off
☐ Conversion to Injection

☒ Other - P&A

ENTERED
APR 13 2011

13. Describe Proposed or Completed Operations

ConocoPhillips wishes to P&A the subject well per attached procedure and well bore schematic.

AUG 06 2010

BY Sm

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

Signed Jamie Goodwin Title Regulatory Technician Date 8/3/10

(This space for Federal or State Office use)

APPROVED BY [Signature] Title PE Date AUG 06 2010

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.

NMCCD

✓

Plug and Abandonment

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield.

1. This project requires a NMOCD C-144 CLEZ Closed-Loop System Permit for the use of an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.
2. Install and test location rig anchors. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.

3. Rods: Yes ☐, No ☒, Unknown ☐.
 Tubing: Yes ☒, No ☐, Unknown ☐ Size 2-3/8", Length 7558'.
 Packer: Yes ☐, No ☒, Unknown ☐ Type .

If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.

4. **Plug #1 (Dakota perforations: 7300' – 7400')**: Round trip with 4.5" gauge ring to 7400'. RIH and set 4.5" CIBP at 7400'. Load casing and circulate well clean. Run CBL from CIBP to surface. Pressure test casing to 560#. *If casing does not test, then spot or tag subsequent plugs as appropriate.* Mix 12 sxs Class B cement ((100 x .0895) / 1.18 + 50' excess) and spot above CIBP to isolate the DK perforations. PUH.

→ *Meadeville plug 4738' - 4638' inside & outside 4 1/2" casing*

5. **Plug #2 (Chacra tops, 3968' - 4068')**: Perforate 2 squeeze holes at 4068'. RIH w/ 4.5" cement retainer to 4018'. Load casing and with water and circulate well clean. Pressure test casing to 560#. If the casing does not test, then spot or tag subsequent plugs as appropriate. Establish rate into squeeze holes. Mix 36 sxs Class B cement. Squeeze 24 sxs cement outside ((100 x .138) / 1.18 + 100% excess) the casing and leave 12 sxs in the ((100 x .0895) / 1.18 + 50' excess) casing. PUH

→ *75/8" casing shoe plug 3237' - 3133' inside & outside 4 1/2" casing*

6. **Plug #3 (Pictured Cliffs and Fruitland Coal top: 2539' – 3069')**: Perforate 2 squeeze holes at 3069'. RIH w/ 4.5" cement retainer to 3019'. Load casing and with water and circulate well clean. Pressure test casing to 560#. If the casing does not test, then spot or tag subsequent plugs as appropriate. Establish rate into squeeze holes. Mix 122 sxs Class B cement. Squeeze 78 sxs cement between ((530 x .138) / 1.18 + 50' excess) the 4.5" and 7-5/8" annulus casing and leave 44 sxs in the ((530 x .0895) / 1.18 + 50' excess) 4.5" casing. PUH

7. **Plug #4 (Kirtland and Nacimiento tops, 849' - 2217')**: *Ojo Alamo 1948 05*
~~2 squeeze holes at 1450'~~ Perforate 2 squeeze holes at 2217' and ~~1450'~~ RIH w/ 4.5" cement retainer ~~1400'~~ ^{1450'}. Load casing and with water and circulate well clean. Pressure test casing to 560#. If the casing does not test, then spot or tag subsequent plugs as appropriate. Establish rate into squeeze holes. Mix ~~553~~ ⁵⁵³ sxs Class B cement. Squeeze ((1368 x .2148) / 1.18 + 100% excess) ~~254~~ ²⁵⁴ sxs cement outside 7-5/8" casing (this will cover 1543' to 849'). Squeeze ~~101~~ ¹⁰¹ sxs cement between ((1368 x .1587) / 1.18 + 50' excess) the 4.5" and 7-5/8" annulus casing, leave ~~66~~ ⁶⁶ sxs in the ((1368 x .0895) / 1.18 + 50'

→ *Nacimiento plug 815' - 715' inside & outside the 4 1/2" & 7" casing*

excess) 4.5" casing under the Cement Retainer and leave 42 sxs on top of the Cement Retainer.
PUH

8. **Plug #5 (10-3/4" surface casing shoe, Surface' – 324')**: Perforate 2 squeeze holes at 324'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 147 sxs cement and pump down the 4.5" casing to circulate good cement out of the 4.5" and 7-5/8" annuli. Shut-in well and WOC. TOH and LD tubing.
9. ND BOP and cut off wellhead below surface casing flange. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location per BLM stipulations.

