Form 3160-4
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: November 30, 2000

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMSF076554

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry Other
b. Type of Completion ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☒ Diff. Resvr,.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and no.
Hamilton

2. Name of Operator
ConocoPhillips Co.

8. Lease Name and Well No.
Hamilton 2A

3. Address
P.O. Box 2197, WL3-6081 Houston Tx 77252

3.a Phone No. *(Include area code)*
(832)486-2463

9. API Well No.
30-045-21643

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**
At Surface Sec 30 T32N R10W SENW 1650FNL 1650FWL
At top prod. interval reported below
At total depth

10. Field and Pool, or Exploratory
Basin Fruitland Coal

11. Sec., T., R., M., on Block and Survey or Area Sec 30 T32N R10W

12. County or Parish
San Juan

13. State
NM

14. Date Spudded
02/07/1975

15. Date T.D. Reached
~~08/05/1998~~ 2-21-75

16. Date Completed
☐ D & A ☒ Ready to Prod.
06/07/2005

17. Elevations (DF, RKB, RT, GL)*
6115 GL

18. Total Depth: MD 5500 TVD

19. Plug Back T.D.: MD 5470 TVD

20. Depth Bridge Plug Set: MD 3027' TVD

21. Type of Electric & Other Mechanical Logs Run (Submit copy of each)
GR/CCL

22. 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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.25	10.75	36	0	167		125		0	
8.75	7 LT&C	23	0	3187		175		0	
7	4.5 K55	11.6	0	5500		300		2700	

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	2950.51'							

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	Basin Fruitland Coal	2570	2890	2570- 2571; 2683- 2684	.48	6	Open
B)				2670 - 2680	.48		Open
C)				2770 - 2780	.48		Open
D)				2872 - 2890	.48		Open

27. Acid, Fracture, Treatment, Cement Sqeeze, Etc.

Depth Interval	Amount and Type of Material
2570-2571; 2683-2684	Cement Squeeze w/125 sxs BJ Light Mixed @ 12.1#/gal & tail in w/50 sxs neat mixed @ 12.4#/gal

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
6/07/05	6/06/05	24	→	0	20	20			Pumping Unit
Choke Size	**Tbg. Press. Flwg. SI**	**Csg. Press.**	**24 Hr. Rate**	**Oil BBL**	**Gas MCF**	**Water BBL**	**Gas : Oil Ratio**	**Well Status**	
1/4	<5	75	→					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. SI**	**Csg. Press.**	**24 Hr. Rate**	**Oil BBL**	**Gas MCF**	**Water BBL**	**Gas : Oil Ratio**	**Well Status**	
			→						

NMOCD

RECEIVED
070 FARMINGTON NM
2005 JUN 16 PM 12 29

ACCEPTED FOR RECORD
JUN 30 2005
FARMINGTON FIELD OFFICE
BY

(See Instructions and spaces for additional data on reverse side)

28b. Production - Interval C

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. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status

28c. Production - Interval D

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. SI	Csg. Press.	24 Hr. Rate →	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 porsity and contents thereof: Cored intervals and all drill-stem tests, inlcuding 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 Meas. Depth
				Chacra	4187
				Cliffhouse	4747
				Menefee	4819
				Pt. Lookout	5179

32. Additional remarks (include plugging procedure):

This well was recompleted to the Basin Fruitland Coal and is for now only producing from this formation. The well was originally producing from the Blanco Mesaverde, but during the recomplete, a cast iron bridge plug was set @ 3027' to TA the Mesaverde. A pumping unit was installed and the well will be on pump for 2-3 months before returning with a rig to drill out the plug and commingle the well. Daily summary report is attached.

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.) 2. Geological Report 3. DST Report 4. Directional Survey
5. Sundry Notice for plugging and cement verification 6. Core Analysis 7. 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 Gustartis Title Regulatory Analyst

Signature Chris Gustartis Date 06/15/2005

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 fradulent statements or representations as to any matter within its jurisdiction.

ConocoPhillips

Regulatory Summary

HAMILTON 002A

Re-Completion, 05/23/2005 06:30

API/Bottom UWI	County	State/Province	Surface Legal Location	N/S Dist (ft)	N/S Ref	E/W Dist (ft)	E/W Ref
300452164300	SAN JUAN	NEW MEXICO	NMPM-32N-10W-30-F	1,650.00	N	1,650.00	W

Ground Elevation (ft)	Latitude (DMS)	Longitude (DMS)	Spud Date	Rig Release Date
6,115.00	36° 57' 32.292" N	107° 55' 35.4" W	07/13/1998	

05/23/2005 00:00 - 05/23/2005 17:00

Last 24hr Summary

Pick up all equipment @ Federal #16 and move in to Hamilton #2A. Spot all equipment.
Rig in yard for repairs.Rig crew in yard pulling service (drill line; brakes; transmission) with mechanics. Derrick still up at quitting time (too windy). Will lower derrick in A.M. & move out to location.
SIFN.

