1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
May 27, 2004

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

[1] Operator Name and Address	[2] OGRID Number
ConocoPhillips Company P. O. Box 51810 Midland, TX 79710-1810	217817
	[3] API Number 30-025-34781

[4] Property Code	[5] Property Name	[6] Well No.
~~25408~~ 31309	Hawkeye 30 State	#1

[9] Proposed Pool 1	[10] Proposed Pool 2
Wildcat; Strawn	

[7] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Westline	County
J	30	17S	34E		1980	South	1970	East	Lea

[8] Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Westline	County
J	30	17S	34E		1980	South	1970	East	Lea

Additional Well Information

[11] Work Type Code	[12] Well Type Code	[13] Cable/Rotary	[14] Lease Type Code	[15] Ground Level Elevation
P	G	C	S	4086' GL
[16] Multiple	**[17] Proposed Depth**	**[18] Formation**	**[19] Contractor**	**[20] Spud Date**
N	13,547'	Morrow	TBD	

Depth to Groundwater	Distance from nearest fresh water well	Distance from nearest surface water

Pit: Liner: Synthetic ☐ ____ mils thick Clay ☐ Pit Volume: ____ bbls
Closed-Loop System ☐

Drilling Method:
Fresh Water ☐ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐

[21] Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2"	13-3/8"	48#	400'	400sx Cl "C"	
11"	8-5/8"	32#	4805'	1400sxPOZ+300sxC	Circ. 190sx
7-7/8"	5-1/2"	17#	13,530'	1000sx Cl "C"	

[22] Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Propose to recomplete well within the Strawn per the attached Procedure.
Wish to set CIBP @ 13,100' +/- and perforate 12,484-12,494' w/4 spf (40 holes), then acidize w/1000G acid.

Permit Expires 1 Year From Approval
Date Unless ~~Drilling~~ Underway
Plug Back

[23] I hereby certify that the information given above is true and complete to the best of my knowledge and belief. **I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☒.**

Printed name: Celeste G. Dale
Title: Regulatory Specialist
E-mail Address: celeste.g.dale@conocophillips.com
Date: 09/05/2007 Phone: (432)688-6884

OIL CONSERVATION DIVISION

Approved by: Chris Williams
Title: DISTRICT SUPERVISOR/GENERAL MANAGER
Approval Date: SEP 07 2007 Expiration Date:
Conditions of Approval Attached ☐

Perforate Strawn:

MI&RU a Swab unit and swab tubing down a minimum of 2000' from surface. Note: it may be necessary to use loose swab cups to recover liquid from the wellbore due to this being a closed system.

Drop bar to fire TCP guns. Report "stabilized" shut-in pressure after perforating in Well View.

Flow the well to open-top frac tank until the well dies or "gases out" (10 - 20% gas flow). Flow/swab the well back as soon as possible to evaluate. Set the choke at 12/64". Estimate the amount of gas & fluid recovery.

RD & MO well service unit.

Note: Discuss rate & pressure with Chris Appel/Ted Brain before proceeding with next step!

*****NOTE: Hold 2,000 psi on tubing X casing annulus throughout Acid job*****

Breakdown & Acid Ball Out: (Ensure a shower facility is available on location when using acid)

MI & RU **Halliburton** acid services. Treat well per enclosed **"MOD" acid proposal**. Test treating lines per enclosed Halliburton procedure or as directed by onsite supervision. Test the surface lines and monitor for 5 min. Make sure the pressure does not decrease more that **300** psi over the 5 minutes.

MI & RU one (1) clean water transport loaded with fresh water mixed with **6%** powdered KCL. Test the surface treating line to **10,000** psi (anticipated WHTP – **9,000** psi). **Titrate acid to ensure quality**. Note: Ensure the wellhead and casing is isolated from the test pressure.

Break down the formation and ball out the perf's with acid. Pump **1,000 gals "MOD" acid, "bio" balls, and a 6% KCL water flush at 1-2 bpm rate.** Maximum surface pressure not to exceed **9,000** psi. After balling out, surge the well with several **5-sec surges** using the choke manifold. Record the rate and pressure in Wellview.

RD & MO Halliburton acid services. If necessary swab to unload well.

Flow test well overnight into open top frac tank to evaluate and clean up Strawn.

Perform BHP test:

MI&RU slick-line unit and perform **enclosed BHP procedure.** RD & MO slick-line services.

Note: Discuss rate & pressure with Chris Appel/Ted Brain before proceeding with next step!

Acidize: Note: It is a ConocoPhillips policy to have shower facilities on location when using acid.

Strawn Acid-Frac Stimulation: (Ensure a shower facility is available on location when using acid)

*****NOTE: Hold 2,000 psi on tubing X casing annulus throughout stimulation*****

Spot 2-clean, lined frac tanks, and fill with clean 6% KCL water (for biocide & other additives). **Design = 667 bbls** for job. Plus **100 bbls** for tank bottom is 767 bbls total.

MI & RU **Halliburton** Acid-Frac services. Test treating line, pop-offs, and pump trips per enclosed Halliburton procedure or as directed onsite. Test the surface lines and monitor for **5** min. Make sure the pressure does not decrease more that **300** psi over the 5 minutes

Perform all quality control checks, titrate acid to confirm quality. Note: Ensure the wellhead and casing is isolated from the test pressure.

Set treating line pop-off to release per Halliburton direction, but not to exceed **9,500** psi and test the pop-off. Set the pump trips per Halliburton direction, but not to exceed **9,200** psi. Test the surface lines to **10,000** psi and monitor for **5** min. Make sure the pressure does not decrease more that **300** psi over the 5 minutes.

Prior to and/or during rig up, conduct quality assurance checks before pumping the job:

(1) Fann 35 Tests - Pump Time + 1 Hour (100° F - pad & 100° - job)
(2) API Water Test
(3) Hydration Test (five minutes)
(4) Bucket Tests – liquid additives
(5) Straps on all chemical additives

Open the well - get a SIWHP, as applicable.

Obtain the following FET information as practical:

- ISIP
- F.G.
- 5, 10, & 15 min. L.O.
- Closure Time & Pressure
- Fluid Efficiency
- # Perf's Open

Pump the Acid-Frac per the enclosed Halliburton Strawn procedure:

***** NOTE: Hold 2,000 psi on tubing X casing annulus throughout stimulation *****

Obtain a post-frac ISIP, 5, 10, & 15 minute leak-off pressures. Shut-in the well. Bled off the pressure from the treating lines.

Flowback the well at 1 – 3 bpm into the open-top tank until the well dies or "gases out" (10 - 20% gas flow). Commence flowing the well back as soon as practical. Set the choke at 12/64". Estimate the amount of fluid and sand recovered.

RD & MO Halliburton pumping service.

Clean Out:

If necessary MI & RU swab unit to unload and/or kick off well.

Contact **Daniel Rosa** prior to turning the well over to the operations for production.

Release all ancillary equipment. Clean location and remove all debris/trash.

Report all work in Wellview.

Turn well over to Operations. Test well and report production rates/pressures in Fieldview

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATIONDIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-025-34781	97550	Wildcat; Strawn (Gas)

4 Property Code	5 Property Name	6 Well Number
~~25408~~ 37309	Hawkeye 30 State	#1

7 OGRID No.	8 Operator Name	9 Elevation
217817	ConocoPhillips Company	4086'GL

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	30	17S	34E		1980	South	1970	East	Lea

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
320			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature 09/06/2007 Date

Celeste G. Dale
Printed Name

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number