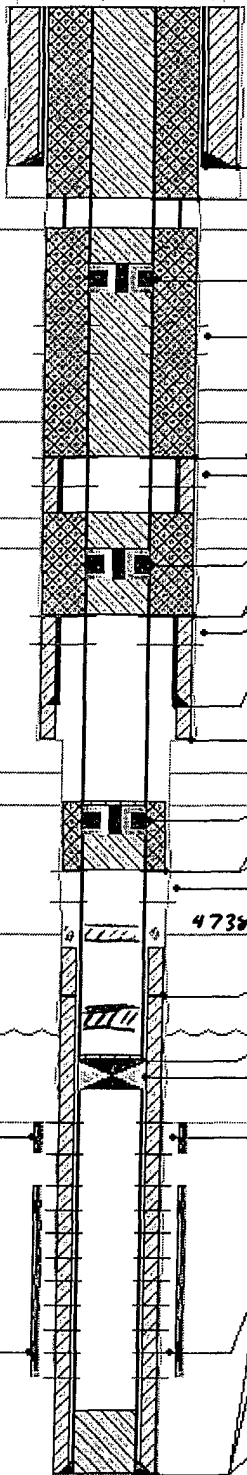
Propose Wellbore

ConocoPhillips

Well Name: STOREY C#3

API/UVI 3004511613	Surface Legal Location NMMP-28N-09W-27-B	Field Name DK	License No.	State/Province NEW MEXICO	Well Configuration Type	Edit
Ground Elevation (ft) 6,817.00	Original KB/RT Elevation (ft) 6,827.00	KB-Ground Distance (ft) 10.00	KB-Casing Flange Distance (ft) 10.00	KB-Tubing Hanger Distance (ft) 10.00		