05/24/2005 00:00 - 05/24/2005 17:00

Last 24hr Summary

Rig Down in yard, after repairs. Move Rig out to location.
Move in Rig up Service Unit. Lay flowlines & Blow down: casing - 140 psi, tubing- 160 psi.
ND Wellhead; NU BOP's; Move short spool to under BOP's.
Pressure Test BOP's : Blinds- 350 psi low, 1650 psi high; Pipes - 250 psi low, 1750 high. All Good.
PU Wood Group lubricator; NU to BOP's; Pull BPV from tubing; LD BPV; ND Lubricator.
Kill casing w/ 20 bbl; Pull tubing hanger; stretch Geronimo out; TOH w/ production.
Leave 9 stands in hole; Secure well; lock rams; SIFN.

05/25/2005 00:00 - 05/25/2005 17:00

Last 24hr Summary

Held safety meeting w/ crew & Halliburton Tool man; discussed possible hazards & ways to avoid them - (Tripping; Perforating; Pressure Testing; Normal Ops). Blow down casing; 140 psi.
Kill casing w/ 25 bbl & TOH. PU Fasdrill 4 1/2" CBP on mechanical setting tool & TIH.
Set Fasdrill CBP @ 3027'; Roll hole w/ 50 bbl; Pressure Test to 1100 psi - Good.
TOH w/ setting tool & rig up Blue Jet Wireline. PU 3 shot sqz gun & TIH; Tag top of plug @ 3027'; pick up collars from 1998 Schlumberger CBL; Shoot 3 @ 2683'. Attempt to circulate; No good; Went to 2200 psi - Still no good; Keep trying; Hook up to 7" annulus - took one bbl & pressured up. No circulation.
Called for another sqz. gun; Wait on Blue Jet.
RU Blue Jet; RIH w/ 3 shot sqz gun; Shoot 3 @ 2570' - got immediate communication; TOH & RD.
Pump 60 bbl down 4 1/2" & up 7" annulus - full circulation.
TIH w/ RTTS; Set @ 2640' +-; attempt to circulate bottom holes at 2200 psi again - still no good. POOH to 2207' & set RTTS for cement job in A.M. Broke circulation.
Install TIW; Secure well & lock rams; SIFN.

05/26/2005 00:00 - 05/26/2005 17:00

Last 24hr Summary

Held safety meeting w/ crew & Halliburton Tool man; discussed possible hazards & ways to avoid them - (Cementing; Pressure Testing; Normal Ops). Rig up Cement Job. Held another safety meeting w/ crew & Halliburton Tool man; Water haulers, BJ Cement crew, discussed possible hazards & ways to avoid them & each individual's responsibilities during Cement Job - Cementing; Pressure Testing; Circulating; washing up).

Cement Job:
Pressure test pumps & lines to 3500 psi. Pump 20 bbl fresh water spear ahead.
Mix & pump 125 sacks BJ Light mixed @ 12.1#/gal & tail in w/ 50 sacks neat mixed @ 12.4#/gal.
Displace cement w/ 13 bbl fresh water to TOC @ 2500'.
Got 10 bbl of good slurry returns to pit.
Shut tubing in w/ 640 psi differential pressure.

Wash up cementing equipment; store excess water in day tank; rack up & release BJ & water trucks.
Secure well; lock rams; pick up trash; SIFN, wait on cement 'til A.M.

05/27/2005 00:00 - 05/27/2005 14:00

Last 24hr Summary

Held safety meeting w/ crew & Halliburton Tool man; discussed possible hazards & ways to avoid them - (Tripping; Releasing packer; Change out Well head; Pressure Testing; Drilling cement; Normal Ops).
Release Packer & TOH. LD tools.
ND BOP's; ND Tubing head; NU new tubing head; NU BOP's.
Pressure test new well head, casing, BOP's & cement top to 2200 psi - Good.
PU 3 7/8" cone bit & TIH; Tag TOC @ 2475'; LD Singles; PU Swivel.
Drill out cement from 2475' to 2460'. Stopped 10' short because cement is too soft. Will finish Tuesday.
Continue to wait on cement. Secure wellsite; Lock rams; SIFN.