Well Config: - Original Hole, 7/30/2010 2:21:14 PM

ftKB (MD)	Schematic - Actual	Frm Final
10	 <p>Surface Casing Cement, 10-274, 12/1/1965, Cemented with 200 sxs Class 'C' Cement, circulated to surface. Surface, 10 3/4in, 10.192in, 10 ftKB, Reports are unclear regarding K.B. length. all strings have been set at a 10' K.B. without known adjustment., 274 ftKB Cement plug, 10-324, 7/30/2010 Cement squeeze, 10-324, 7/30/2010</p>	$324/11.167(1.18) = 25 \text{ sxs}$ $324/6.808(1.18) = 46 \text{ sxs}$ $50/4.96(1.18) = 9 \text{ sxs}$ $274/4.00(1.18) = 58 \text{ sxs}$ 138 sxs
41		
51		
272		
273		
274		
286		
899		NACIMIENTO, 899
1,400		765
1,401		$(235-1344)/4.96(1.18) = 88 \text{ sxs}$
1,450	*COPY* Cement Retainer, 1,400-1,401	
1,451	squeeze perf, 1,450-1,451, 7/30/2010	$2105-1944/11.167(1.18) = 23 \text{ sxs}$
2,049		$2205-1944/6.008(1.18) = 36 \text{ sxs}$
2,167		1998
2,217	Cement plug, 849-2,217, 7/30/2010	OJO ALAMO, 2,049
2,218	Cement squeeze, 849-2,217, 7/30/2010	KIRTLAND, 2,167
2,589	squeeze perf, 2,217-2,218, 7/30/2010	55
3,019		2716
3,020	Cement Retainer, 3,019-3,020	FRUITLAND, 2,589
3,069	Cement plug, 2,539-3,069, 7/30/2010	PICTURED CLIFFS, 3,019
3,070	Cement squeeze, 2,539-3,069, 7/30/2010	
3,182	squeeze perf, 3,069-3,070, 7/30/2010	$3069-2539/11.167(1.18) = 40 \text{ sxs}$
3,183	Intermediate, 7 5/8in, 7.025in, 10 ftKB, 3,183 ftKB	$3069-2539/6.008(1.18) = 75 \text{ sxs}$
3,186	Intermediate Casing Cement, 1,543-3,186, 12/5/1965, Cemented w/ 235 sxs Class 'C' Cement, followed by 150 sxs Class 'C' Cement. TOC @ 1543' = 75% Eff. Calc.	$180/6.008(1.18) = 14$
3,605		$180/4.399(1.18) = 20 \text{ } 34 \text{ sxs}$
4,018	Cement Retainer, 4,018-4,019	LEWIS, 3,605
4,019	Cement plug, 3,968-4,068, 7/30/2010	CHACRA, 4,018
4,068	Cement Squeeze, 3,968-4,068, 7/30/2010	4000
4,069	squeeze perf, 4,068-4,069, 7/30/2010	
4,690	4738' 4638'	$200/4.399(1.18) = 39 \text{ sxs}$
5,881	Production Casing Cement, 5,219-5,882, 1/7/1966, Cemented second stage with 100 sxs Class 'C' Cement TOC 5219' - 75%	MESA VERDE, 4,690
5,882	Efficiency Calculation	80
6,685	Cement Plug, 7,300-7,400, 7/30/2010	
7,400	Bridge Plug - Permanent, 7,400-7,401	Calculation 6494
7,401	Hydraulic Fracture, 1/10/1966, Frac'd Upper Dakota with 65,290 gals water, 30,000 lbs 40/60 Sand, and 30,000 lbs 20/40 Sand.	plug 6544'-6444'
7,450	Upper Dakota, 7,450-7,476, 1/11/1966	DAKOTA, 7,450
7,476		7370
7,506		$150/11.167(1.18) = 12 \text{ sxs}$
7,522		
7,524		
7,555		
7,556	Hydraulic Fracture, 1/10/1966, Frac'd Lower Dakota with 42,630 gals water and 42,000 lbs 40/60 Sand. PBTD, 7,658	
7,558		
7,640		
7,658	Lower Dakota, 7,506-7,640, 1/9/1966	
7,693	Plugback, 7,658-7,694	
7,694	Production Casing Cement, 5,882-7,694, 1/7/1966, Cemented first stage with 100 sxs Type 'C'. Production, 4 1/2in, 4.000in, 10 ftKB, The number of joints was calculated by dividing the casing lengths by 43', 7,694 ftKB	10.5

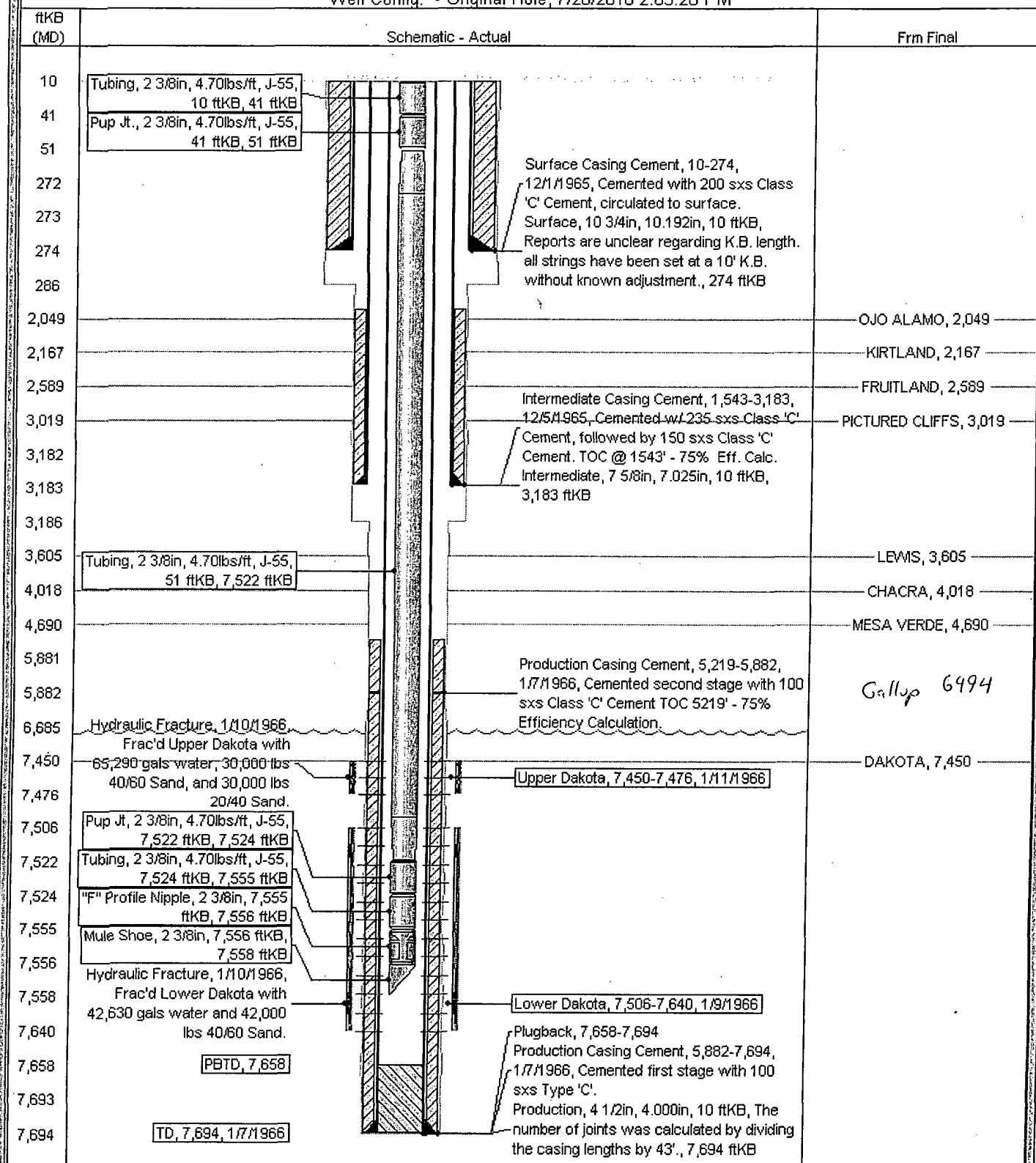
Current Schematic

ConocoPhillips

Well Name: STOREY, C #3

API/UVI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type	Edit
3004511613	NMPM-28N-09VV-27-B	DK		NEW MEXICO		
Ground Elevation (ft)	Original KB/RT Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)		
6,817.00	6,827.00	10.00	10.00	10.00		

Well Config: - Original Hole, 7/26/2010 2:05:20 PM



**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
1235 LA PLATA HIGHWAY
FARMINGTON, NEW MEXICO 87401**

Attachment to notice of
Intention to Abandon:

Re: Permanent Abandonment
Well: 3 Story C

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 599-8907.
3. The following modifications to your plugging program are to be made:
 - a) Place a cement plug from 6544' – 6444' to cover the Gallup top.
 - b) Place the Mesaverde plug from 4738' – 4638' inside and outside the 4 ½" casing.
 - c) Place the Chacra plug from 4050' – 3950' inside and outside the 4 ½" casing.
 - d) Place a cement plug from 3233' – 3133' inside and outside the 4 ½" casing to cover the 7 5/8" casing shoe.
 - e) Place the Kirtland/Ojo Alamo plug from 2205' – 1948' inside and outside the 4 ½" casing.
 - f) Place the Nacimiento plug from 815' – 715' inside and outside the 4 ½" casing.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.