05/31/2005 00:00 - 05/31/2005 16:30

Last 24hr Summary

HHeld safety meeting w/ crew; discussed possible hazards & ways to avoid them - (Tripping; Pressure Testing; Drilling cement; Laying down tubing; Normal Ops).
TIH; tagup, rig up; continue to drill out. Drill out remaining cement & circulate cuttings out.
Pressure test squeeze to 2150 psi - Good.
TOH w/ bit; TIH w/scraper.
SD & Held safety meeting w/ crew; discussed accident on rig 15 involving picking up (or laying down) tubing. Emphasized always watching BOTH ends of tubing to avoid getting struck by kick-back or other sudden movement - while on float or on float.
Roll hole w/ clean 2% KCL; TOH w/ scraper, laying down bottom 72 jts from well.
R&R BJ power tongs on rig.
Clean up cement cuttings area & pump off drill water to flowback tank.
Send pipe in; Secure well; Lock rams; SIFN.

06/01/2005 00:00 - 06/01/2005 16:30

Last 24hr Summary

Held safety meeting w/ crew & Halliburton Toolman; discussed possible hazards & ways to avoid them - (Tripping; Pressure Testing; Picking up Guns; Picking up tubing; N2; High pressure).
Strap & Tally guns, Tools, & N80 tubing & subs; Pressure test while going in hole.
Land in hanger & RU Wireline. Pull GR/CCL to correlate depth to 1998 Schlumberger CBL. RD Wireline.
Space out to get RA marker on depth using wireline survey. Set Uni-6 packer w/ Top Shot @ 2872'. Land w/ 10K compression & lock down hanger.
Held safety meeting w/ crew; discussed Pressure actuating the guns w/ N2; Discussed everyone's location & role during this job.

15:15 Test lines to 5000 psi. Start Job w/ 500 psi on casing;
15:30 Build pressure up to firing (4300 - 4700 psi) & keep increasing casing up to 2150 psi.
15:45 Guns fire @ 4250psi
Formation breaks @ 4180 psi
Follow w/ N2 @ 4000 SCFM for 4 minutes - stabilizing @ 1180 psi.
15:50 ISIP = 971 psi.
15:55 5 minute = 159 psi
16:00 10 minute = 147 psi

16:45 Open well on 1/2" choke @ 80 psi
17:00 40 psi
17:45 40 psi (285 MCFD) stable, but still showing some Gas mixed w/ N2.

Turn over to dry watch & continue to monitor well for a total of 4 hours. SIFN @ 21:00.

06/02/2005 00:00 - 06/02/2005 16:30

Last 24hr Summary

Held safety meeting w/ crew & Halliburton Toolman; discussed possible hazards & ways to avoid them - (Tripping; Pressure Testing; Picking up Guns; Picking up tubing; N2; High pressure).
Bleed off tubing (108 psi); kill w/ 10 bbl; RD flowline;unseat packer; pull tbg. hanger.
TOH w/ guns & packer. LD guns & packer.
RU wireline; PU 4 1/2" Fasdrill CBP; RIH & set @ 2830'; RD wireline.
Load casing (40+ bbl) & Test Plug to 2000 - Good. PU guns & packer; TIH.
RU wireline; RIH w/ GR/CCL; Correlate depth to RA marker. RD wireline.
Get spaced out; add pups; set packer to put top shot @ 2770' (bottom @ 2780').
Held safety meeting w/ crew; discussed Pressure actuating the guns w/ N2; Discussed everyone's location & role during this job.

13:00 Test lines to 5000 psi. Start Job w/ 500 psi on casing;
13:15 Build pressure up to firing (4300 - 4700 psi) & keep increasing casing up to 2150 psi.
13:23 Guns fire @ 4360psi
Formation breaks @ 4328 psi
Follow w/ N2 @ 4000 SCFM for 4 minutes - stabilizing @ 2100 psi.
13:28 ISIP = 1737 psi.
13:33 5 minute = 477 psi
13:38 10 minute = 291 psi
13:43 15 minute = 220 Shut in & RD N2. Rig up Flowline w/ 1/2" choke.

Open up @ 158 psi on 1/2" choke. Bled off to 0 psi in 10 minutes. Shut back in & change to 1/4" choke. Open on 1/4" @ 50 psi. Fell to 8 psi in 10 minutes. Began flow test @ 15:00 :

15:00	3 psi	1/4" choke		
15:30	3 psi	1/4" choke		
16:00	2.7 psi	1/4" choke	some gas	
16:30	2.5 psi	1/4" choke	some gas	
17:00	2.5 psi	1/4" choke	mostly gas	no water, no oil

Turn well over to dry watch; Will SIFN @ 18:00. Secure wellsite.

06/03/2005 00:00 - 06/03/2005 18:00

Last 24hr Summary

Held safety meeting w/ crew & Halliburton Toolman; discussed possible hazards & ways to avoid them - (Tripping; Pressure Testing; Picking up Guns; Picking up tubing; N2; High pressure).
Bleed of SIP of 110 psi; kill w/ 10 bbl; Release packer; Pull tbg hanger.
TOH w/ packer & guns. Lay down spent guns & packer.
RU Wireline; RIH w/ 8K Fasdrill CBP & set @ 2720'. RD wireline.

Attempt tp pressure test Fasdrill CBP & casing - no good - small leak, <100 psi/min.; Considering all available signs, leak determined to be a micro-annulus between 4 1/2" & 7" casing strings, created when shooting 2nd stage. Decide to change Perf Procedure to place packer above sqz perfs @ 2570' so that if it communicates during 3rd stage it will be with itself or, slightly, with 2nd stage perfs, but not with fluid column above packer. No sign of communication behind 7" intermediate.

PU packer & 3rd stage guns. TIH and land w/ tbg. hanger. RU wireline & RIH w/ GR/CCL; correlate depth & log RA marker; RD wireline. Get spaced out w/ pups & set packer to put Top Shot @ 2670' and bottom shot @ 2680'. Set in hanger. Held safety meeting w/ crew, N2 crew, Toolman; discussed Pressure actuating the guns w/ N2; Discussed everyone's location & role during this job. Pressure test N2 pumps & lines to 5000 psi. Pressure casing to 500 psi.

14:42	start job	build pressure to 4500 +-	
14:51	Guns Fire/Break formation	4460 psi	
14:51	Est rate to 4MCFM	3307 PSI	
14:56	ISIP	2861 psi	
15:01	5 min SIP	1228 psi	
15:06	10 min SIP	709 psi	
15:11	15 min SIP	380 psi	

RD N2 & RU Flowline w/ 1/2" choke. 40 min. SIP = 76 psi.

15:35	Open on 1/2" choke	76	psi	
15:40	Shut in & install 1/4" choke	6	psi	psi
15:45	open on 1/4" choke	28	psi	
16:00	1/4" choke	21	psi	
17:00	1/4" choke	14.5	psi	
18:00	1/4" choke	14	psi	
19:00	1/4" choke	14	psi	
20:00	1/4" choke	14	psi	
21:00	1/4" choke	14	psi	

Shut in for psi build up. Secure well; SIFN.

06/04/2005 00:00 - 06/04/2005 12:00

Last 24hr Summary

Held safety meeting w/ crew & Halliburton Toolman; discussed possible hazards & ways to avoid them - (Tripping; Laying down Guns; Laying down tubing; Tripping mill).
Bleed off shut in pressure of 56 psi; Kill w/ 10 bbl; Release packer & pull hanger.
TOH w/ guns & packer; Lay down N80 tubing; Lay down spent guns & packer.
PU 3 7/8" Junk mill on 2 3/8" tubing & TIH 42 stands to above bridge plug - will drill out on Monday.
Secure well; SIFN.

06/06/2005 00:00 - 06/06/2005 17:15

Last 24hr Summary

Held safety meeting w/ crew & Halliburton Tool man; discussed possible hazards & ways to avoid them -
(Drilling plugs; flowback; Normal Ops). Wait on air package to get going.
Unload w/ air & start milling on CBP's; Chase down to plug at 3027'; unload hole & dry up; pull up to bottom perfs - 2885'; unload hole & dry up. RU flowback lines w/ 1/2" choke.

Production Test the Fruitland on 1/2" choke. Tubing & casing loading up & pressure falling off to 0 psi. Unload w/ air again and put back on 1/4" choke. Continue to monitor throughout afternoon.

Results for the purpose of C-104 Allocation are as follows:

Tubing, 1/4" choke: <5 psi (20 MCFD) Casing: 75 psi Oil: 0 BPD Water: 20 BPD

TOH standing back. Secure wellsite; Lock rams; SIFN.

06/07/2005 00:00 - 06/07/2005 17:30

Last 24hr Summary

Met at Key's yard for monthly safety meeting. Drive out to location.
Held safety meeting w/ crew; discussed possible hazards & ways to avoid them - (Tripping; Laying down tubing; Tripping rods; Rigging down). Check pressure (60 psi casing); Wait on Energy Pump.
Rods & BHA on loc.; Spot trailer & unpack rods & pump; Strap mud anchor.
PU & RIH w/ mud anchor, 1.78" F nipple, 92 joints.

Land tubing w/ EOT (mud anchor) @ 2950.51' and top of 1.78" F profile nipple @ 2917.46.

ND BOP's; reconfigure/re-attatch spools; NU B-1 wellhead adapter, Flow line, Rod BOP's; Set up floor & hook for running rods.
PU Gas Anchor, Pump, sinkers, stabilizers, guided rods & plain rods - TIH.
Space out Polished Rod to soft tag w/ pony rods; NU Stuffing box; install clamp & Hercules rotator.

Fill tubing & Pressure Test to 500 psi - Good. Bleed off & Stroke Test Pump to 550 psi - Good.

Rig Down & prepare to move.
Secure wellsite; SIFN.